

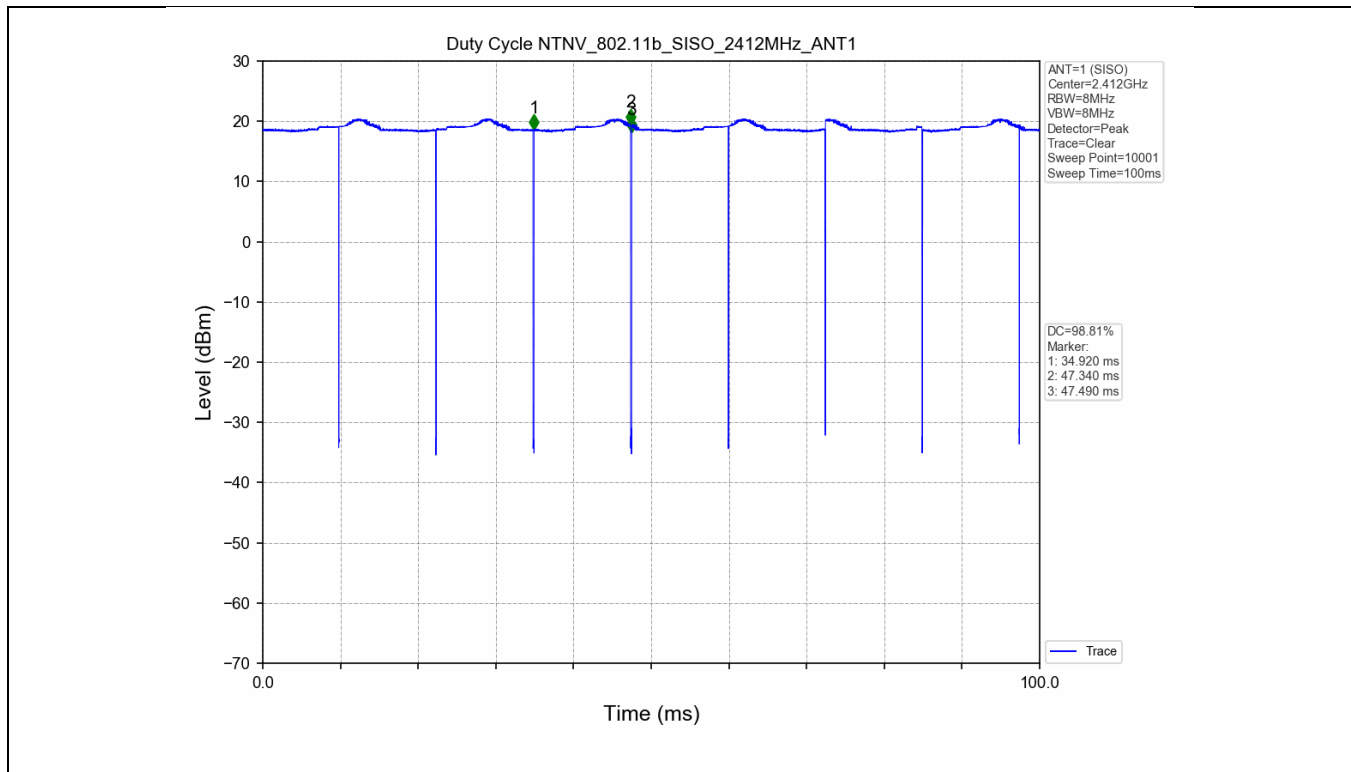
## Appendix A for KSEM210400063901

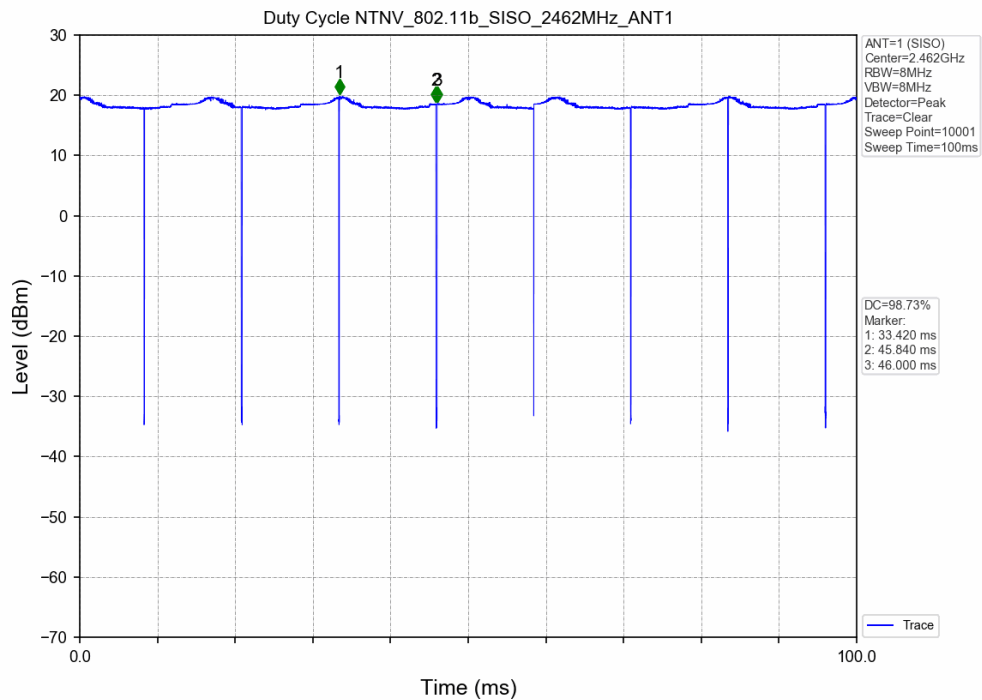
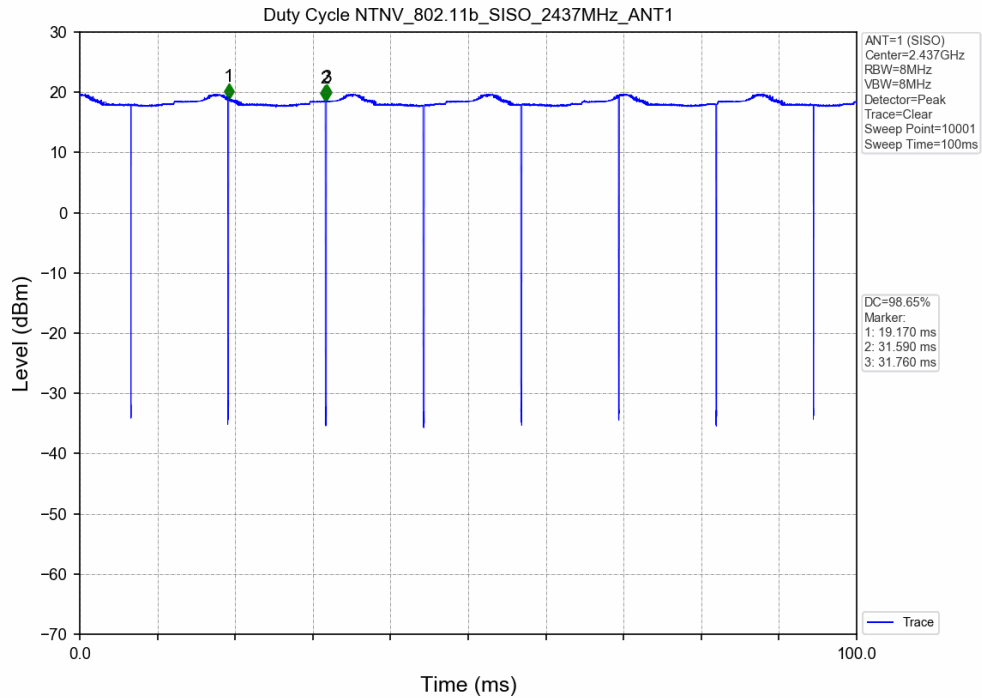
## 1. Duty Cycle

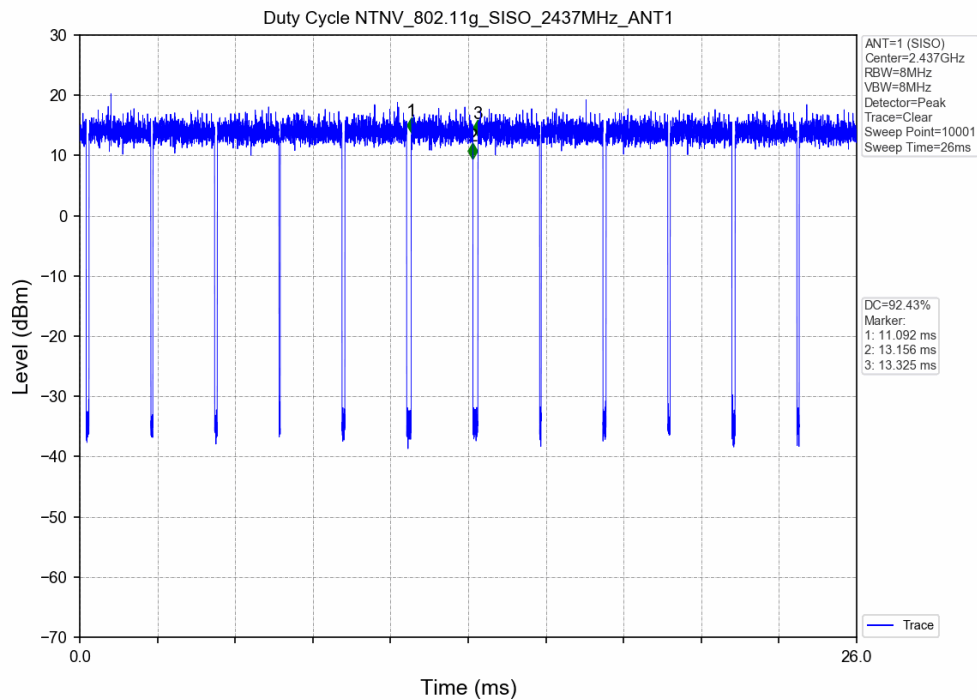
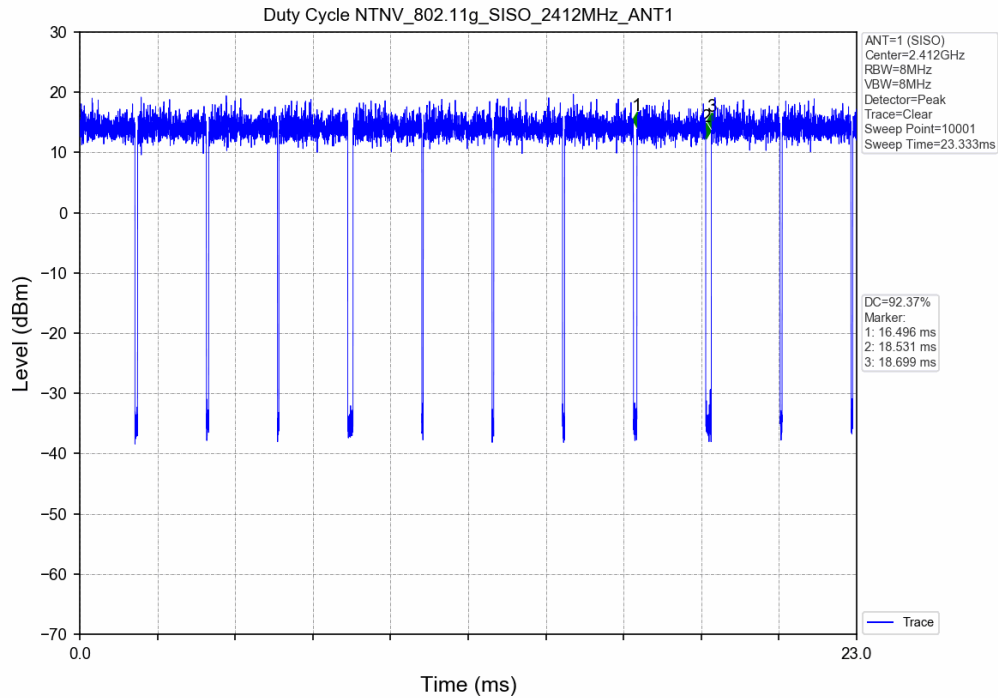
## 1.1 Test Result

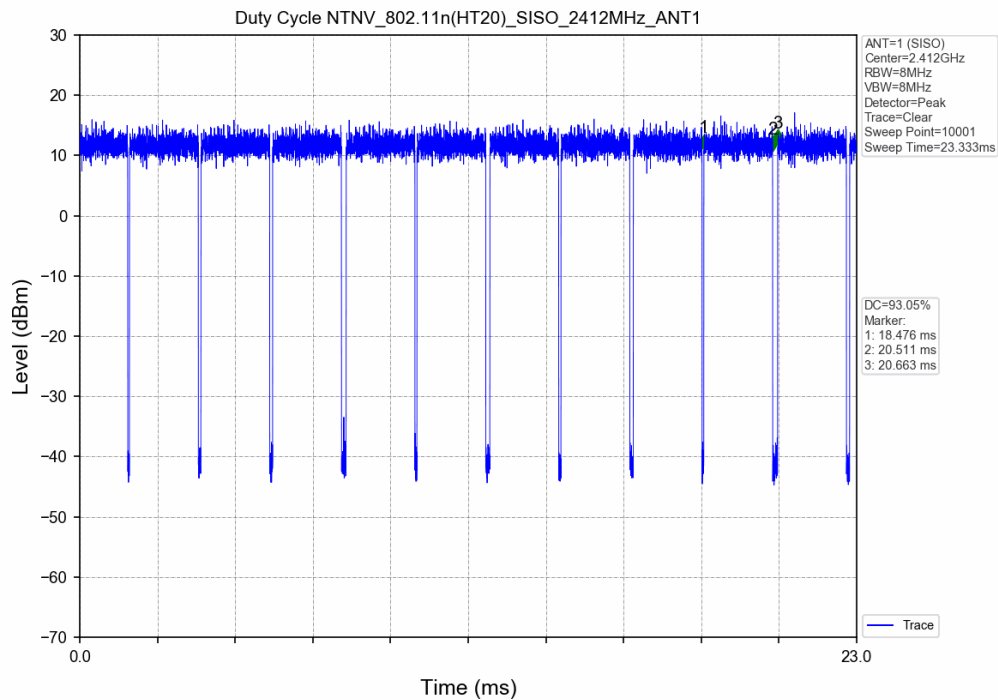
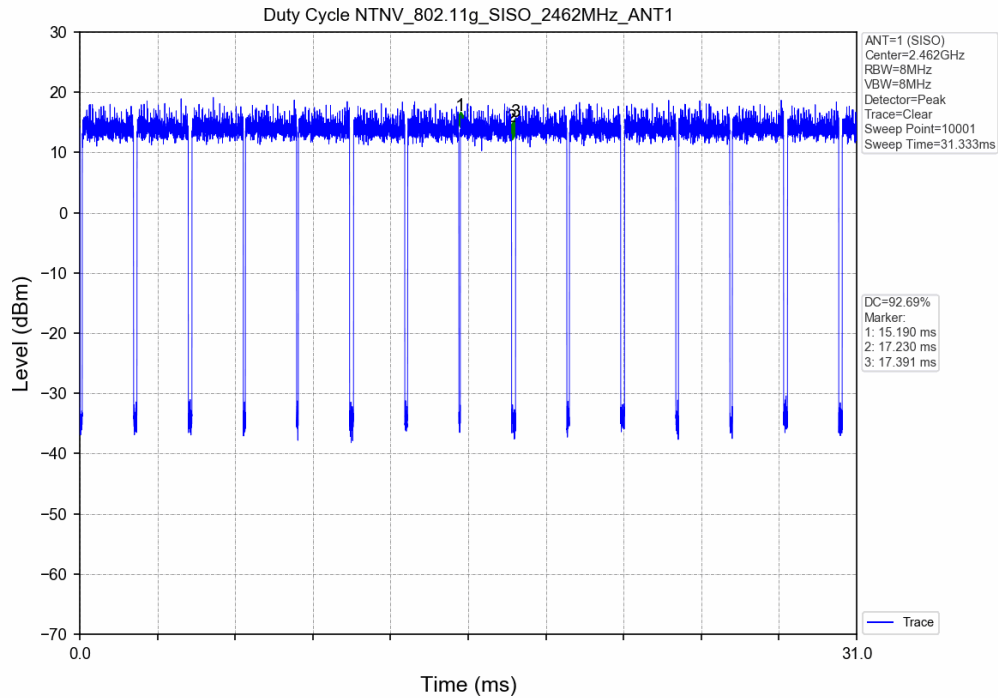
| Test Mode     | Channel Frequency(MHz) | TX Type | ANT No. | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---------------|------------------------|---------|---------|-----------|-------------|----------------|-----------------------------------|
| 802.11b       | 2412                   | SISO    | 1       | 12.420    | 12.570      | 98.81          | 0.05                              |
|               | 2437                   | SISO    | 1       | 12.420    | 12.590      | 98.65          | 0.06                              |
|               | 2462                   | SISO    | 1       | 12.420    | 12.580      | 98.73          | 0.06                              |
| 802.11g       | 2412                   | SISO    | 1       | 2.035     | 2.203       | 92.37          | 0.34                              |
|               | 2437                   | SISO    | 1       | 2.064     | 2.233       | 92.43          | 0.34                              |
|               | 2462                   | SISO    | 1       | 2.040     | 2.201       | 92.69          | 0.33                              |
| 802.11n(HT20) | 2412                   | SISO    | 1       | 2.035     | 2.187       | 93.05          | 0.31                              |
|               | 2437                   | SISO    | 1       | 1.921     | 2.075       | 92.58          | 0.33                              |
|               | 2462                   | SISO    | 1       | 1.919     | 2.090       | 91.82          | 0.37                              |
| 802.11n(HT40) | 2422                   | SISO    | 1       | 0.945     | 1.106       | 85.44          | 0.68                              |
|               | 2437                   | SISO    | 1       | 0.945     | 1.115       | 84.75          | 0.72                              |
|               | 2452                   | SISO    | 1       | 0.915     | 1.081       | 84.64          | 0.72                              |

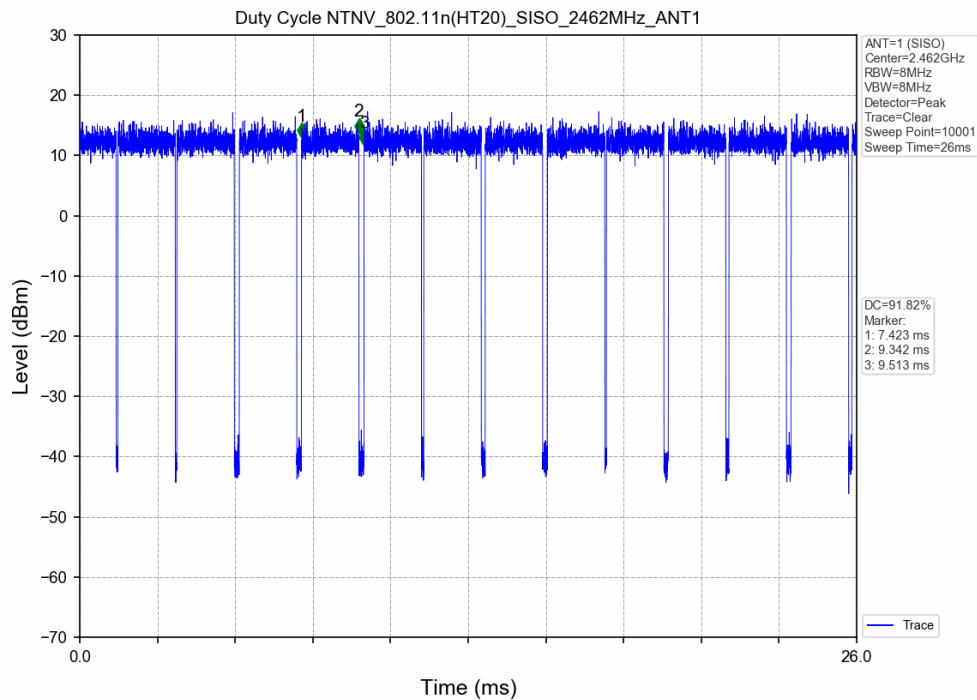
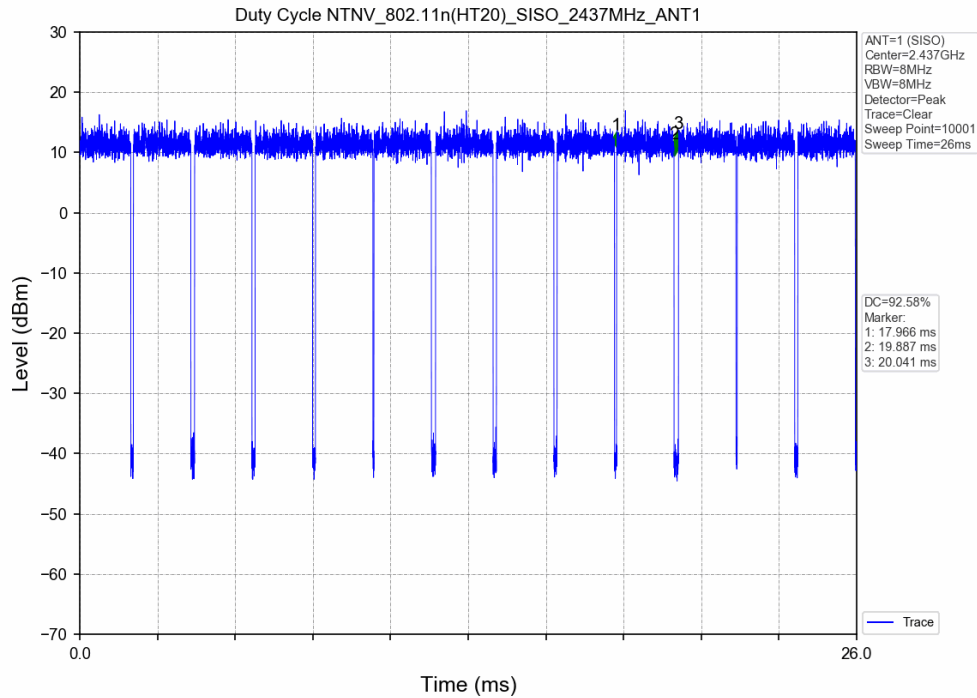
## 1.2 Test Graph

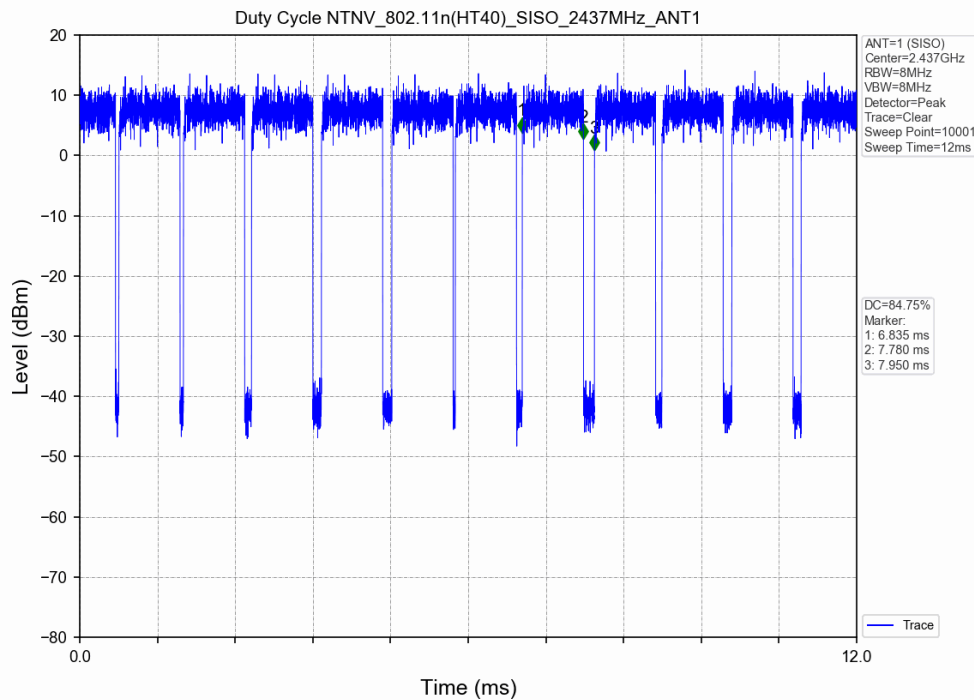
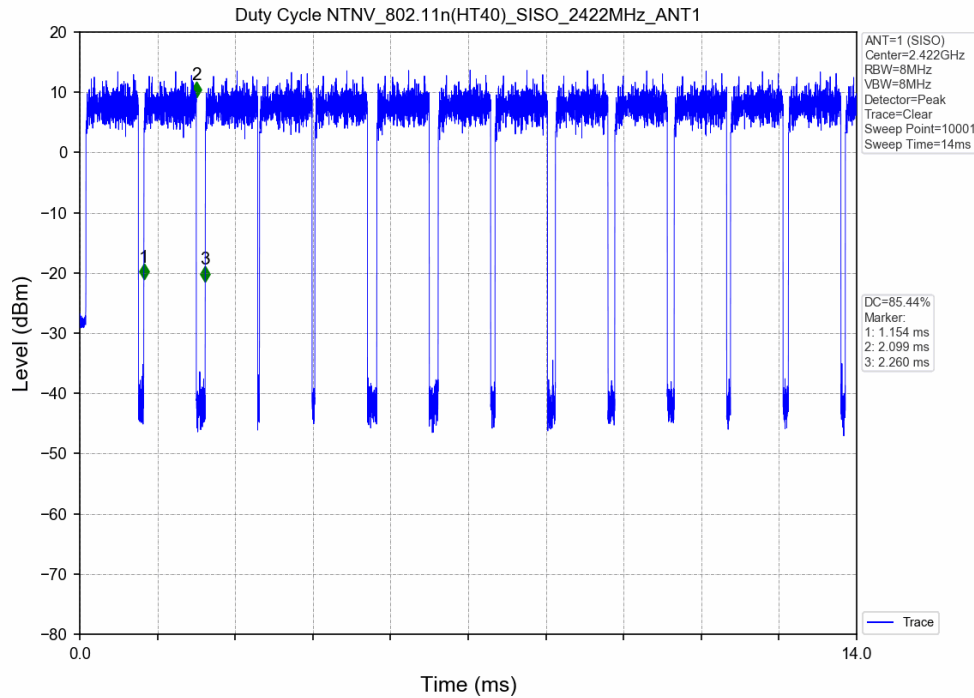


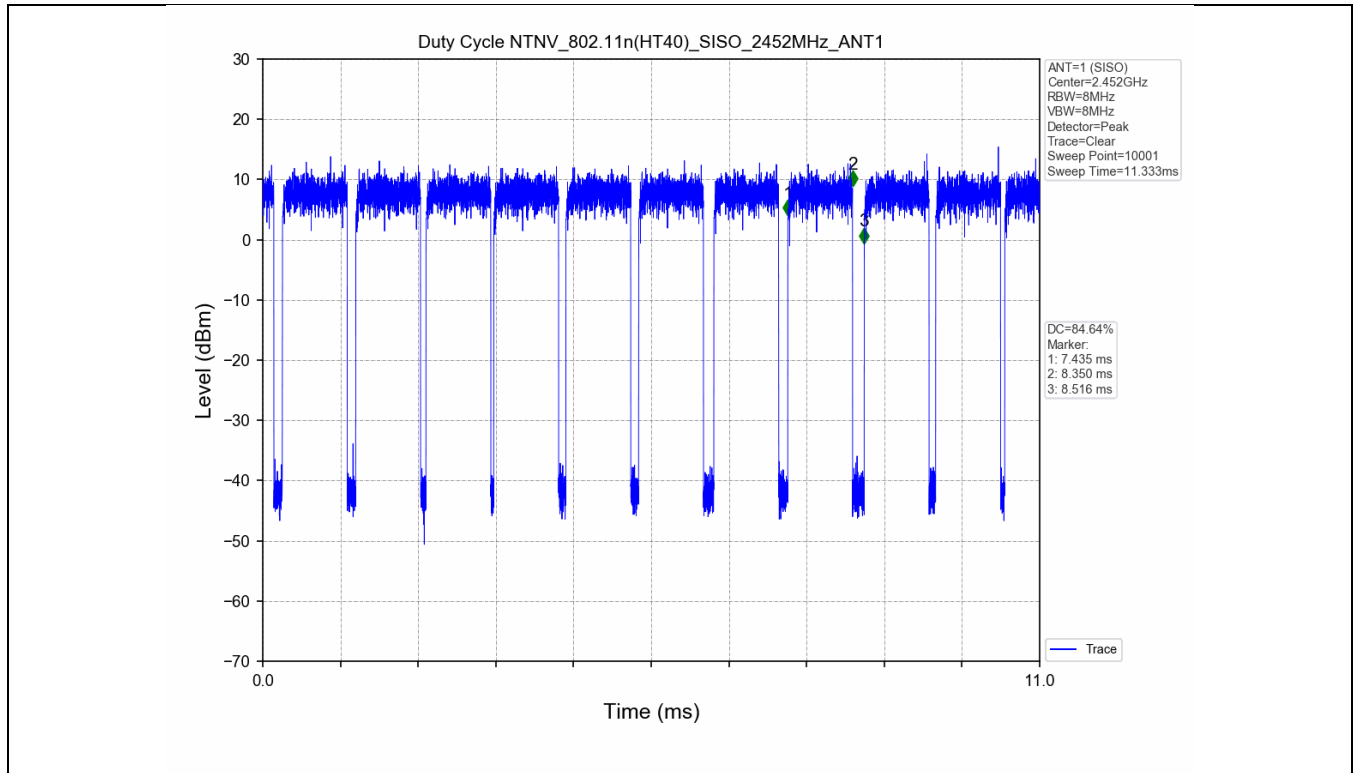












## 2. Bandwidth

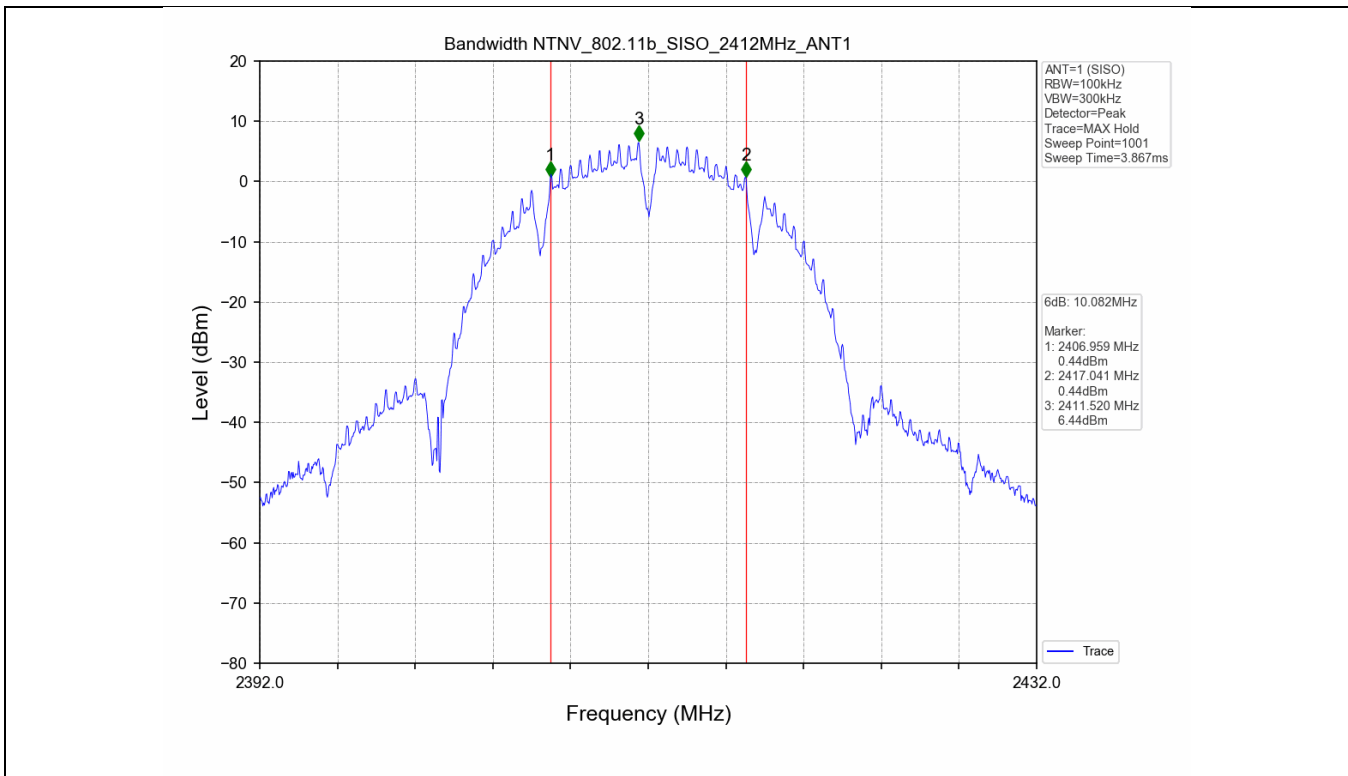
### 2.1 Test Result

| Test Mode     | Frequency (MHz) | TX Type | ANT No. | 6dB Bandwidth     |              | Verdict |
|---------------|-----------------|---------|---------|-------------------|--------------|---------|
|               |                 |         |         | Test Result (MHz) | Limits (MHz) |         |
| 802.11b       | 2412            | SISO    | 1       | 10.082            | ≥0.5         | PASS    |
|               | 2437            | SISO    | 1       | 10.075            | ≥0.5         | PASS    |
|               | 2462            | SISO    | 1       | 10.104            | ≥0.5         | PASS    |
| 802.11g       | 2412            | SISO    | 1       | 16.403            | ≥0.5         | PASS    |
|               | 2437            | SISO    | 1       | 16.376            | ≥0.5         | PASS    |
|               | 2462            | SISO    | 1       | 16.374            | ≥0.5         | PASS    |
| 802.11n(HT20) | 2412            | SISO    | 1       | 16.410            | ≥0.5         | PASS    |
|               | 2437            | SISO    | 1       | 17.579            | ≥0.5         | PASS    |
|               | 2462            | SISO    | 1       | 17.341            | ≥0.5         | PASS    |
| 802.11n(HT40) | 2422            | SISO    | 1       | 35.195            | ≥0.5         | PASS    |
|               | 2437            | SISO    | 1       | 35.242            | ≥0.5         | PASS    |
|               | 2452            | SISO    | 1       | 35.232            | ≥0.5         | PASS    |

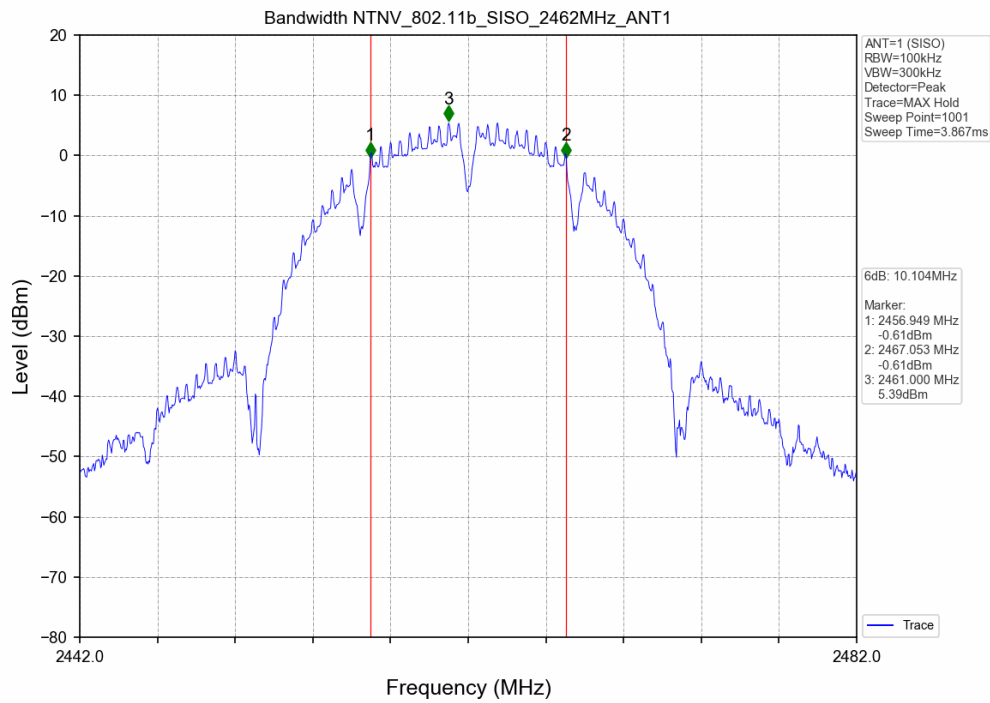
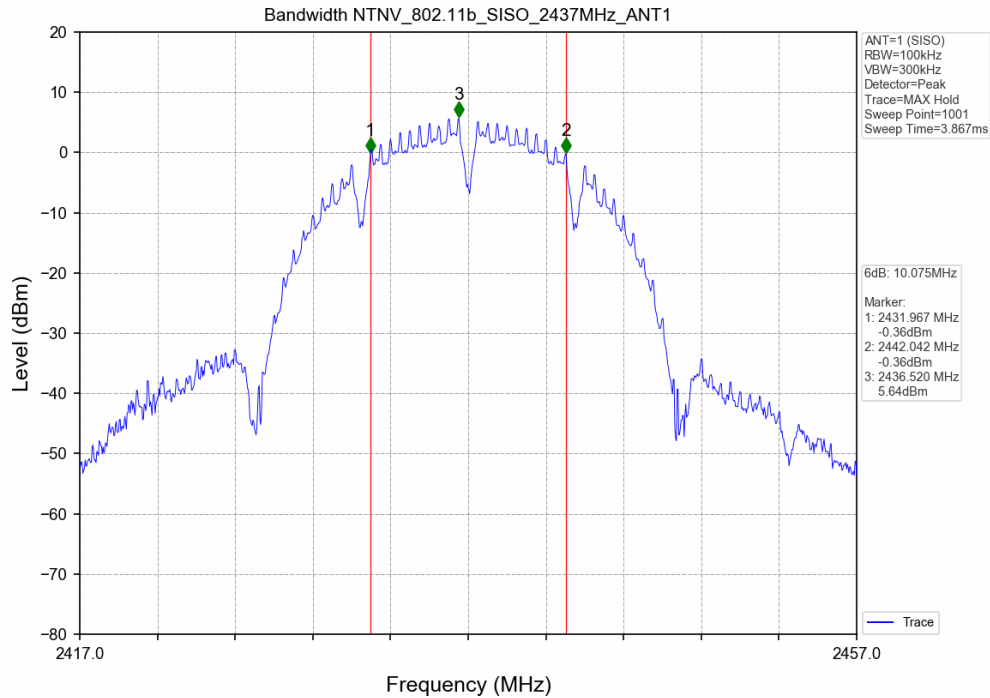
| Test Mode | Frequency (MHz) | TX Type | ANT No. | 99% Occupied Bandwidth |                     |
|-----------|-----------------|---------|---------|------------------------|---------------------|
|           |                 |         |         | Test Result (MHz)      |                     |
| 802.11b   | 2412            | SISO    | 1       | 15.002                 | Only for Report Use |
|           | 2437            | SISO    | 1       | 15.055                 | Only for Report Use |
|           | 2462            | SISO    | 1       | 15.028                 | Only for Report Use |
| 802.11g   | 2412            | SISO    | 1       | 16.872                 | Only for Report Use |
|           | 2437            | SISO    | 1       | 16.907                 | Only for Report Use |
|           | 2462            | SISO    | 1       | 16.963                 | Only for Report Use |

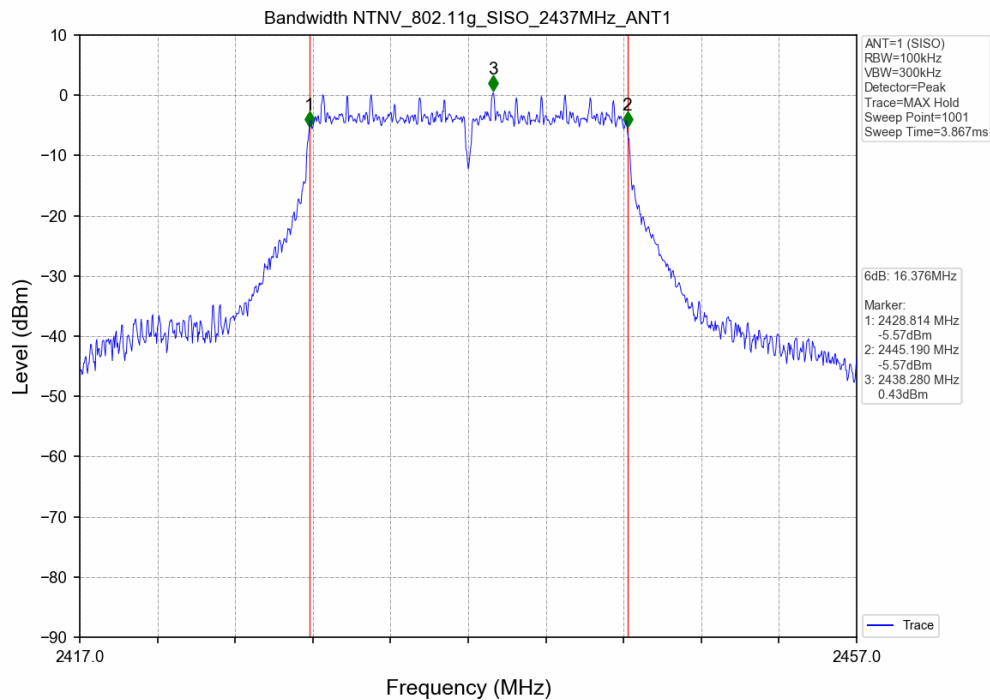
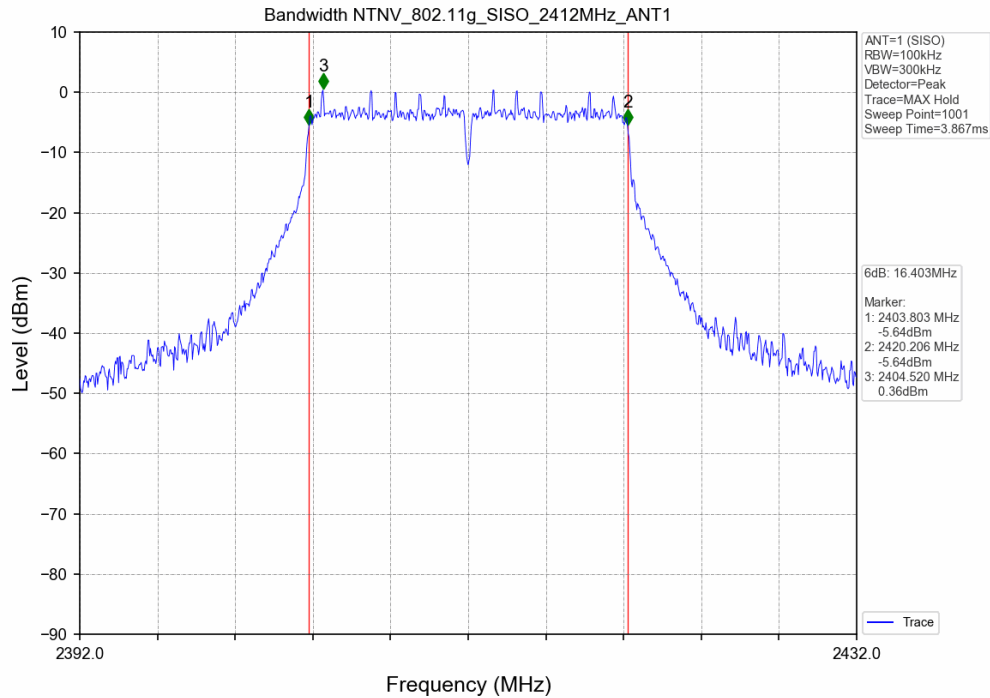
|               |      |      |   |        |                     |
|---------------|------|------|---|--------|---------------------|
| 802.11n(HT20) | 2412 | SISO | 1 | 16.838 | Only for Report Use |
|               | 2437 | SISO | 1 | 17.837 | Only for Report Use |
|               | 2462 | SISO | 1 | 17.936 | Only for Report Use |
| 802.11n(HT40) | 2422 | SISO | 1 | 36.212 | Only for Report Use |
|               | 2437 | SISO | 1 | 36.468 | Only for Report Use |
|               | 2452 | SISO | 1 | 36.211 | Only for Report Use |

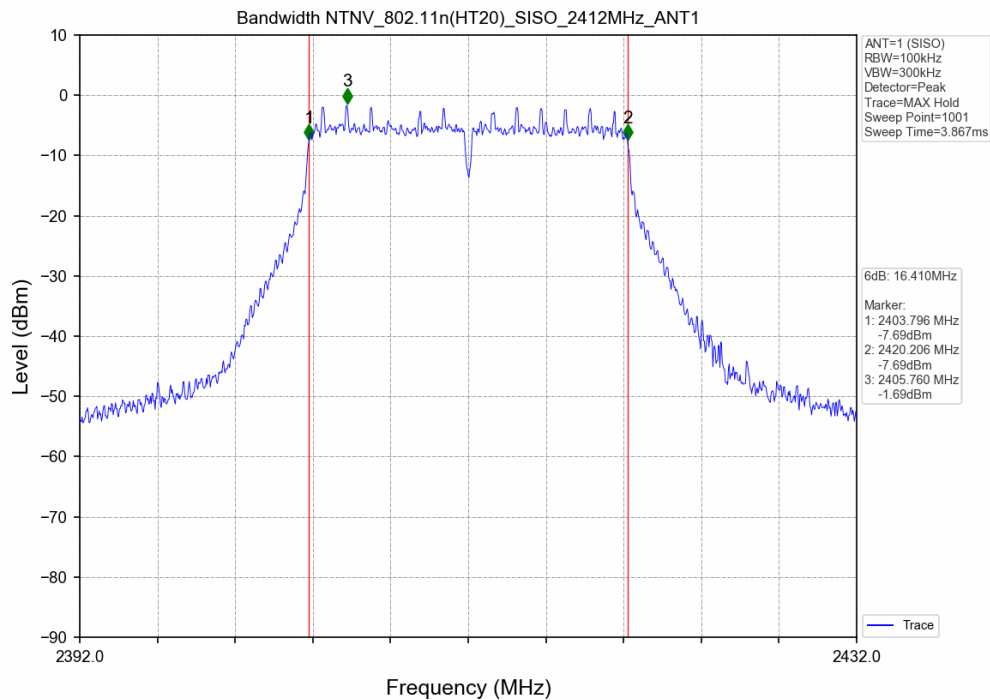
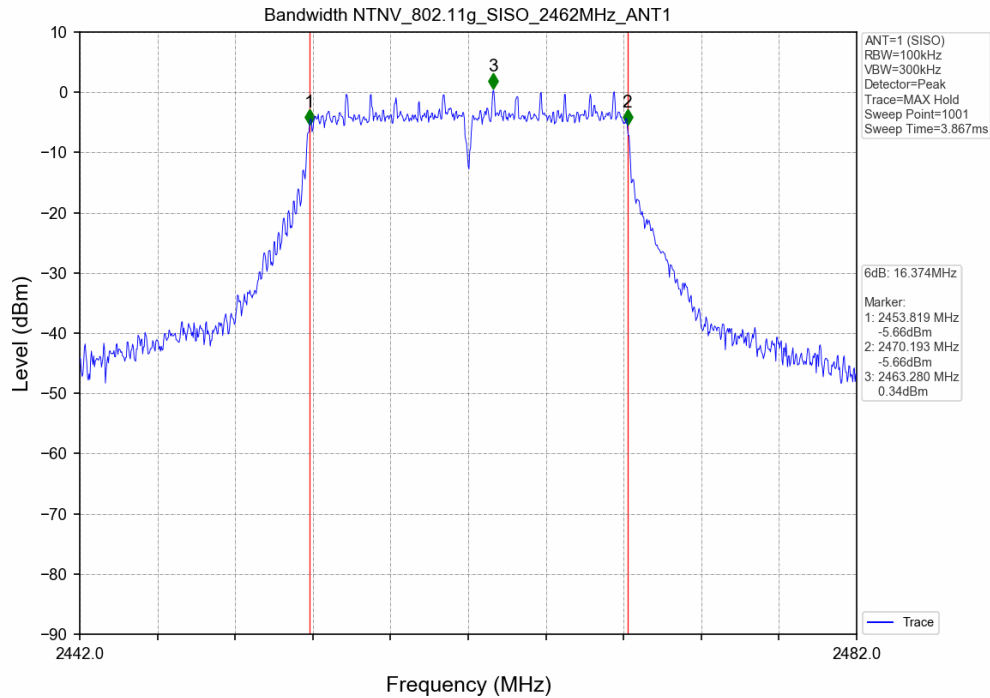
## 2.2 Test Graph - 6dB Bandwidth

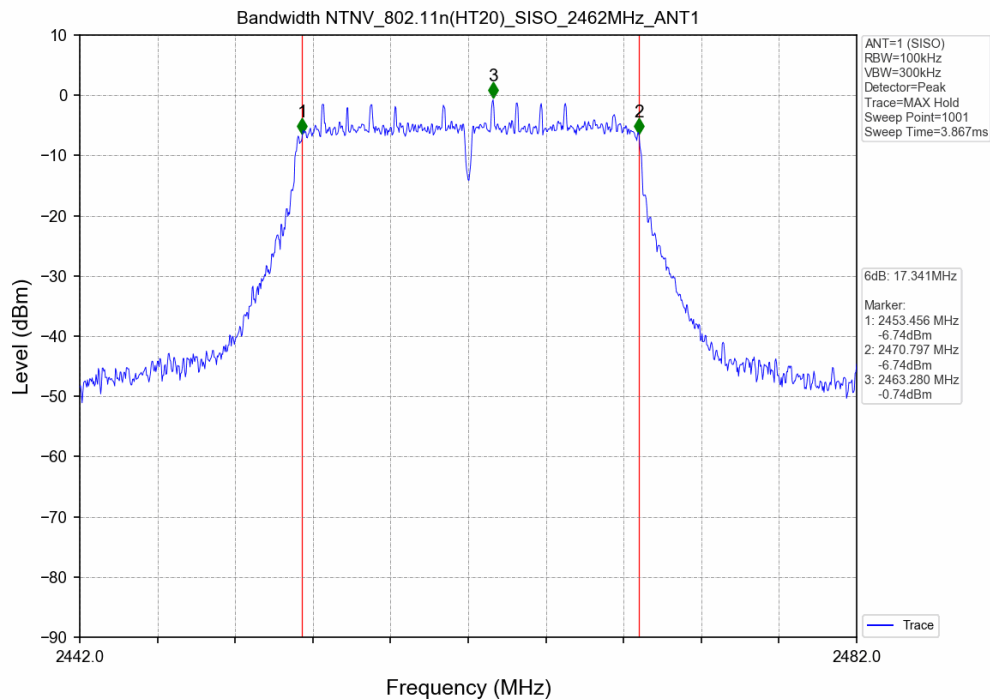
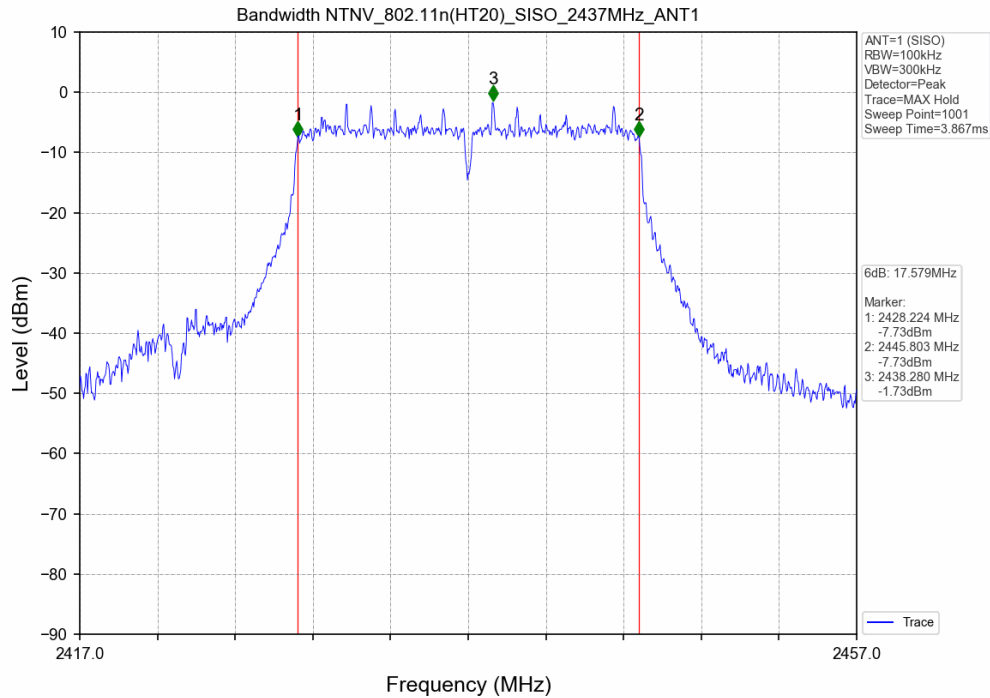


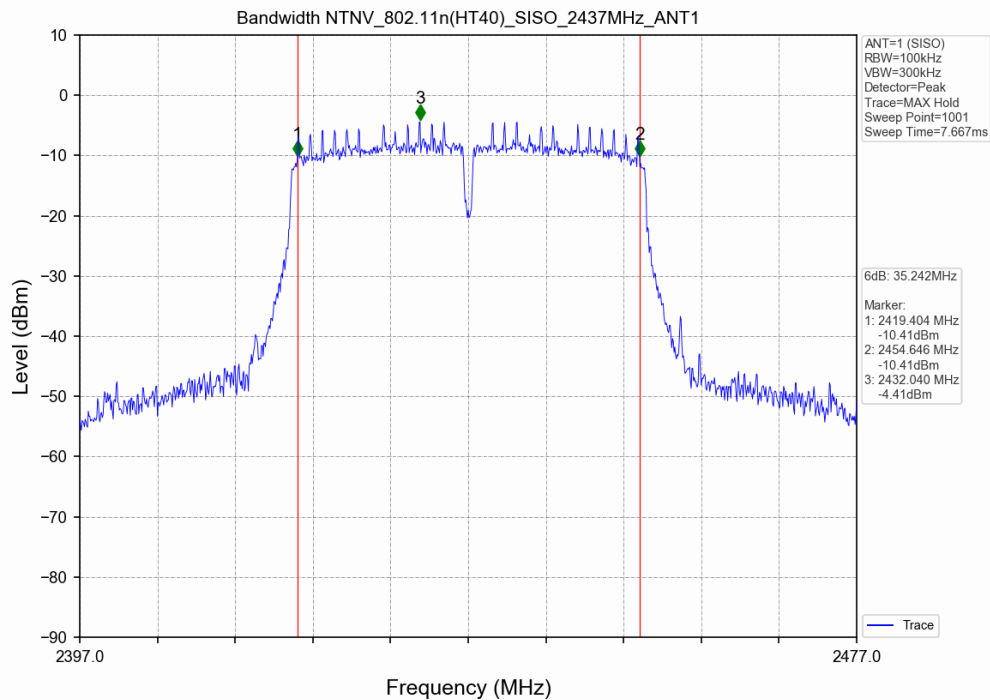
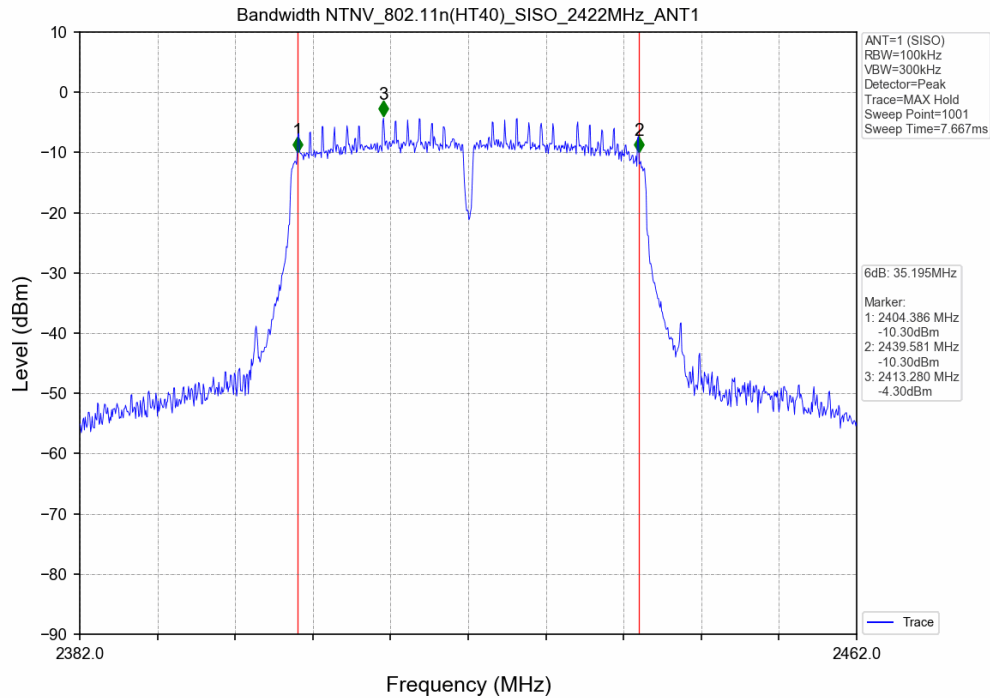


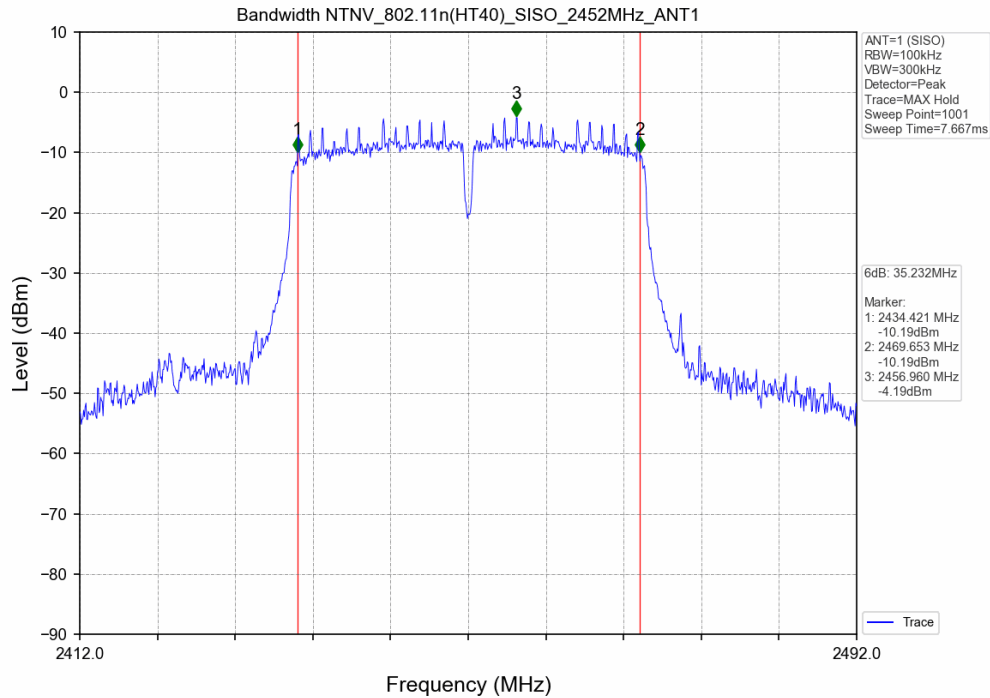




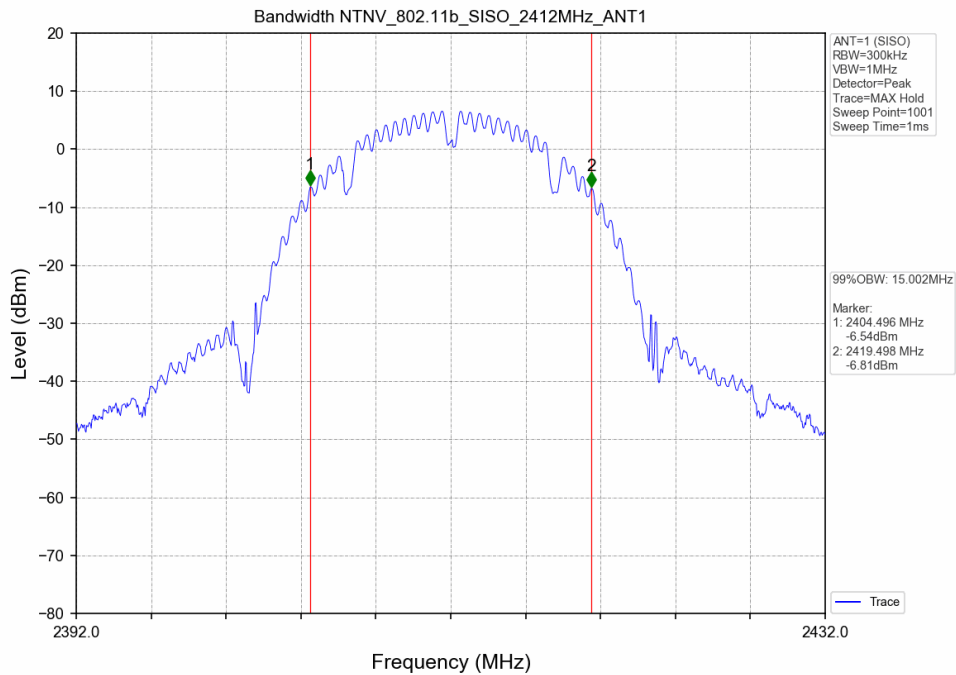


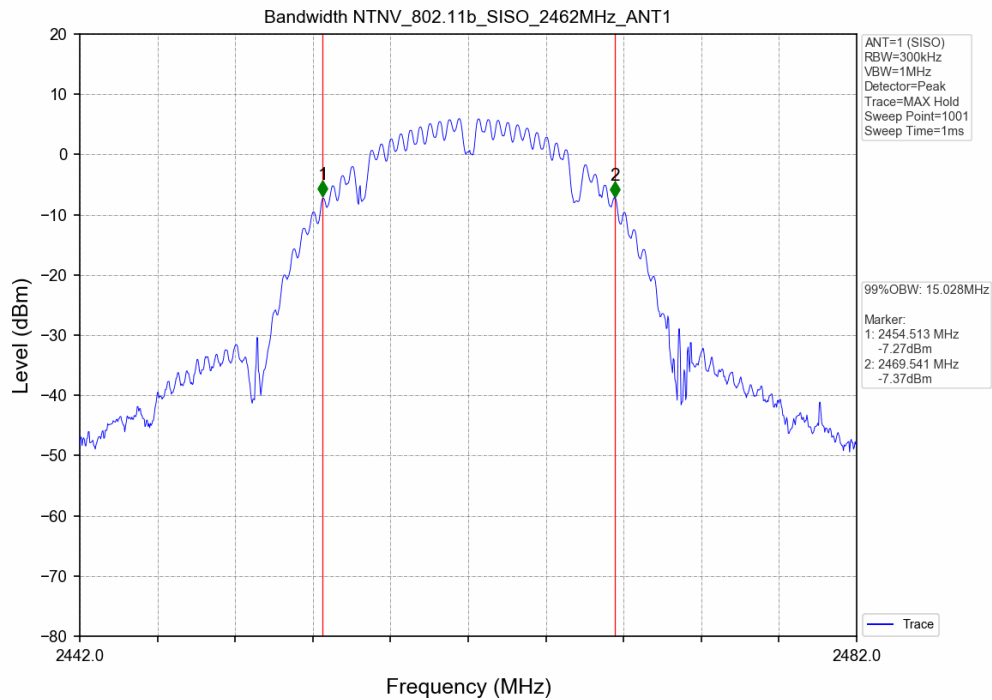
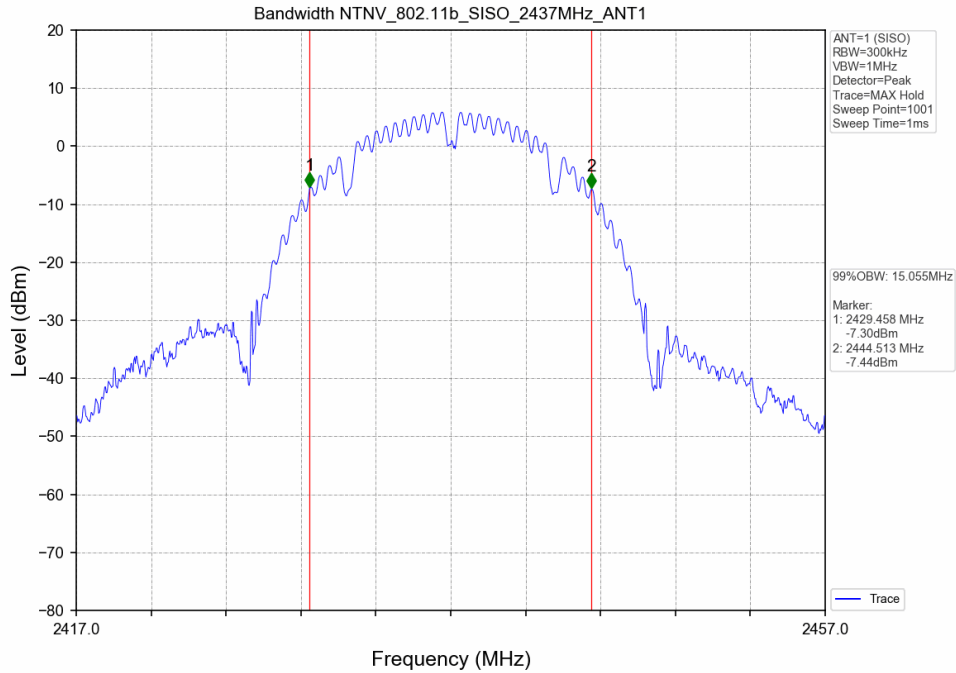


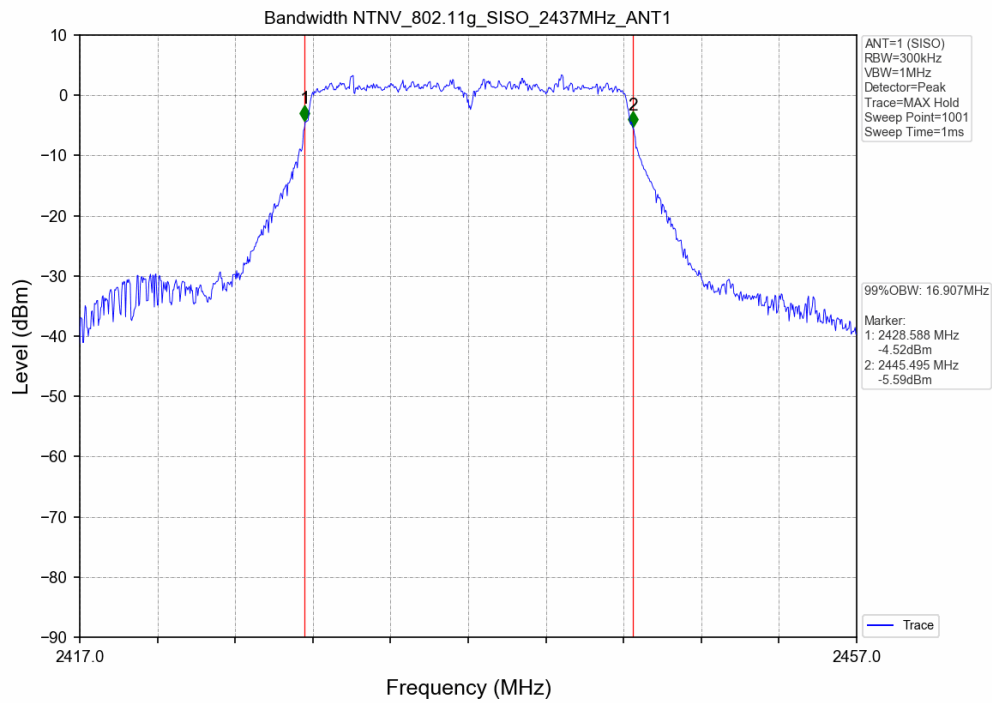
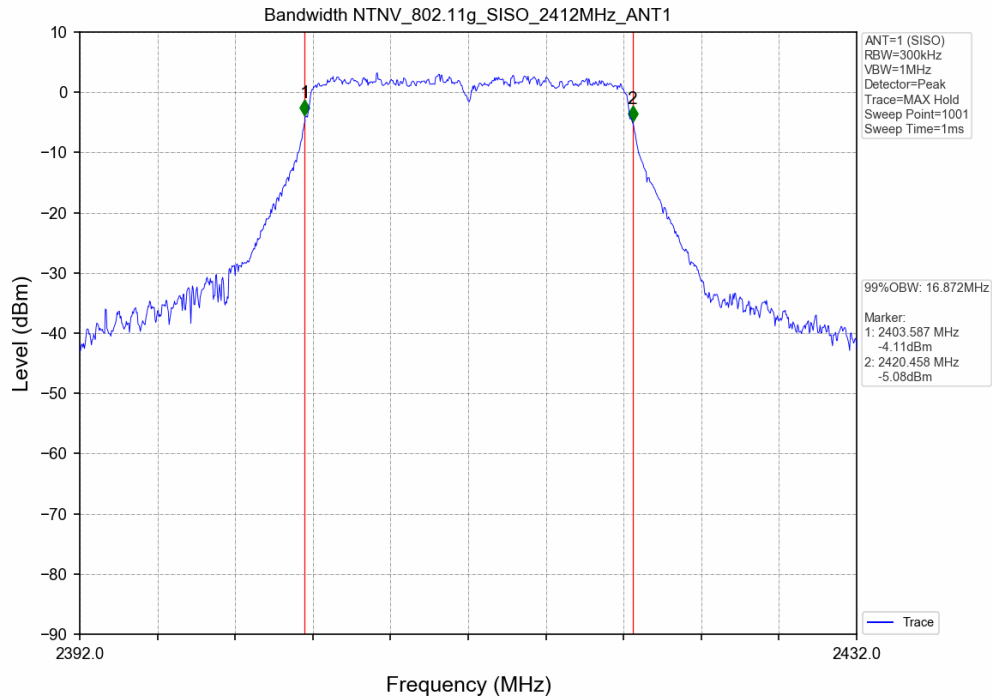




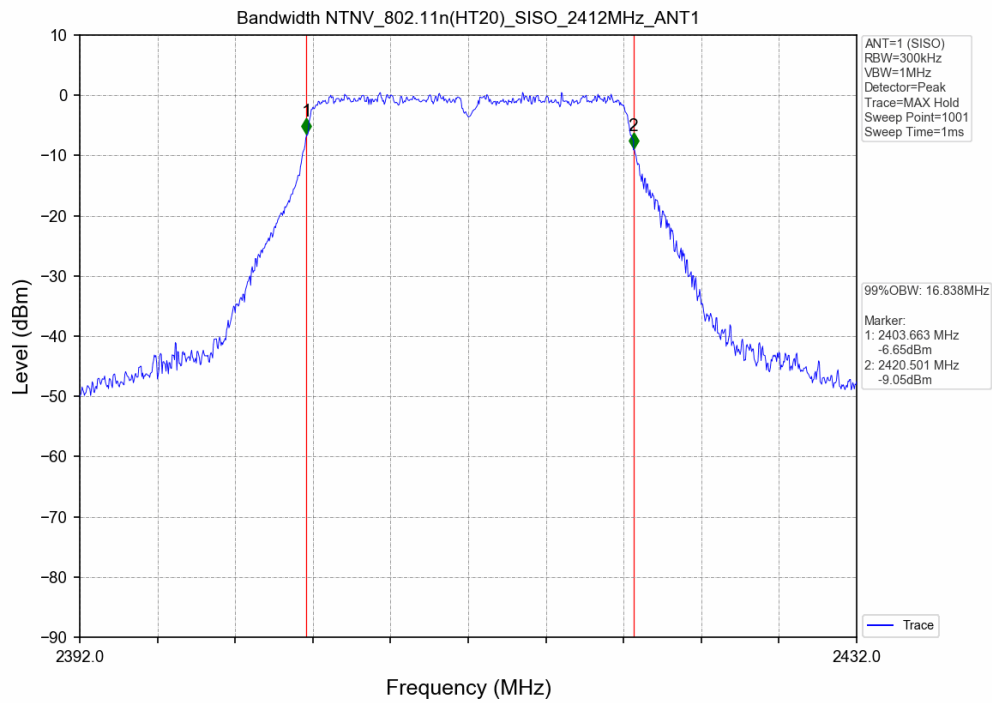
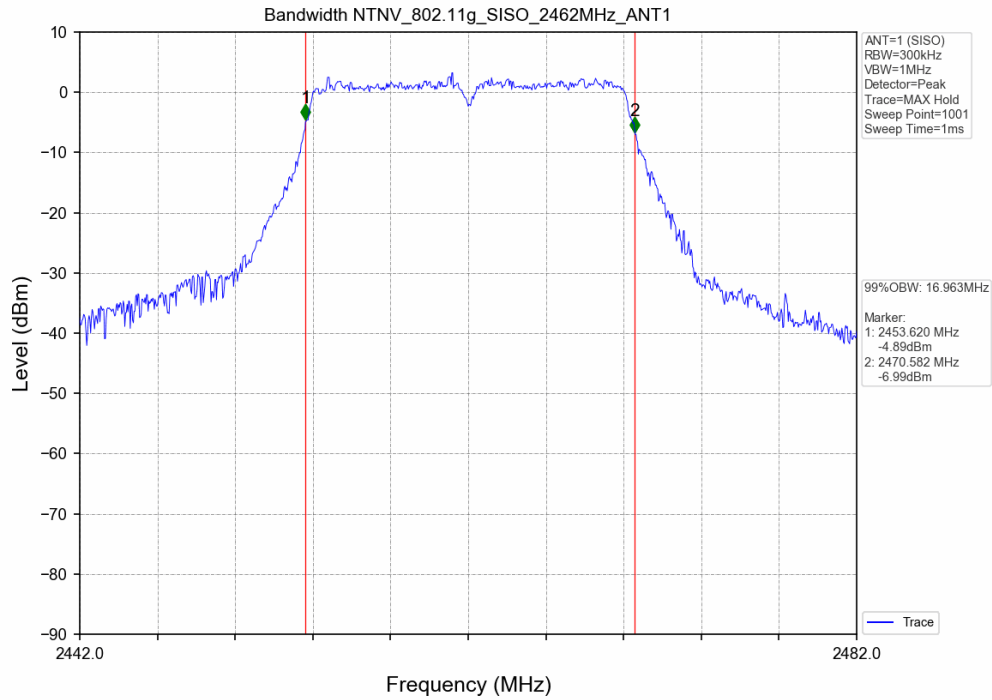
### 2.3 Test Graph - 99% Occupied Bandwidth

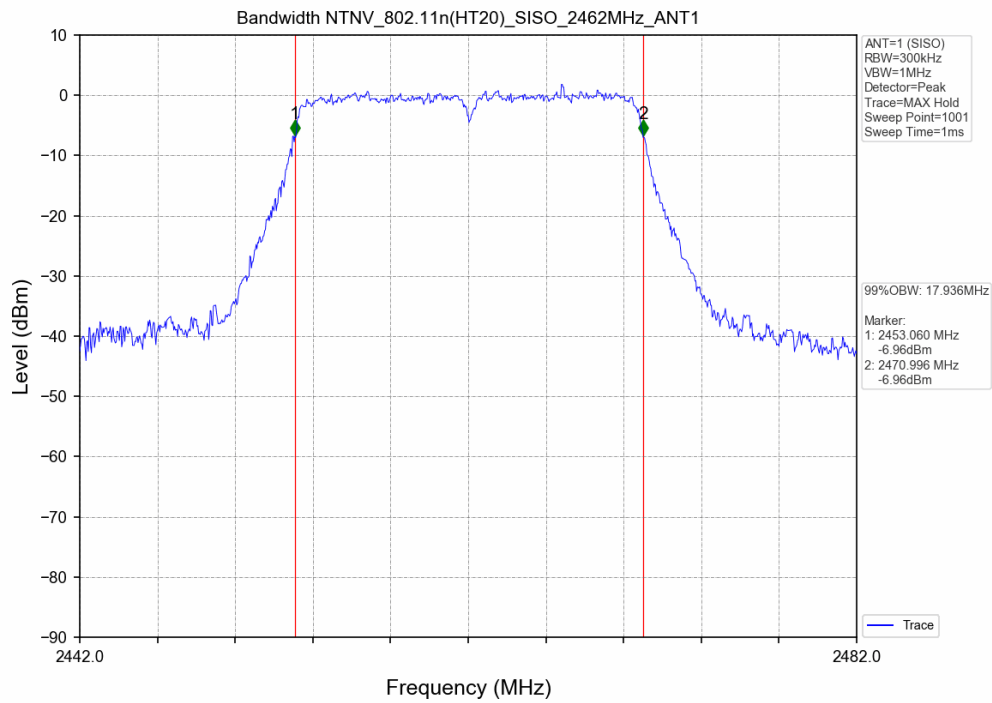
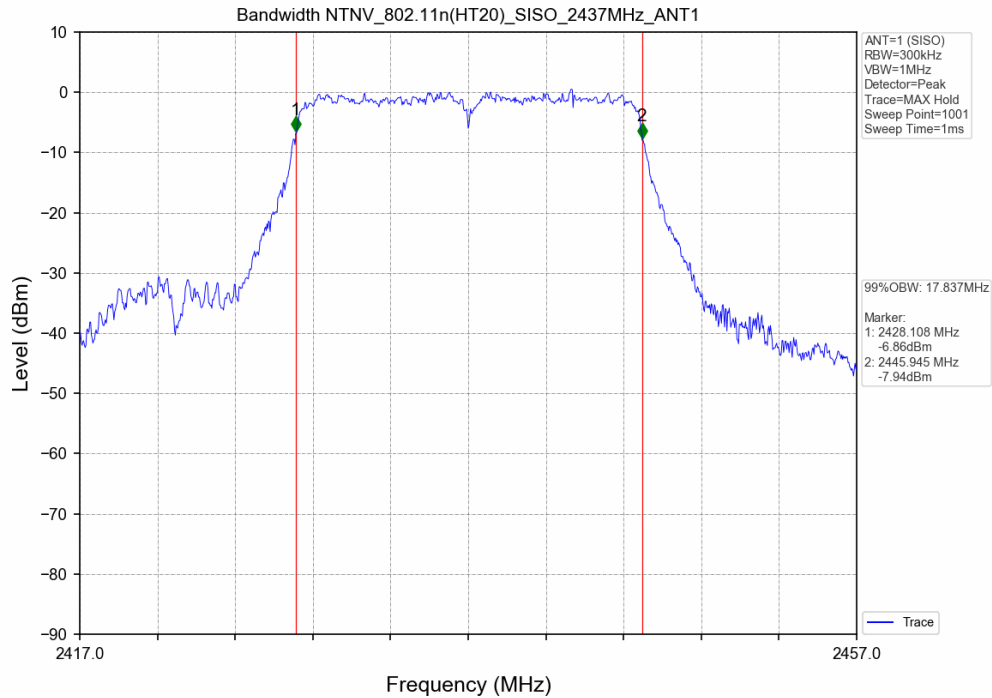


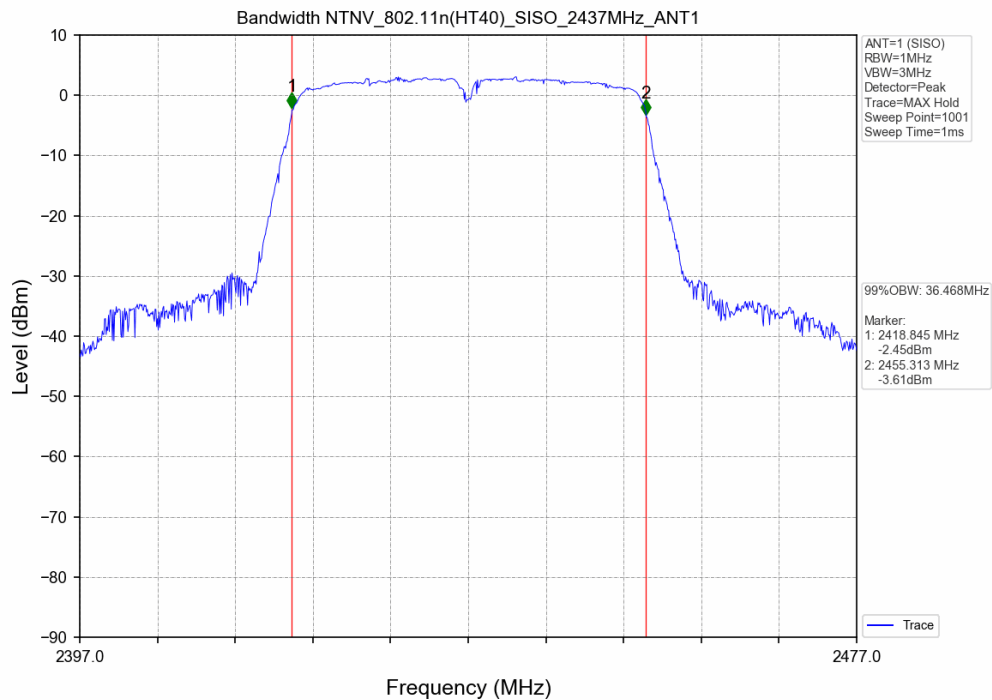
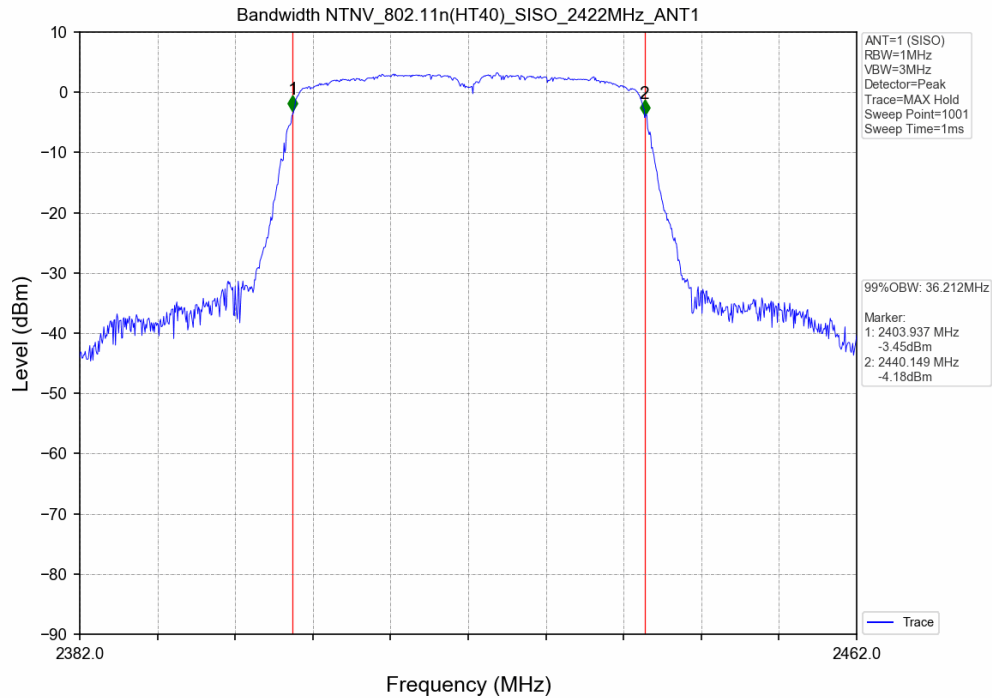


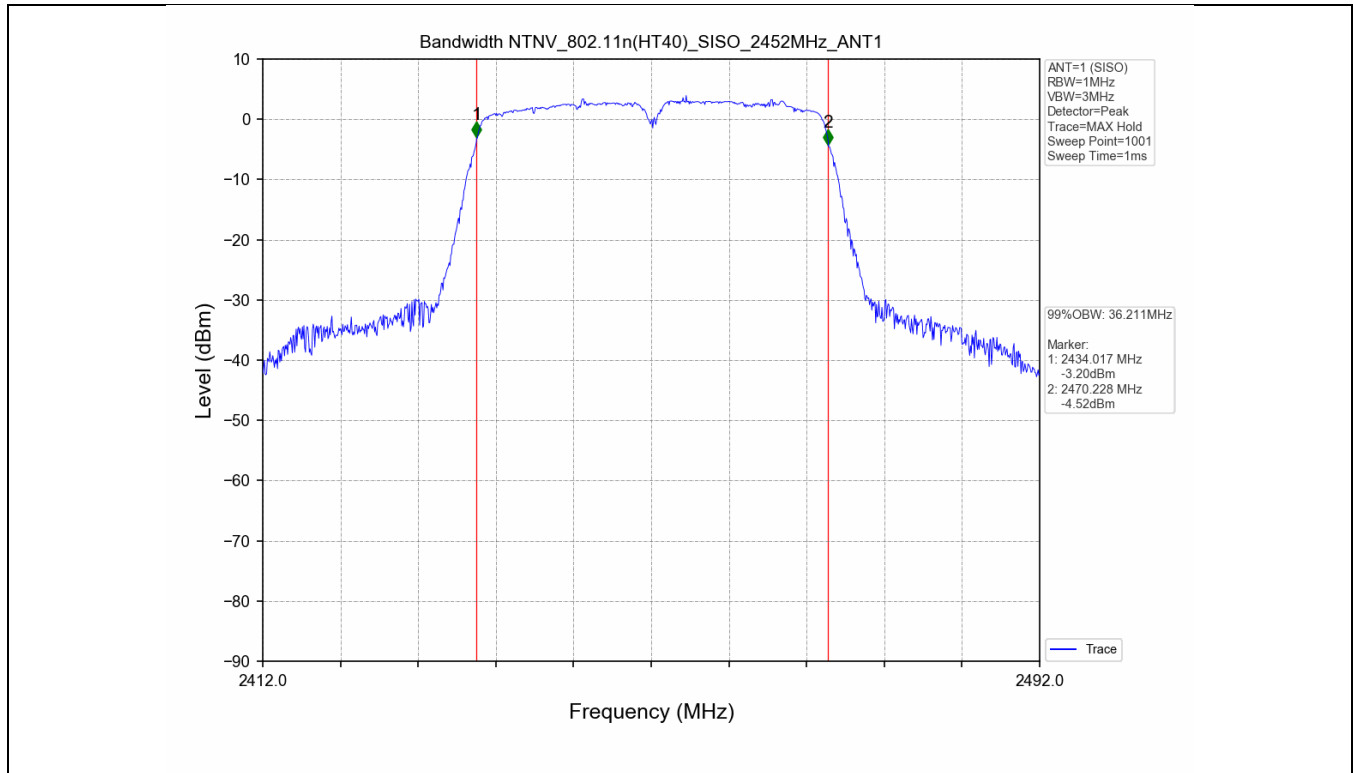










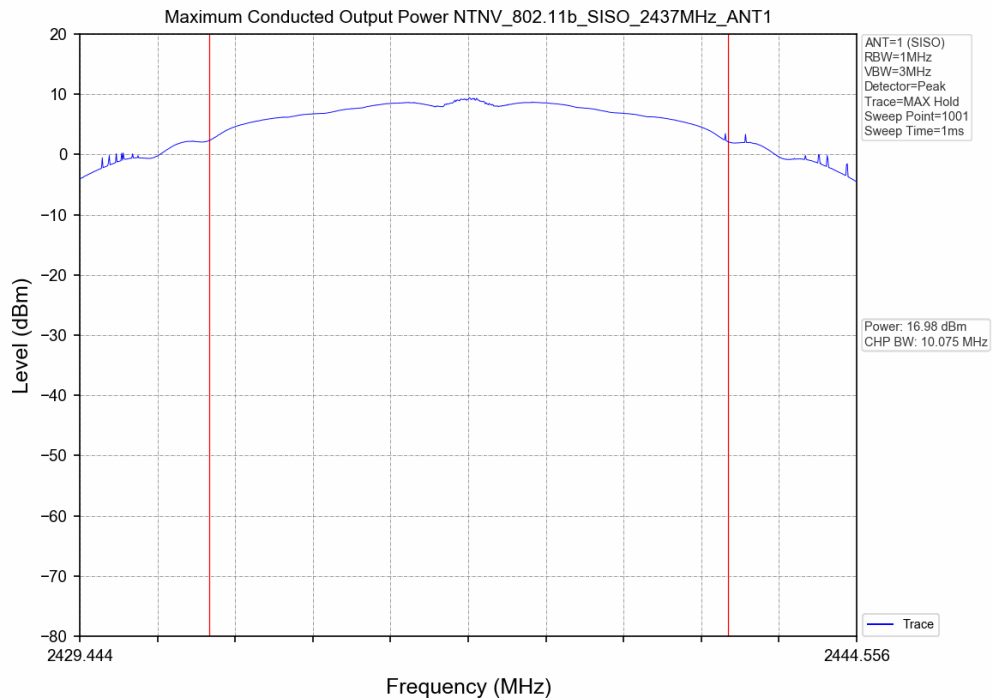
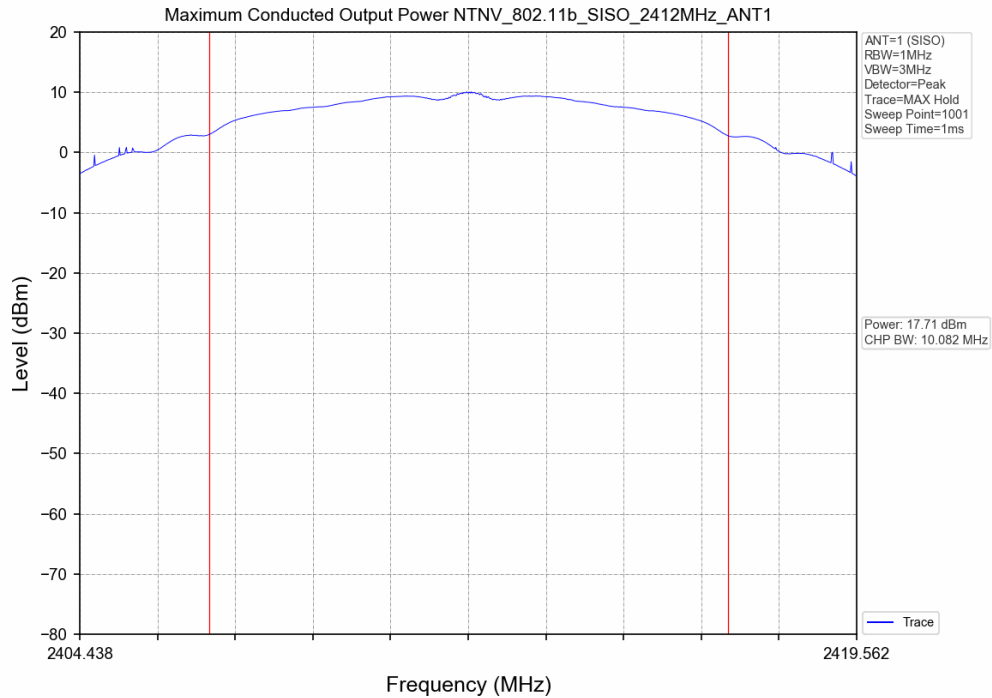


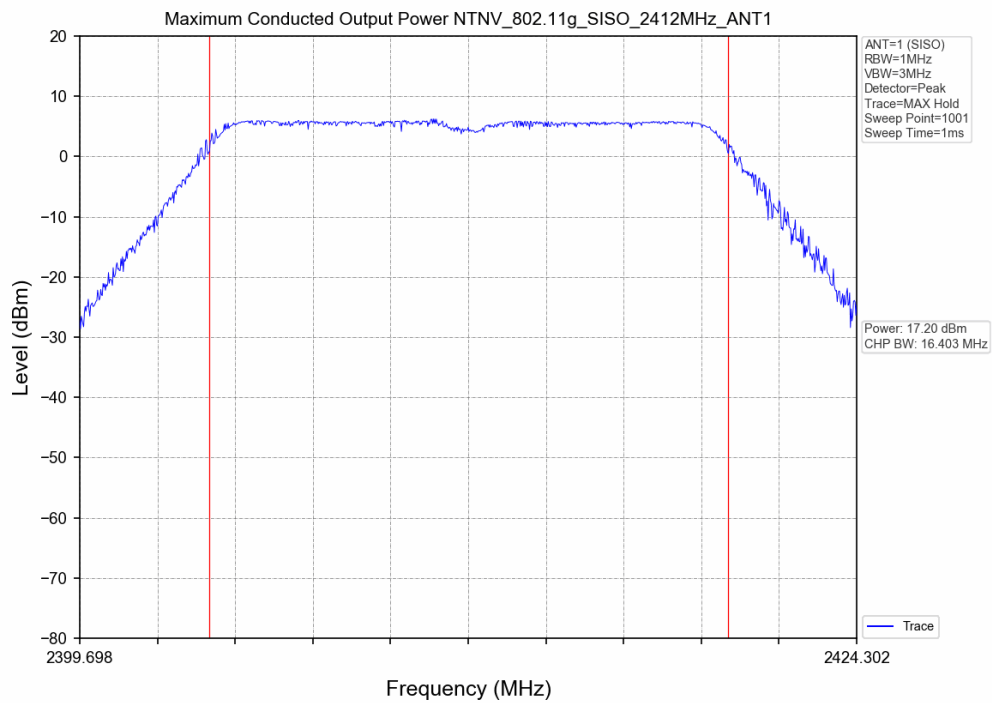
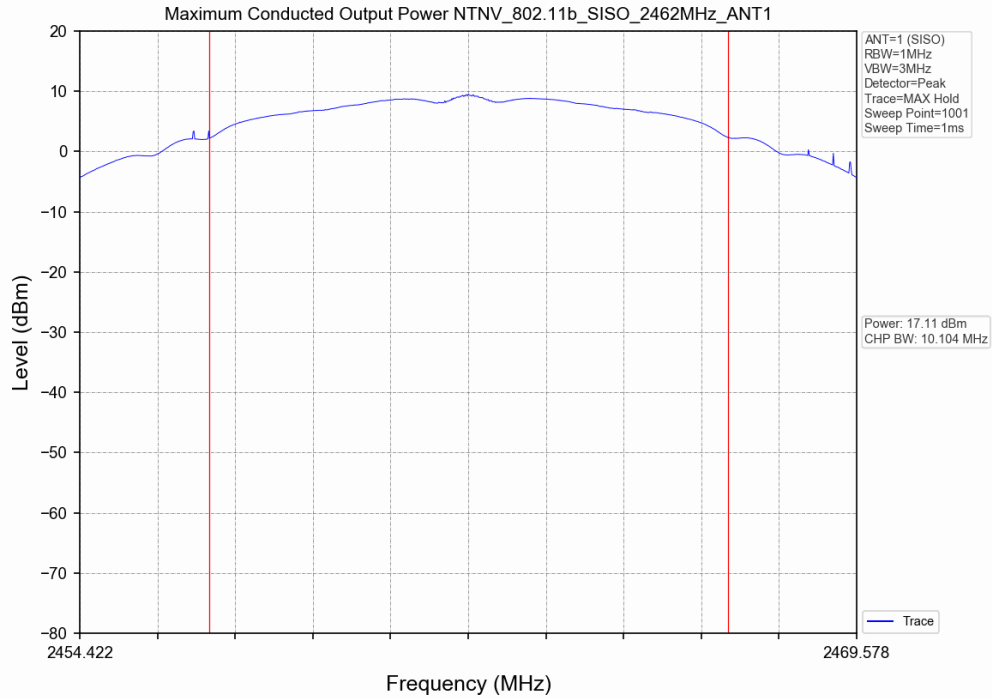
### 3. Maximum Conducted Output Power

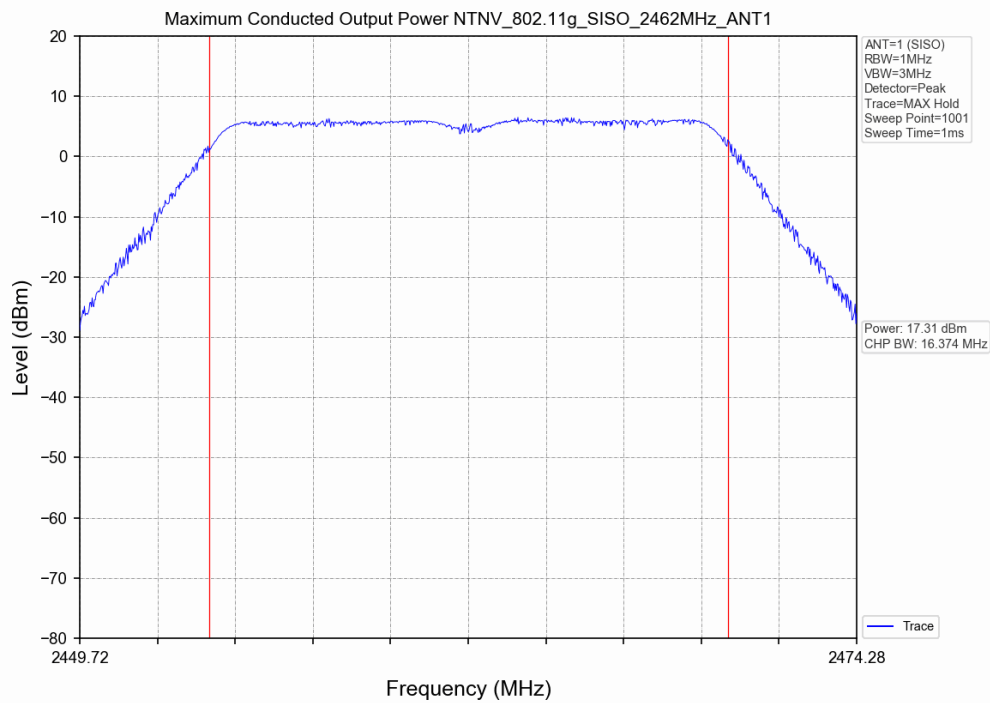
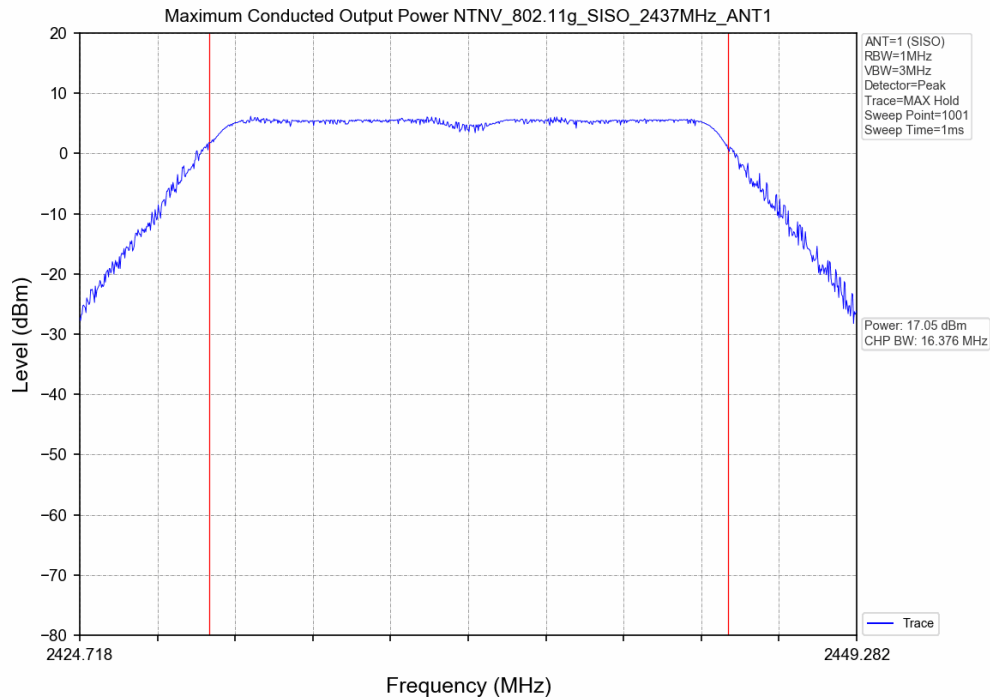
#### 3.1 Test Result

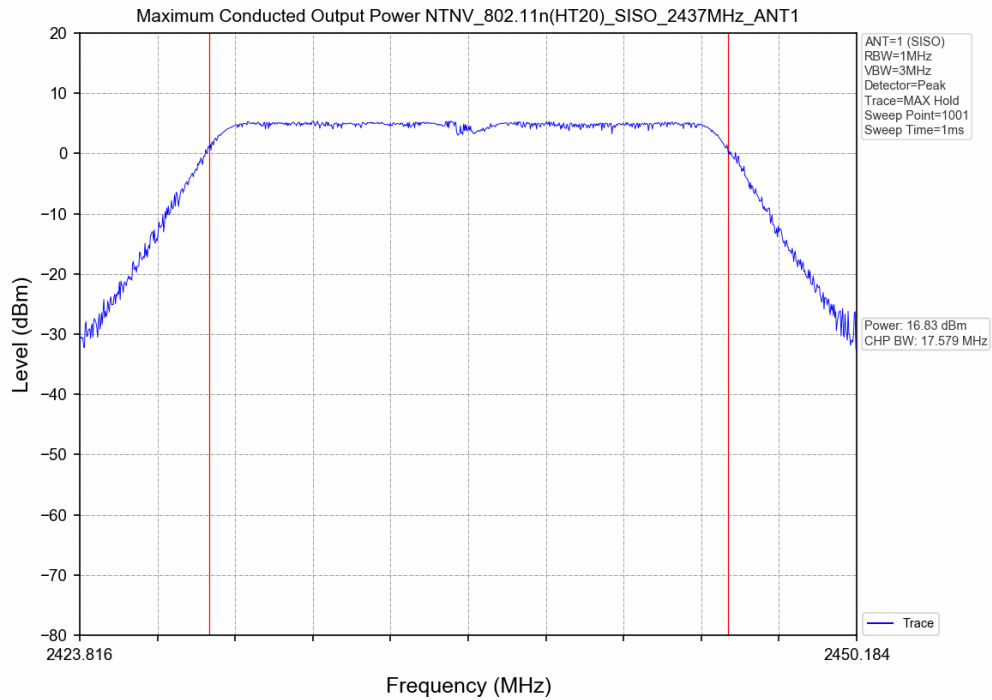
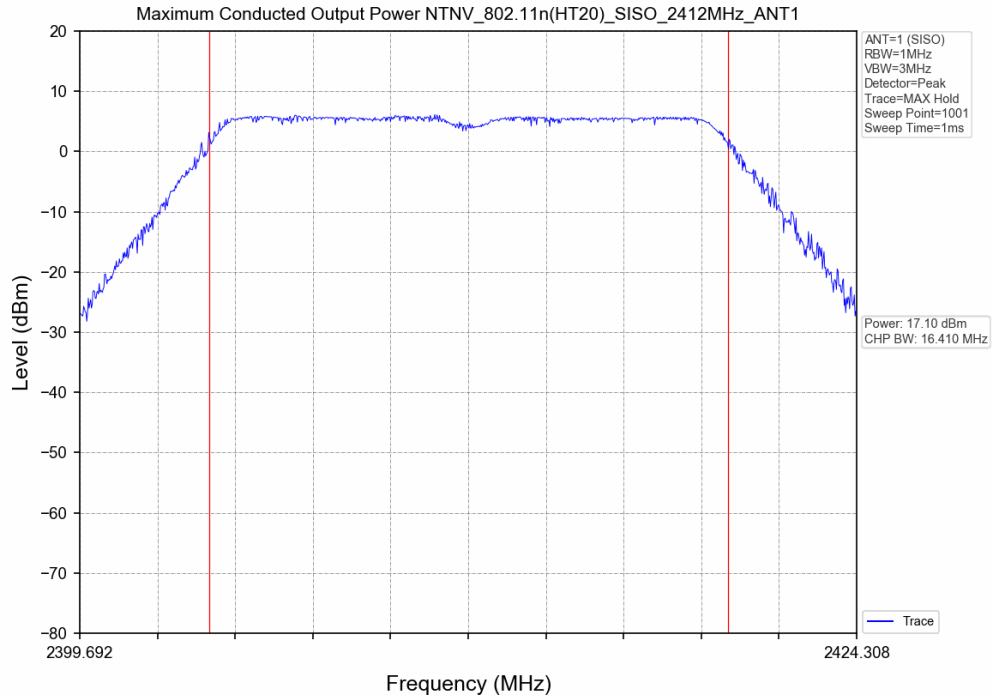
| Test Mode     | Frequency (MHz) | Tx Type | Measured Peak Output Power (dBm) | Limits (dBm) | Verdict |
|---------------|-----------------|---------|----------------------------------|--------------|---------|
|               |                 |         | Ant 1                            |              |         |
| 802.11b       | 2412            | SISO    | 17.71                            | 30           | PASS    |
|               | 2437            | SISO    | 16.98                            | 30           | PASS    |
|               | 2462            | SISO    | 17.11                            | 30           | PASS    |
| 802.11g       | 2412            | SISO    | 17.20                            | 30           | PASS    |
|               | 2437            | SISO    | 17.05                            | 30           | PASS    |
|               | 2462            | SISO    | 17.31                            | 30           | PASS    |
| 802.11n(HT20) | 2412            | SISO    | 17.10                            | 30           | PASS    |
|               | 2437            | SISO    | 16.83                            | 30           | PASS    |
|               | 2462            | SISO    | 17.67                            | 30           | PASS    |
| 802.11n(HT40) | 2422            | SISO    | 17.13                            | 30           | PASS    |
|               | 2437            | SISO    | 17.06                            | 30           | PASS    |
|               | 2452            | SISO    | 17.18                            | 30           | PASS    |

#### 3.2 Test Graph

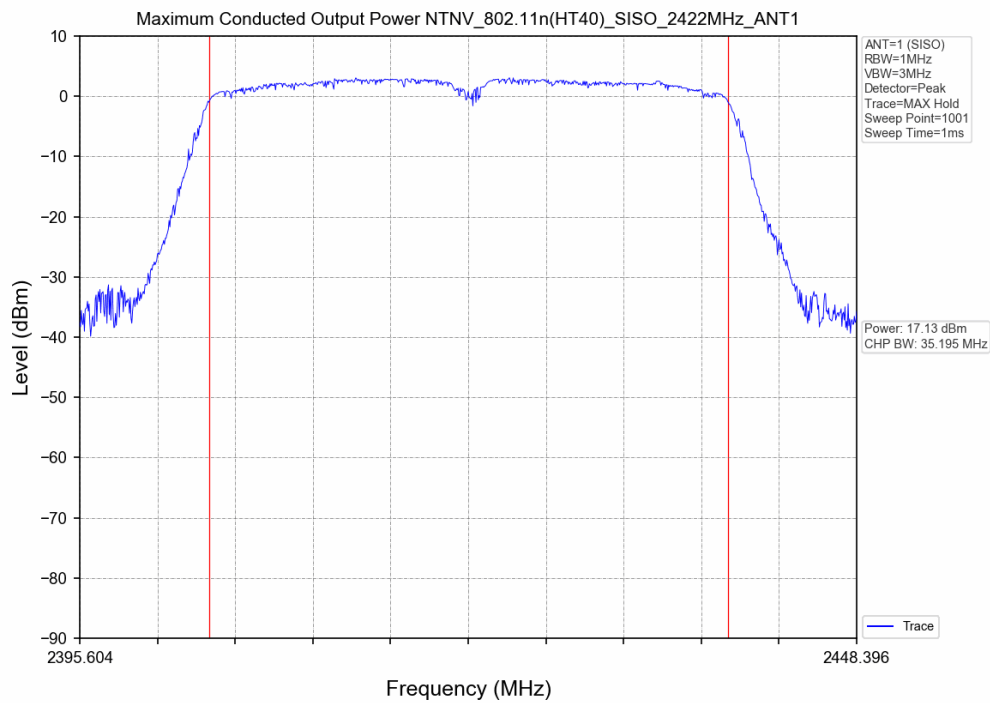
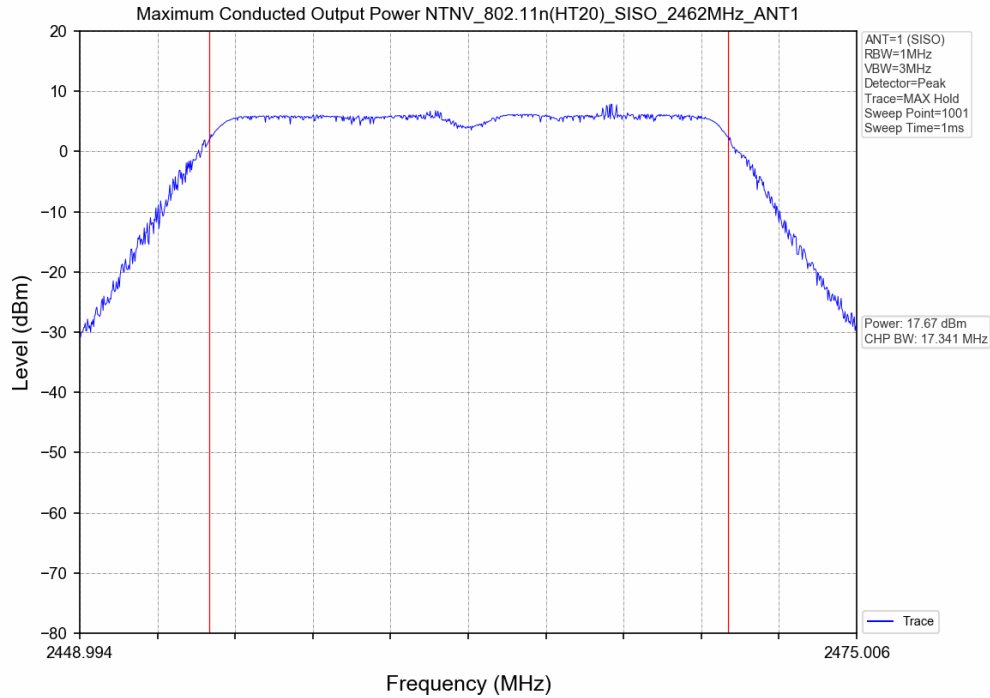


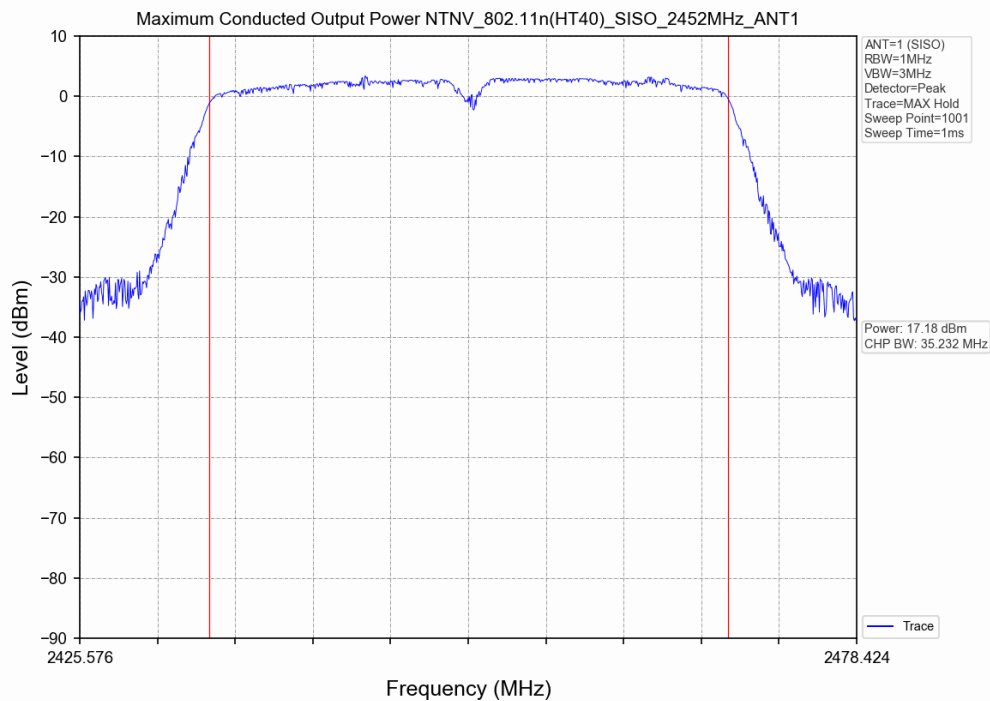
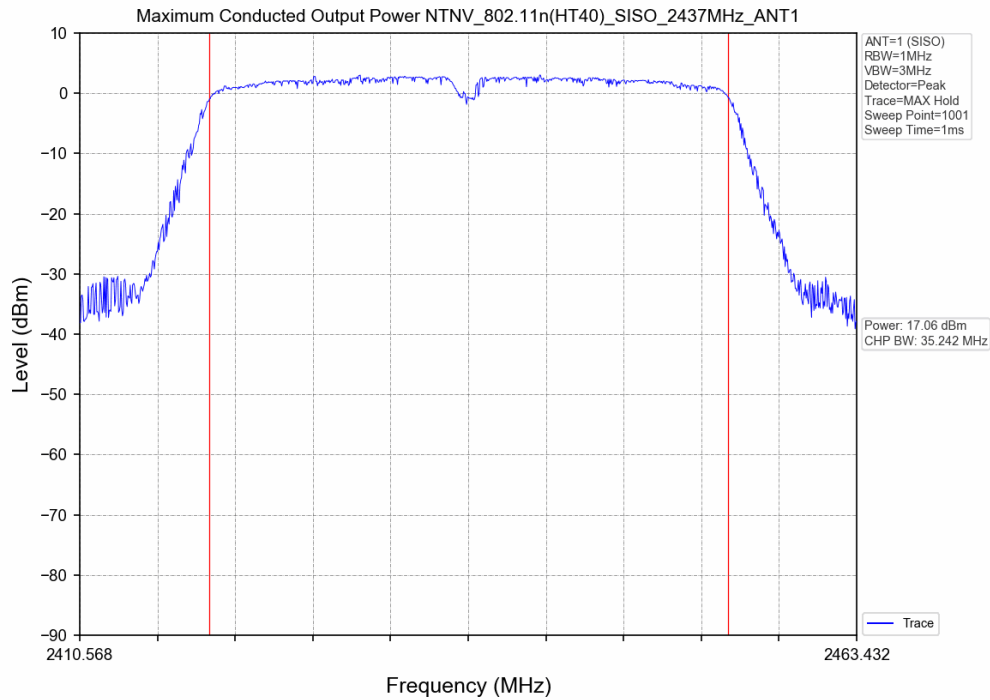










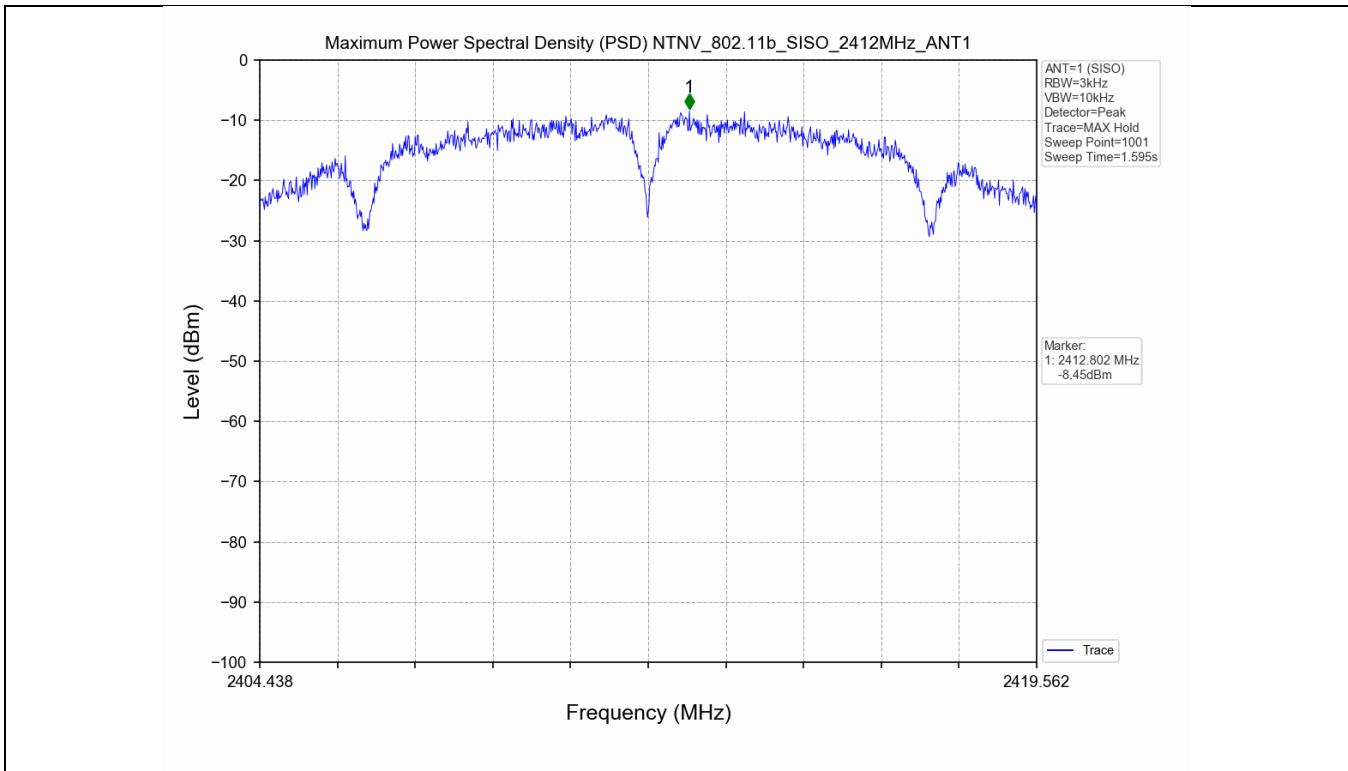


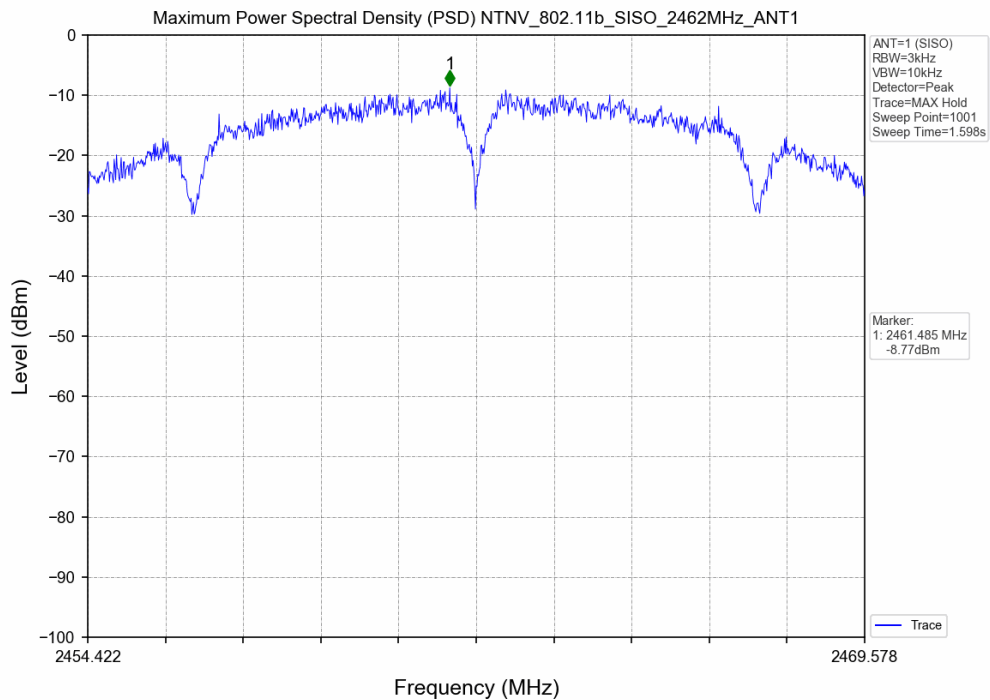
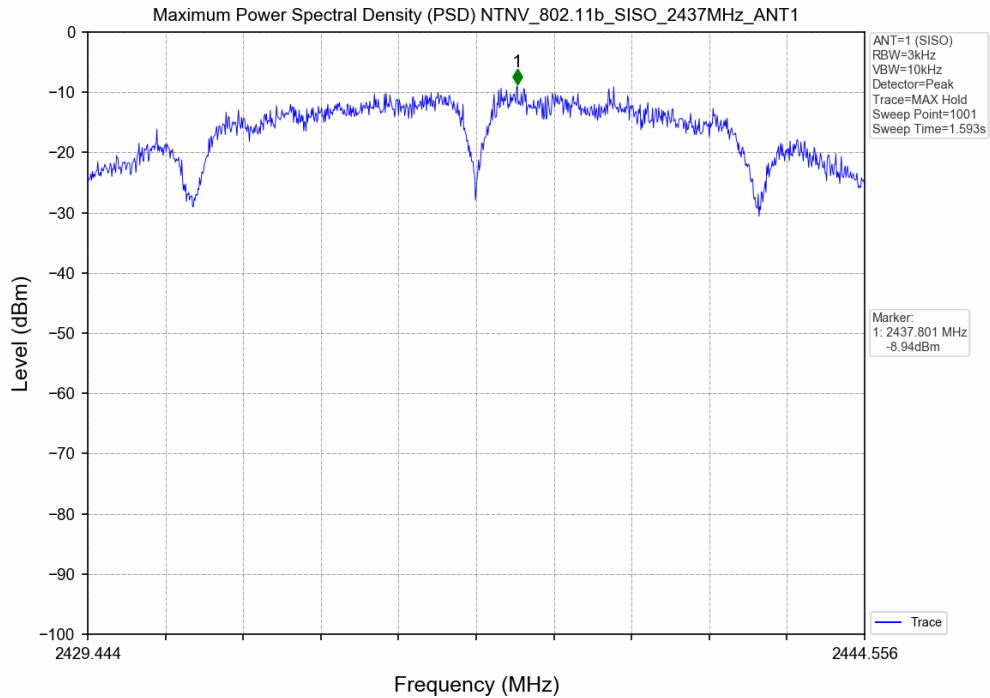
## 4. Maximum Power Spectral Density (PSD)

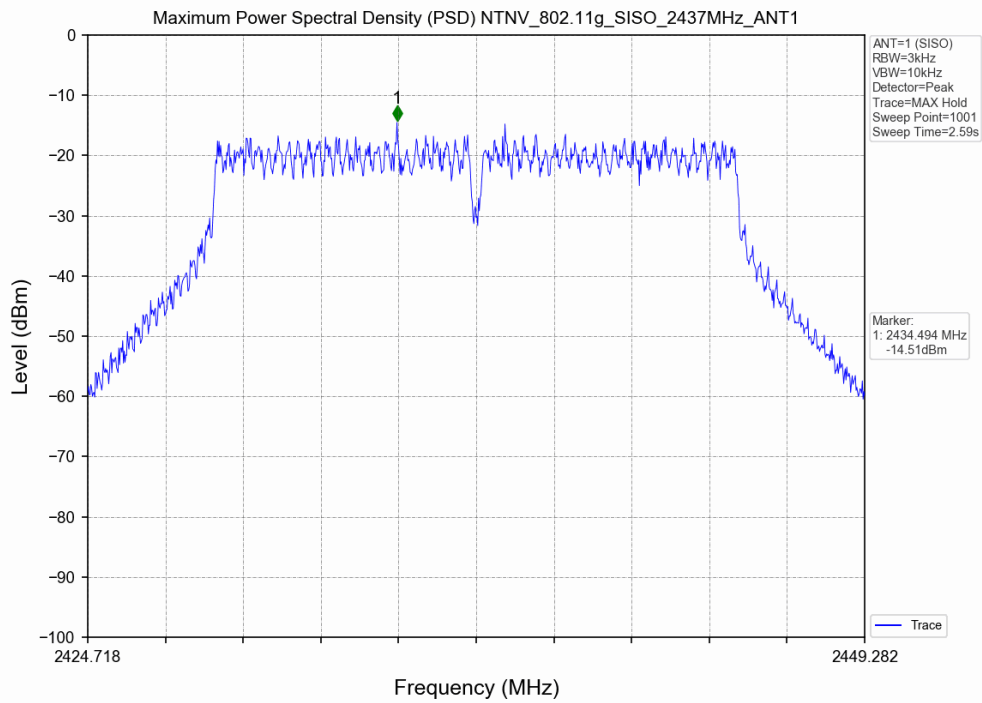
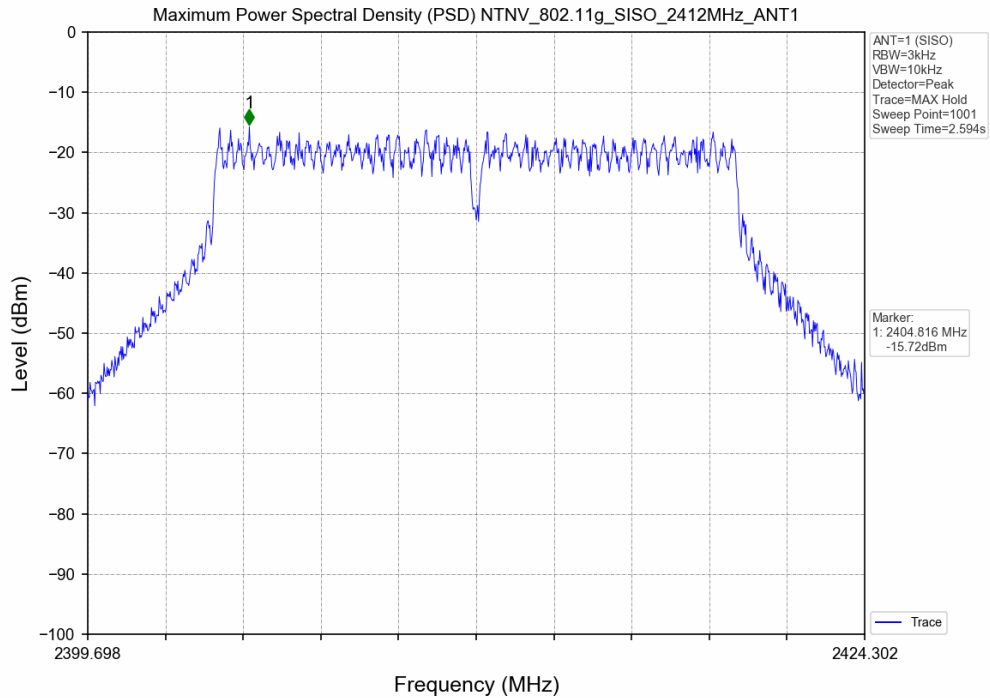
### 4.1 Test Result

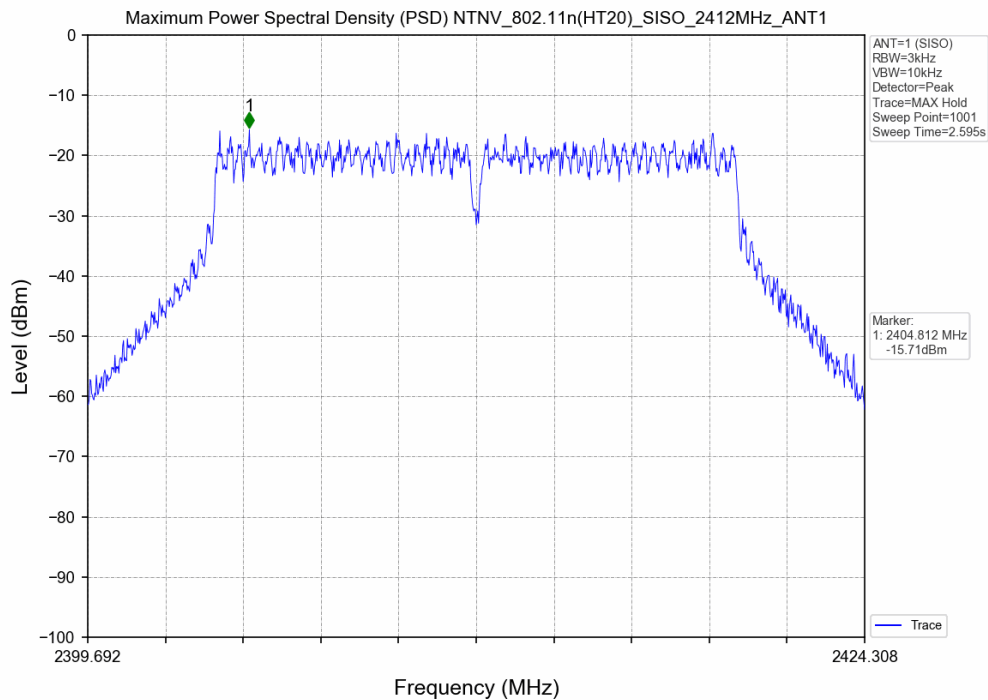
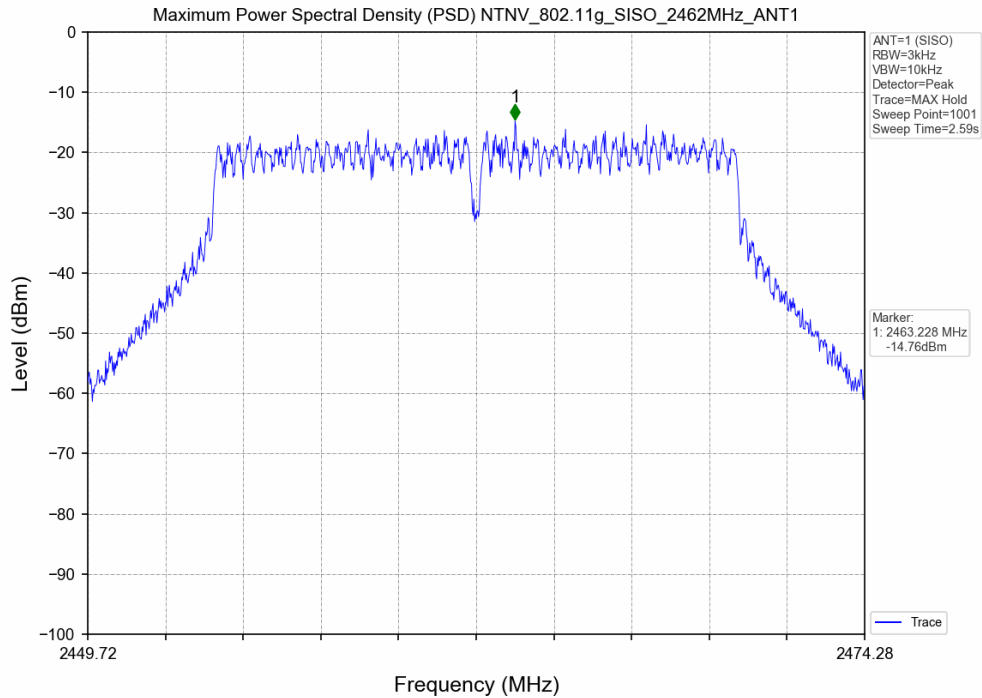
| Test Mode     | Frequency (MHz) | Tx Type | Maximum Power Spectral Density (dBm/3KHz) | Limits (dBm/3kHz) | Verdict |
|---------------|-----------------|---------|-------------------------------------------|-------------------|---------|
|               |                 |         | Ant 1                                     |                   |         |
| 802.11b       | 2412            | SISO    | -8.45                                     | ≤8                | PASS    |
|               | 2437            | SISO    | -8.94                                     | ≤8                | PASS    |
|               | 2462            | SISO    | -8.77                                     | ≤8                | PASS    |
| 802.11g       | 2412            | SISO    | -15.72                                    | ≤8                | PASS    |
|               | 2437            | SISO    | -14.51                                    | ≤8                | PASS    |
|               | 2462            | SISO    | -14.76                                    | ≤8                | PASS    |
| 802.11n(HT20) | 2412            | SISO    | -15.71                                    | ≤8                | PASS    |
|               | 2437            | SISO    | -15.20                                    | ≤8                | PASS    |
|               | 2462            | SISO    | -14.63                                    | ≤8                | PASS    |
| 802.11n(HT40) | 2422            | SISO    | -19.09                                    | ≤8                | PASS    |
|               | 2437            | SISO    | -18.82                                    | ≤8                | PASS    |
|               | 2452            | SISO    | -18.52                                    | ≤8                | PASS    |

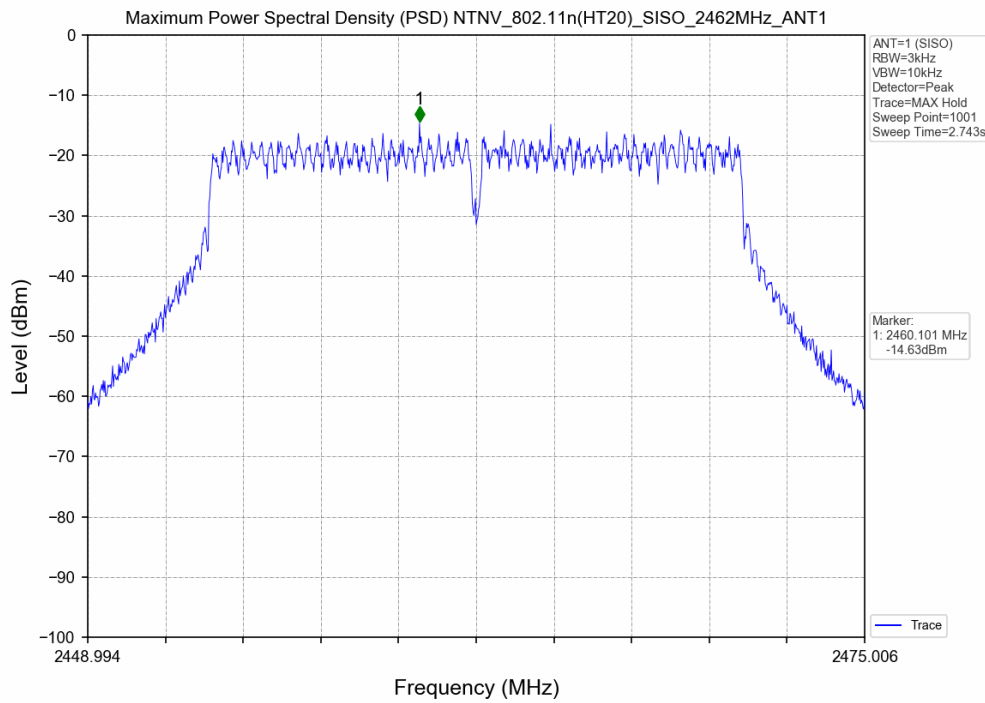
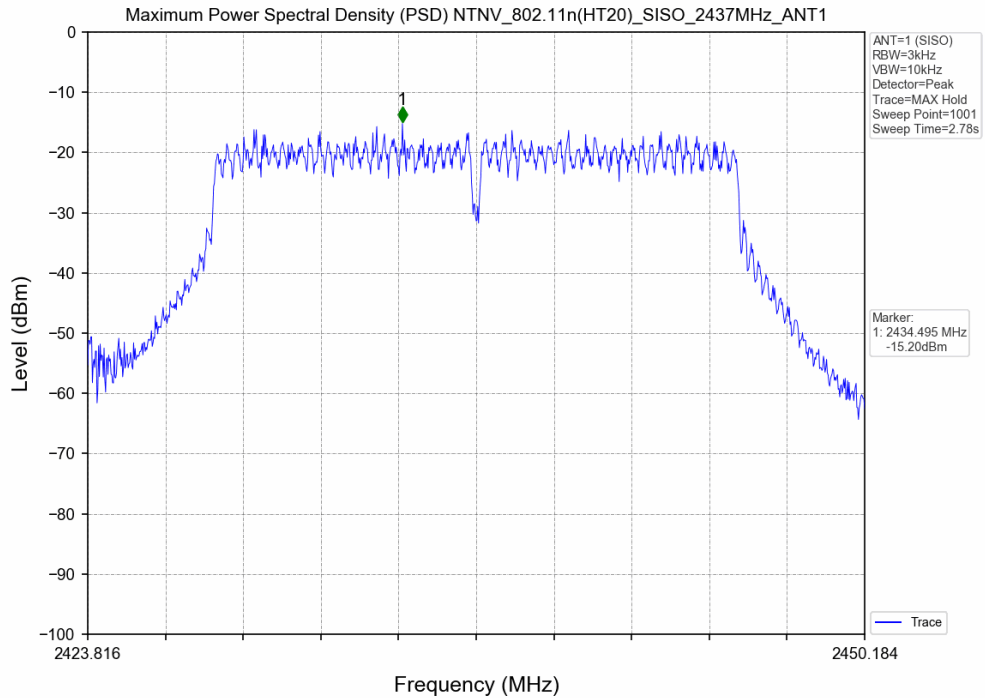
### 4.2 Test Graph

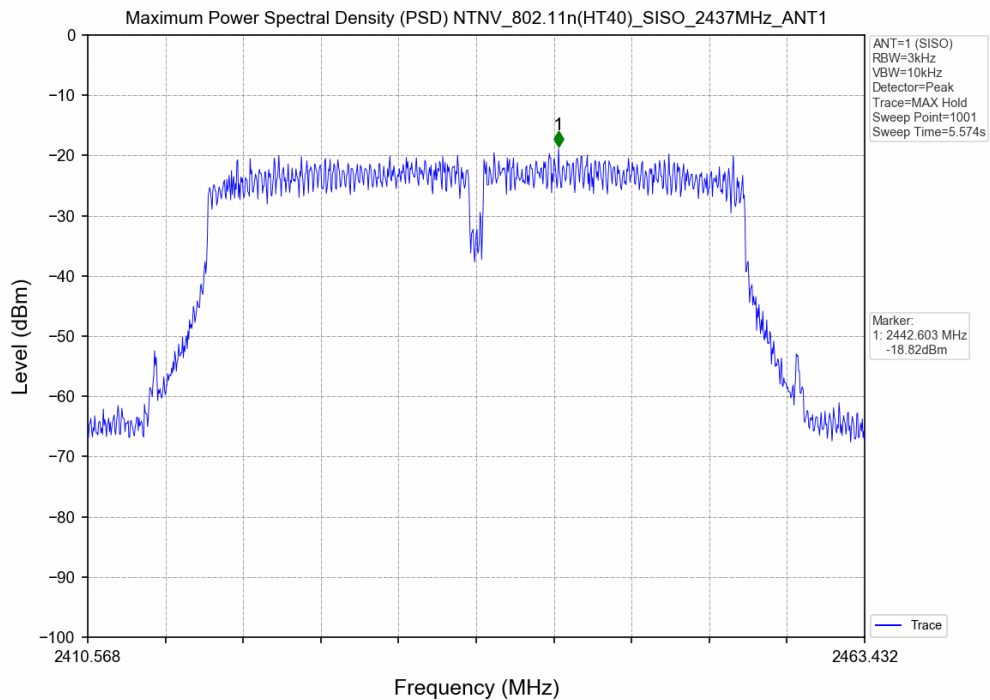
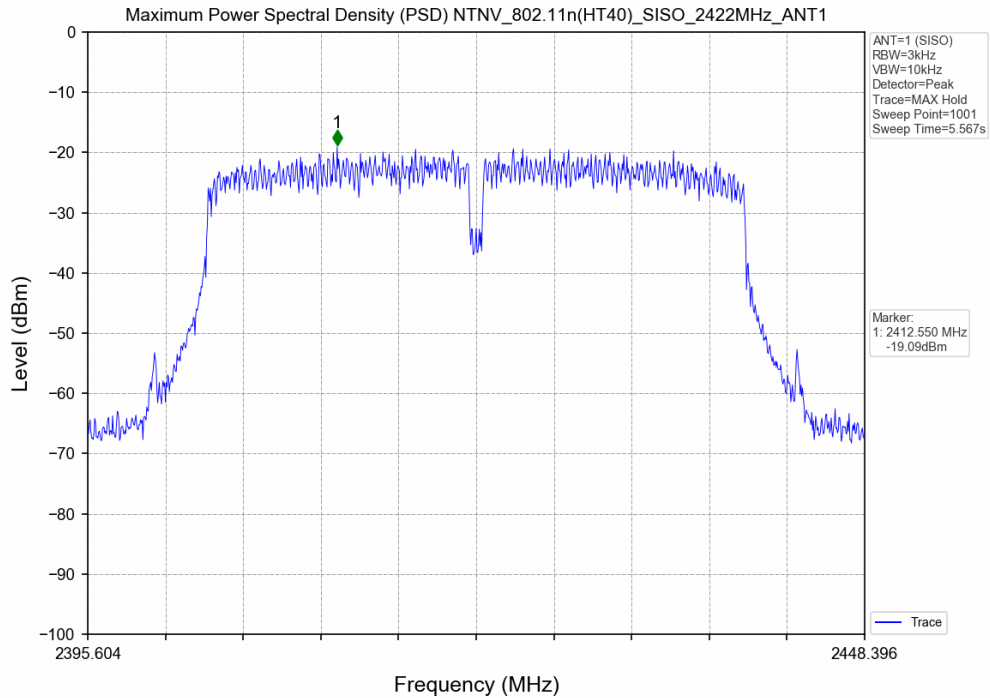




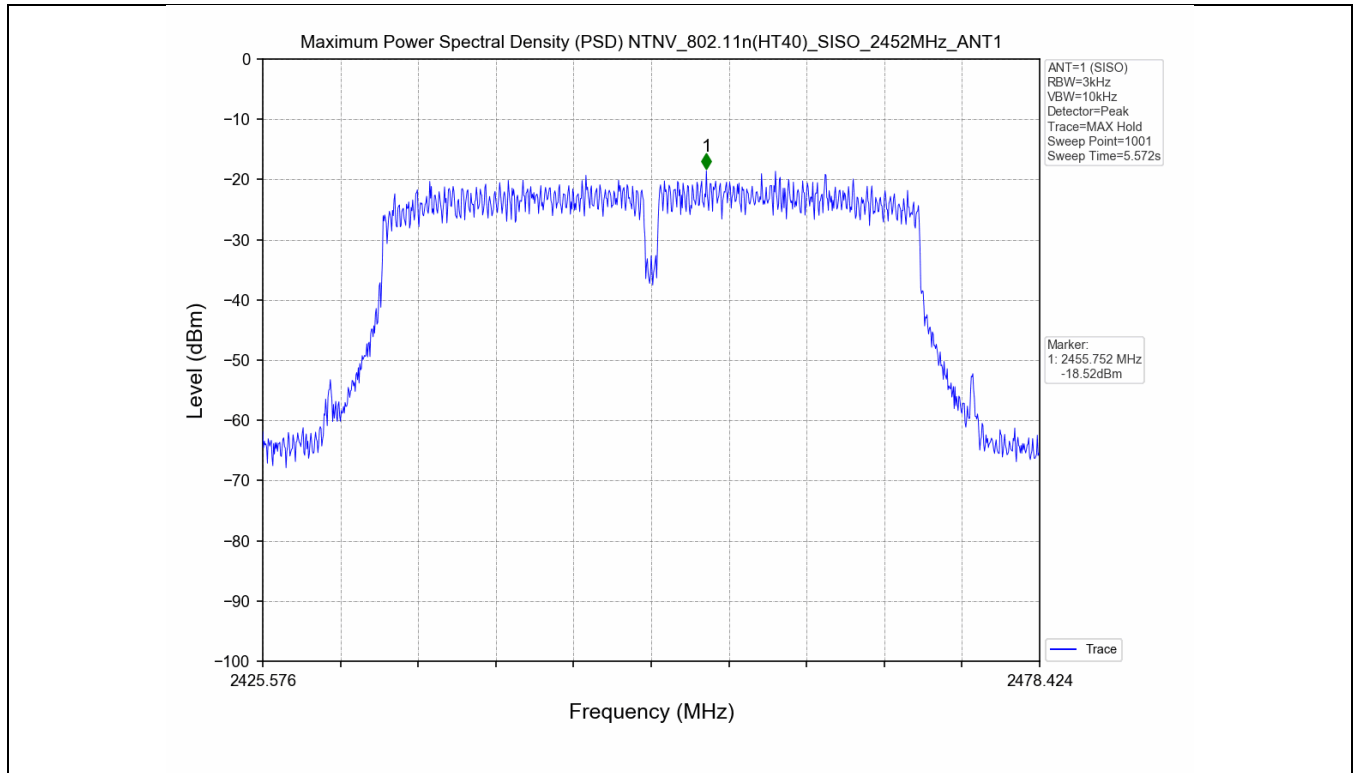










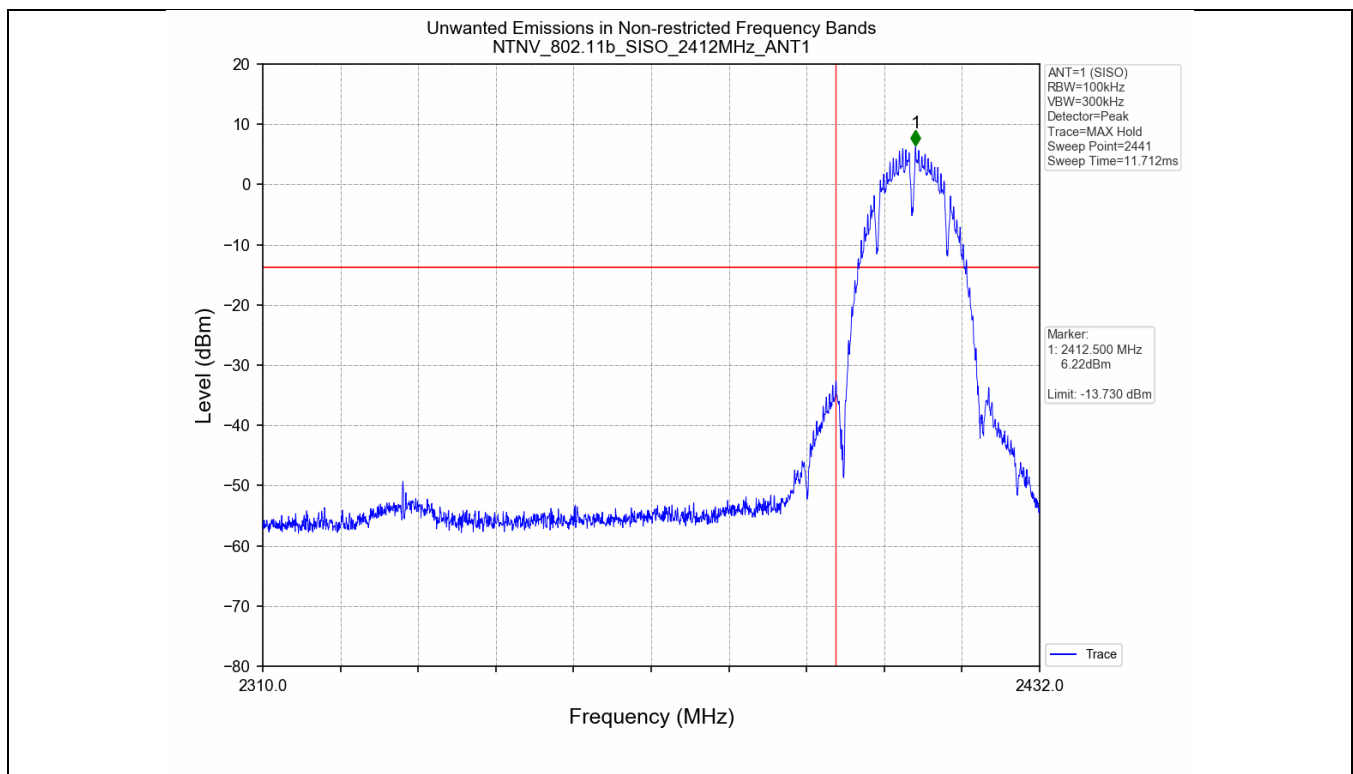
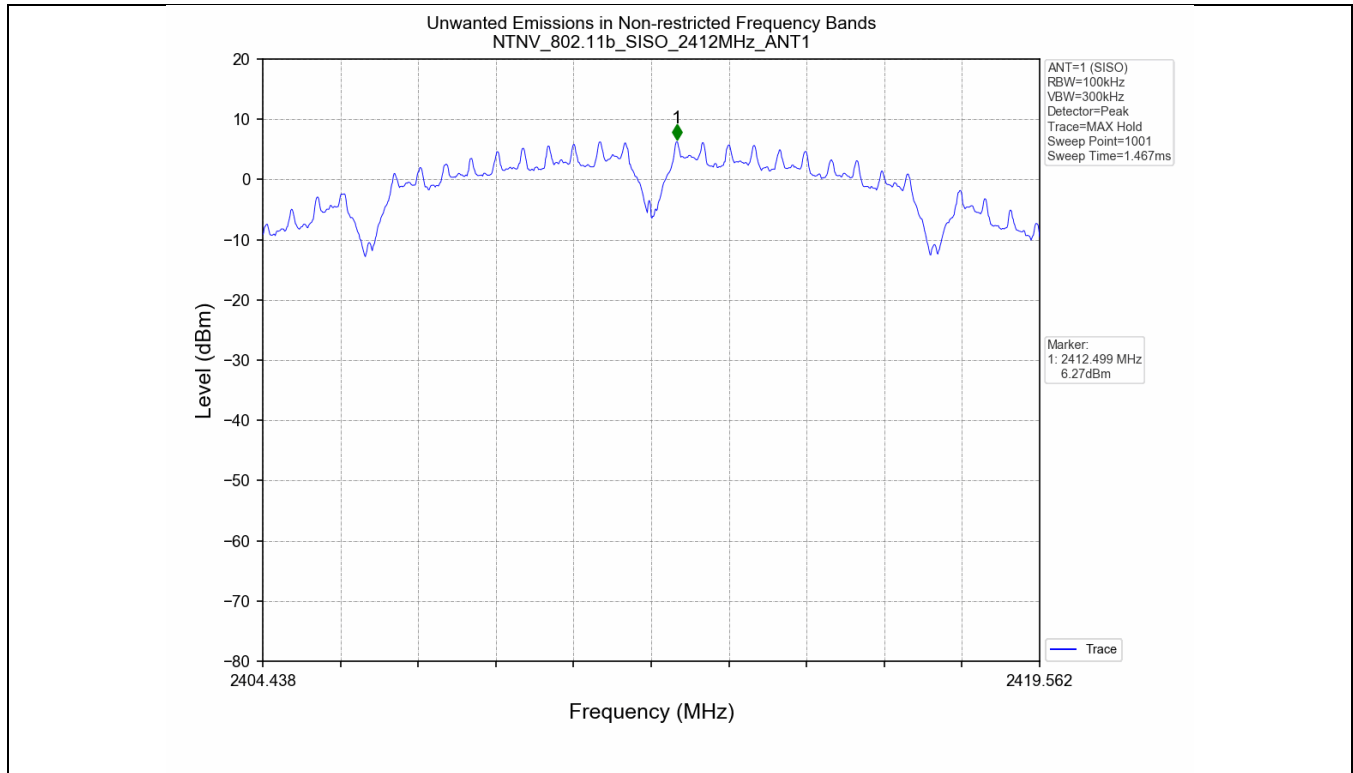


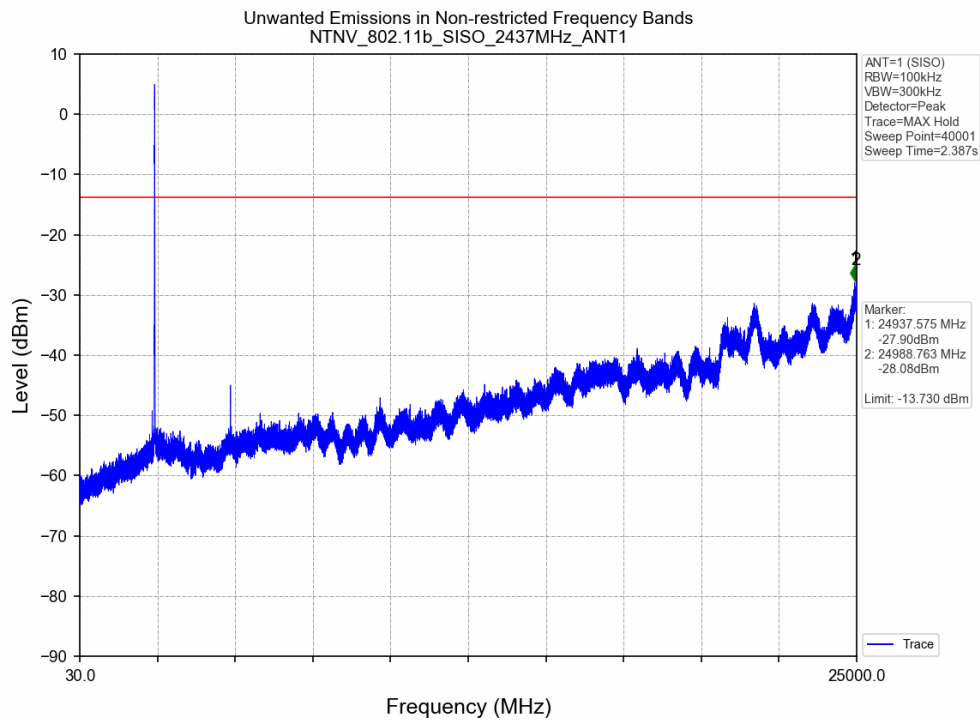
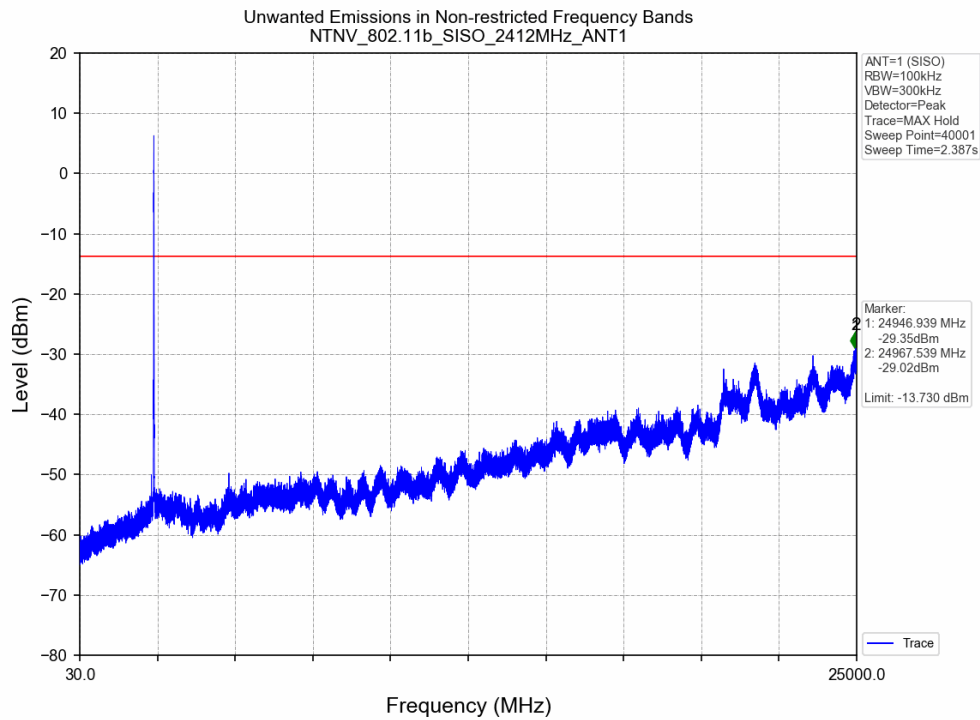
## 5. Unwanted Emissions in Non-restricted Frequency Bands

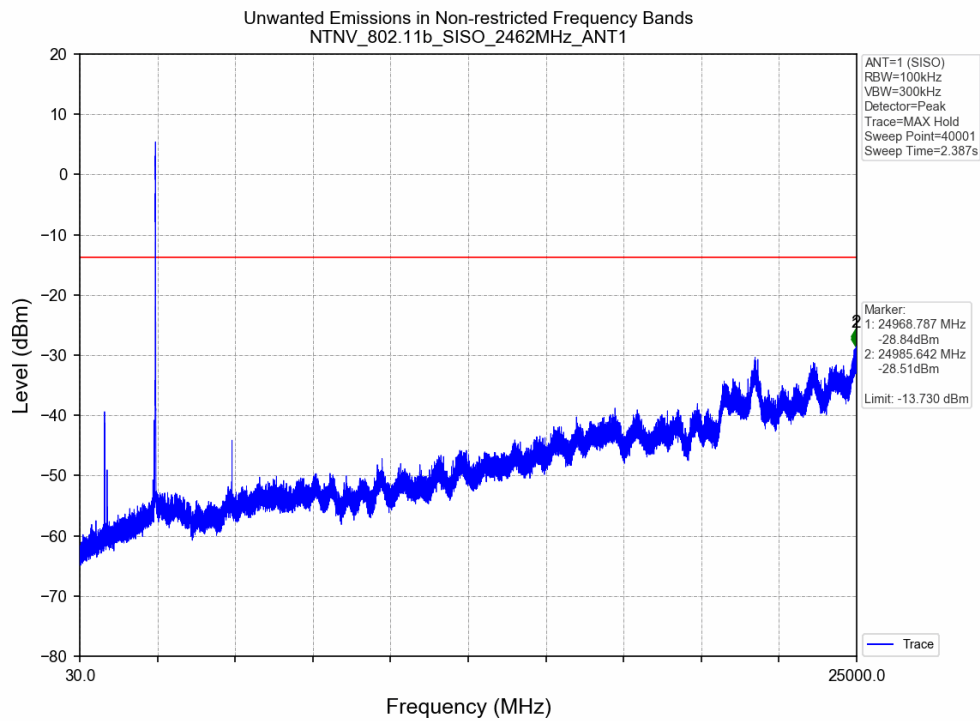
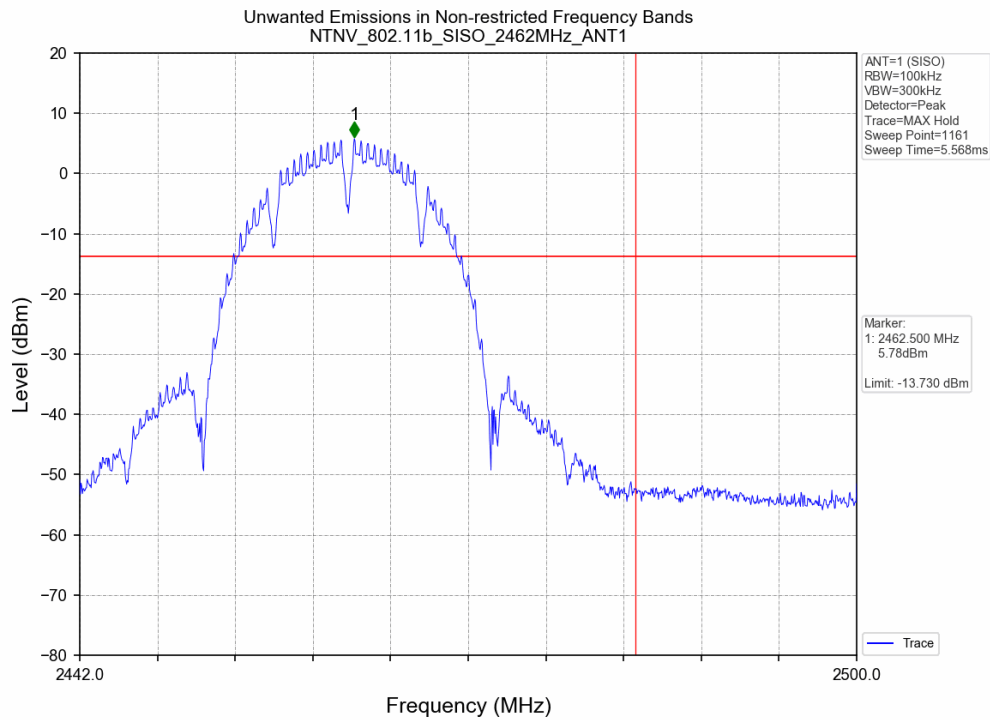
### 5.1 Test Result

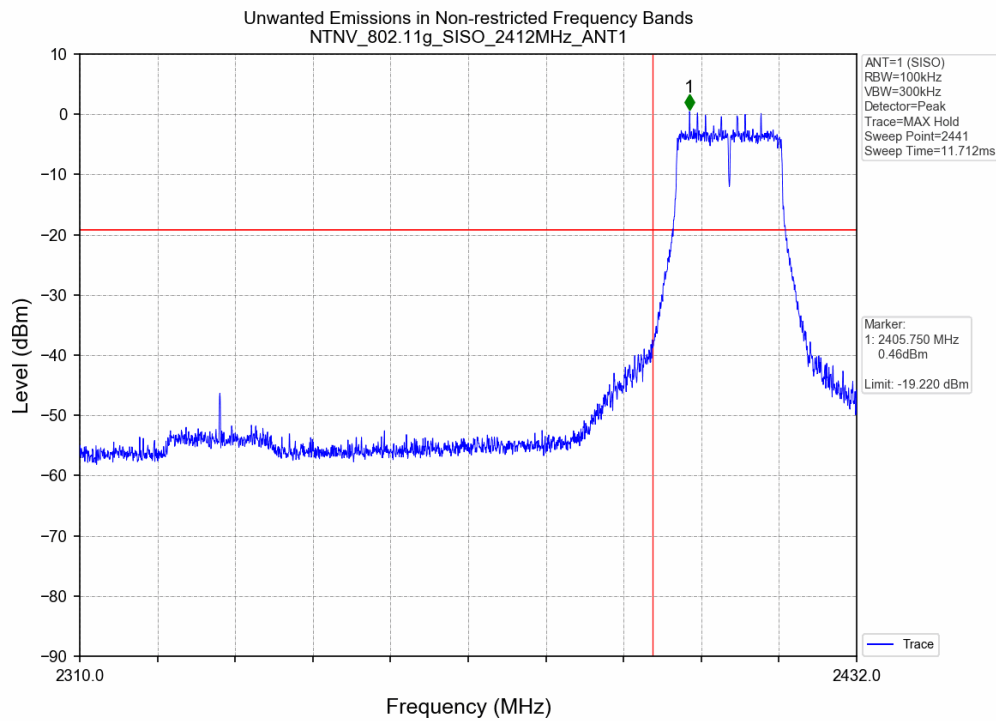
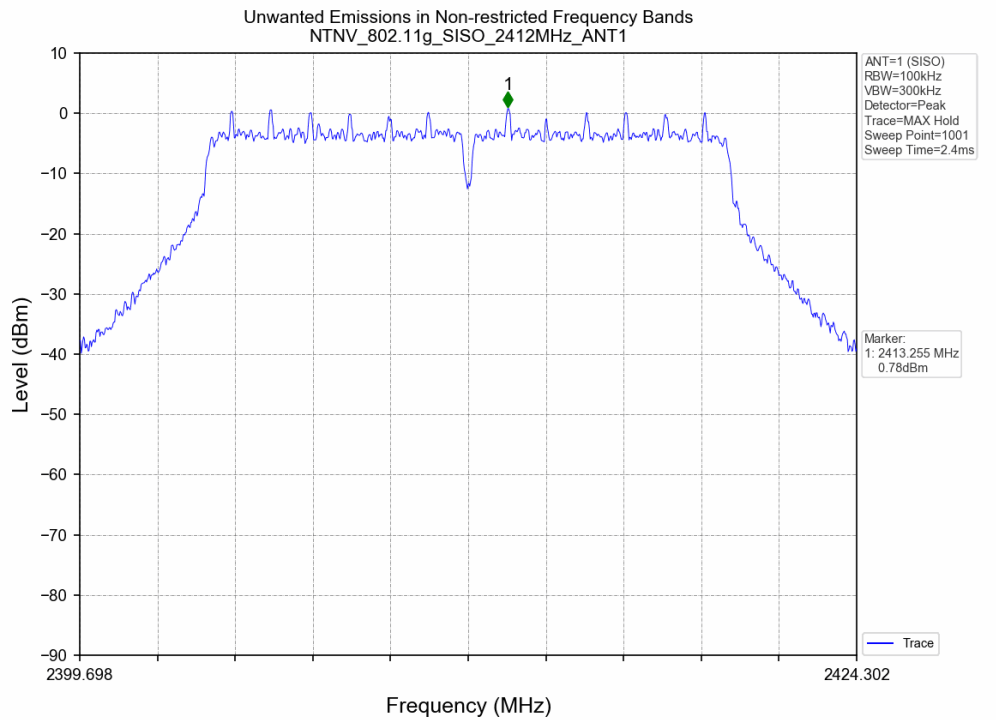
| Test Mode     | Frequency (MHz) | TX Type | ANT No. | Spurious Conducted Emission (dBm) | Limits (dBm) | Verdict |
|---------------|-----------------|---------|---------|-----------------------------------|--------------|---------|
| 802.11b       | 2412            | SISO    | 1       | Refer to test graph               | -13.73       | PASS    |
|               | 2437            | SISO    | 1       | Refer to test graph               | -13.73       | PASS    |
|               | 2462            | SISO    | 1       | Refer to test graph               | -13.73       | PASS    |
| 802.11g       | 2412            | SISO    | 1       | Refer to test graph               | -19.22       | PASS    |
|               | 2437            | SISO    | 1       | Refer to test graph               | -19.22       | PASS    |
|               | 2462            | SISO    | 1       | Refer to test graph               | -19.22       | PASS    |
| 802.11n(HT20) | 2412            | SISO    | 1       | Refer to test graph               | -20.90       | PASS    |
|               | 2437            | SISO    | 1       | Refer to test graph               | -20.90       | PASS    |
|               | 2462            | SISO    | 1       | Refer to test graph               | -20.90       | PASS    |
| 802.11n(HT40) | 2422            | SISO    | 1       | Refer to test graph               | -24.28       | PASS    |
|               | 2437            | SISO    | 1       | Refer to test graph               | -24.28       | PASS    |
|               | 2452            | SISO    | 1       | Refer to test graph               | -24.28       | PASS    |

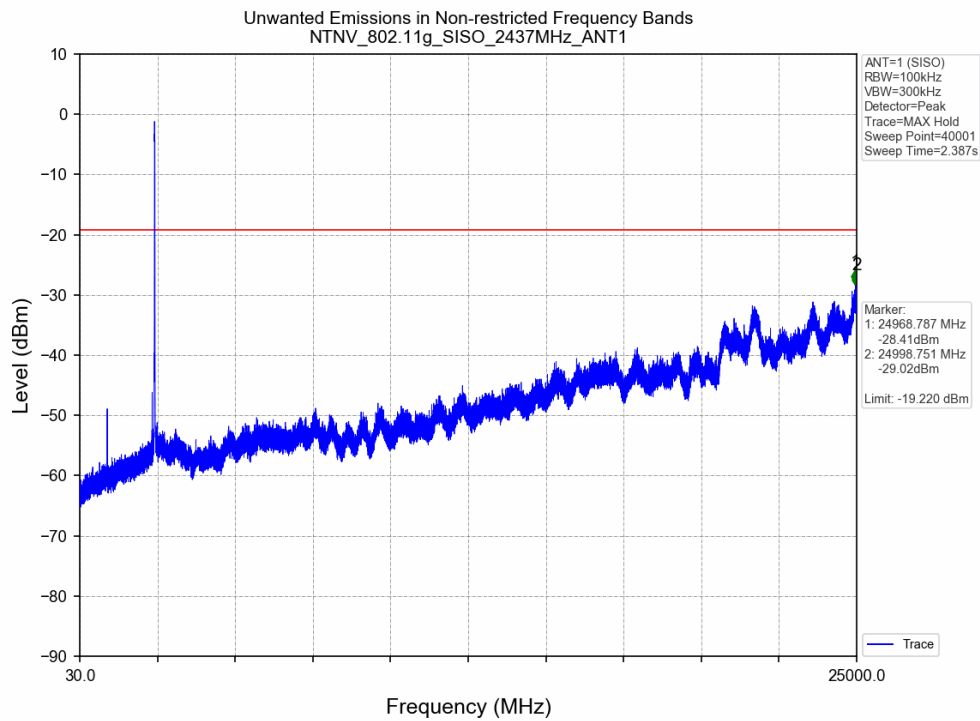
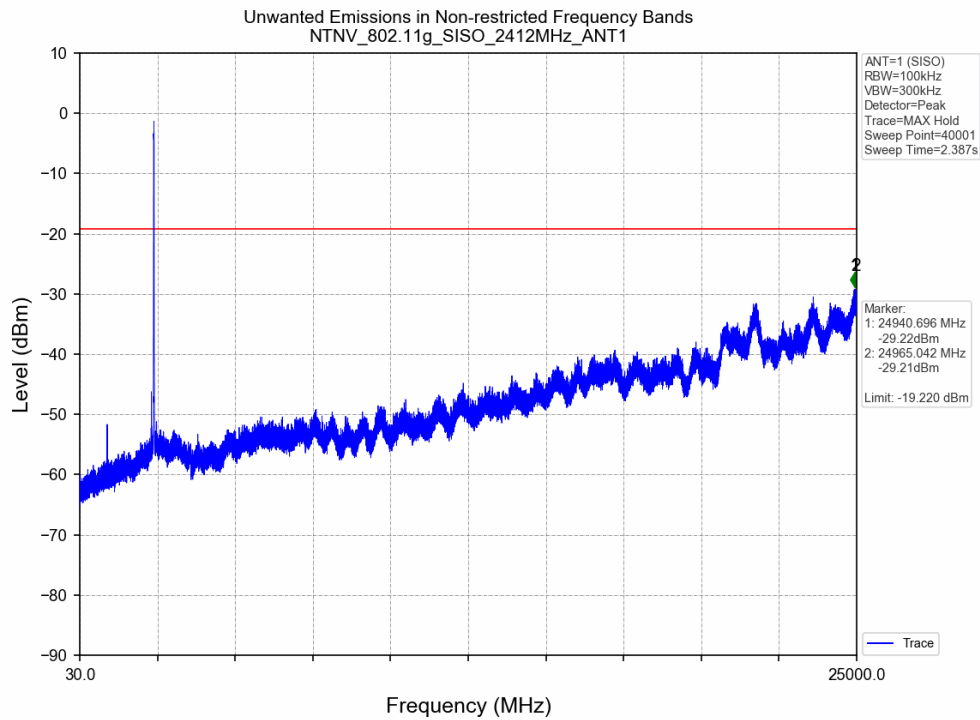
### 5.2 Test Graph

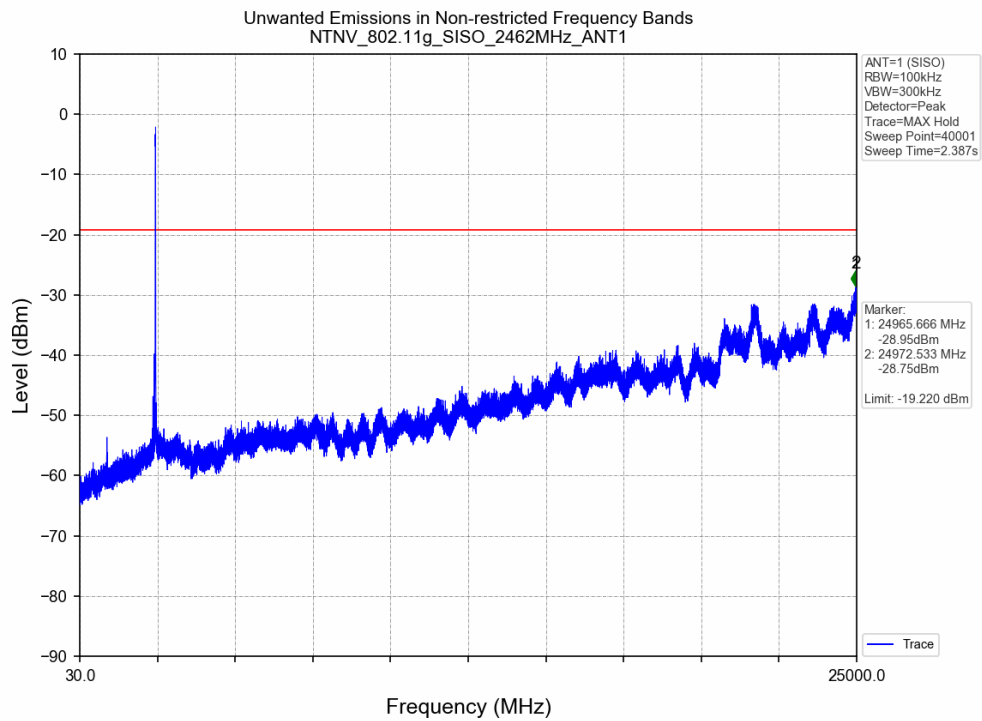
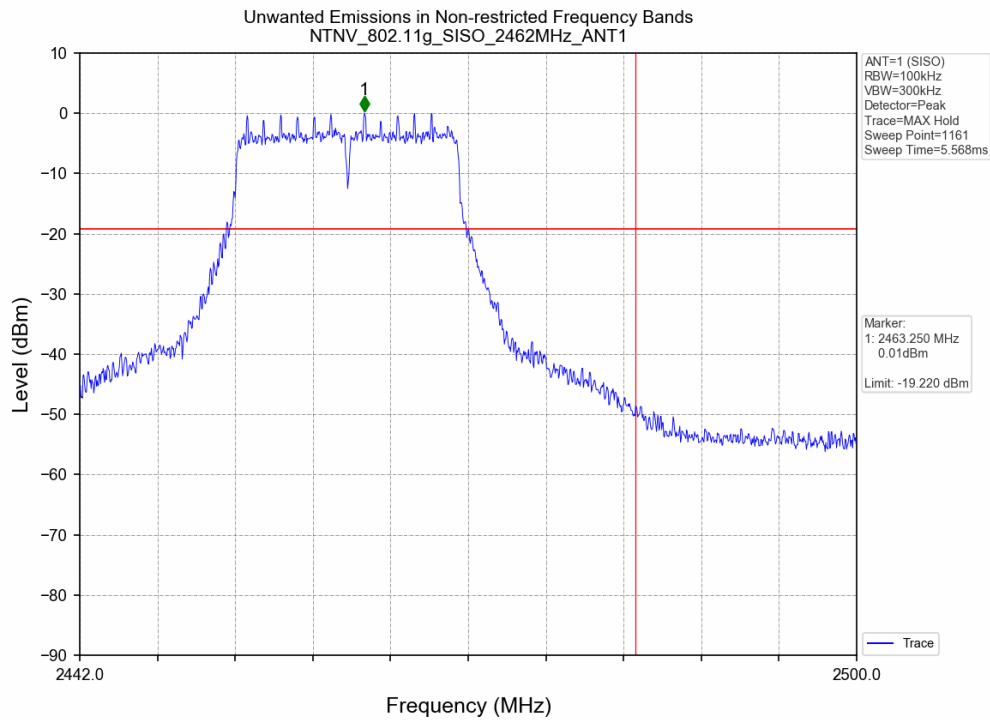


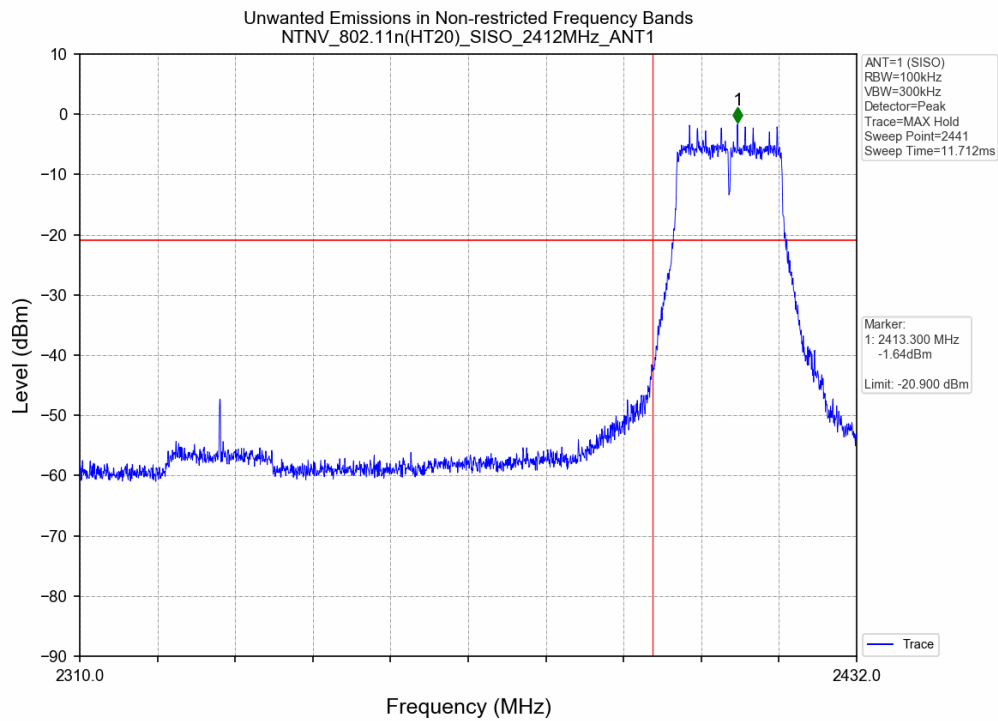
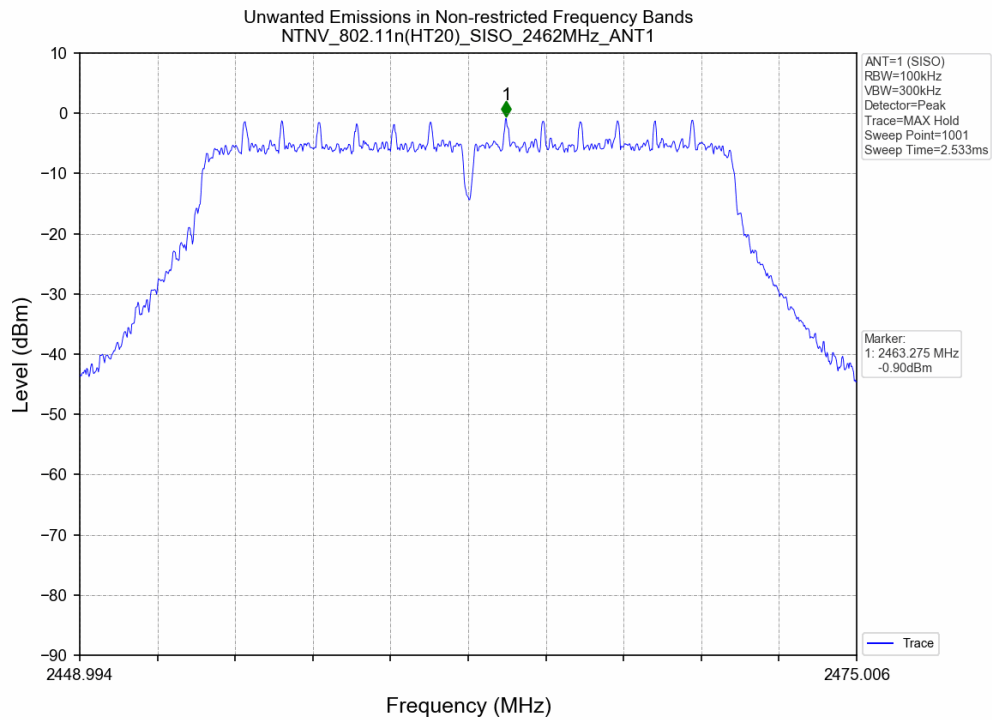




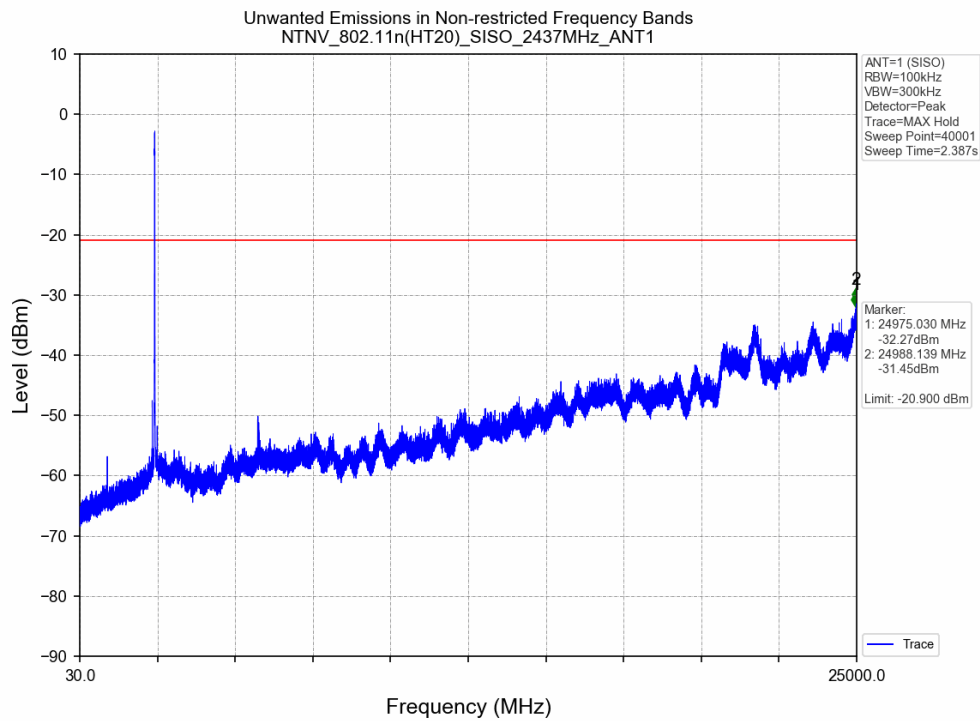
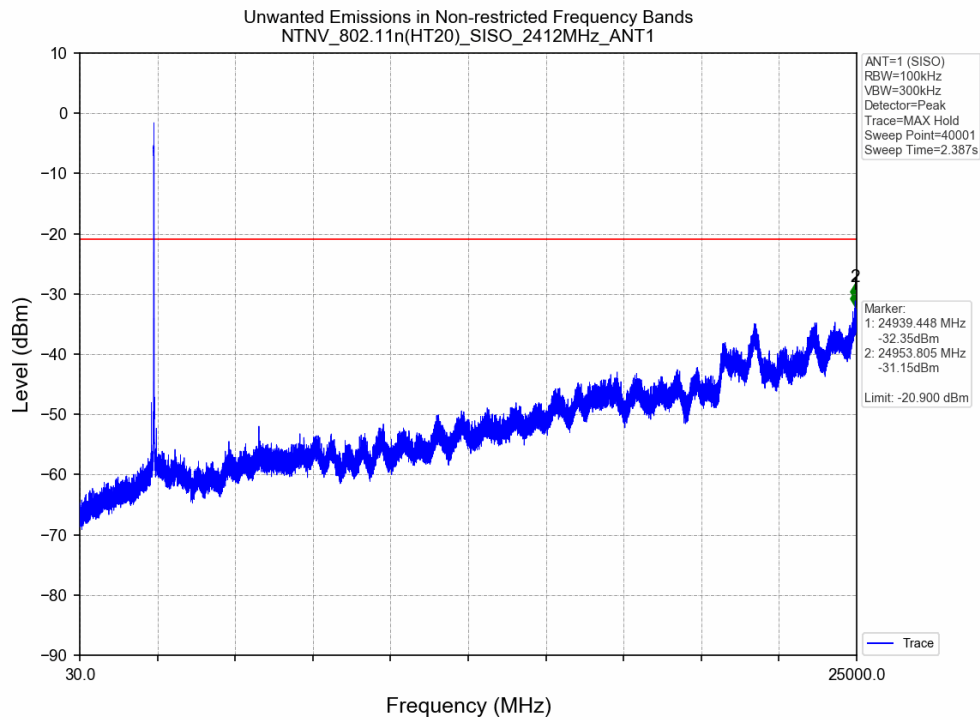


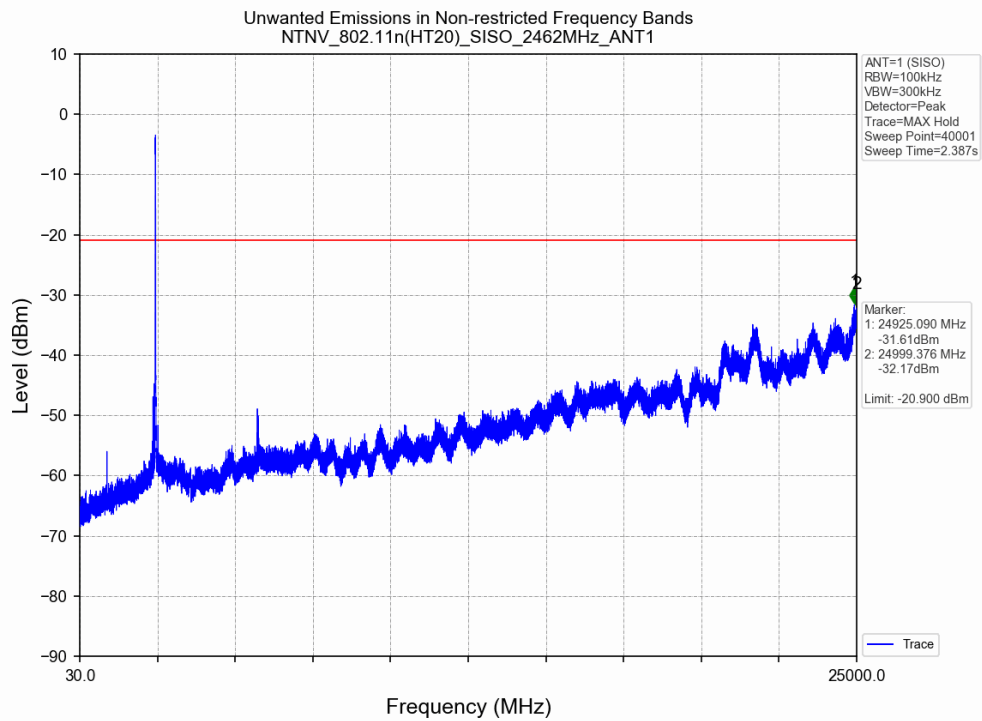
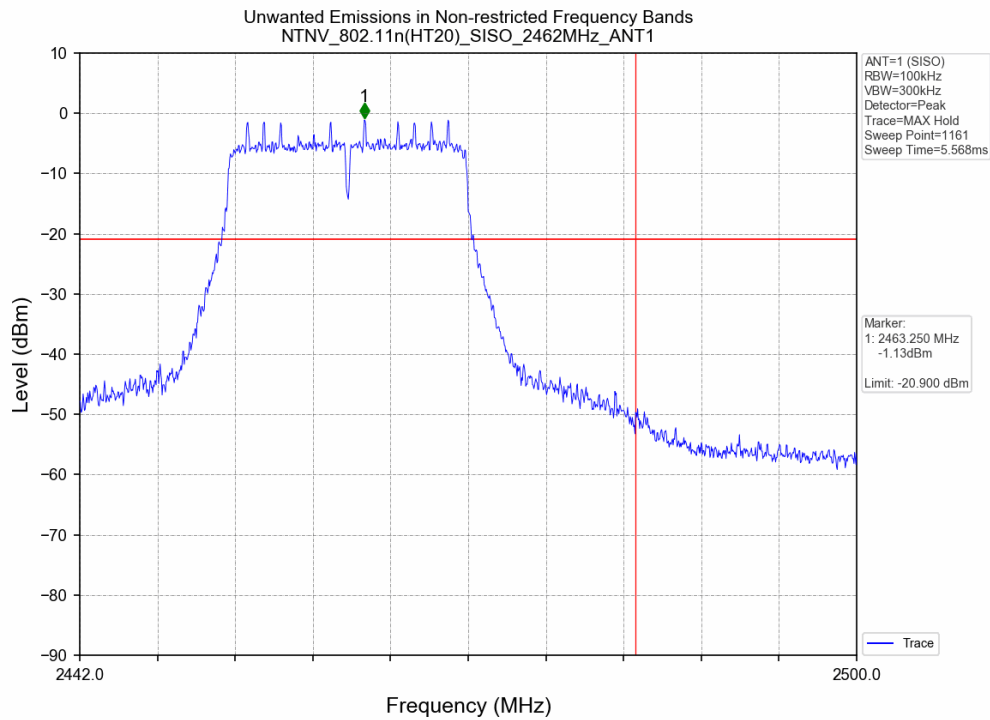


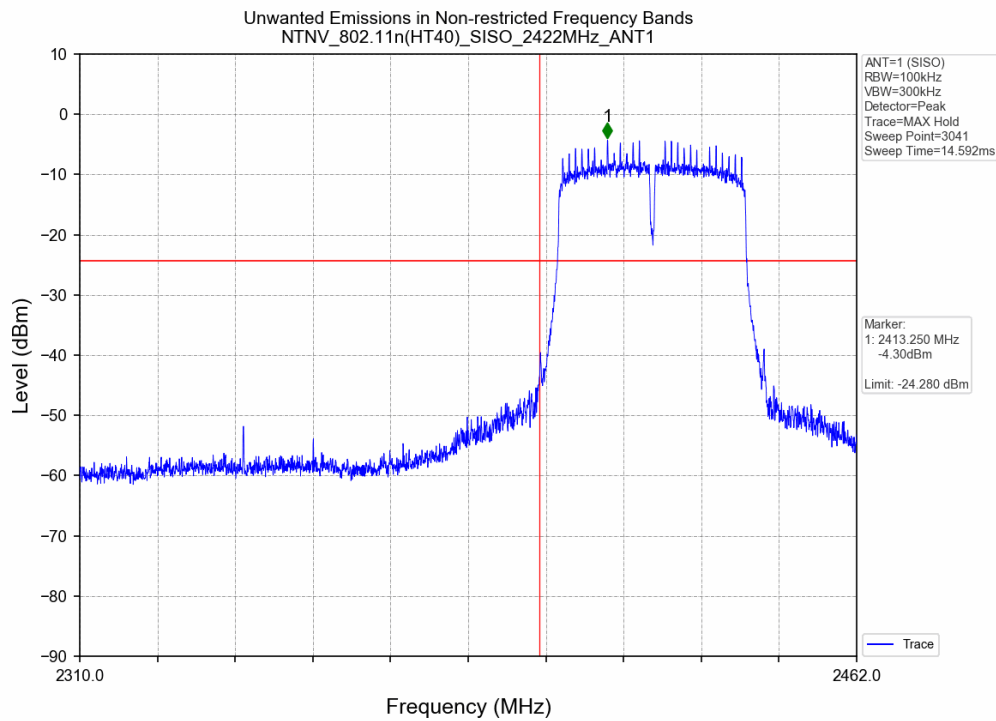
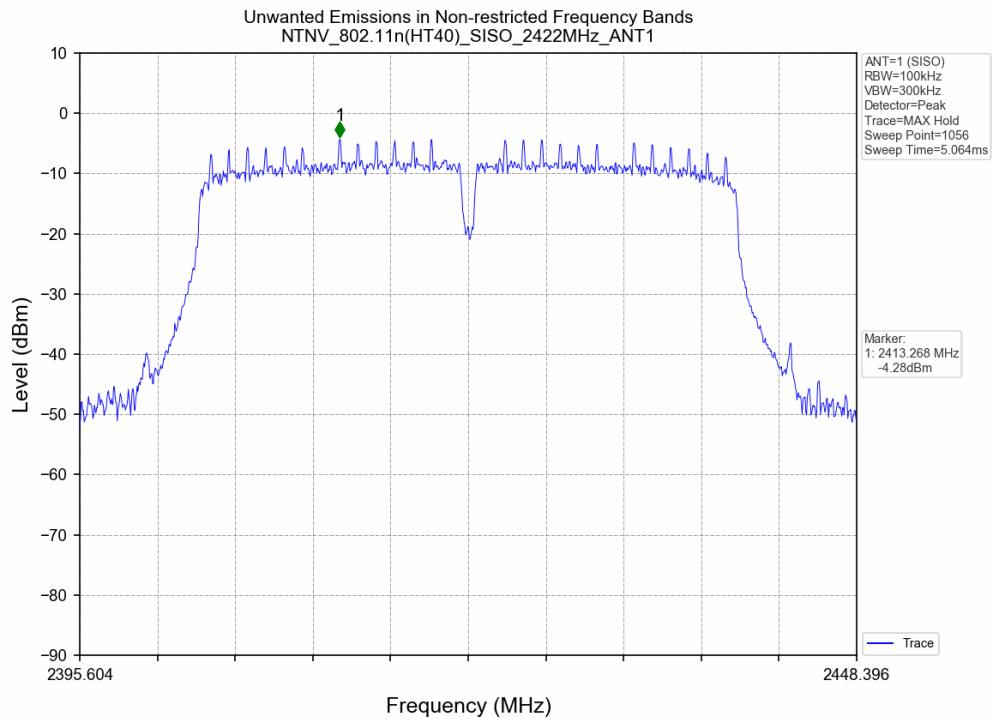


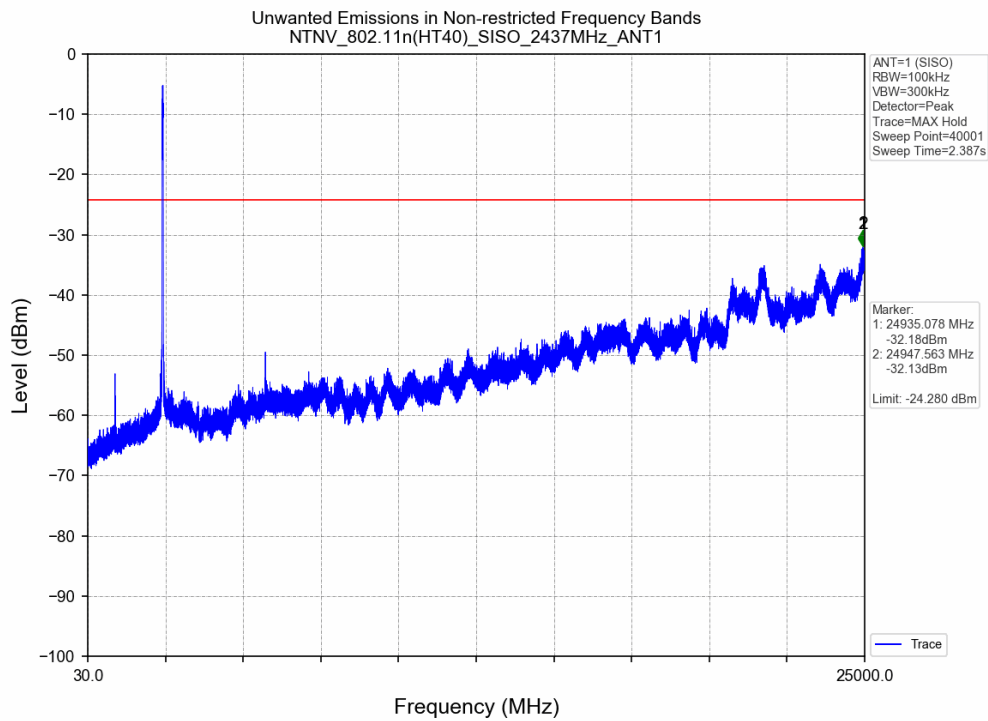
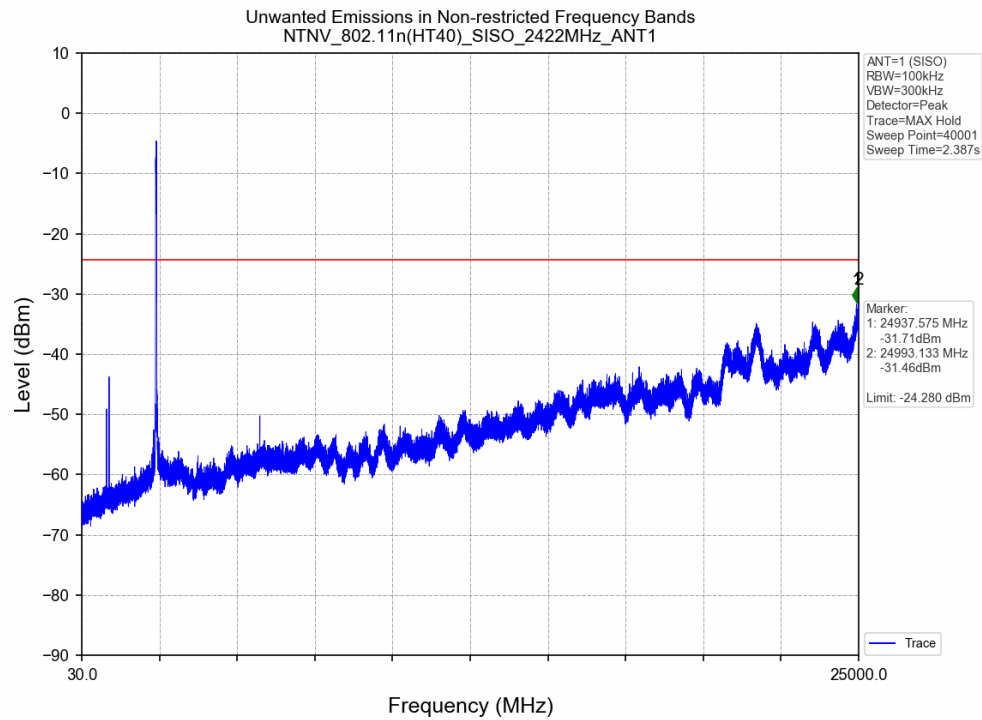


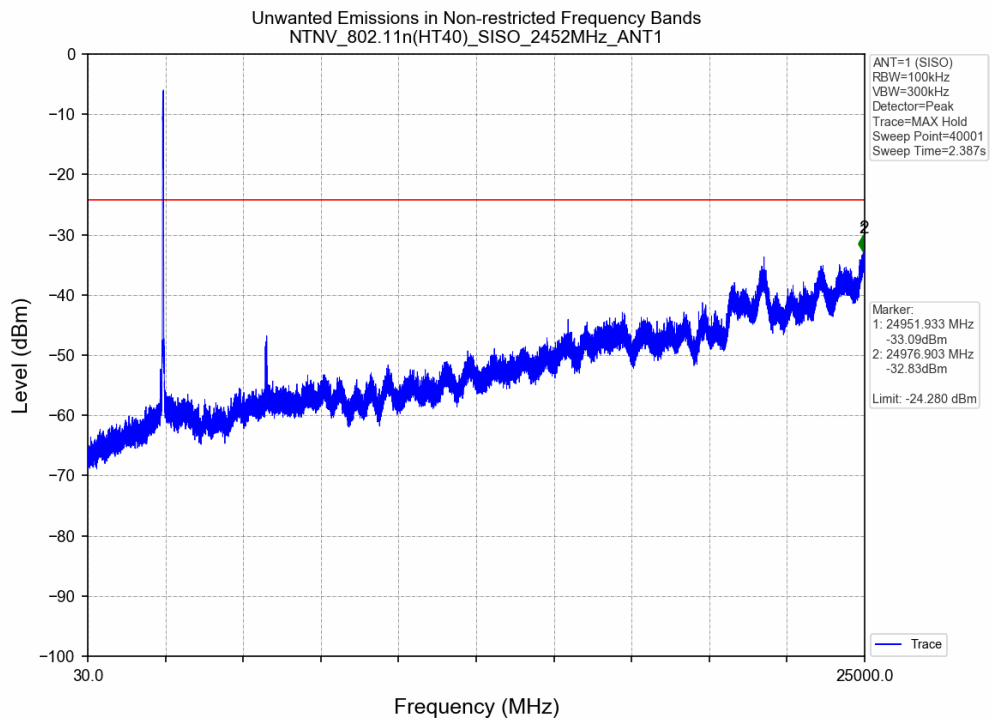
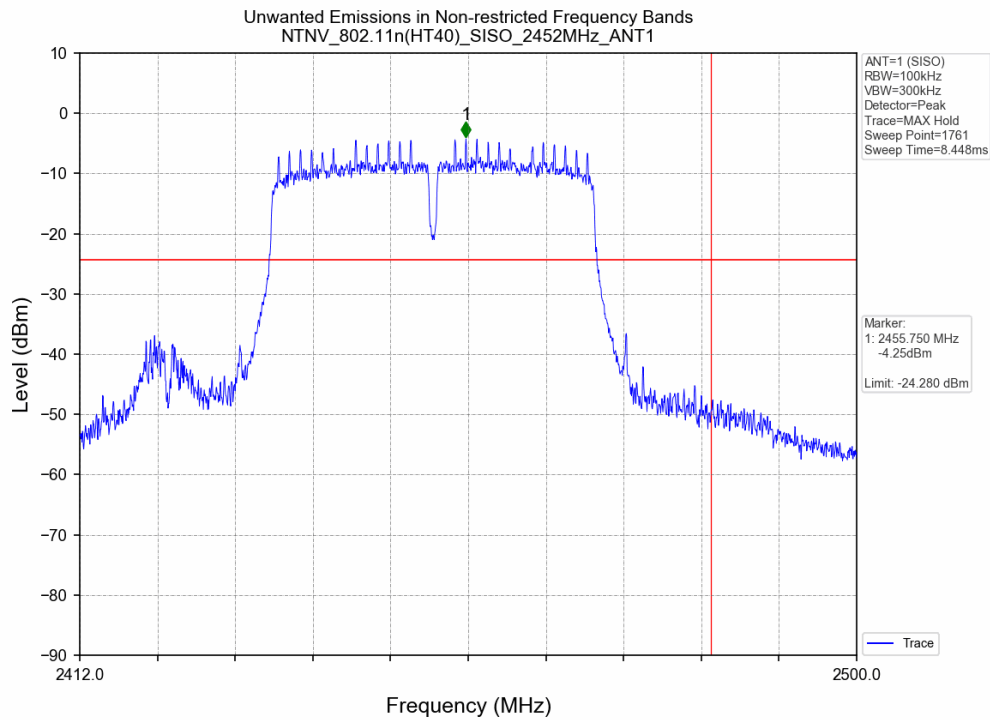














**Compliance Certification Services  
(Kunshan) Inc.**

**Page: 46 of 46**

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300  
中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn  
t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com