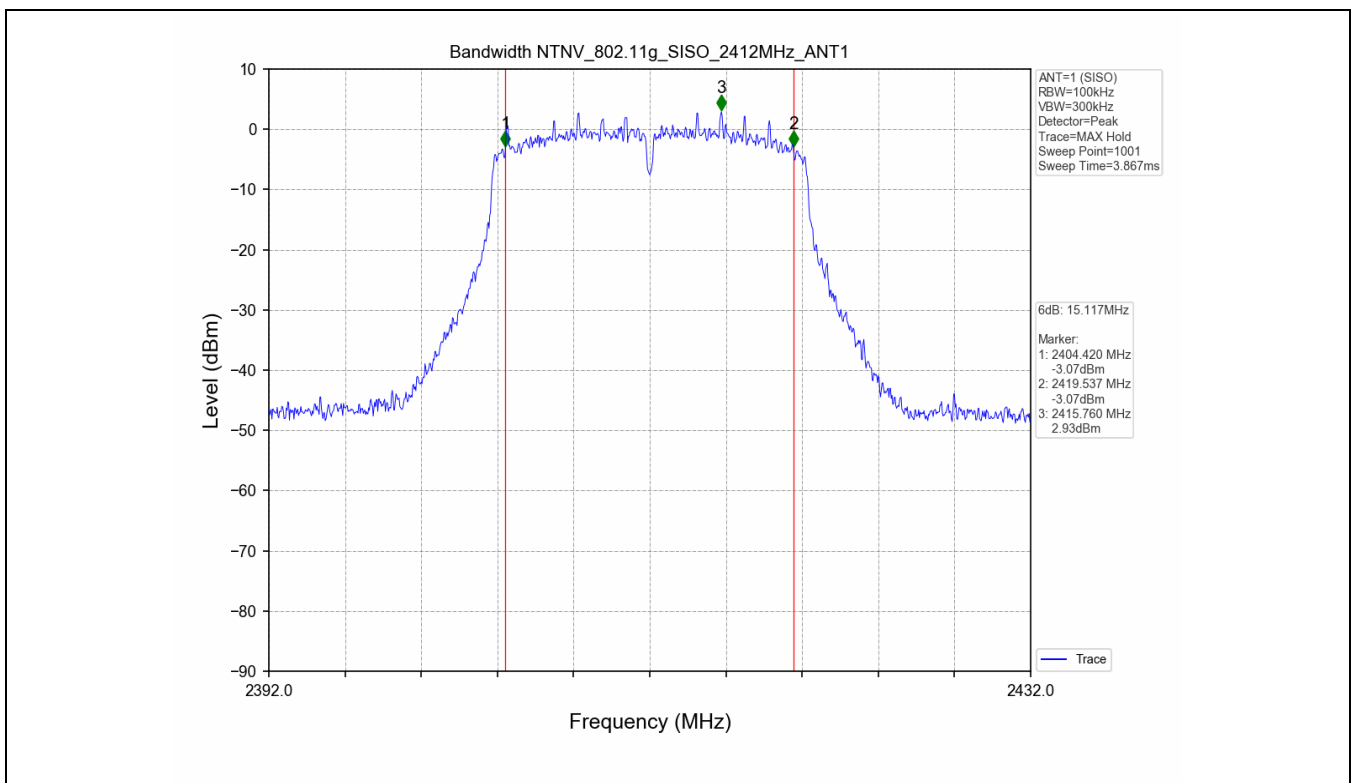
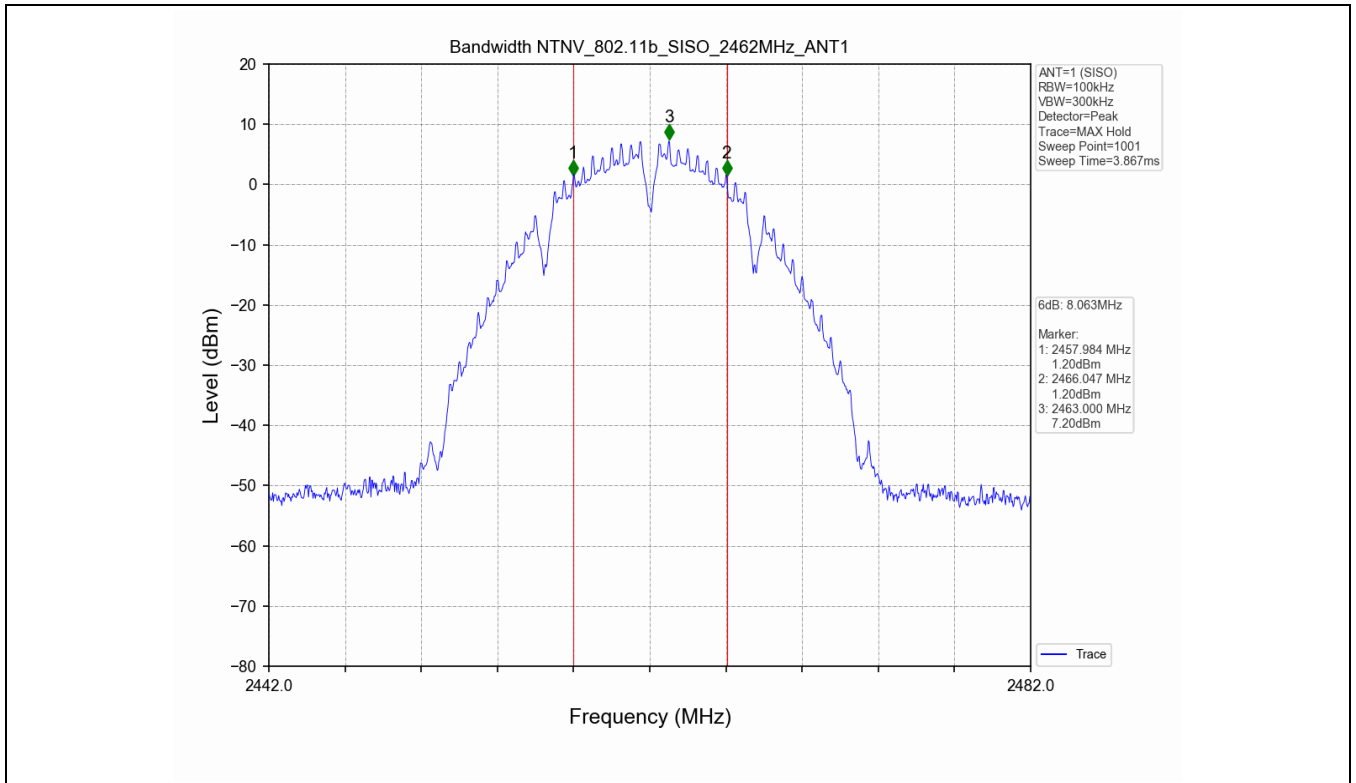
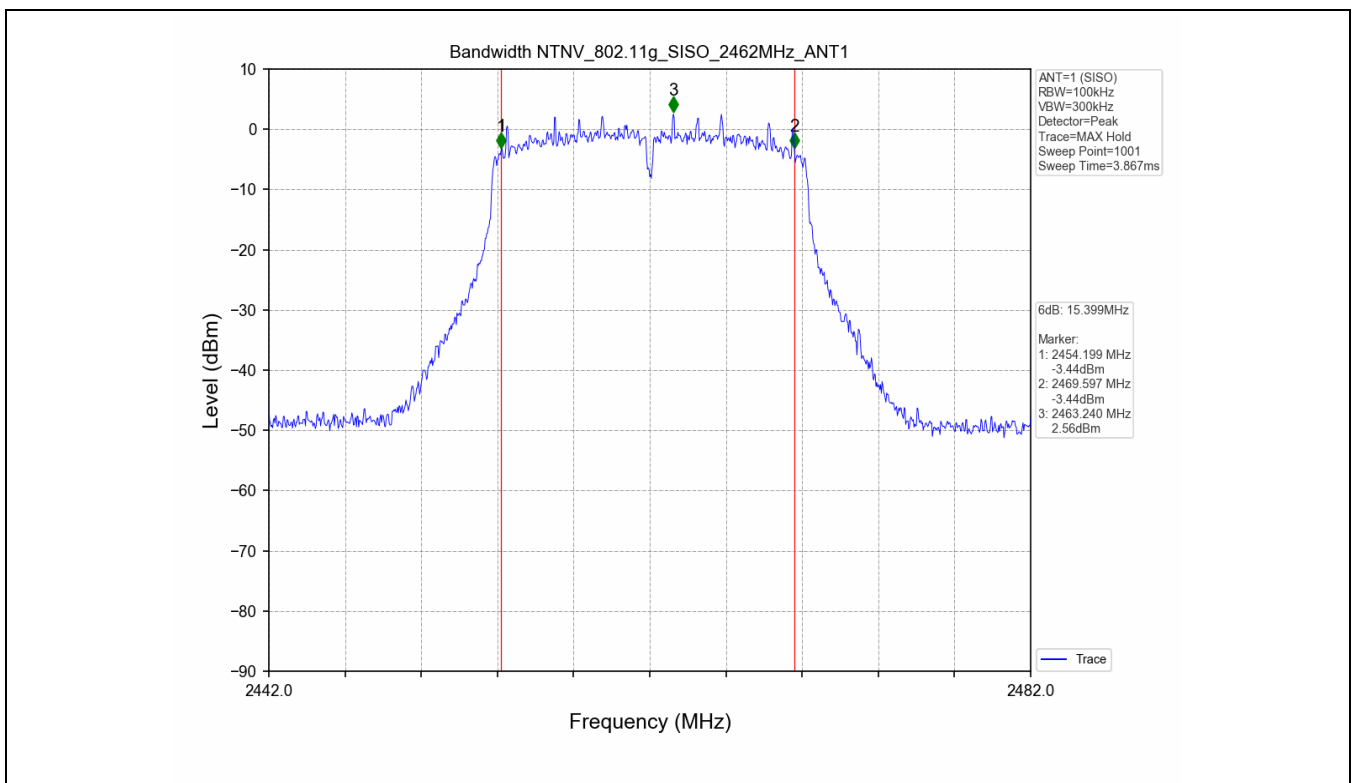
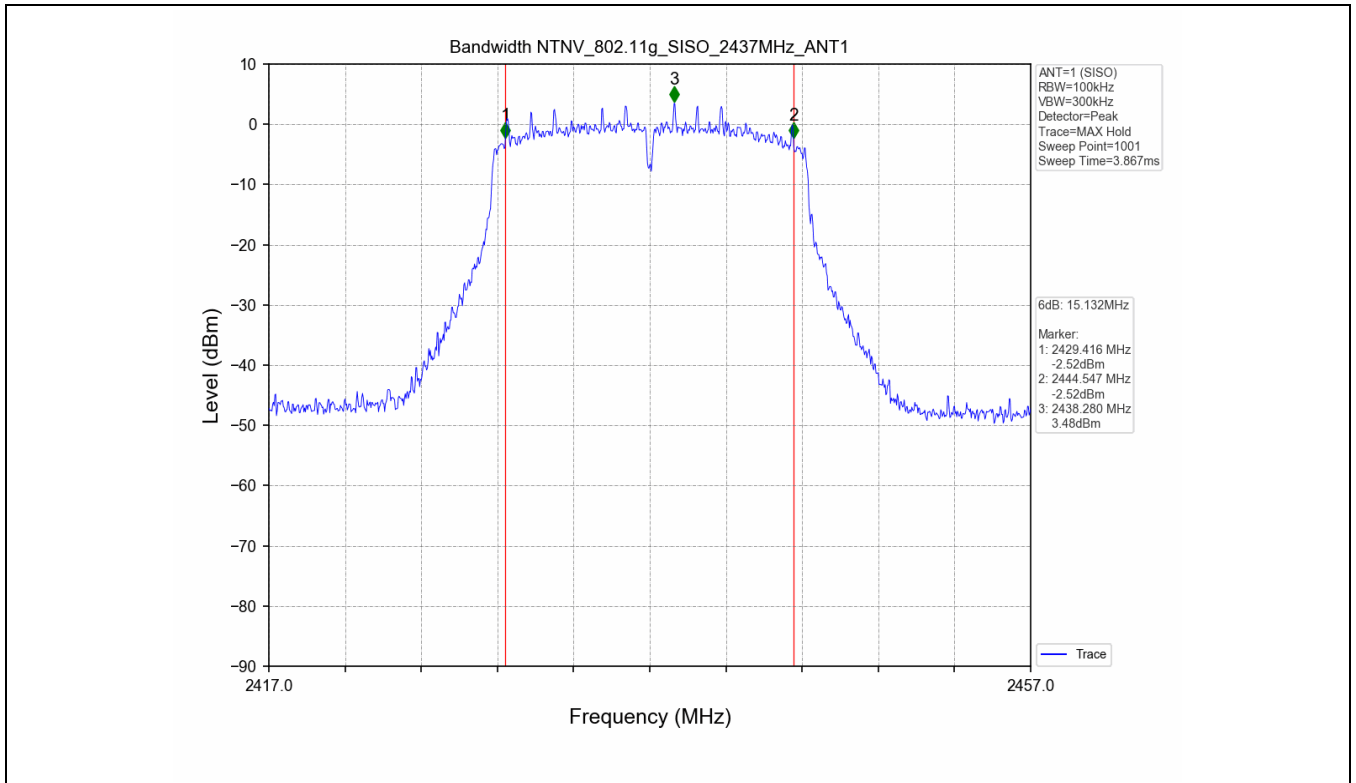
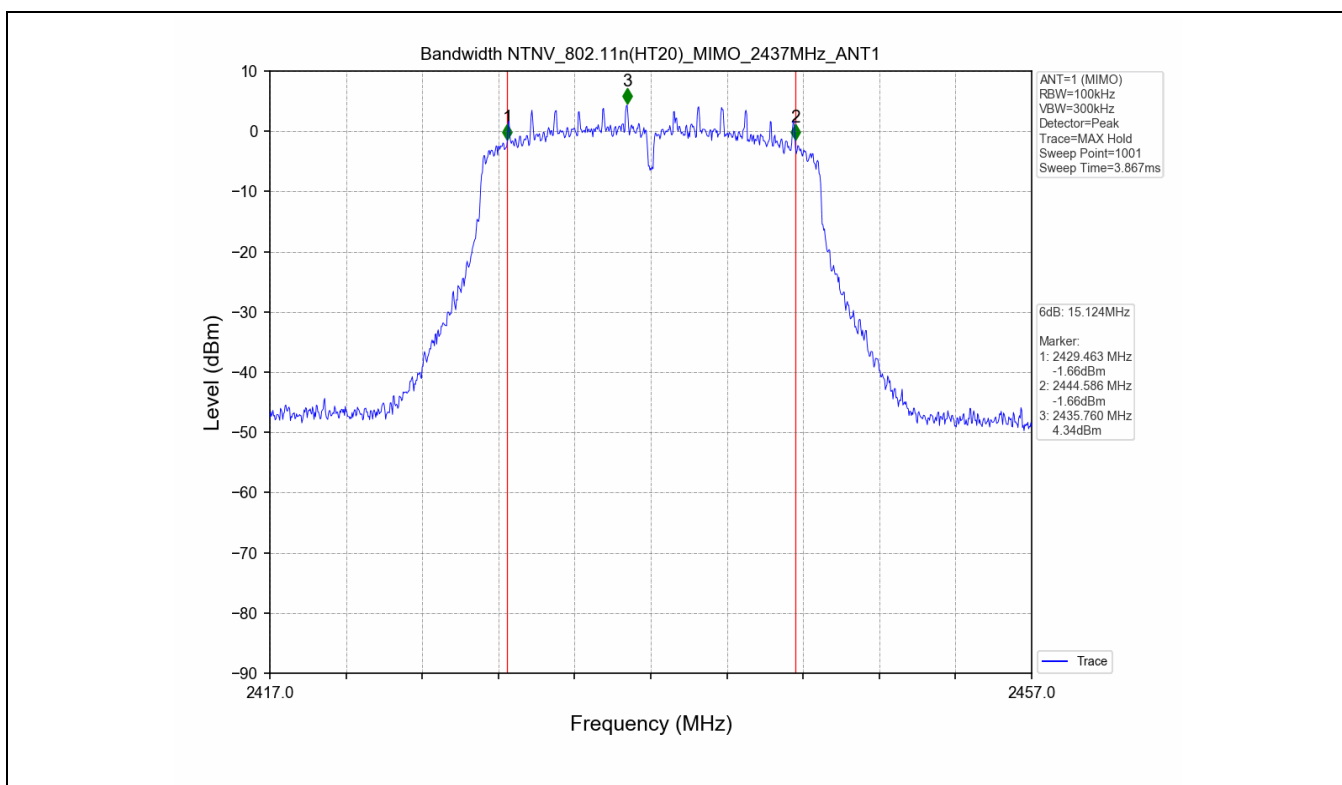
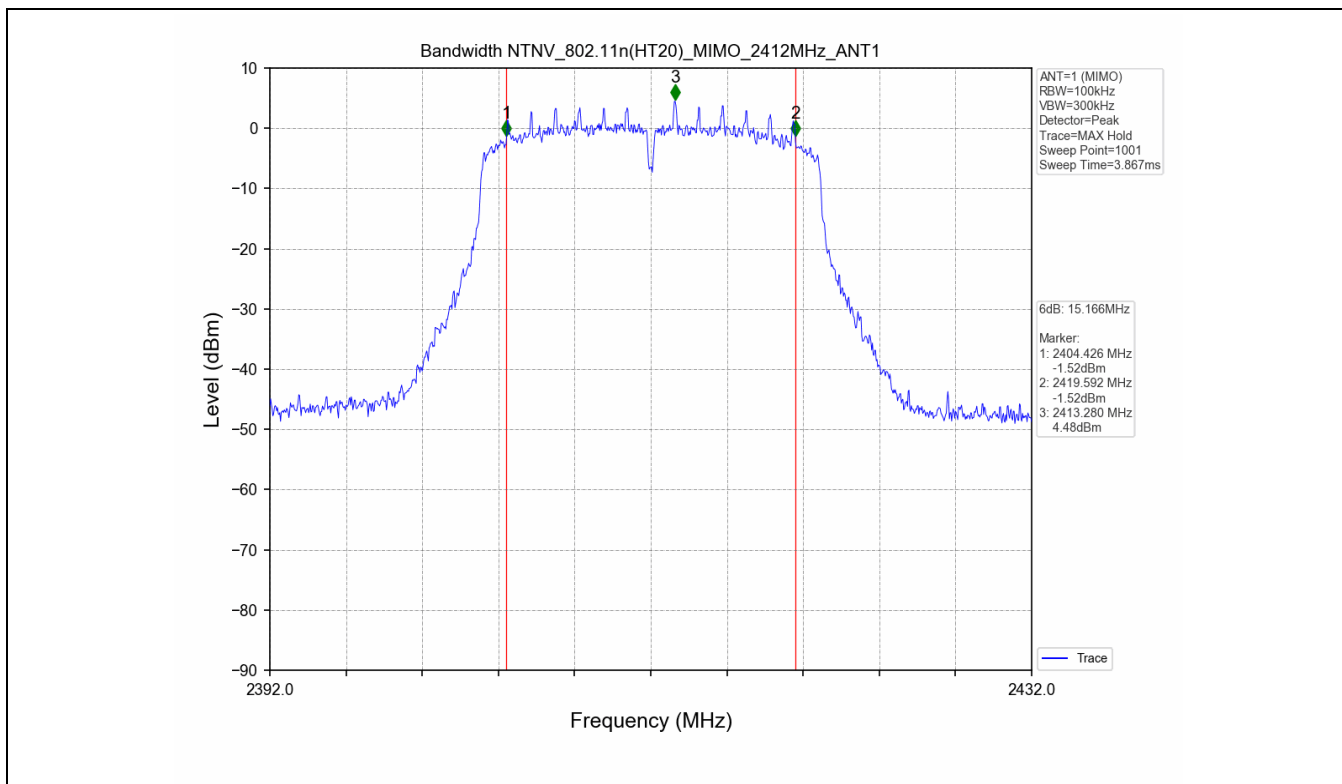
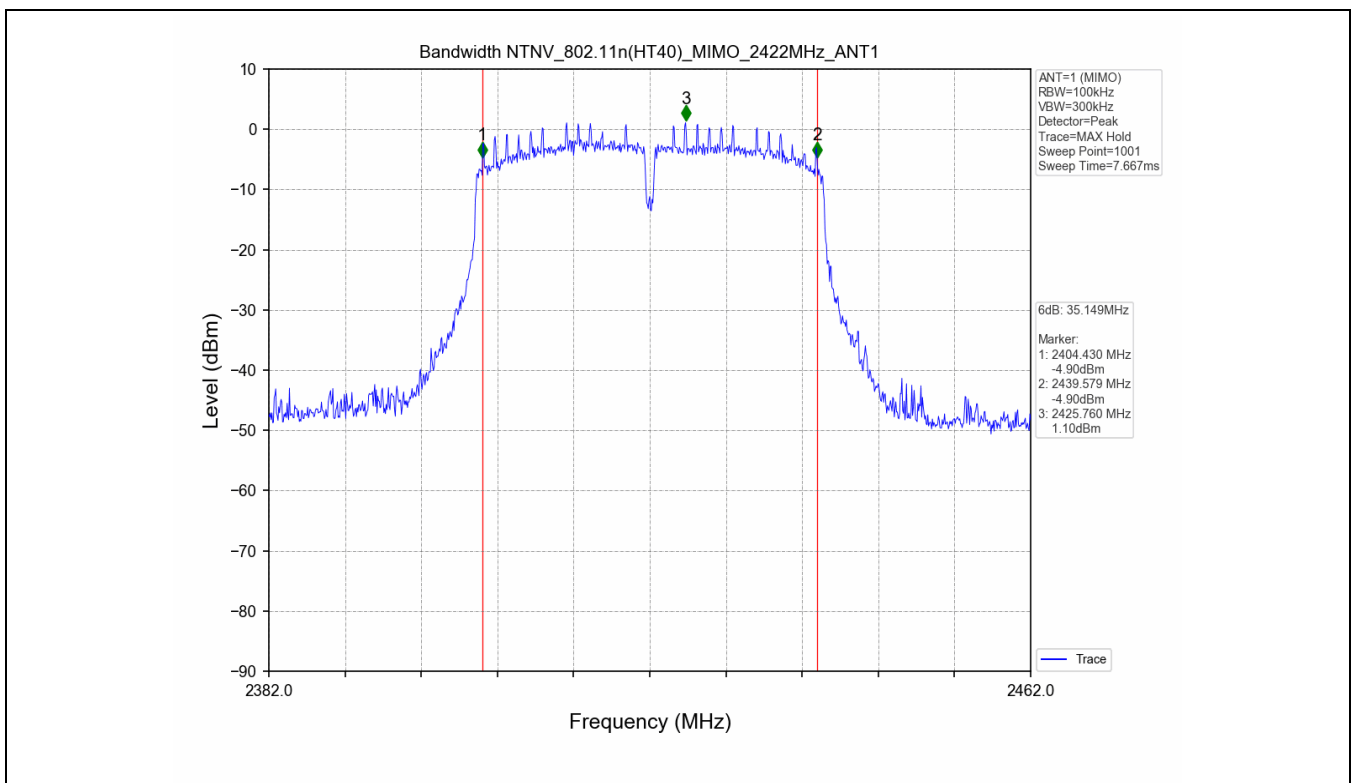
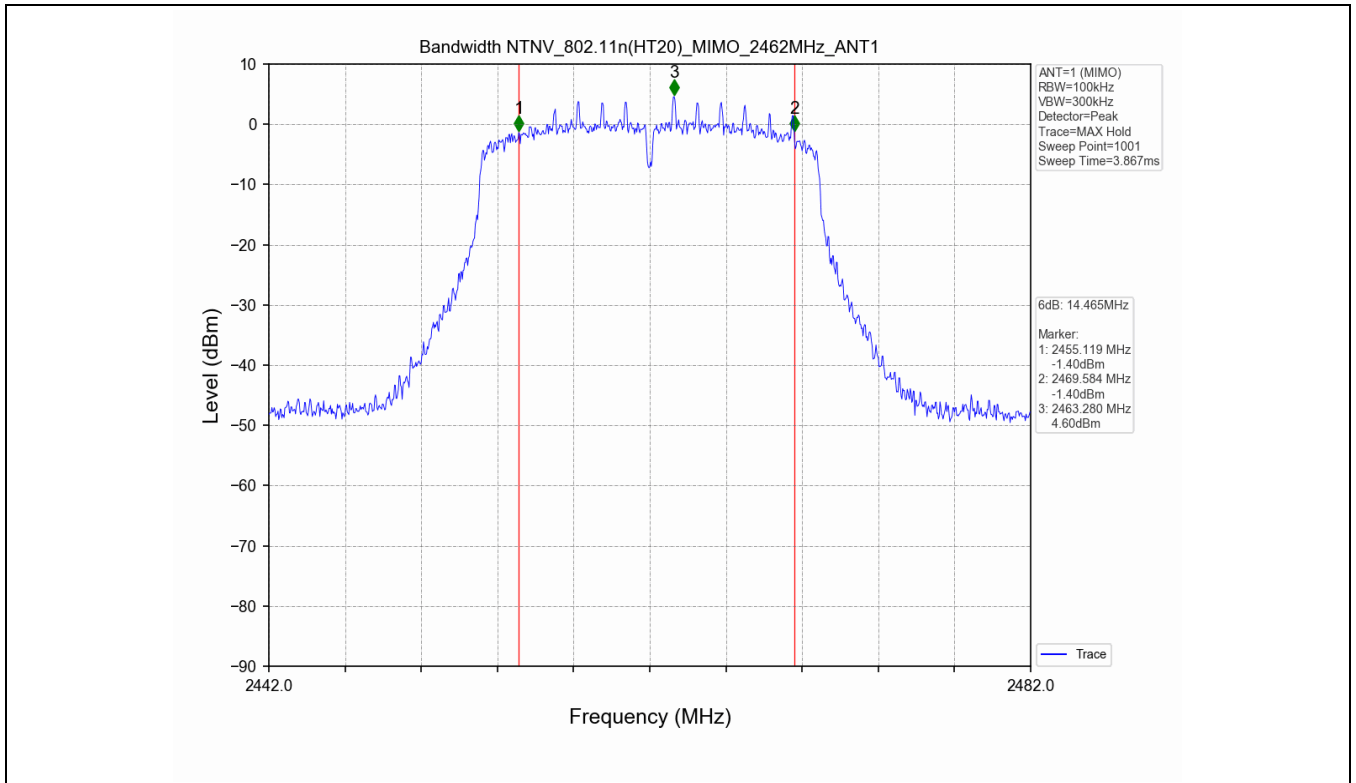
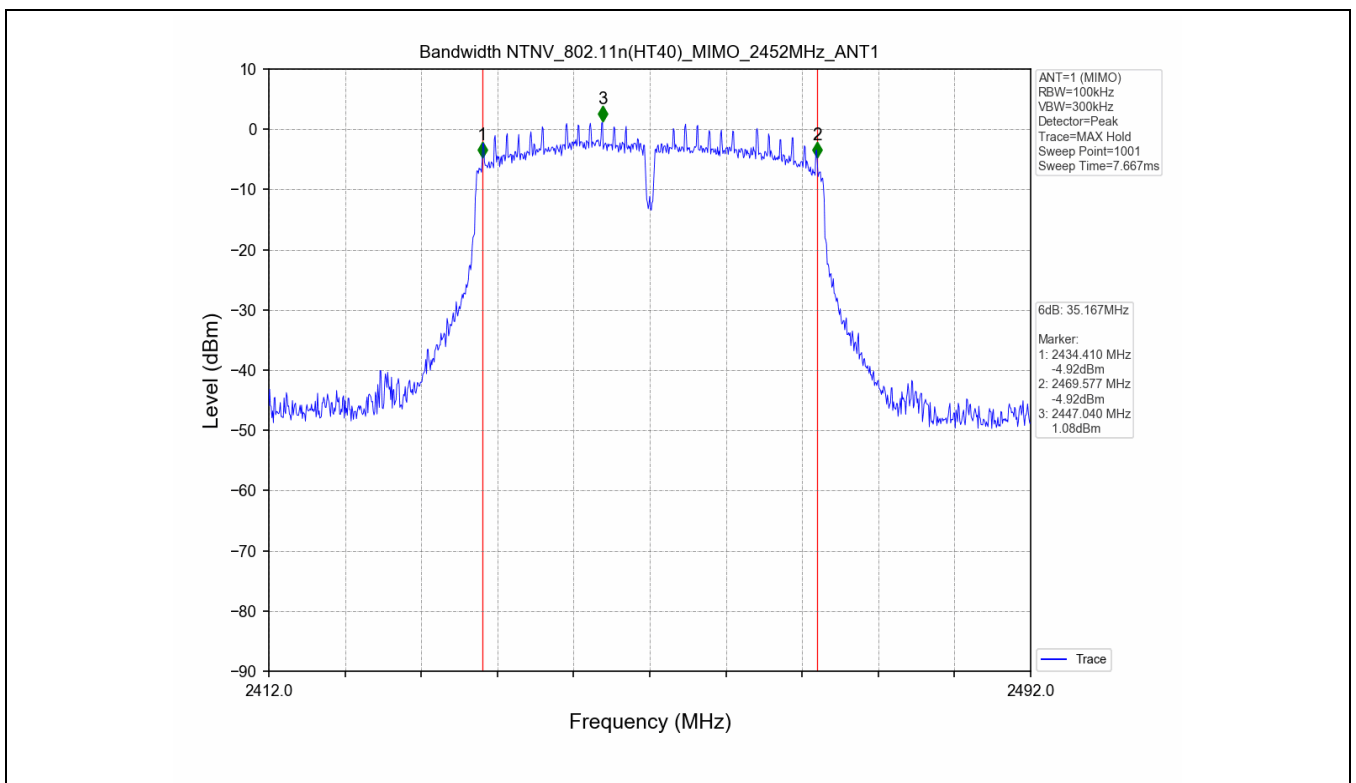
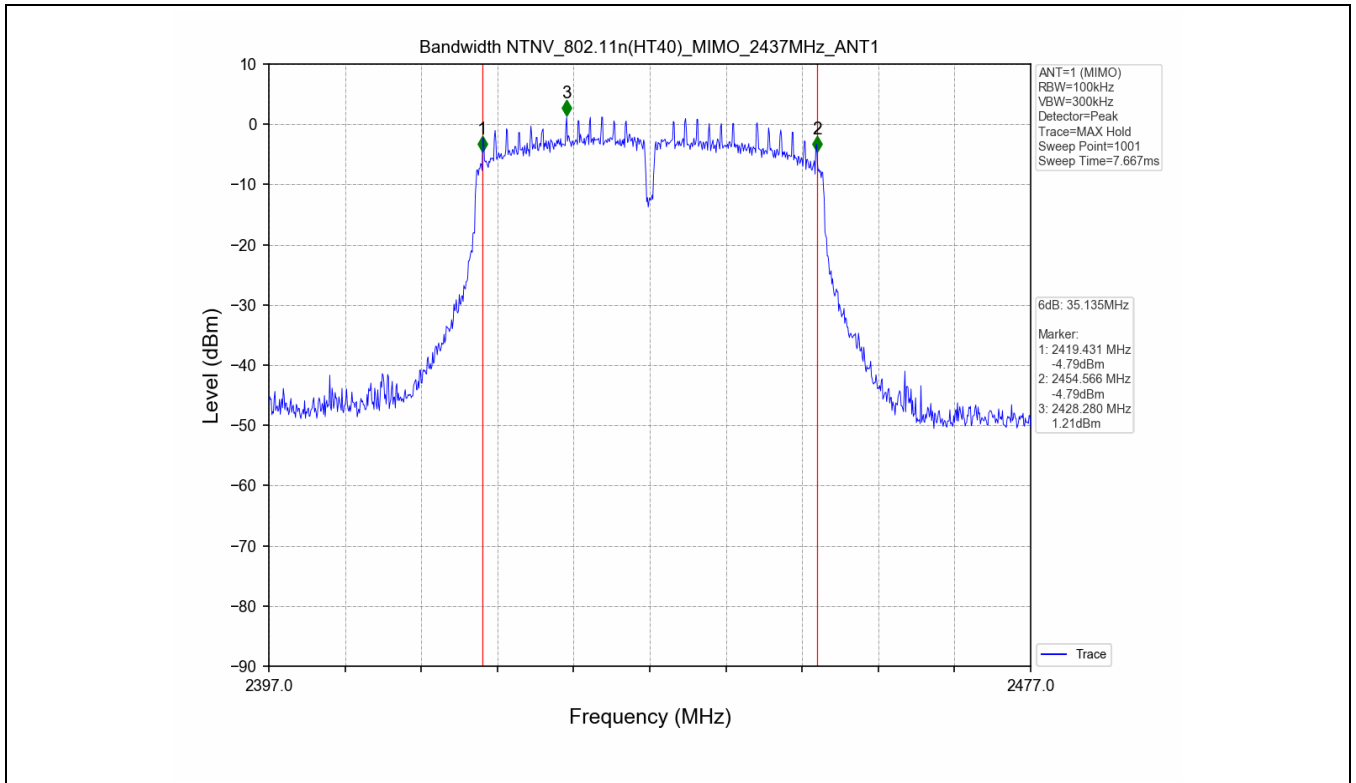












### 3. Maximum Conducted Output Power

#### 3.1 Test Result

| Test Mode     | Frequency (MHz) | Tx Type | Measured Average Output Power (dBm) |       |       | Limits (dBm) | Verdict |
|---------------|-----------------|---------|-------------------------------------|-------|-------|--------------|---------|
|               |                 |         | Ant 1                               | Ant 2 | Total |              |         |
| 802.11b       | 2412            | SISO    | 15.20                               | 14.67 | /     | 30           | PASS    |
|               | 2437            | SISO    | 15.21                               | 14.79 | /     | 30           | PASS    |
|               | 2462            | SISO    | 14.82                               | 14.25 | /     | 30           | PASS    |
| 802.11g       | 2412            | SISO    | 13.61                               | 12.91 | /     | 30           | PASS    |
|               | 2437            | SISO    | 13.80                               | 13.14 | /     | 30           | PASS    |
|               | 2462            | SISO    | 13.31                               | 12.53 | /     | 30           | PASS    |
| 802.11n(HT20) | 2412            | MIMO    | 14.36                               | 14.66 | 17.52 | See note     | PASS    |
|               | 2437            | MIMO    | 14.48                               | 14.90 | 17.71 | See note     | PASS    |
|               | 2462            | MIMO    | 14.00                               | 14.31 | 17.17 | See note     | PASS    |
| 802.11n(HT40) | 2422            | MIMO    | 14.76                               | 15.02 | 17.90 | See note     | PASS    |
|               | 2437            | MIMO    | 14.64                               | 15.23 | 17.96 | See note     | PASS    |
|               | 2452            | MIMO    | 14.55                               | 14.84 | 17.71 | See note     | PASS    |

**\*Remark**

For Sinclair antenna:

Since the number of transmit antennas is less than 4, Array gain=0dB.

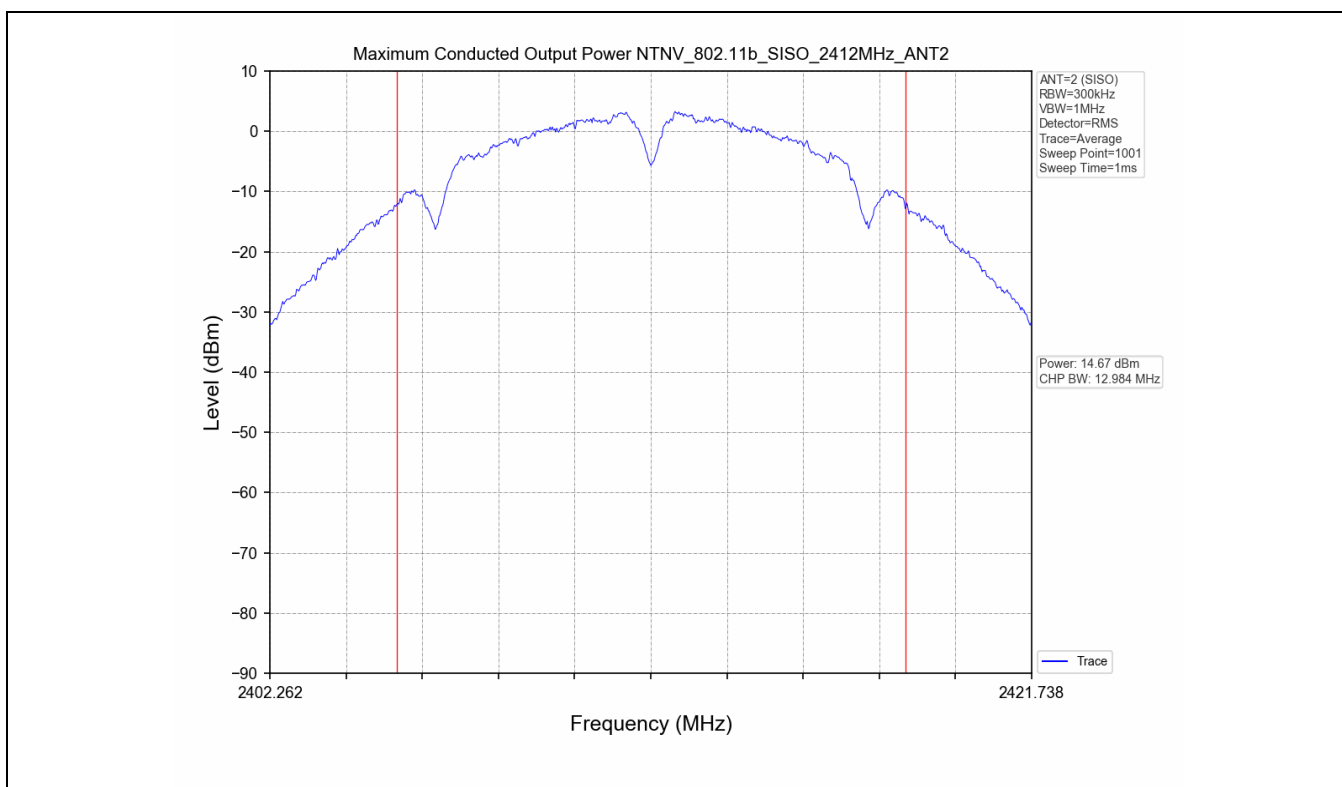
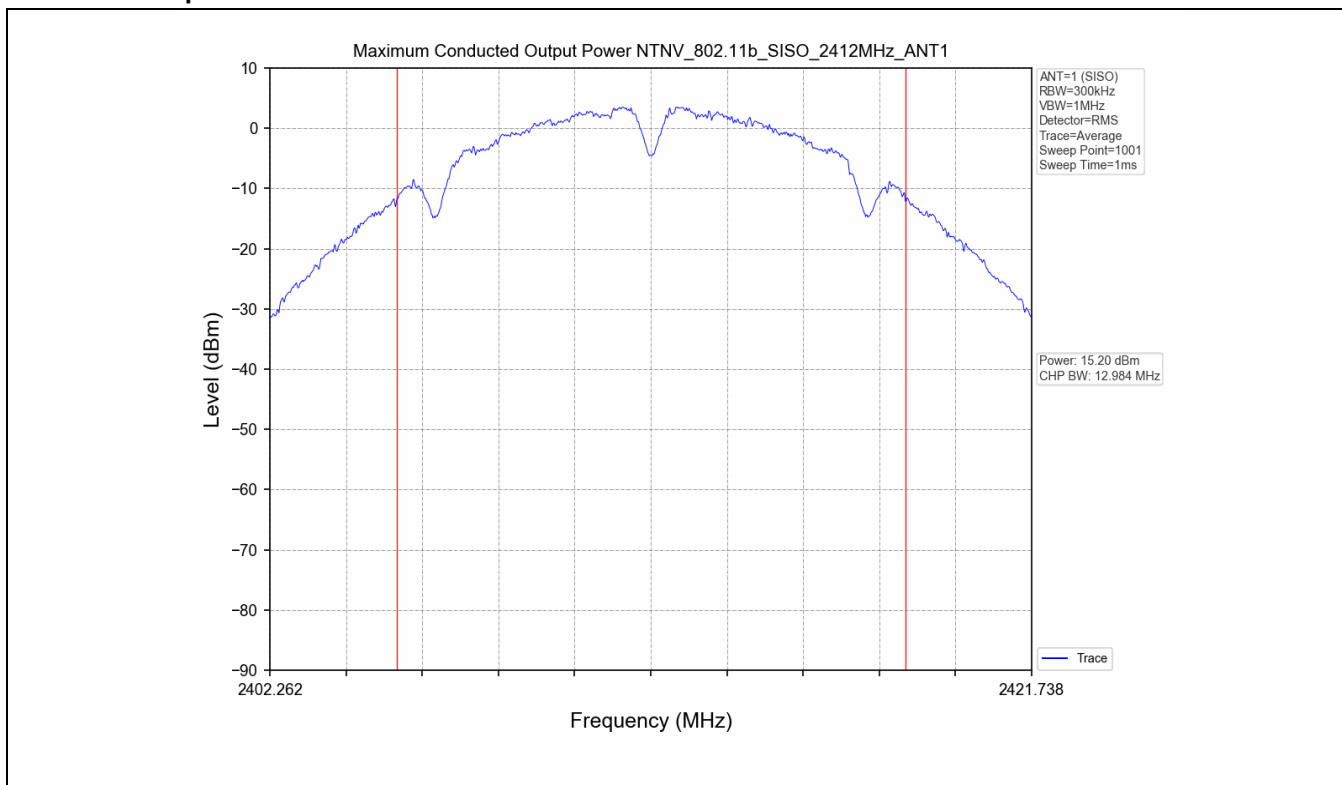
So, the limit of 802.11b/g/n is 30.00dBm.

For SANAV antenna:

Directional gain =  $G_{ANT} + 10 \cdot \log(N_{ANT}/N_{SS}) = 4.55 + 10 \cdot \log(2/1) = 7.56\text{dBi}$ .

So, the limit of 802.11b/g/n is 28.44dBm.

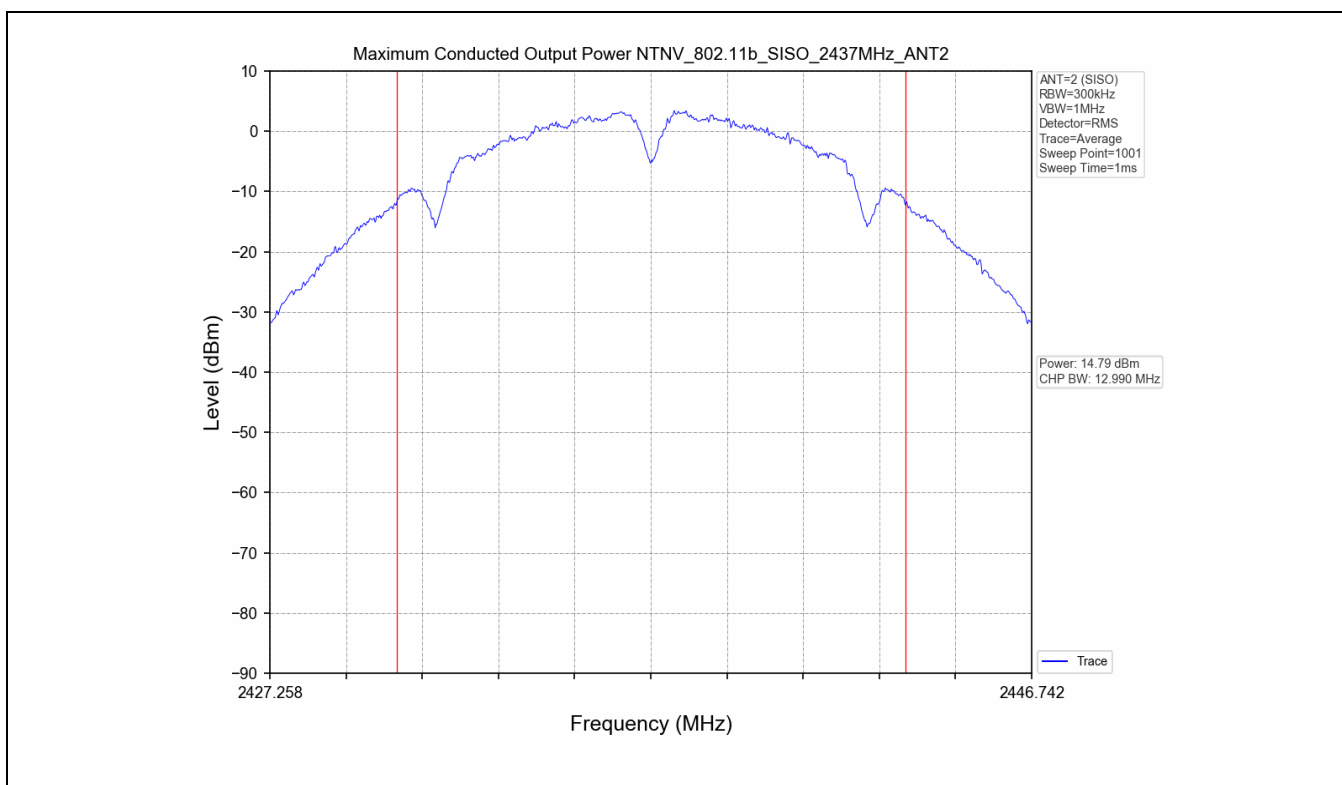
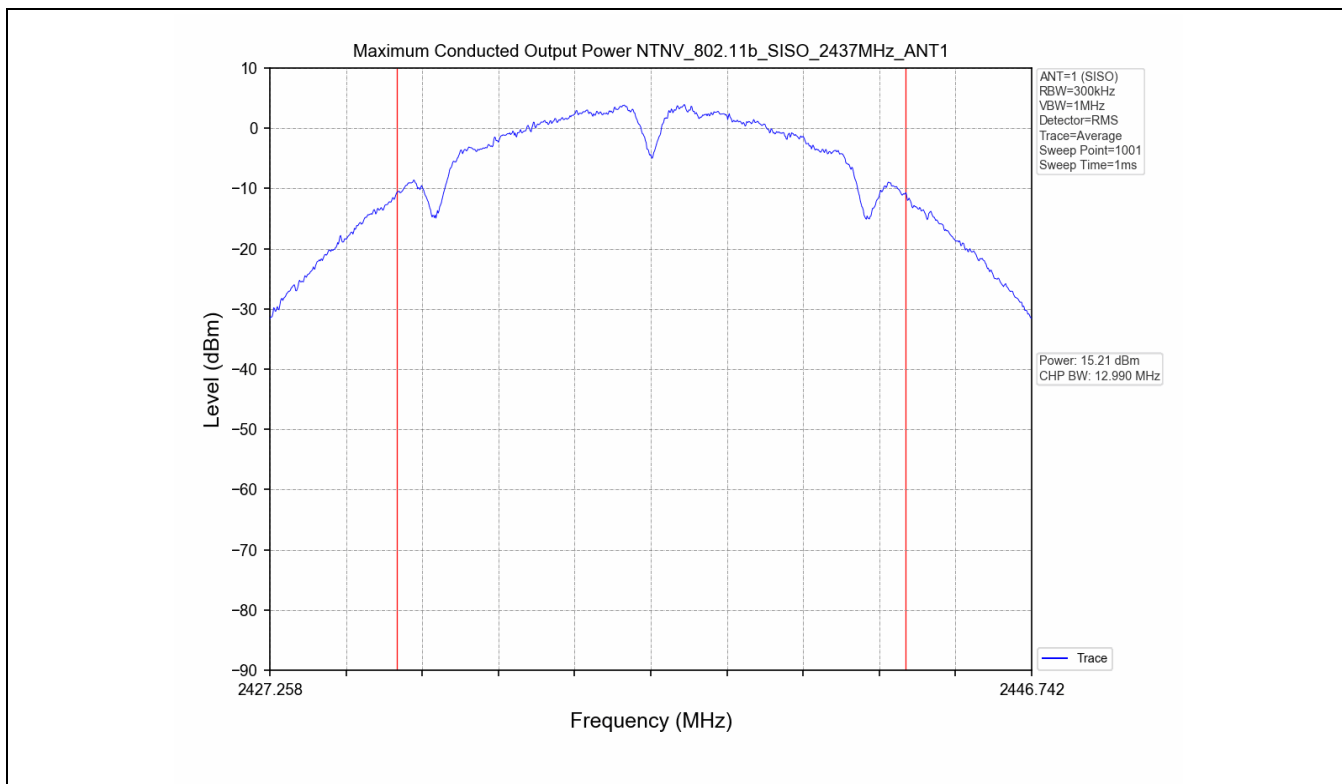
### 3.2 Test Graph

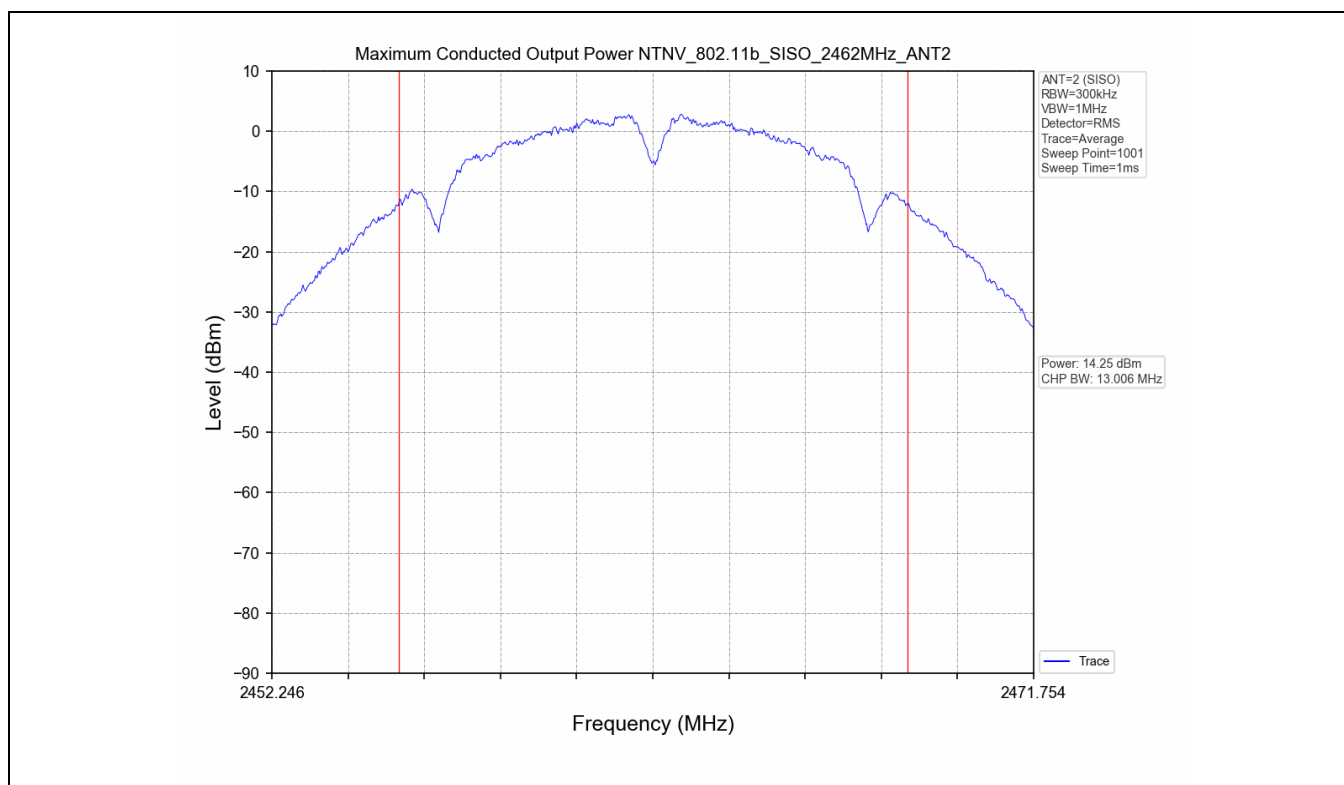
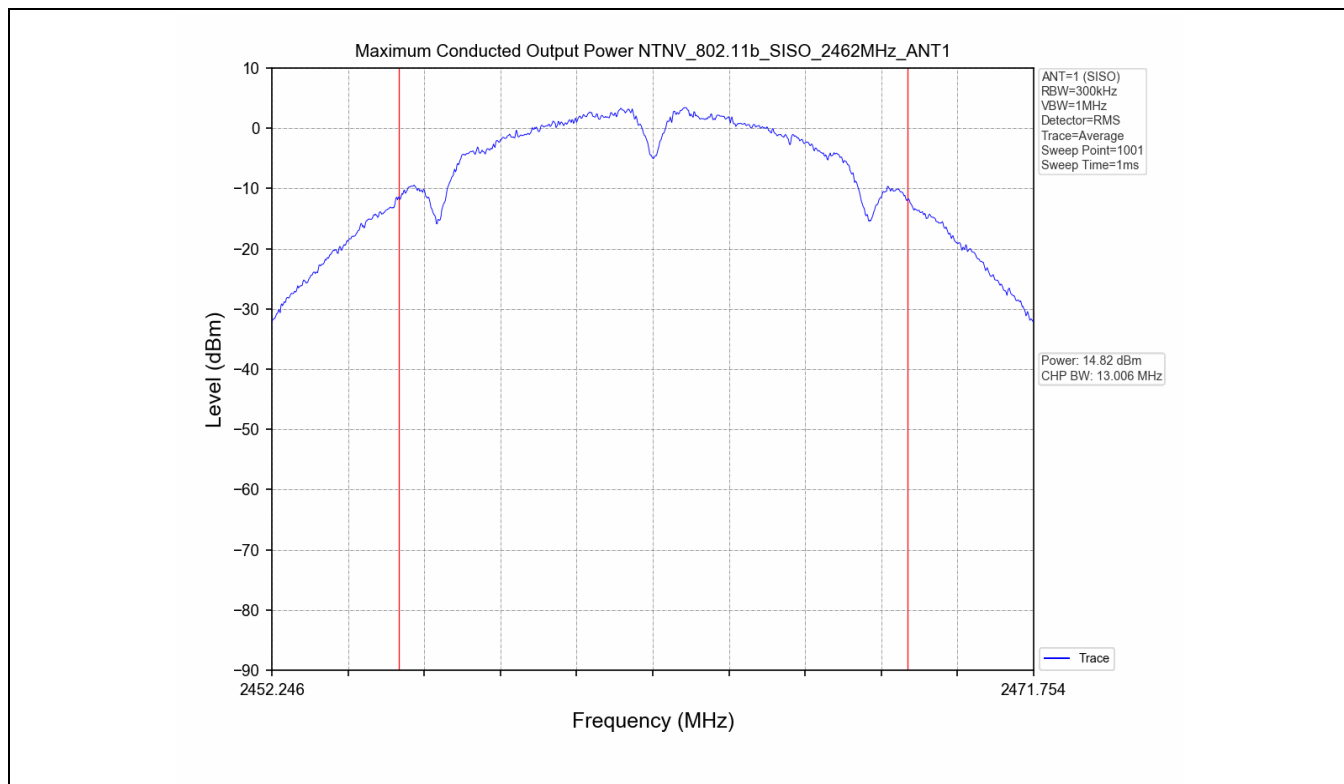


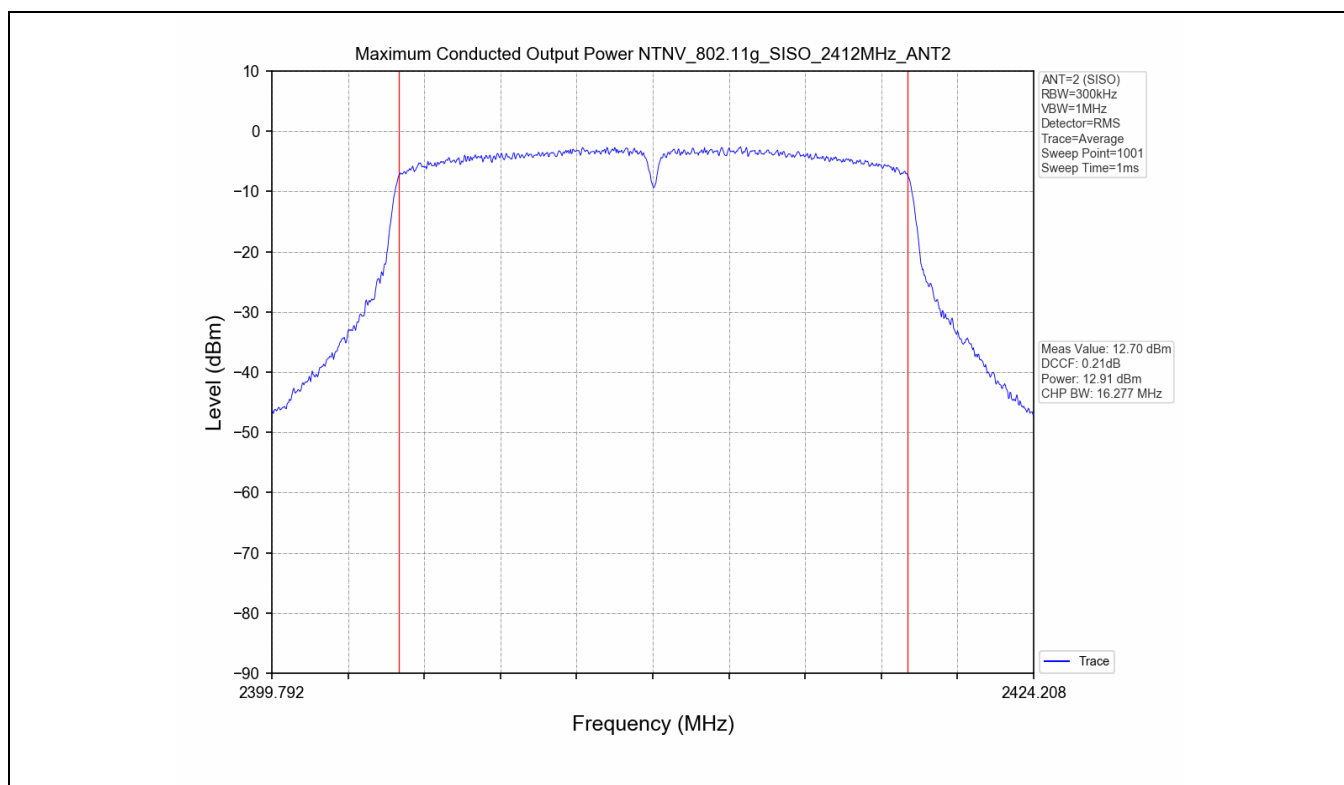
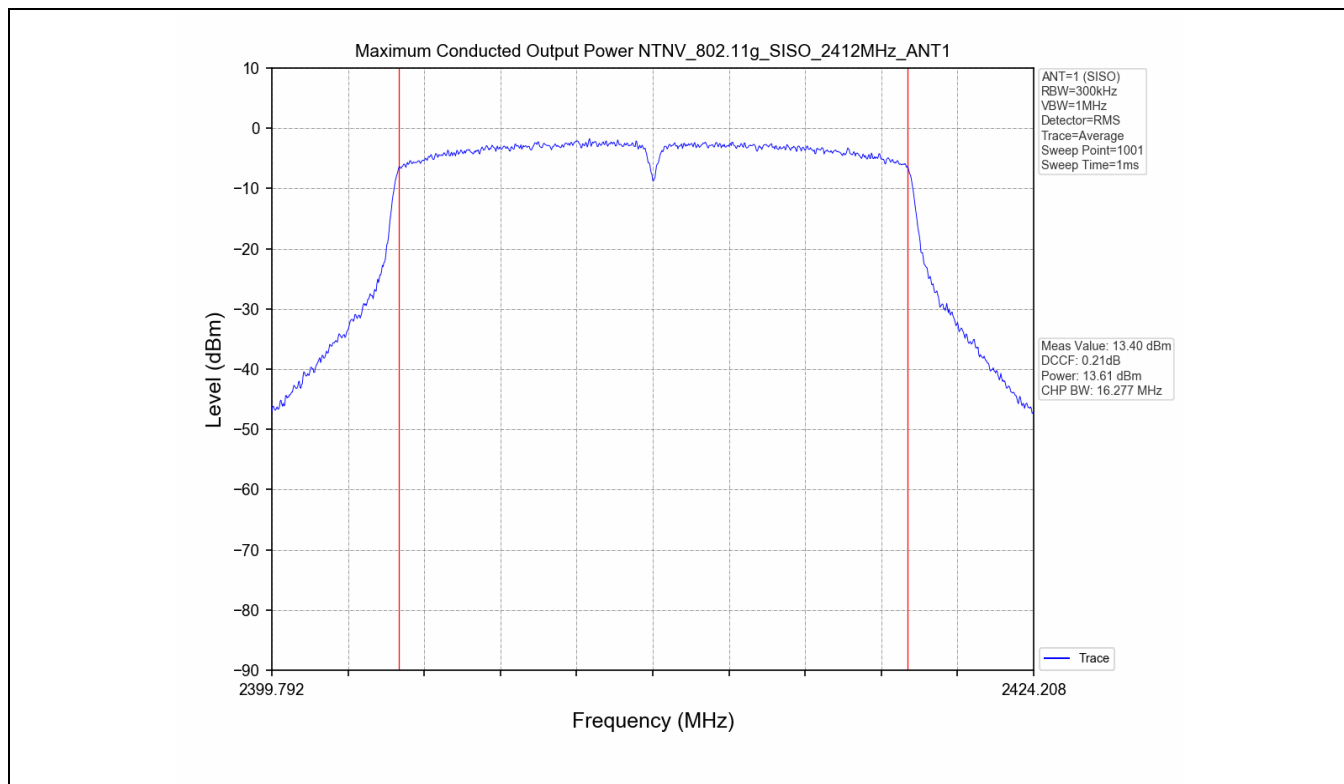
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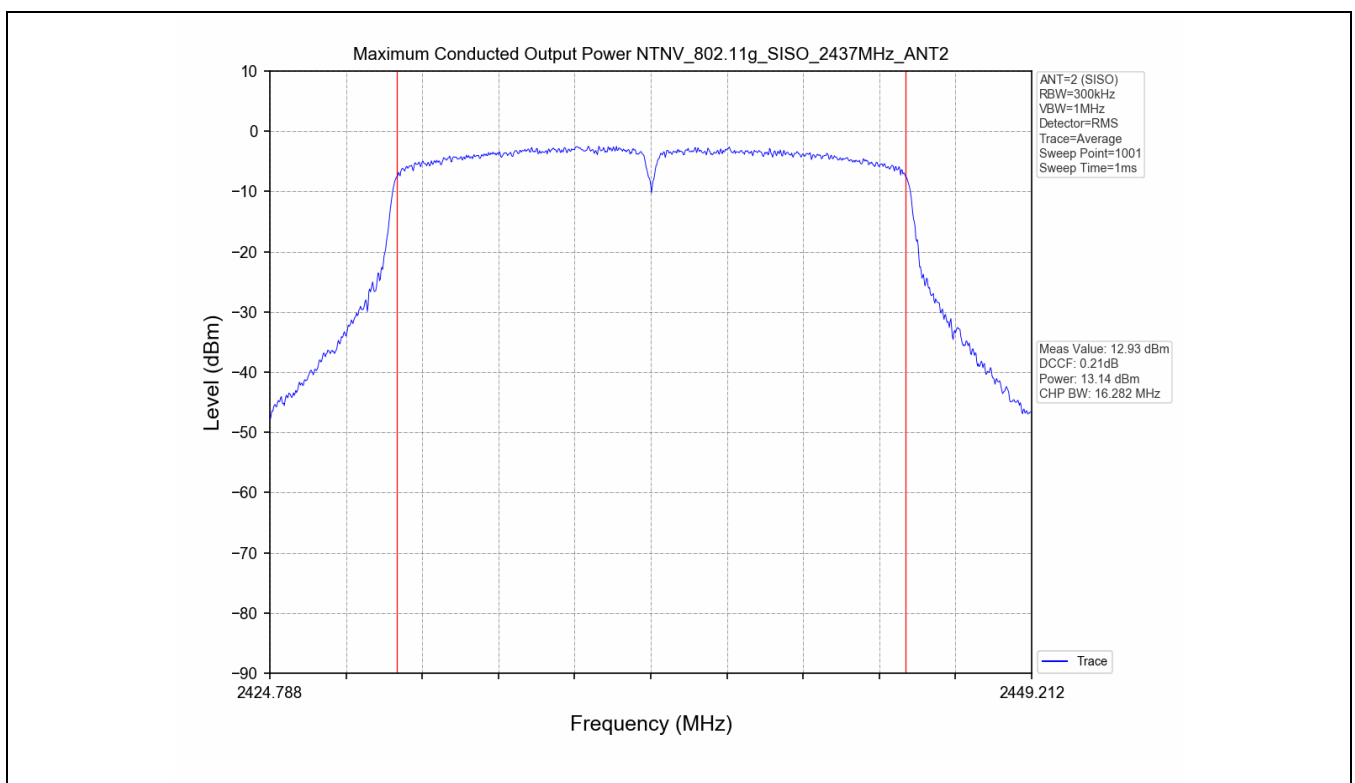
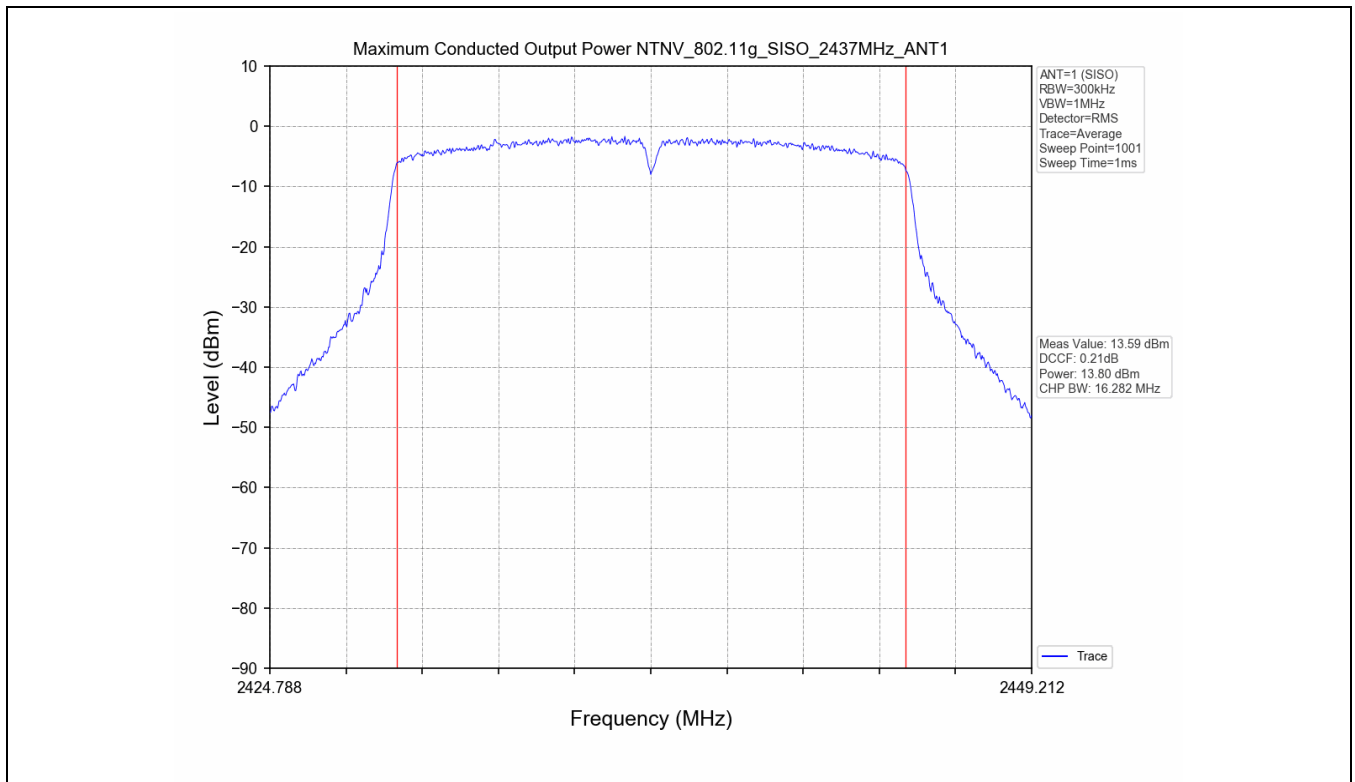


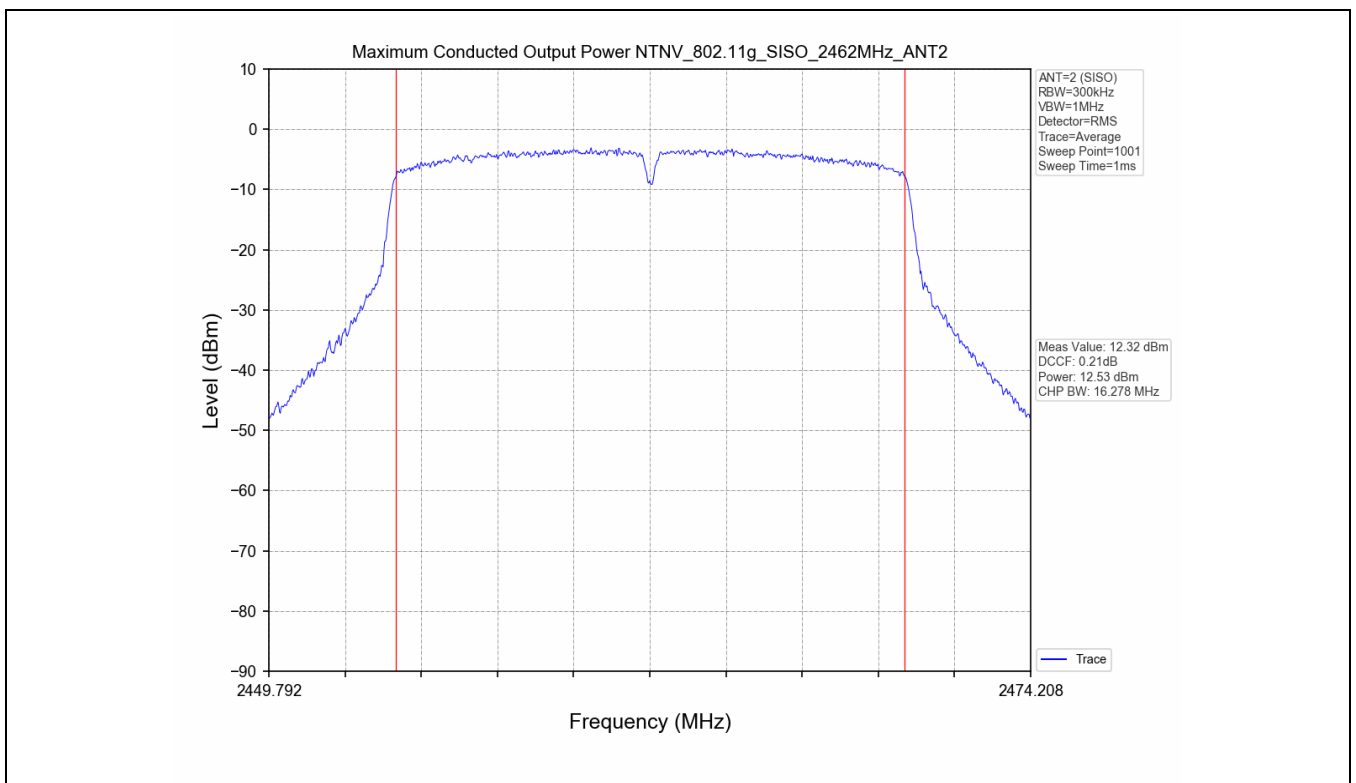
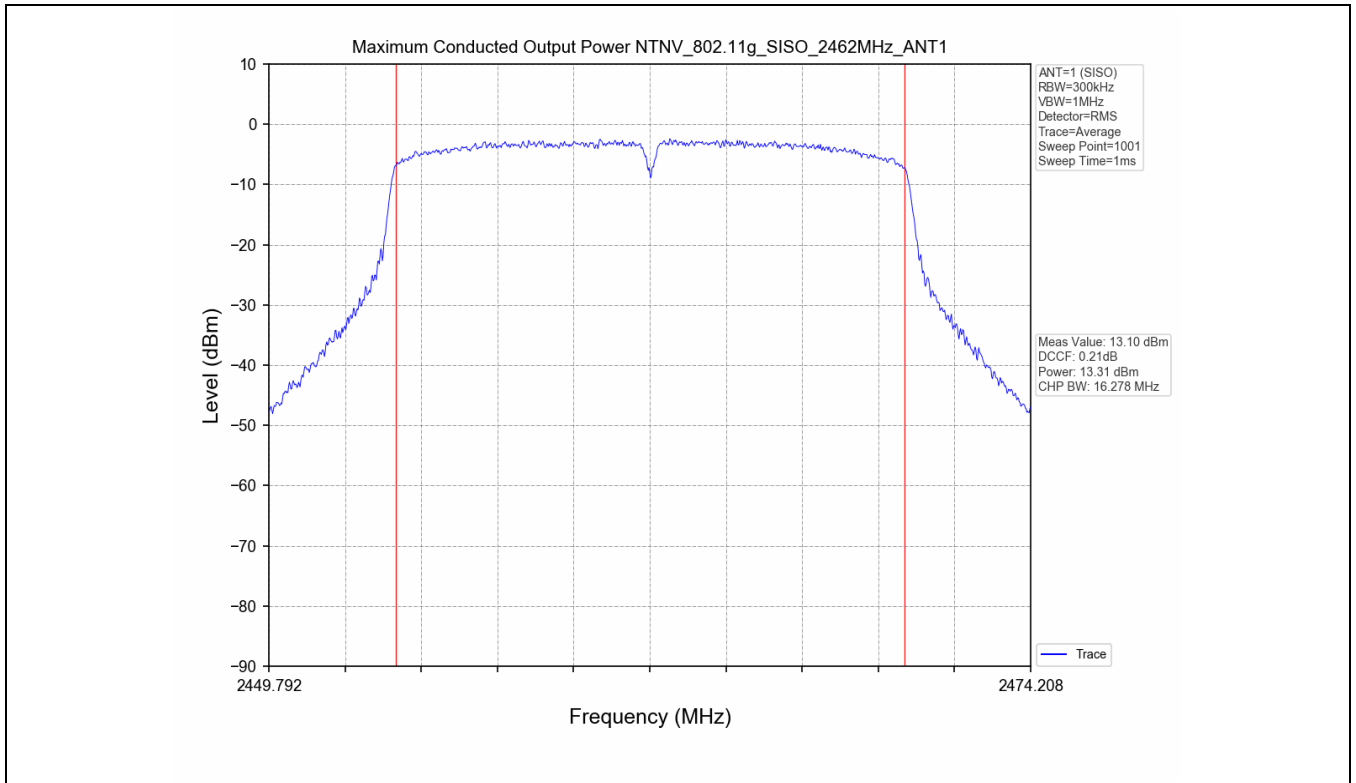
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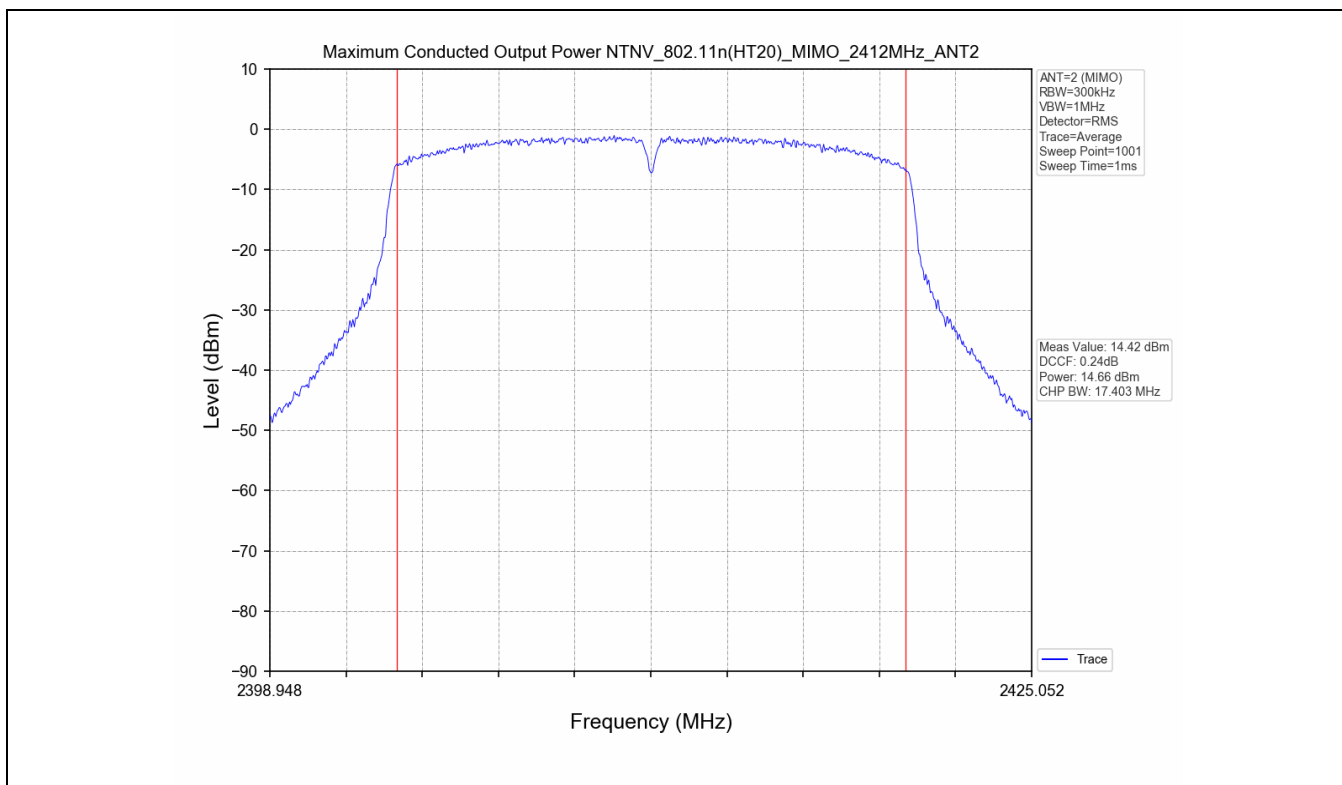
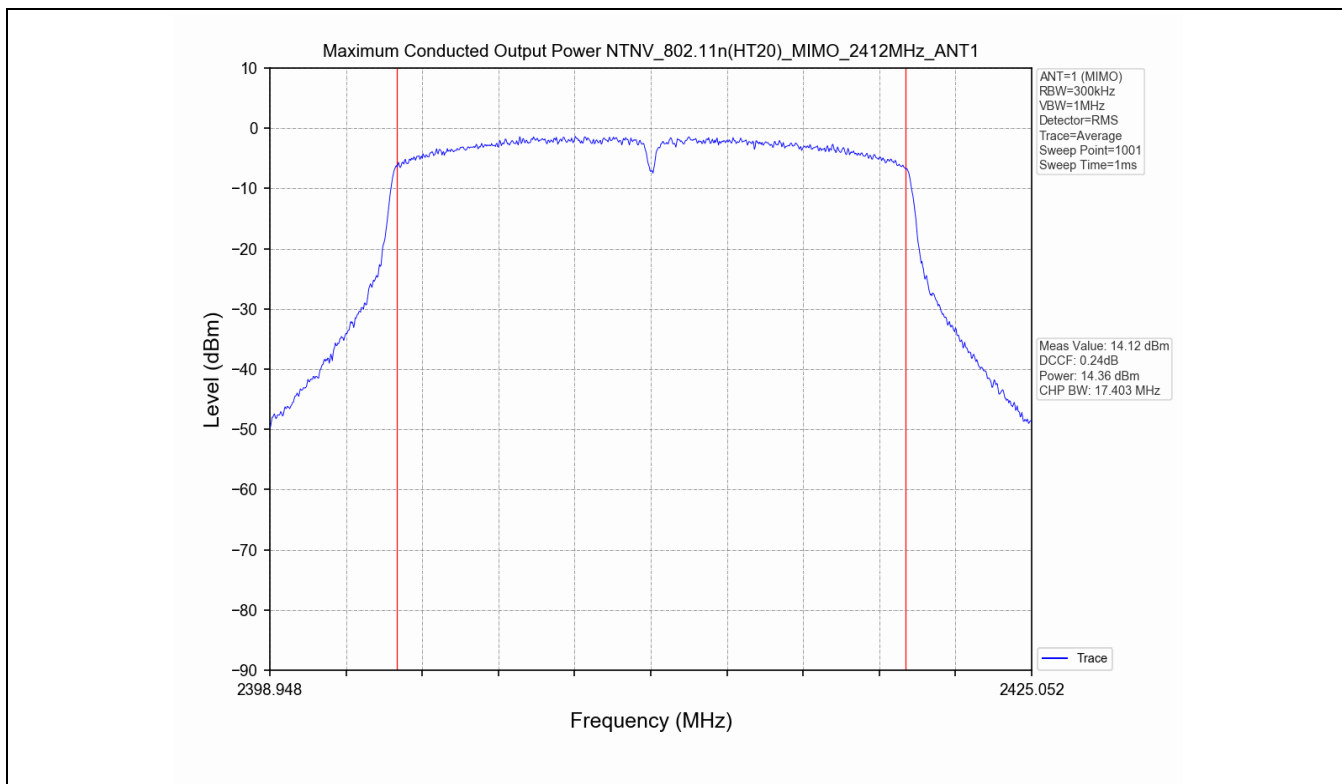
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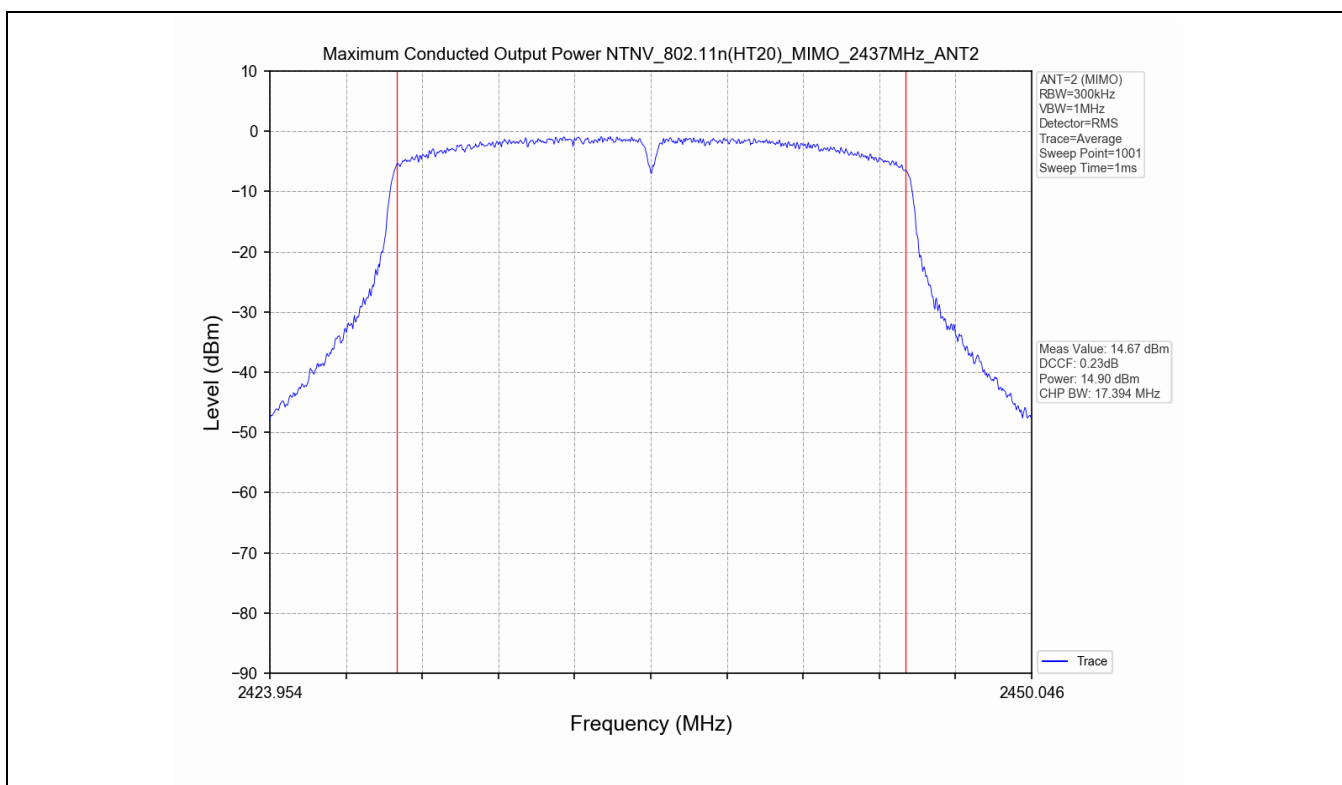
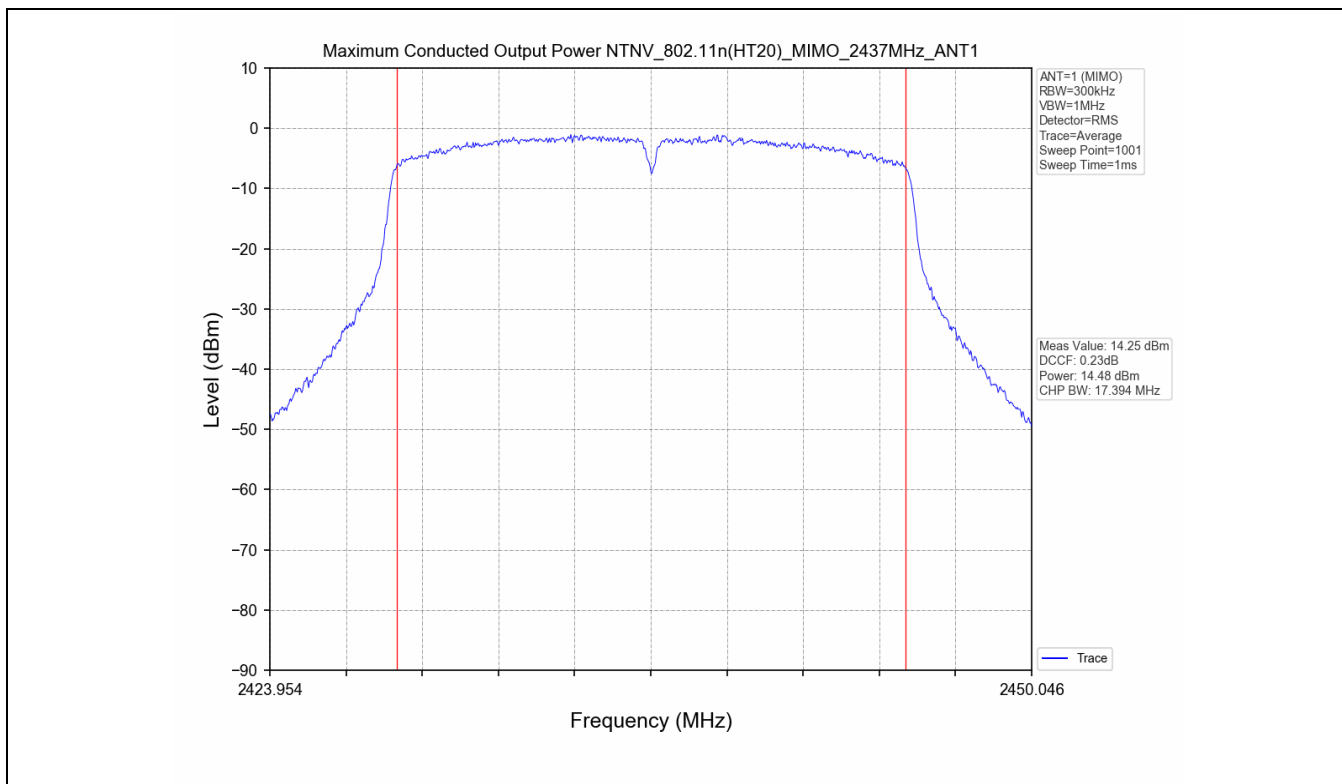
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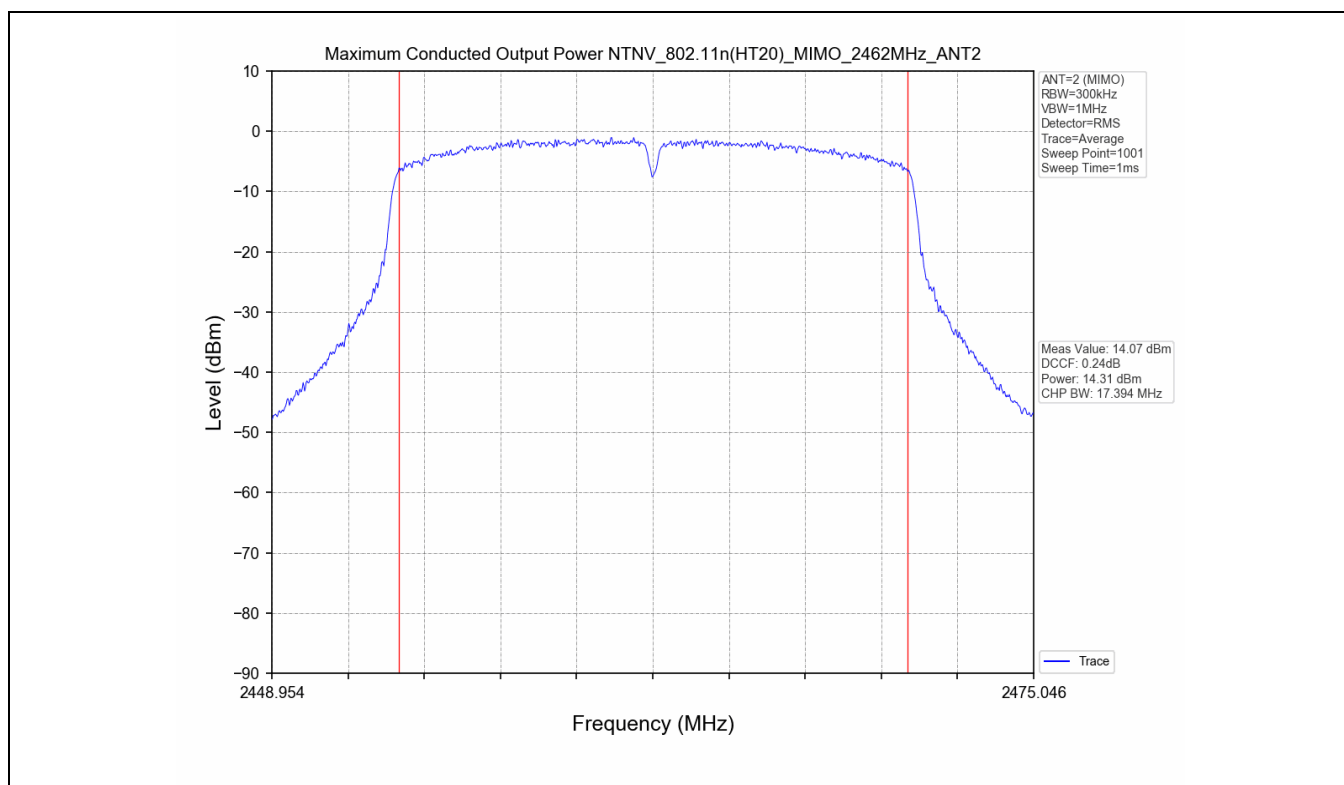
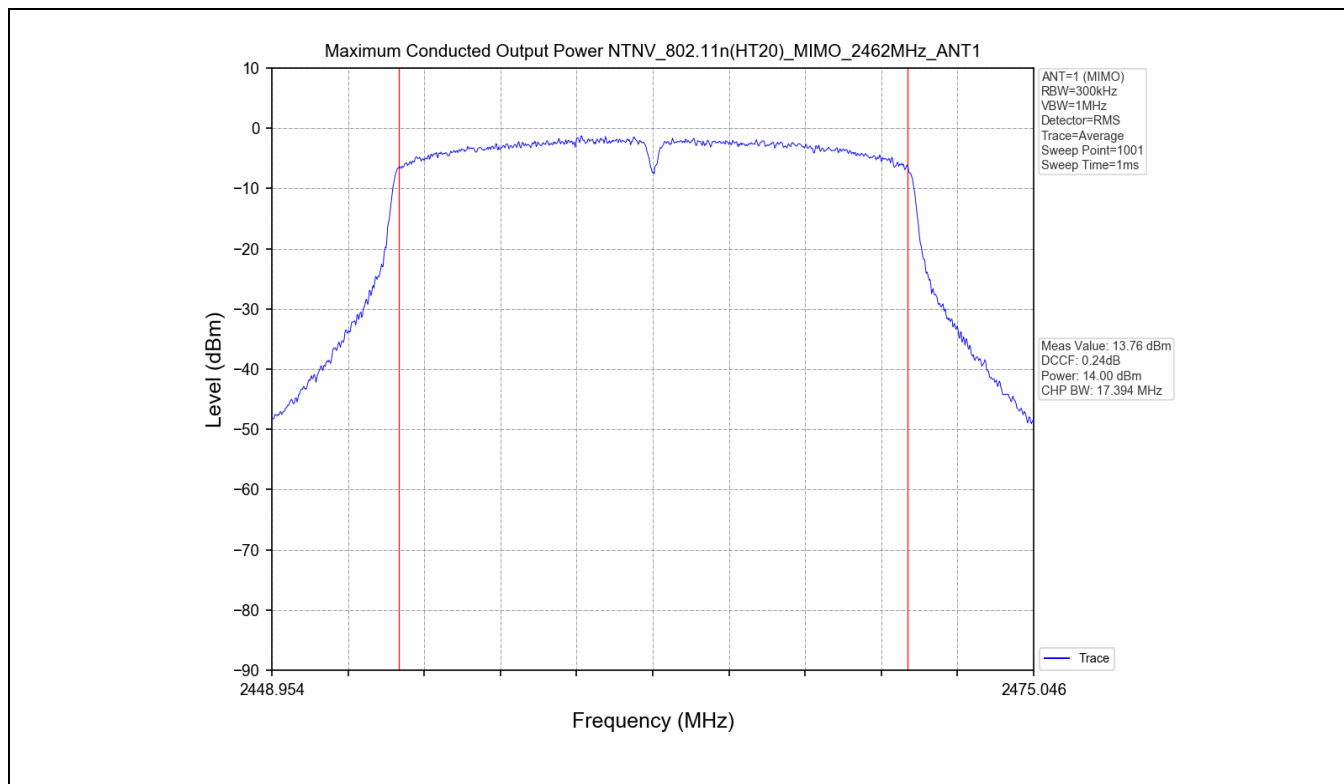
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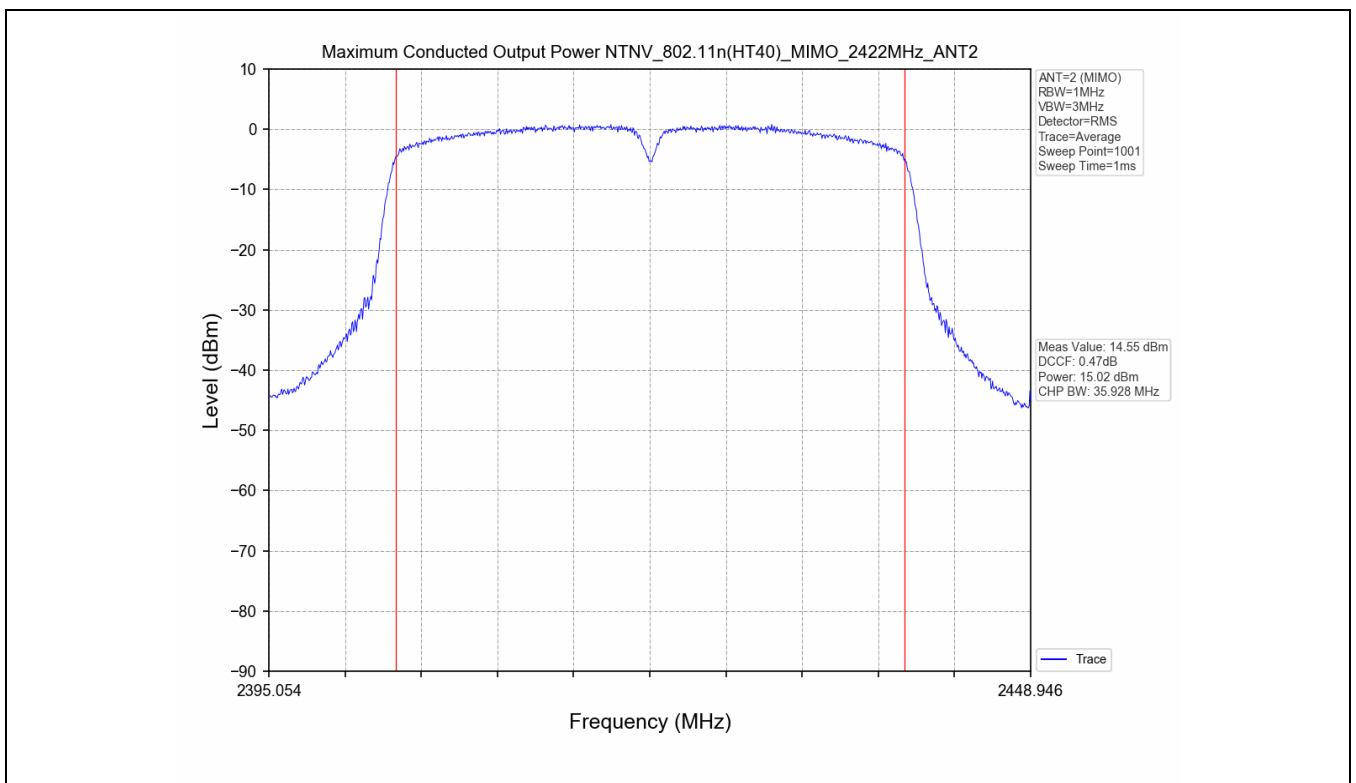
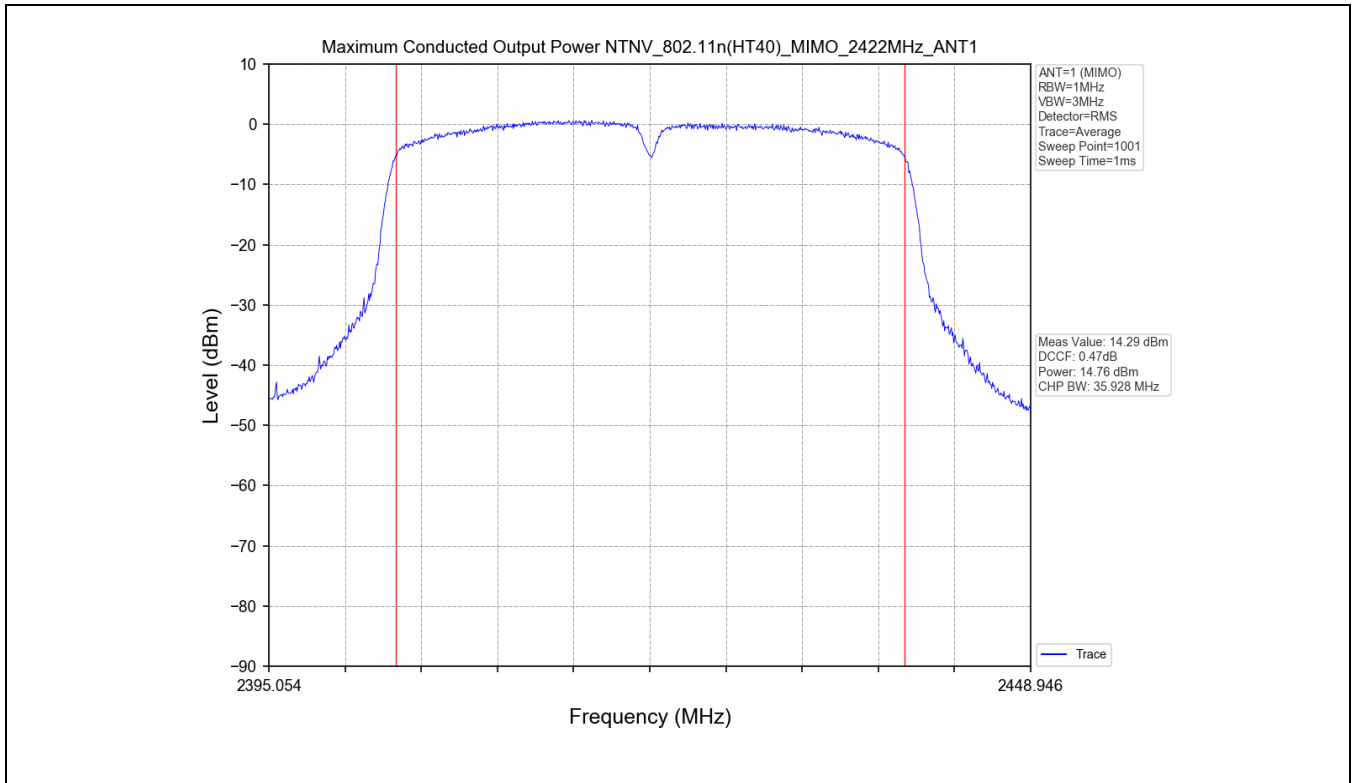


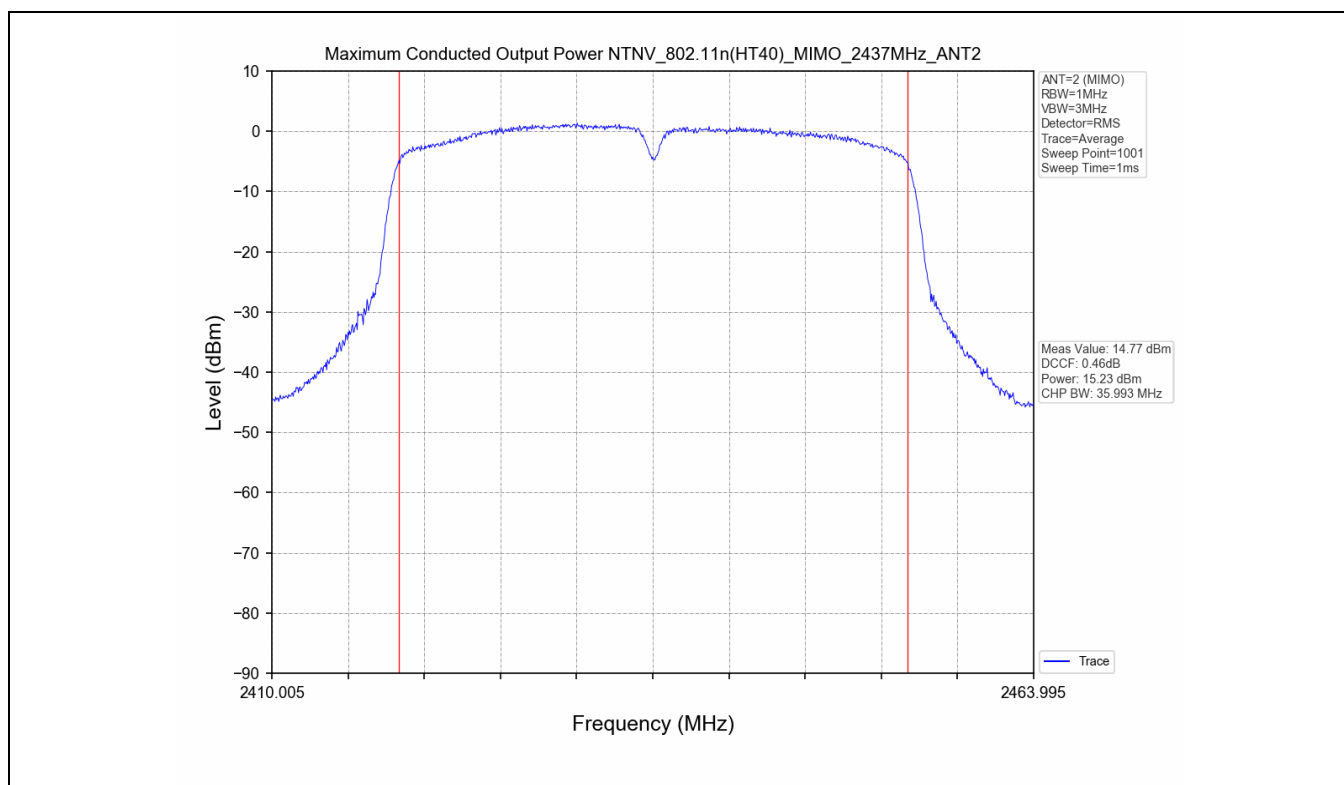
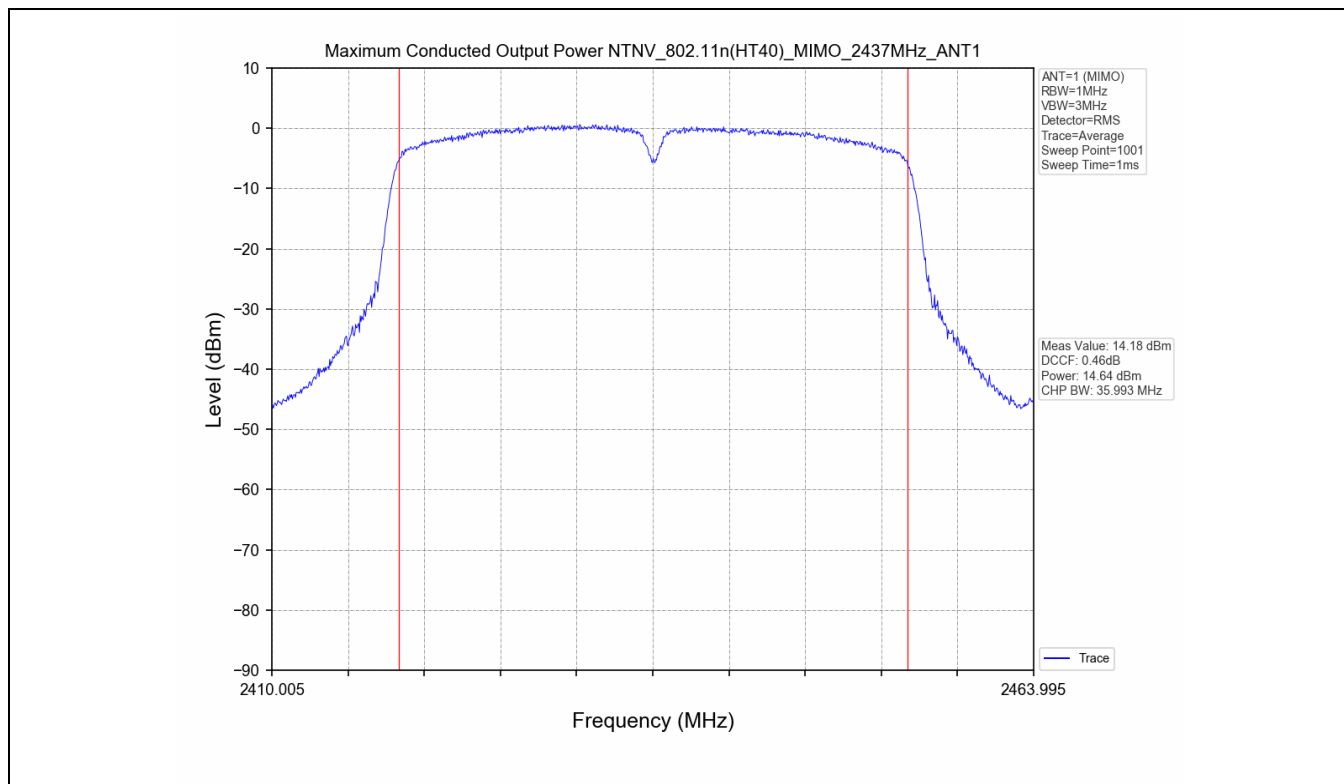


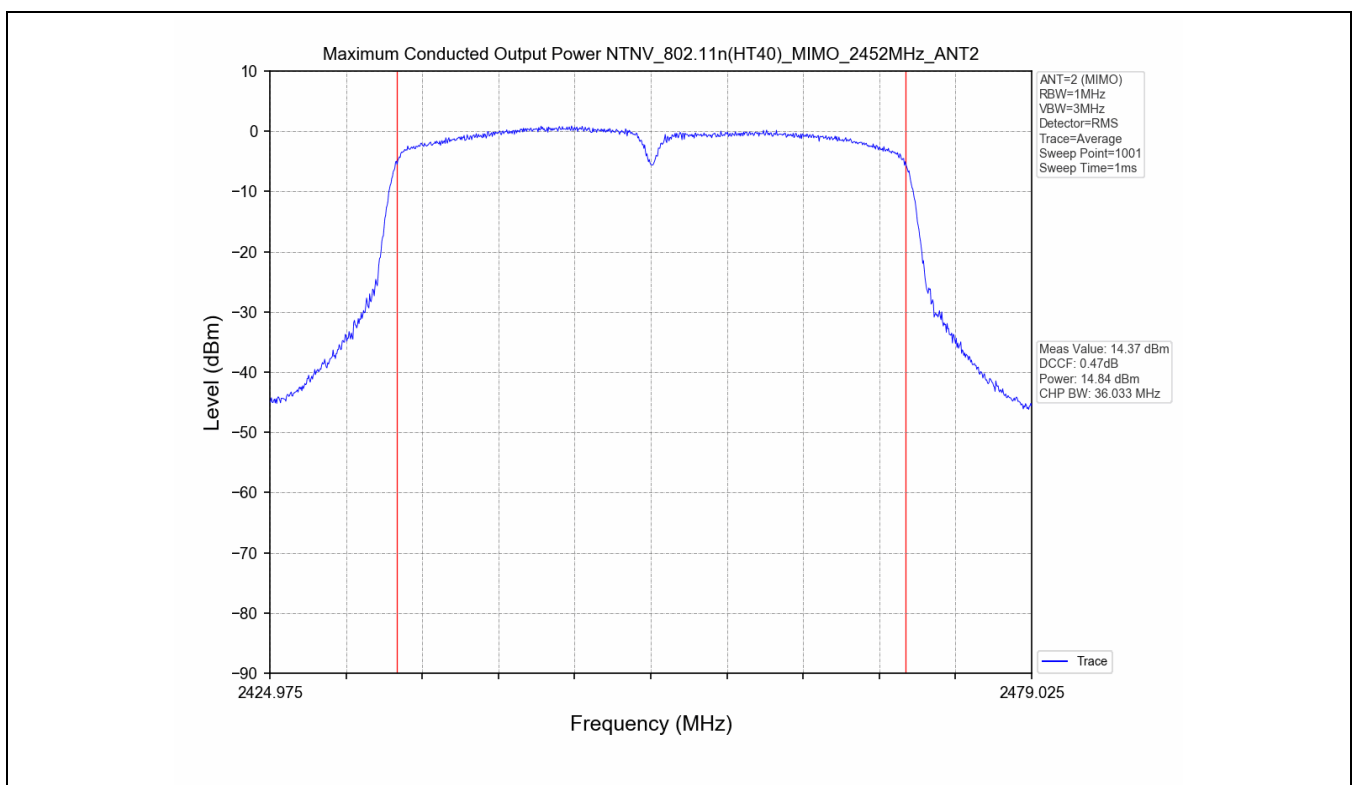
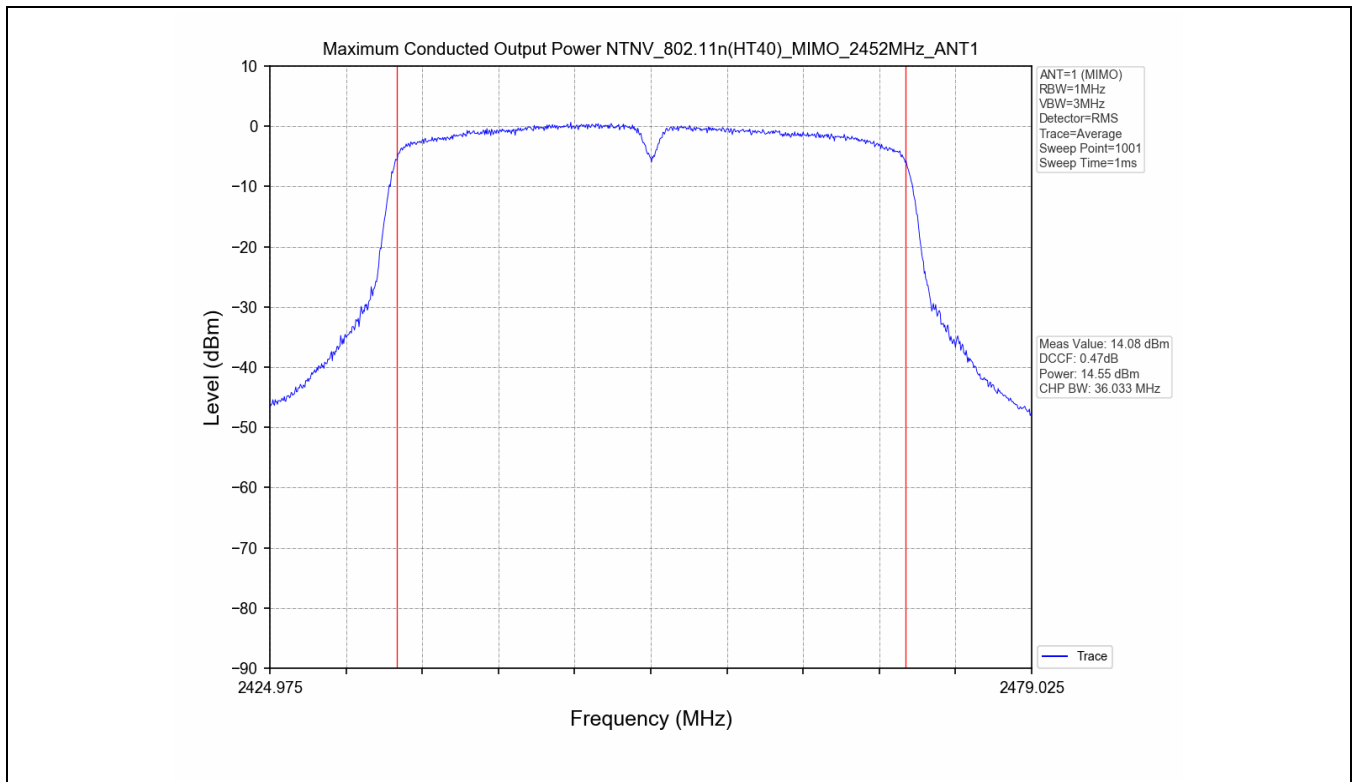












## 4. Maximum Power Spectral Density (PSD)

### 4.1 Test Result

| Test Mode     | Frequency (MHz) | Tx Type | Maximum Power Spectral Density (dBm/3KHz) |        |        | Limits (dBm/3kHz) | Verdict |
|---------------|-----------------|---------|-------------------------------------------|--------|--------|-------------------|---------|
|               |                 |         | Ant 1                                     | Ant 2  | Total  |                   |         |
| 802.11b       | 2412            | SISO    | -4.92                                     | -6.47  | /      | ≤8                | PASS    |
|               | 2437            | SISO    | -6.45                                     | -5.69  | /      | ≤8                | PASS    |
|               | 2462            | SISO    | -6.53                                     | -7.59  | /      | ≤8                | PASS    |
| 802.11g       | 2412            | SISO    | -9.21                                     | -12.17 | /      | ≤8                | PASS    |
|               | 2437            | SISO    | -9.36                                     | -10.46 | /      | ≤8                | PASS    |
|               | 2462            | SISO    | -10.36                                    | -10.68 | /      | ≤8                | PASS    |
| 802.11n(HT20) | 2412            | MIMO    | -9.17                                     | -9.94  | -7.12  | See note          | PASS    |
|               | 2437            | MIMO    | -9.06                                     | -9.90  | -7.33  | See note          | PASS    |
|               | 2462            | MIMO    | -9.55                                     | -10.02 | -7.38  | See note          | PASS    |
| 802.11n(HT40) | 2422            | MIMO    | -12.15                                    | -12.09 | -10.26 | See note          | PASS    |
|               | 2437            | MIMO    | -13.09                                    | -12.43 | -10.47 | See note          | PASS    |
|               | 2452            | MIMO    | -13.75                                    | -12.40 | -10.35 | See note          | PASS    |

**\*Remark**

For Sinclair antenna:

Since the number of transmit antennas is less than 4, Array gain=0dB.

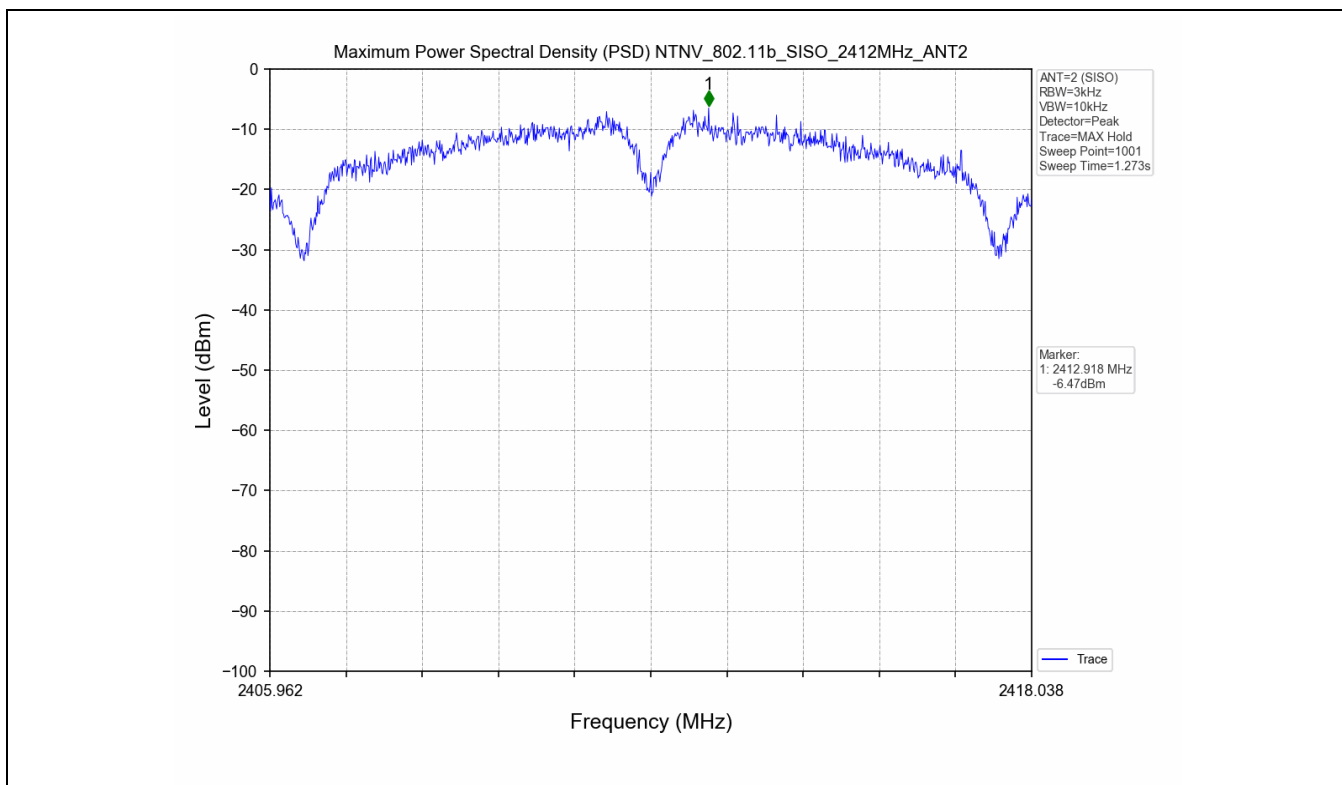
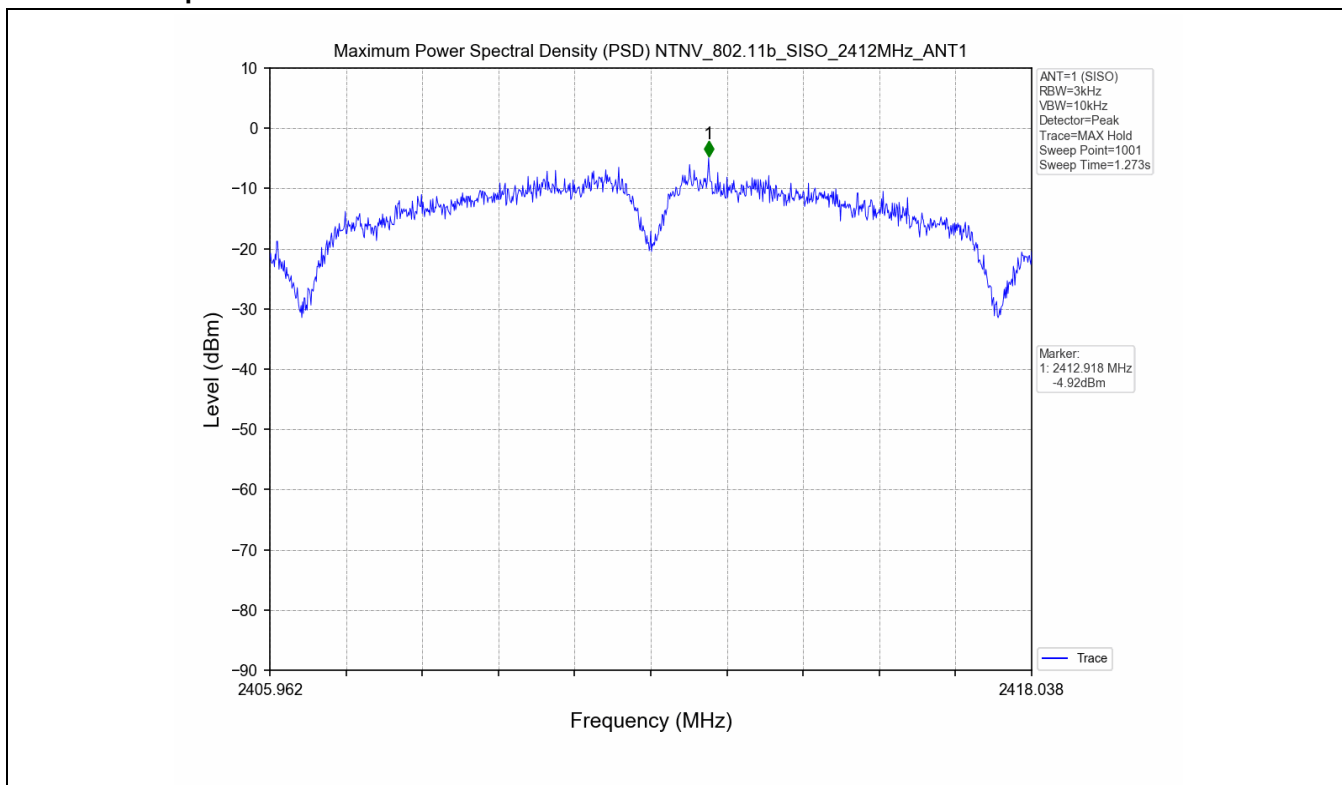
So, the limit of 802.11b/g/n is 8dBm/3KHz.

For SANAV antenna:

Directional gain =  $G_{ANT} + 10 \cdot \log(N_{ANT}/N_{SS}) = 4.55 + 10 \cdot \log(2/1) = 7.56\text{dBi}$ .

So, the limit of 802.11b/g/n is 6.44dBm/3KHz.

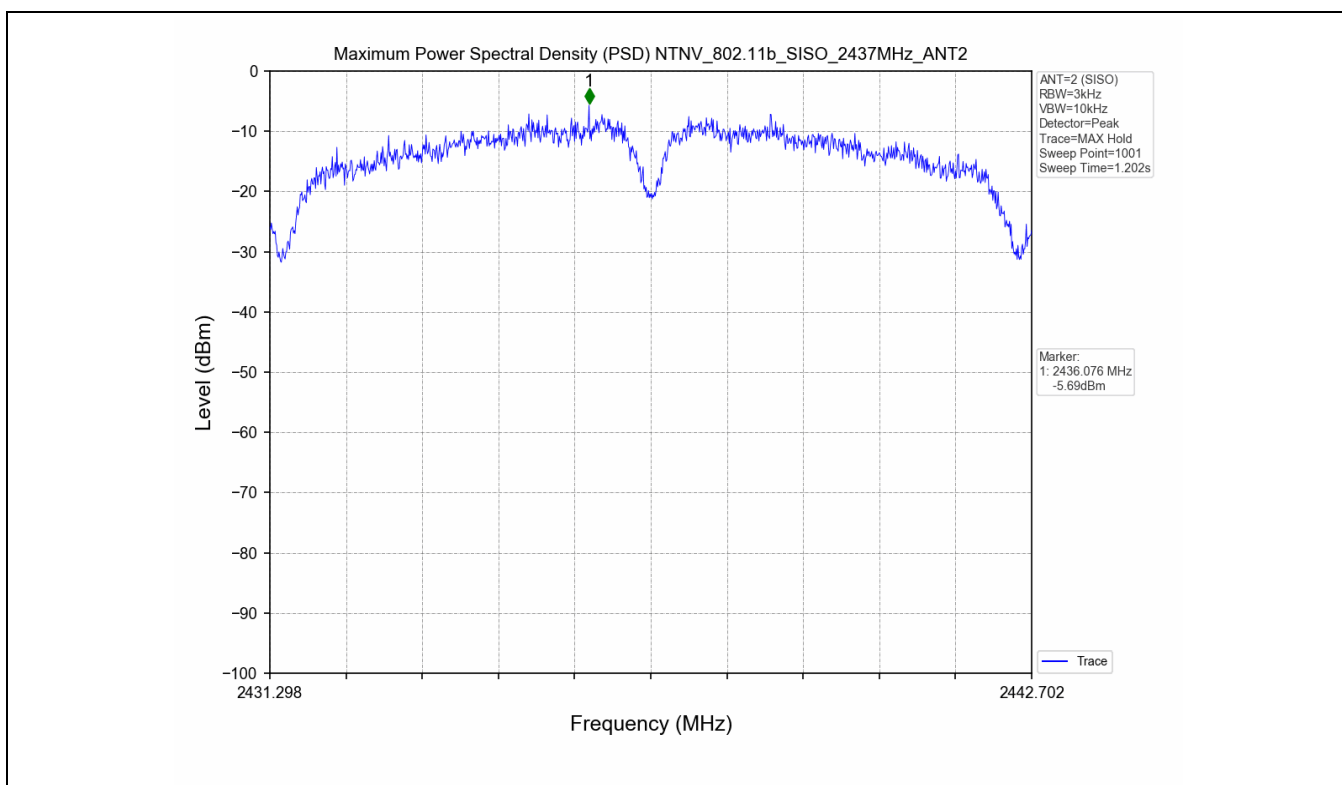
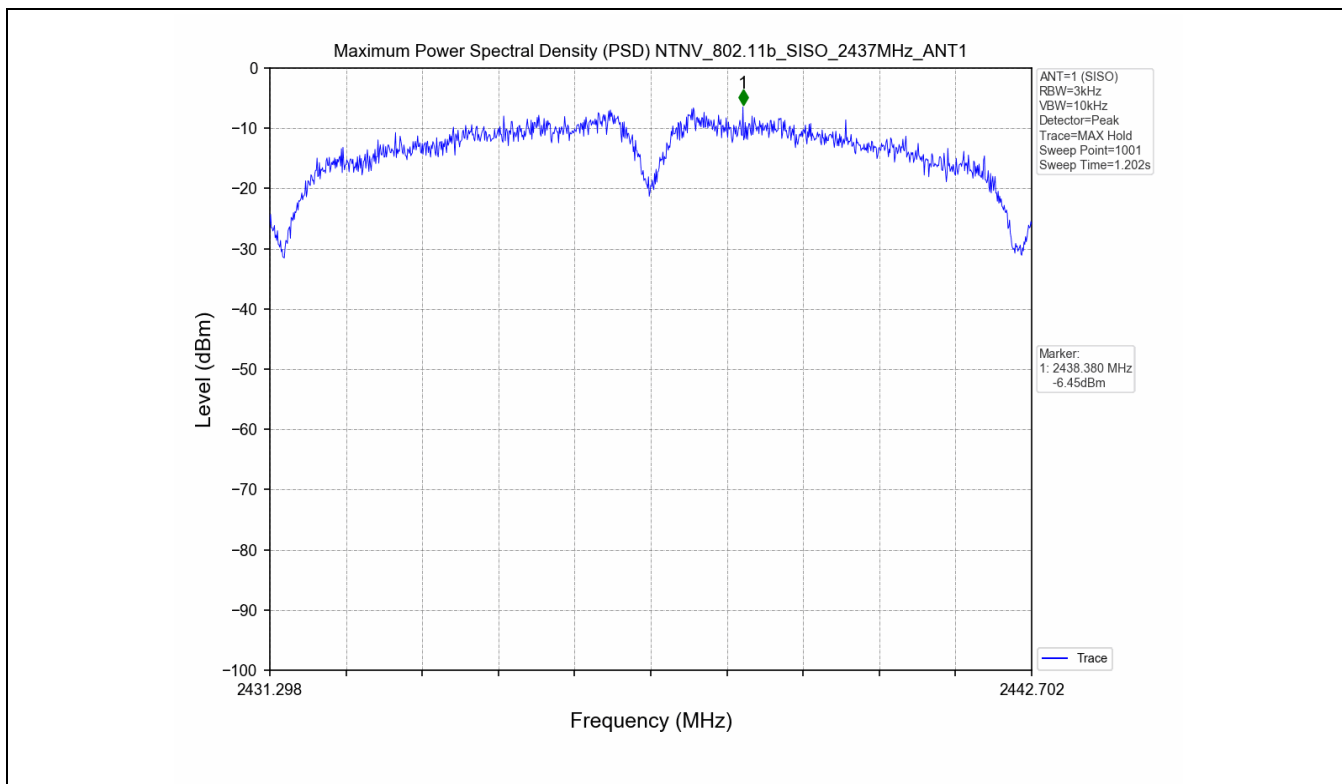
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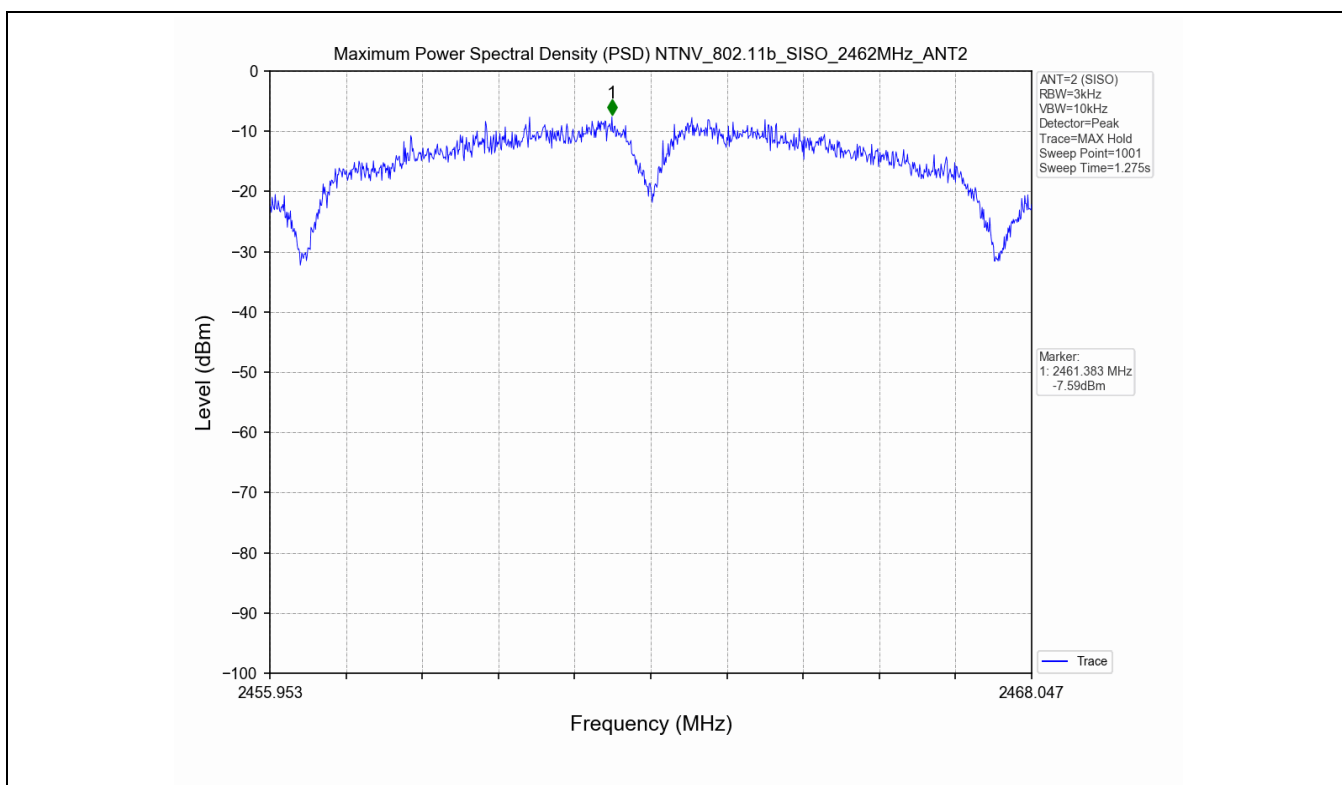
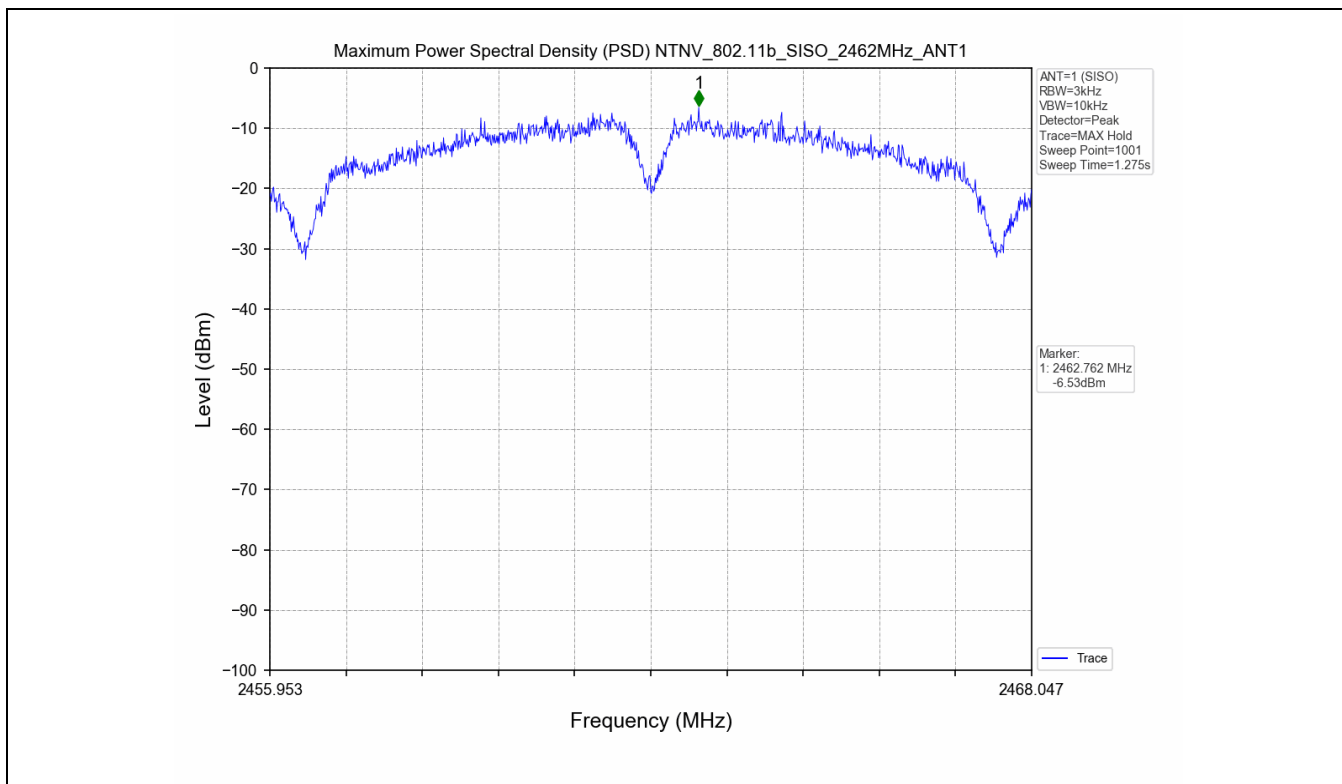


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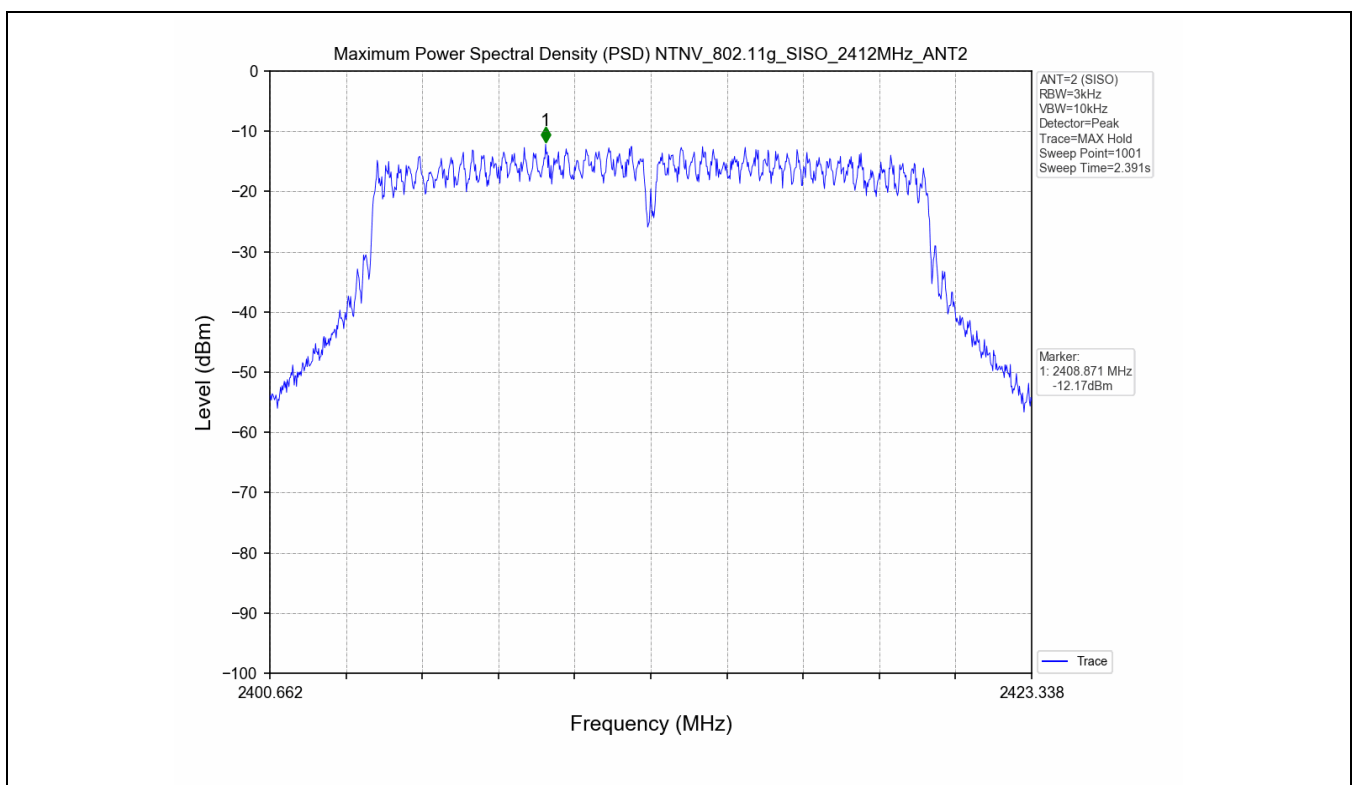
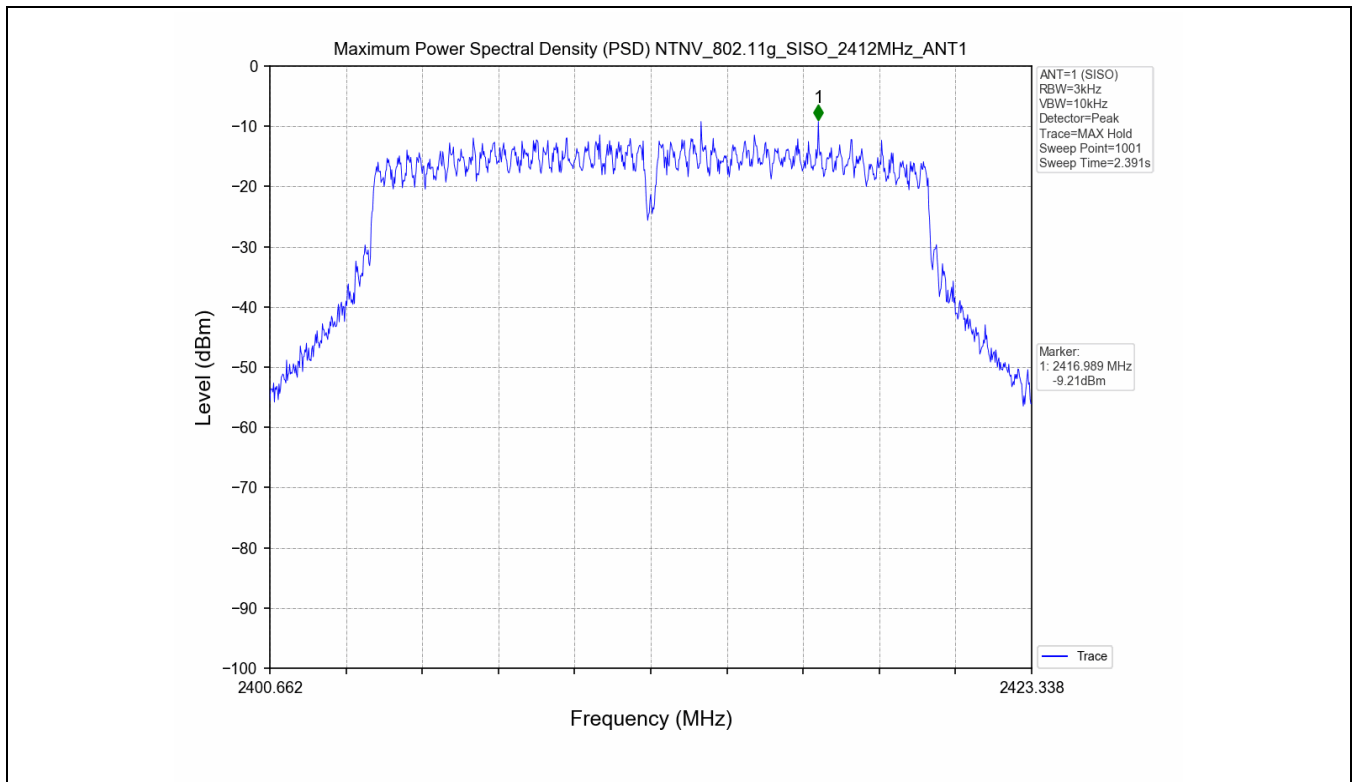


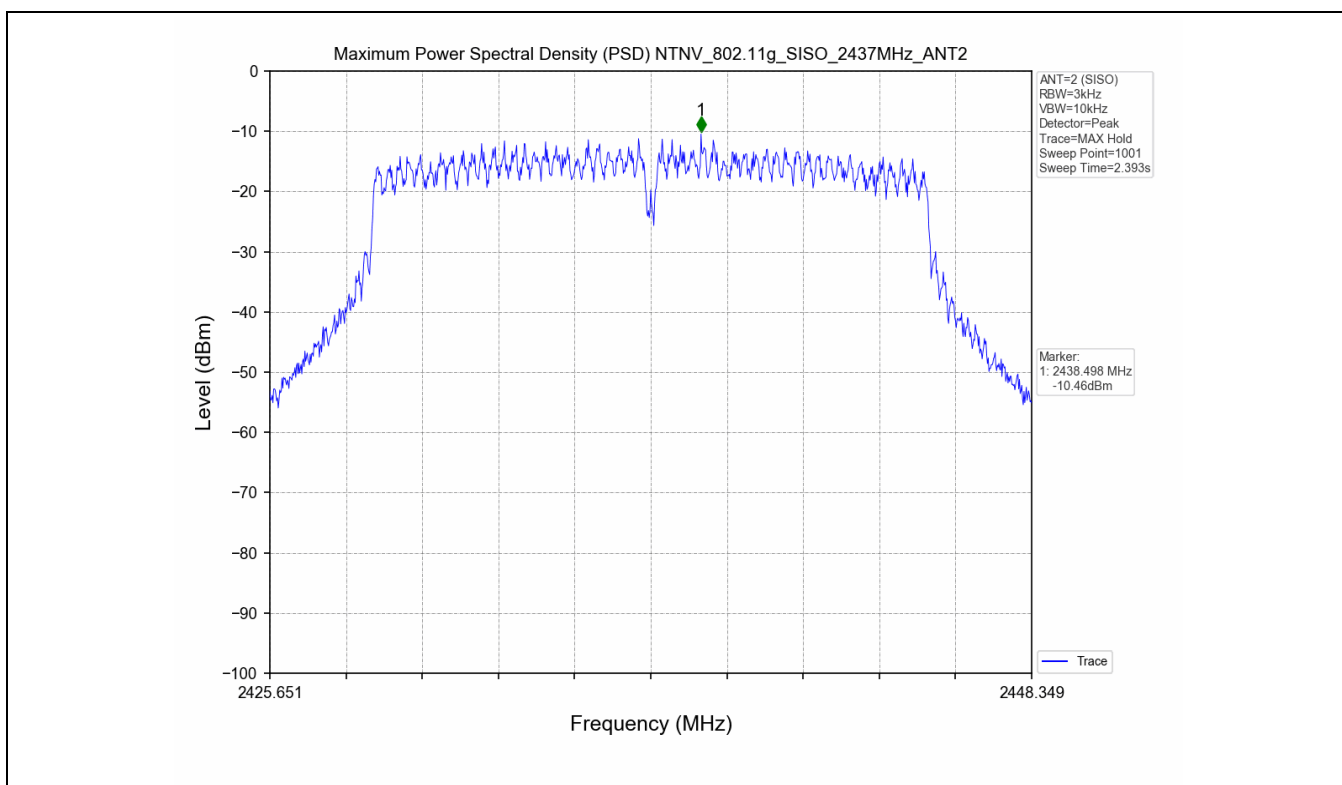
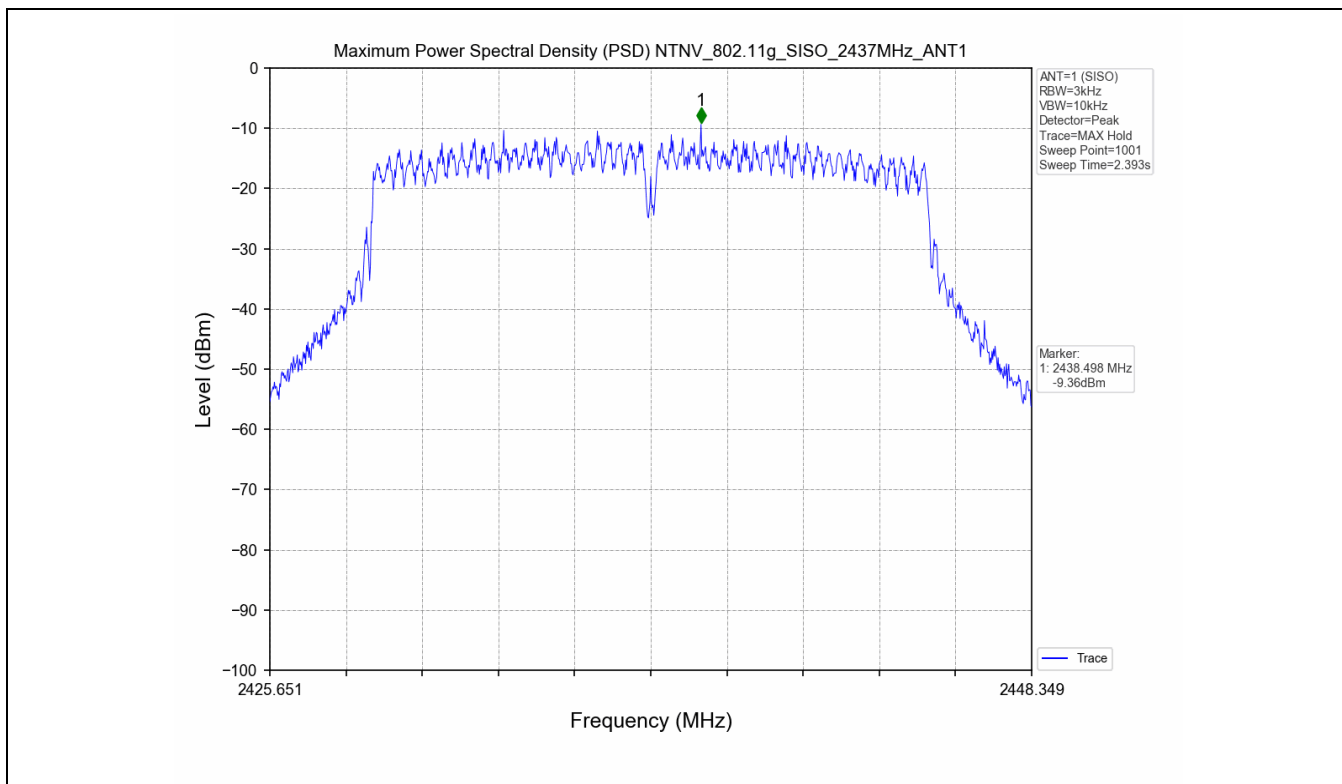
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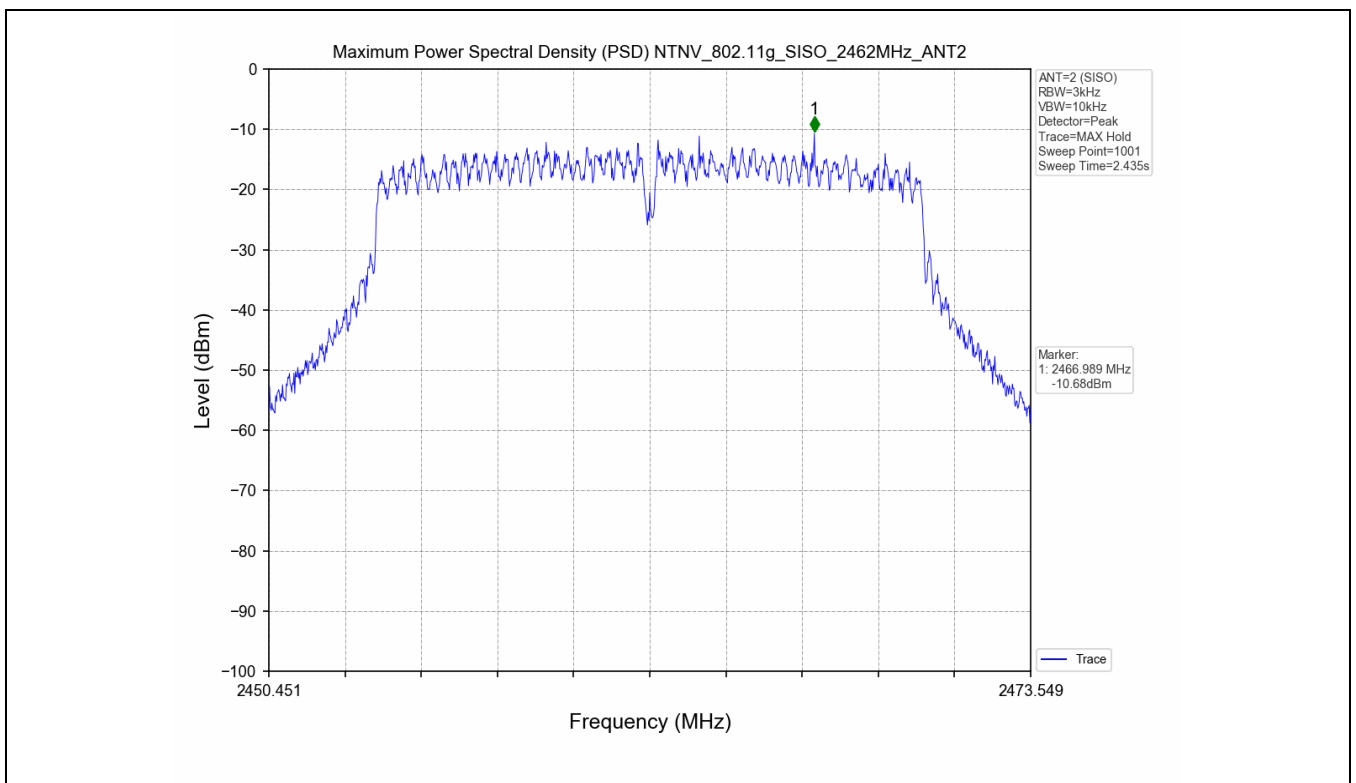
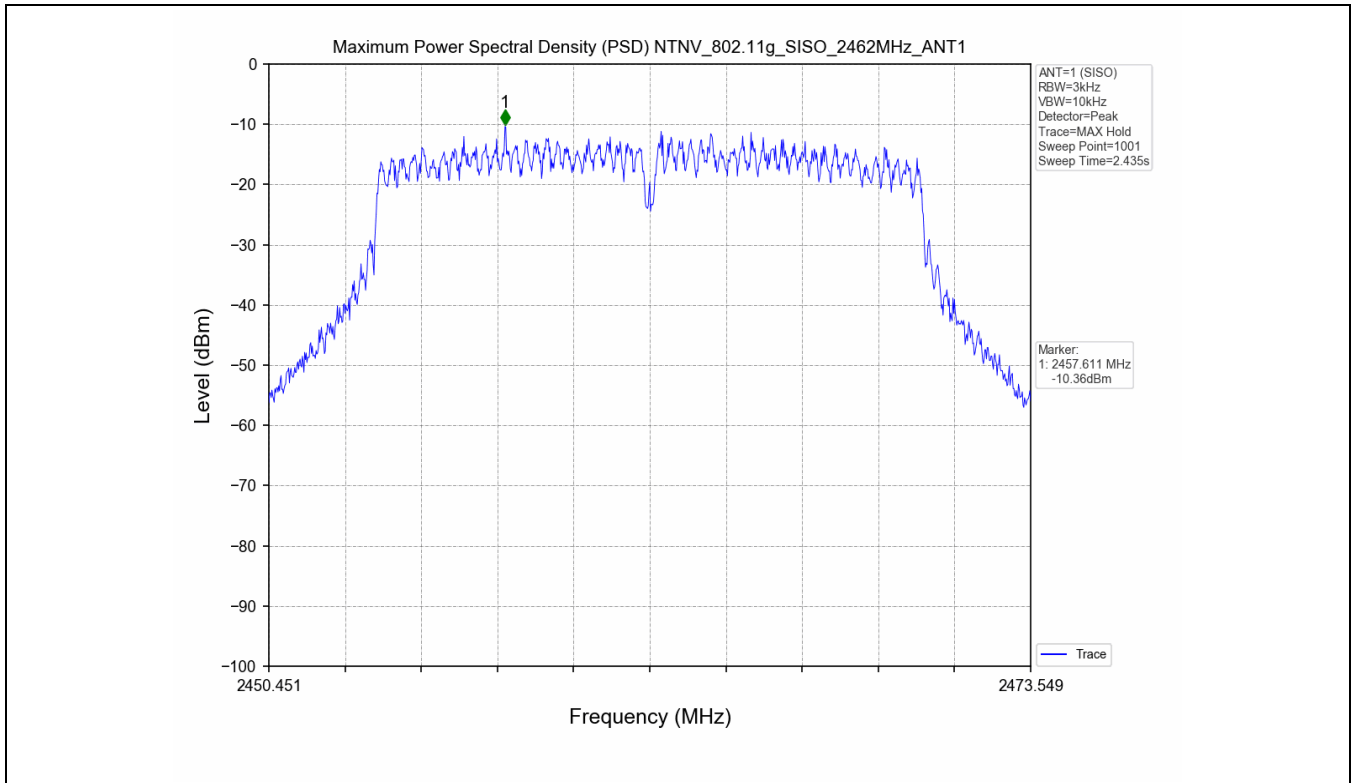
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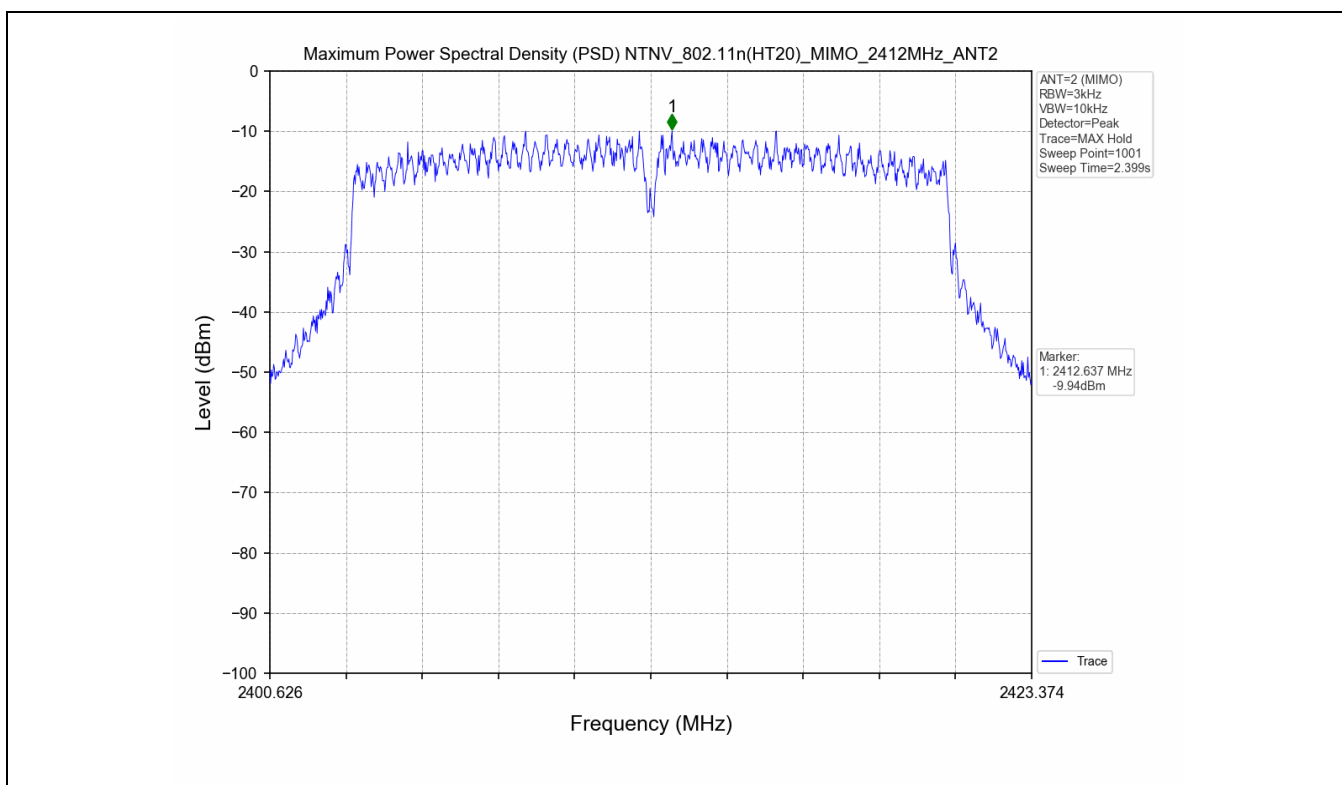
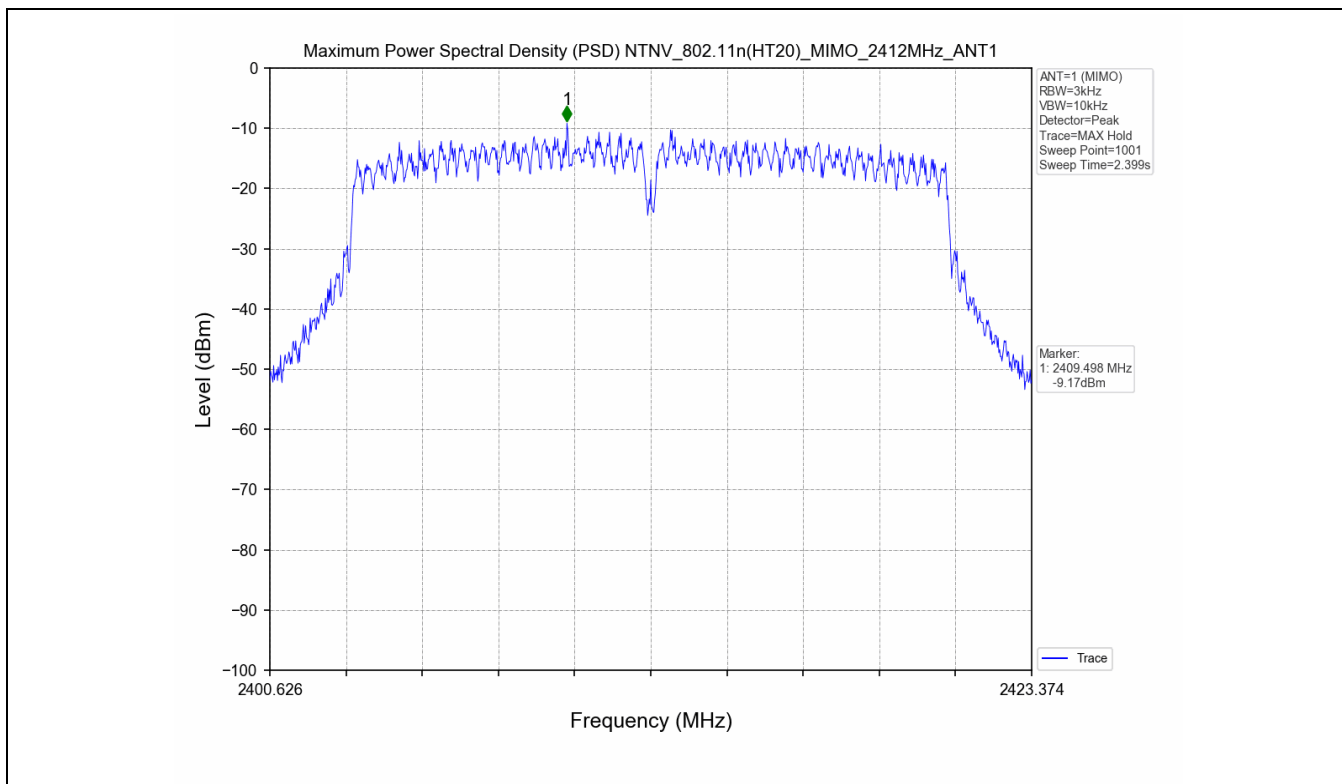
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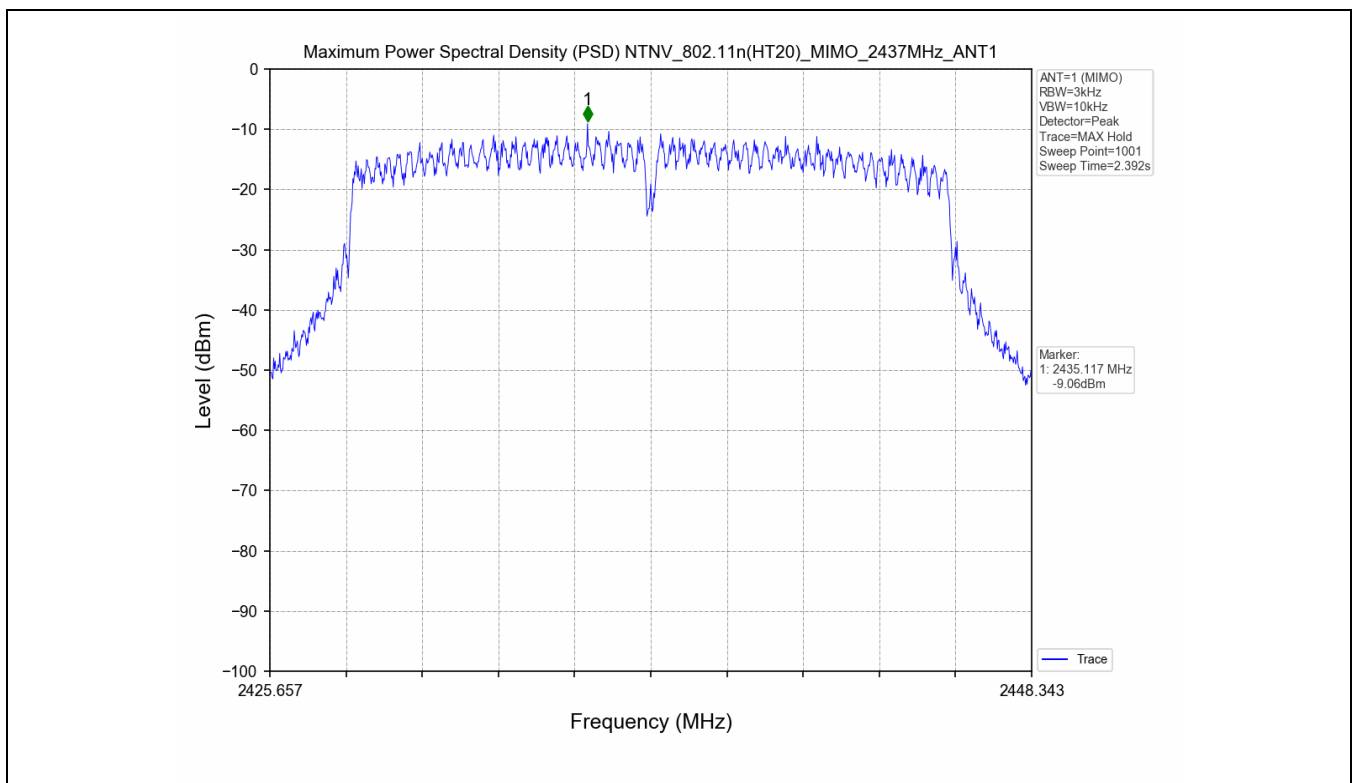
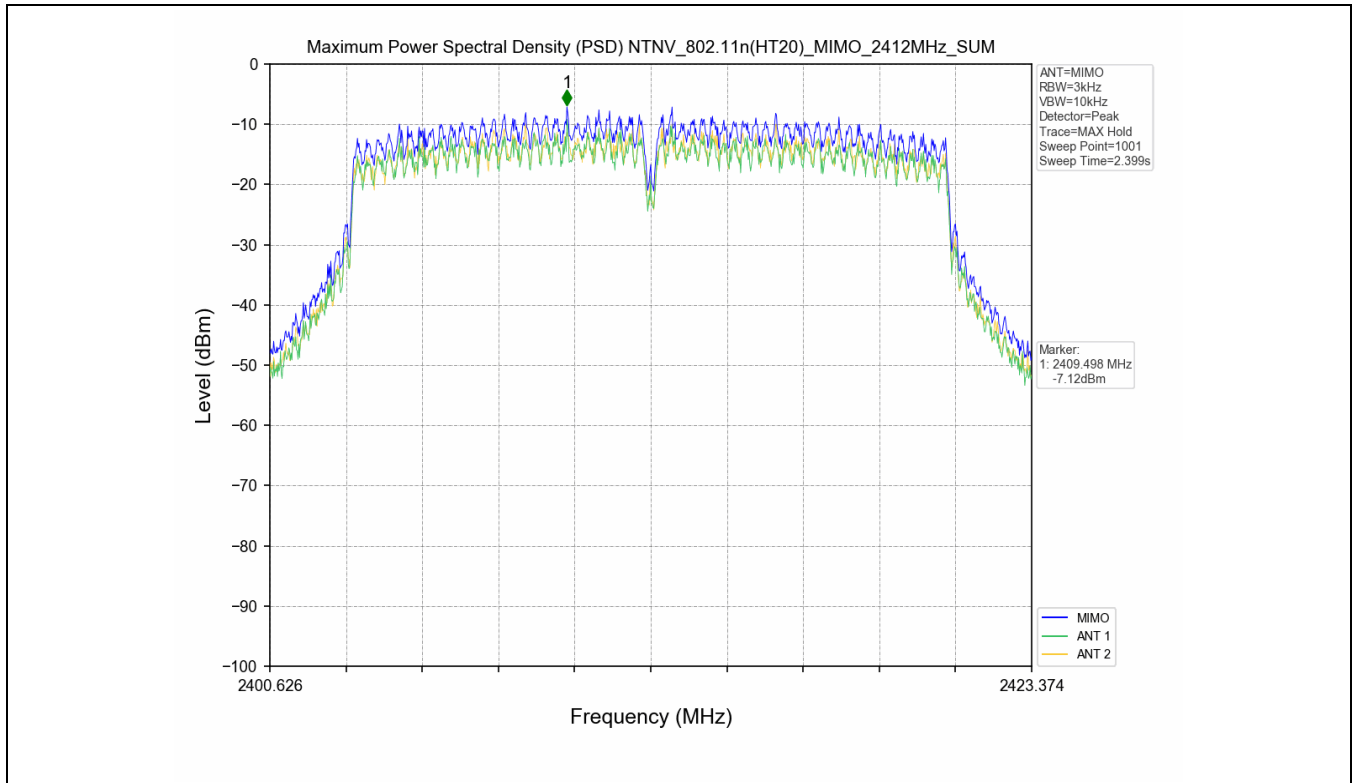
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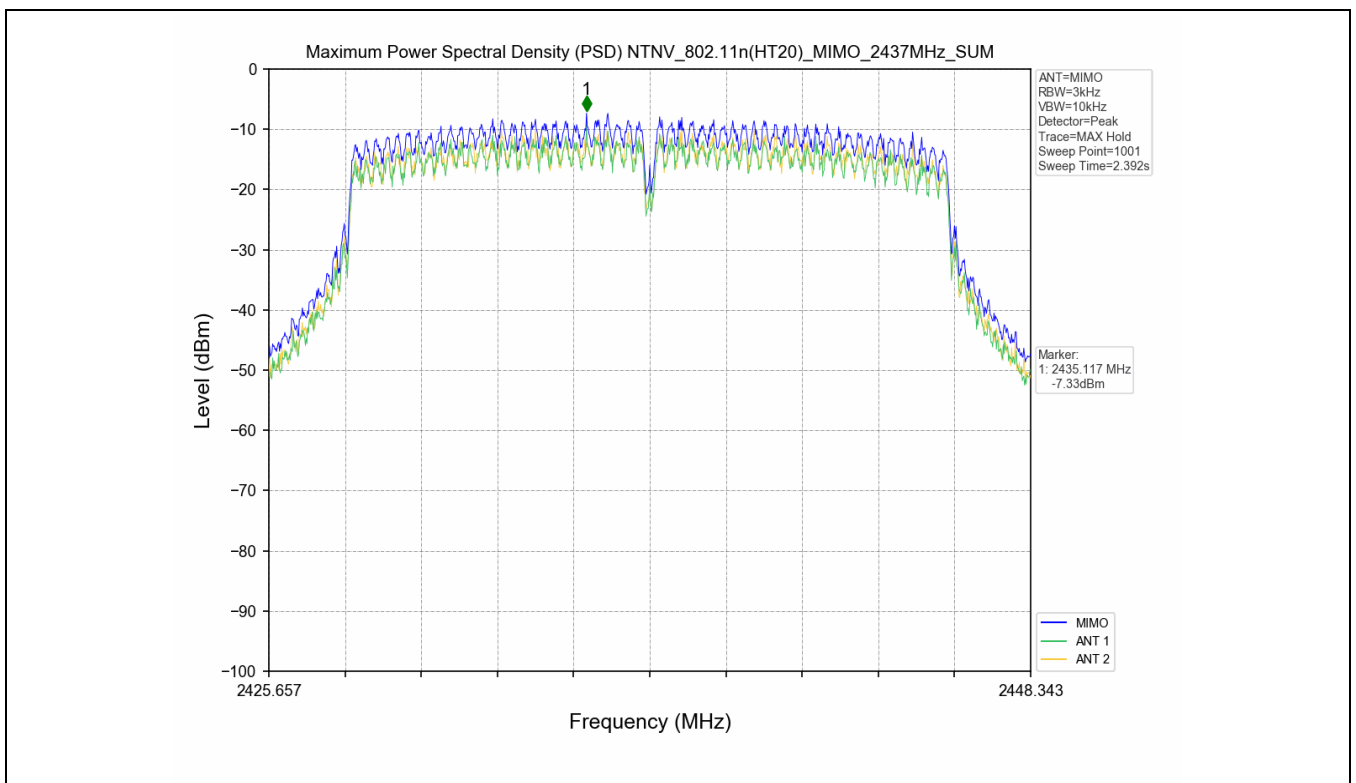
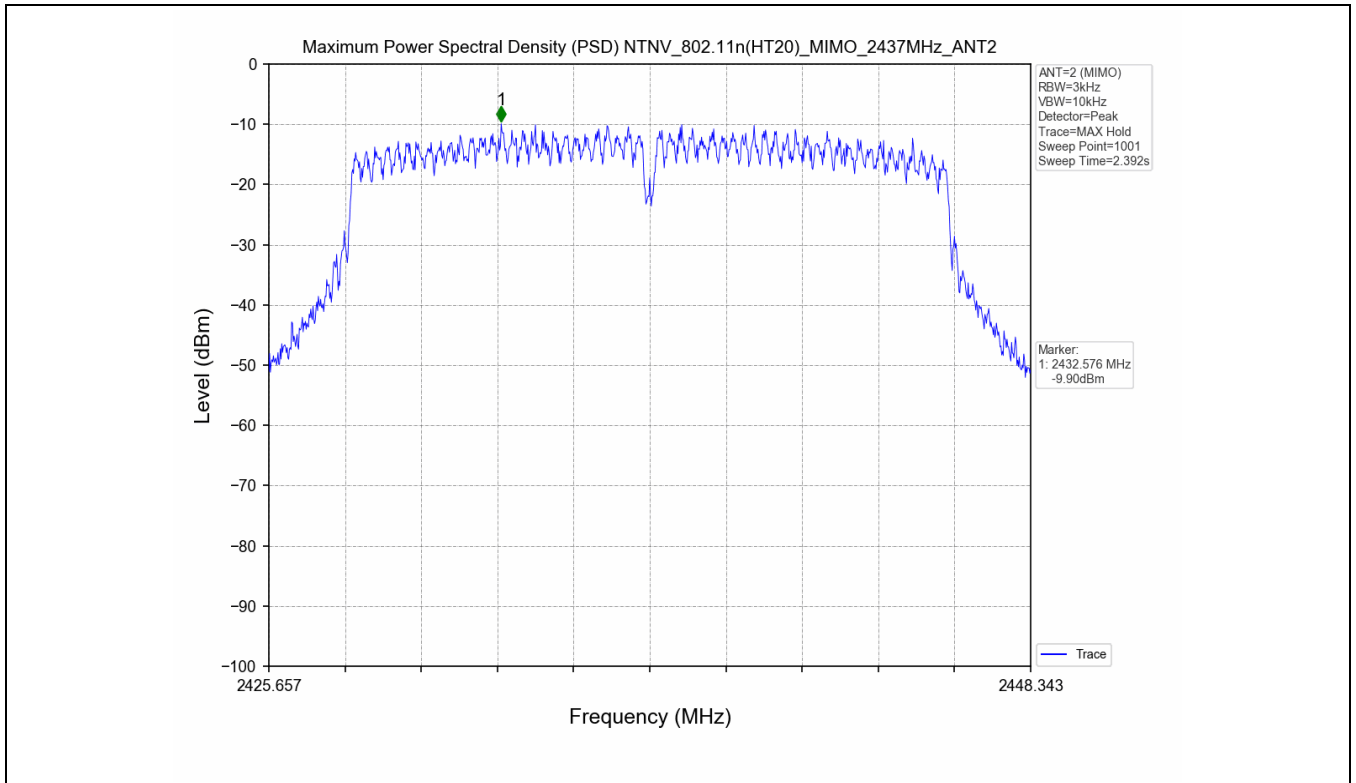


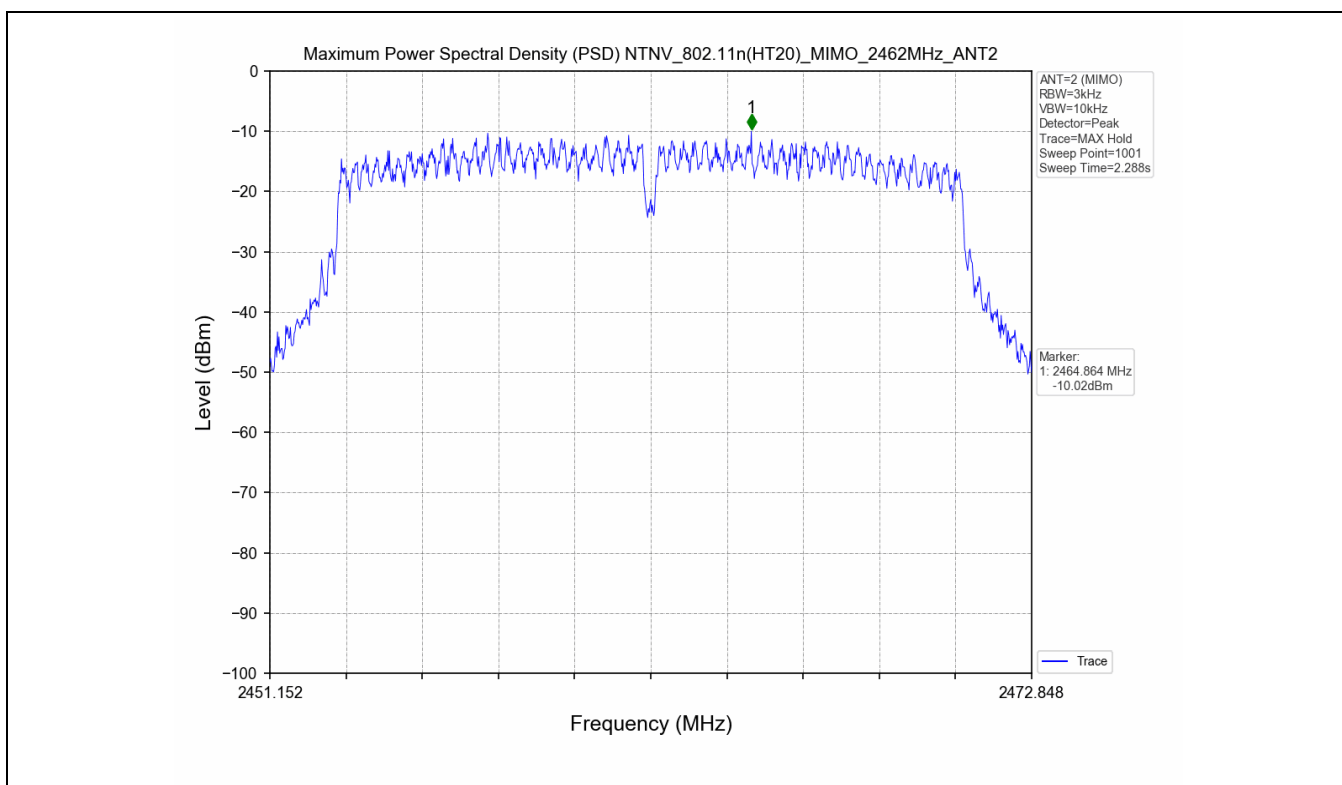
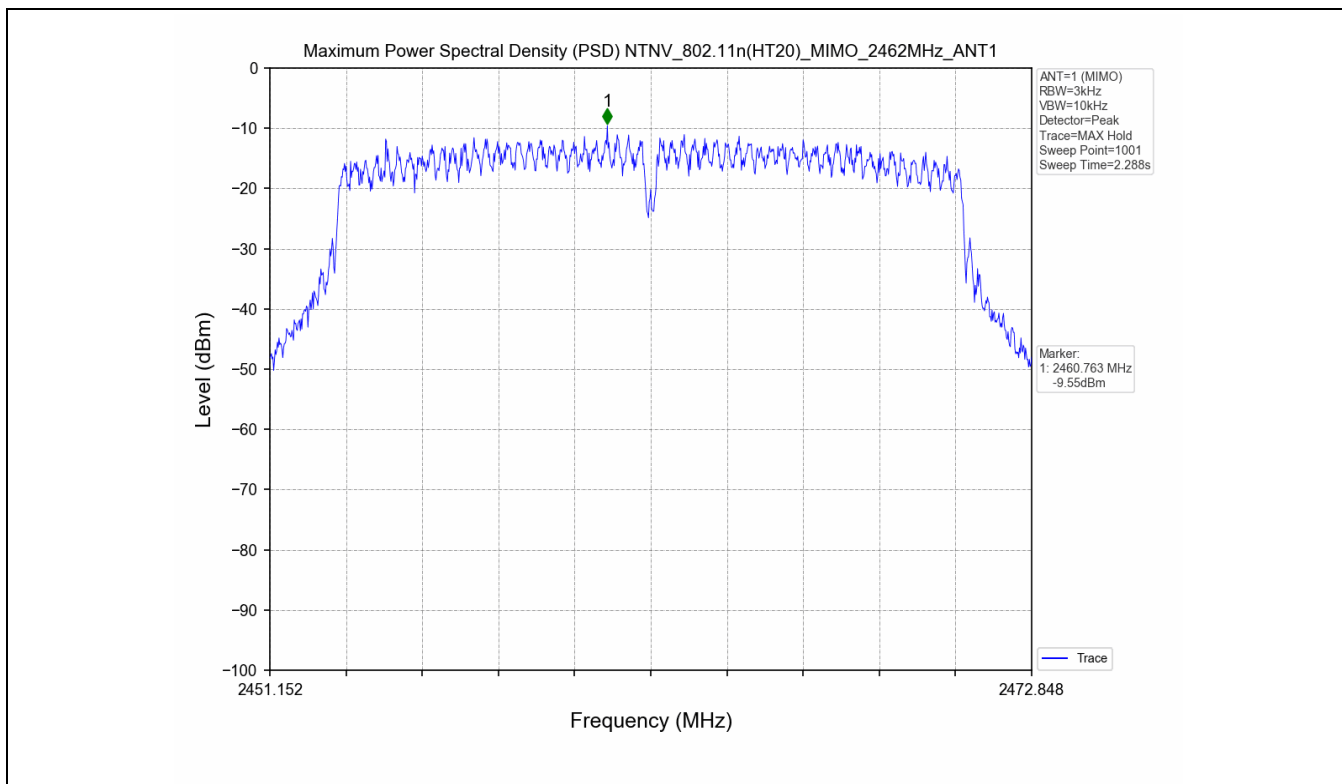


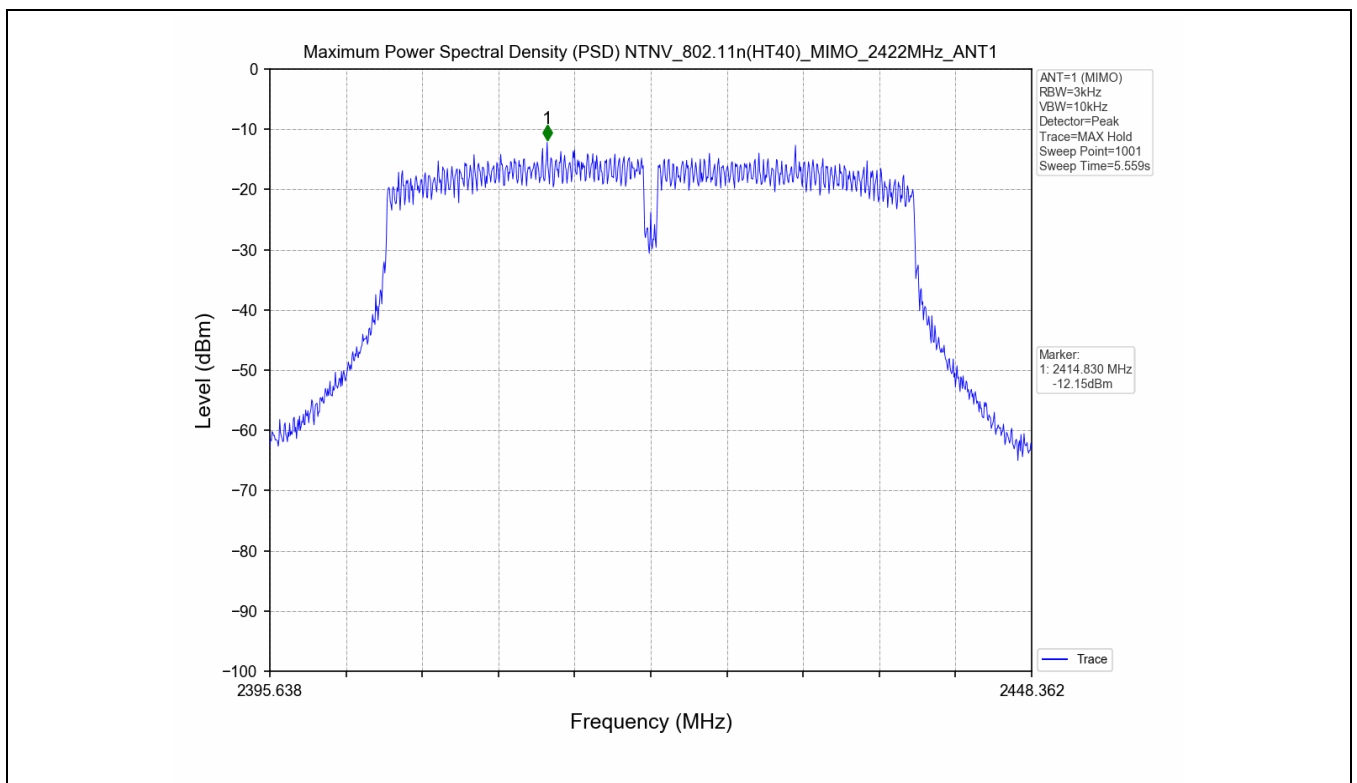
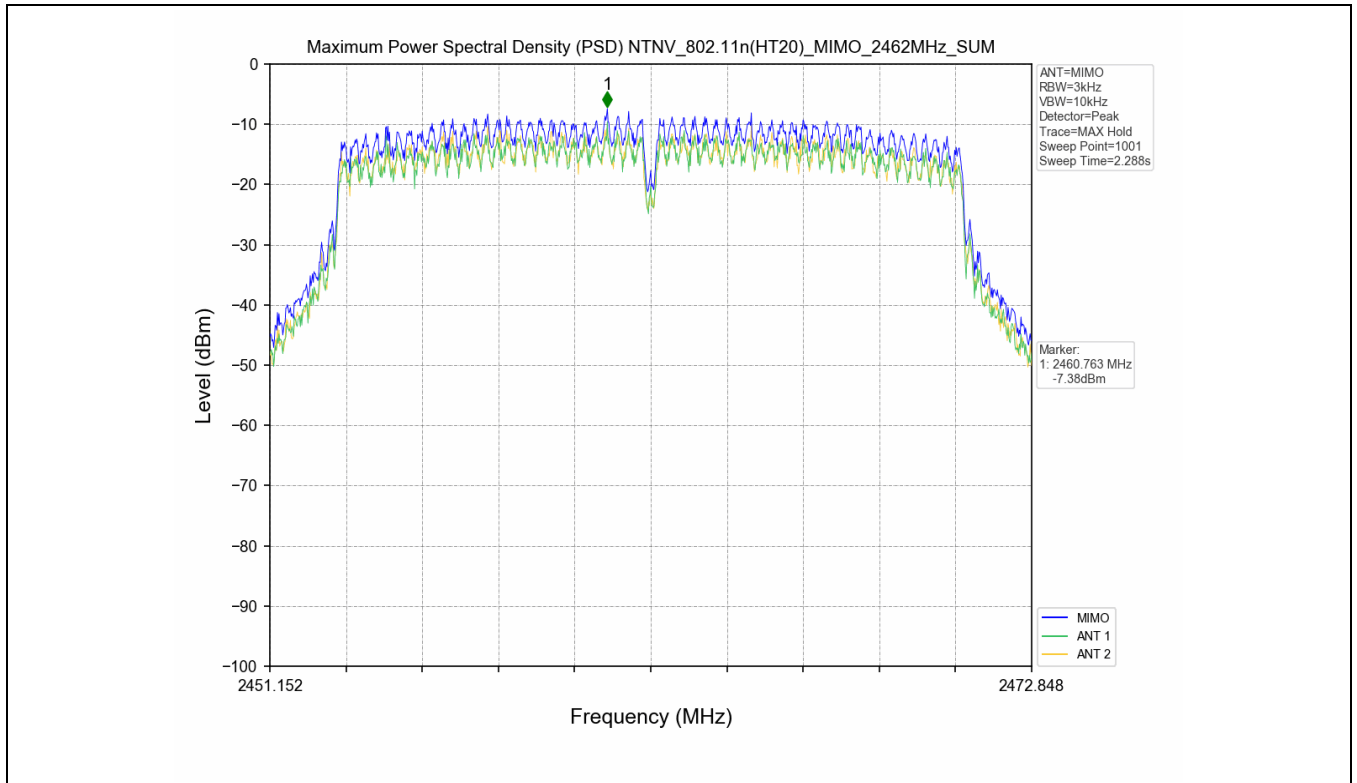


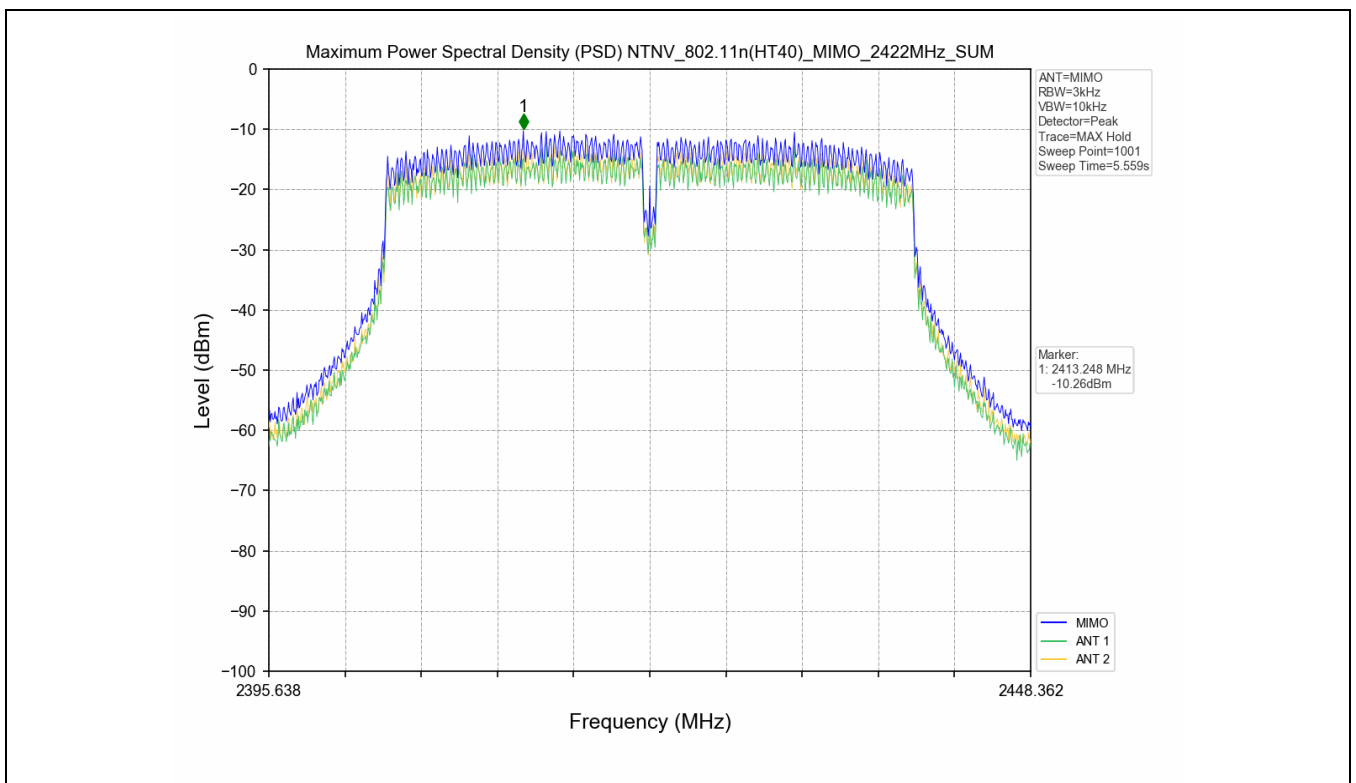
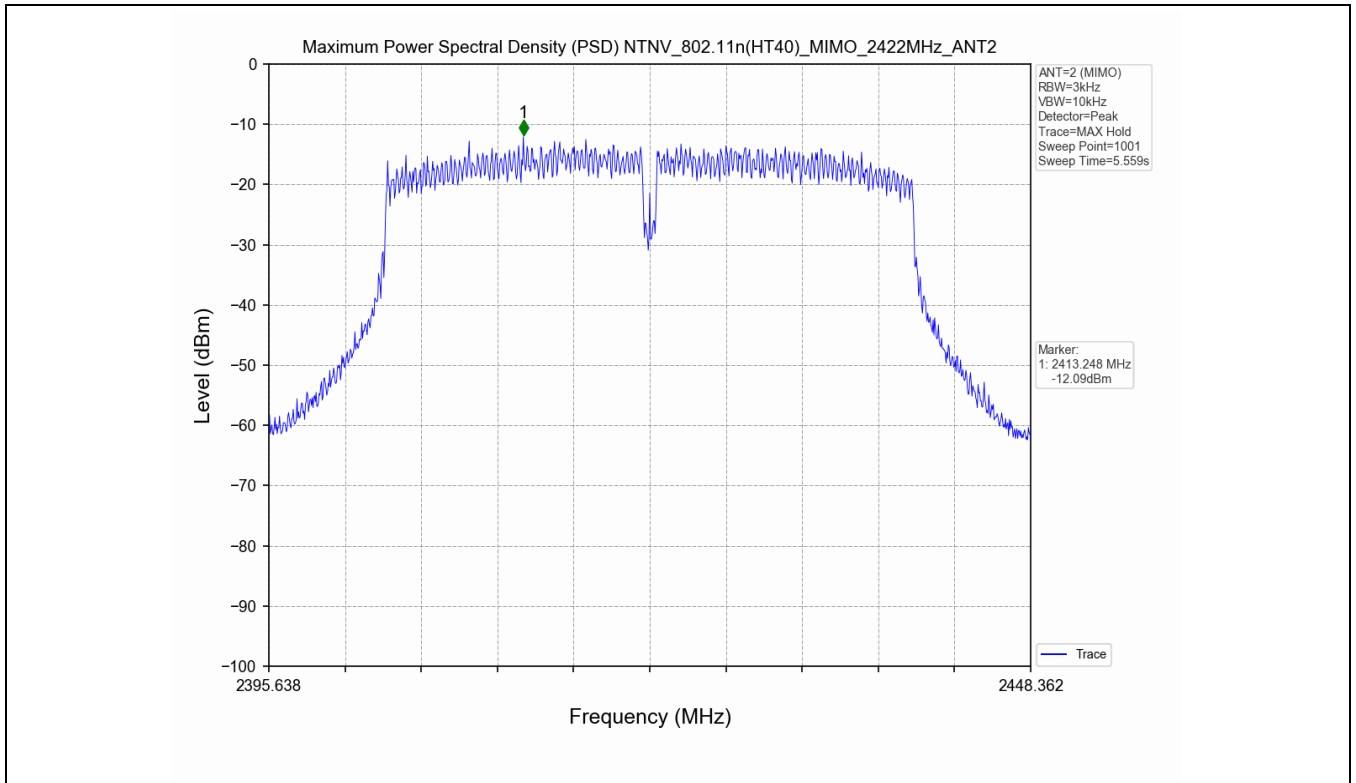


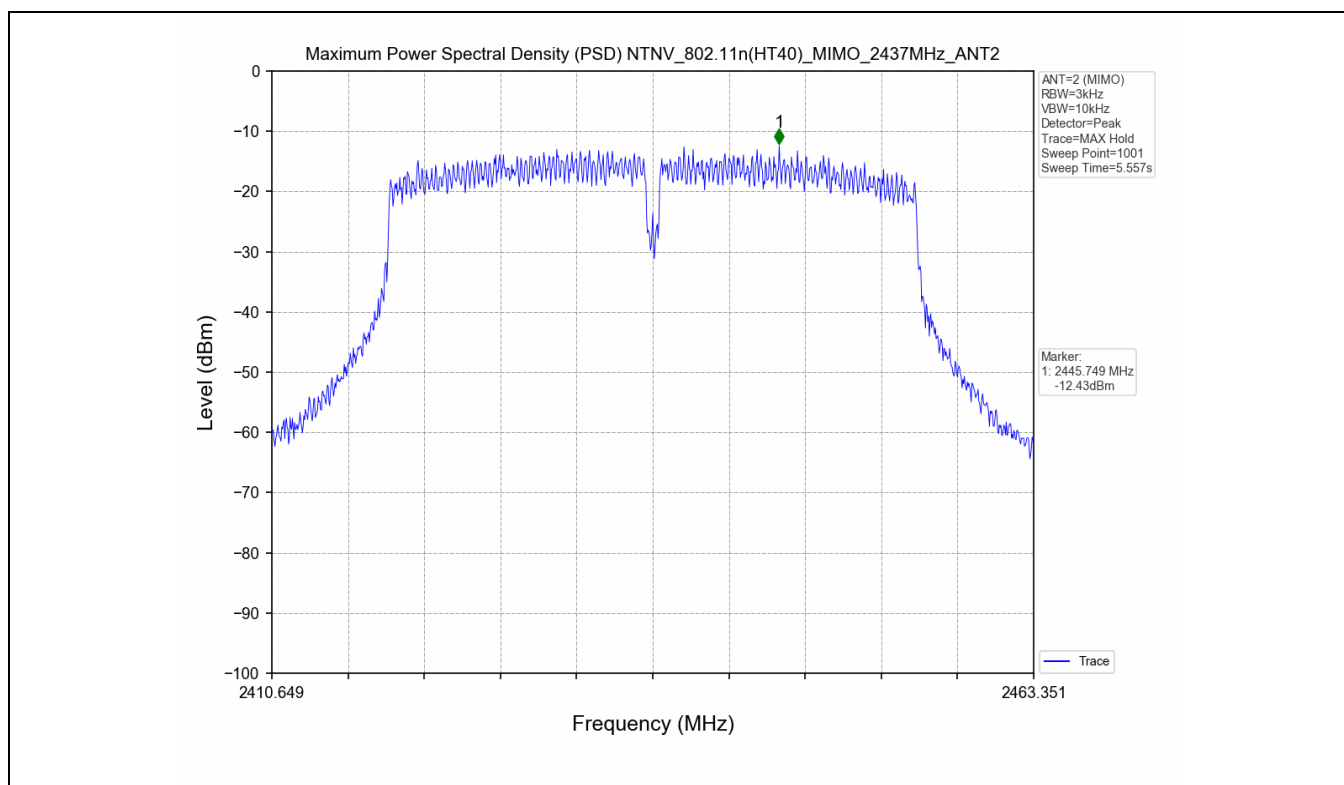
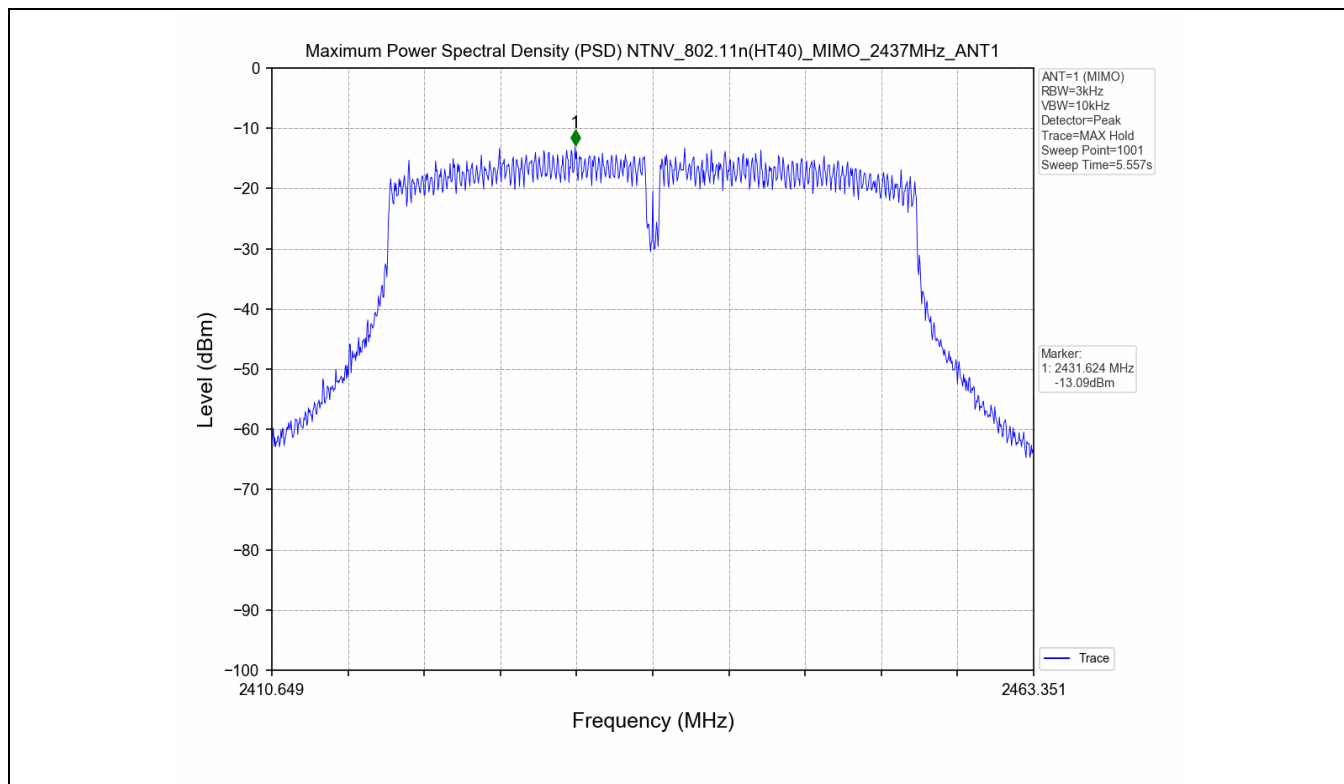


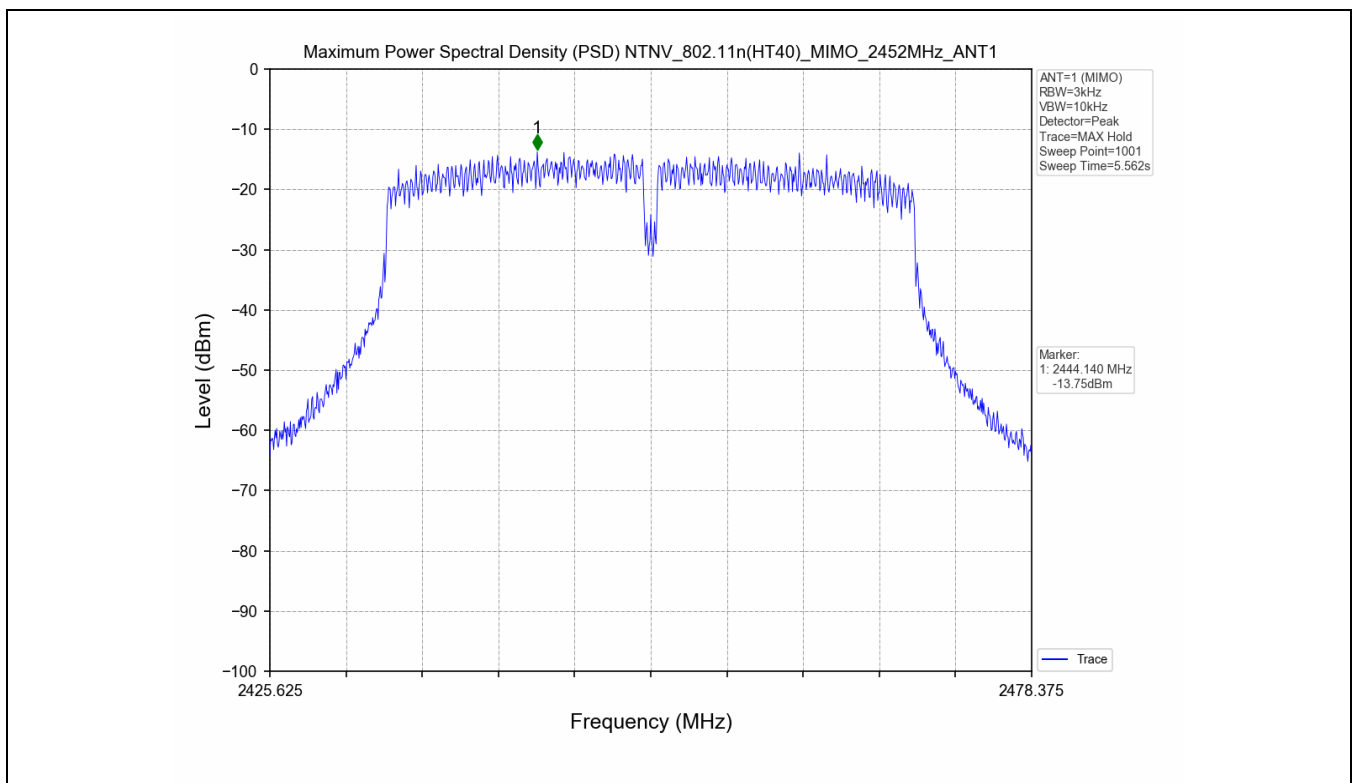
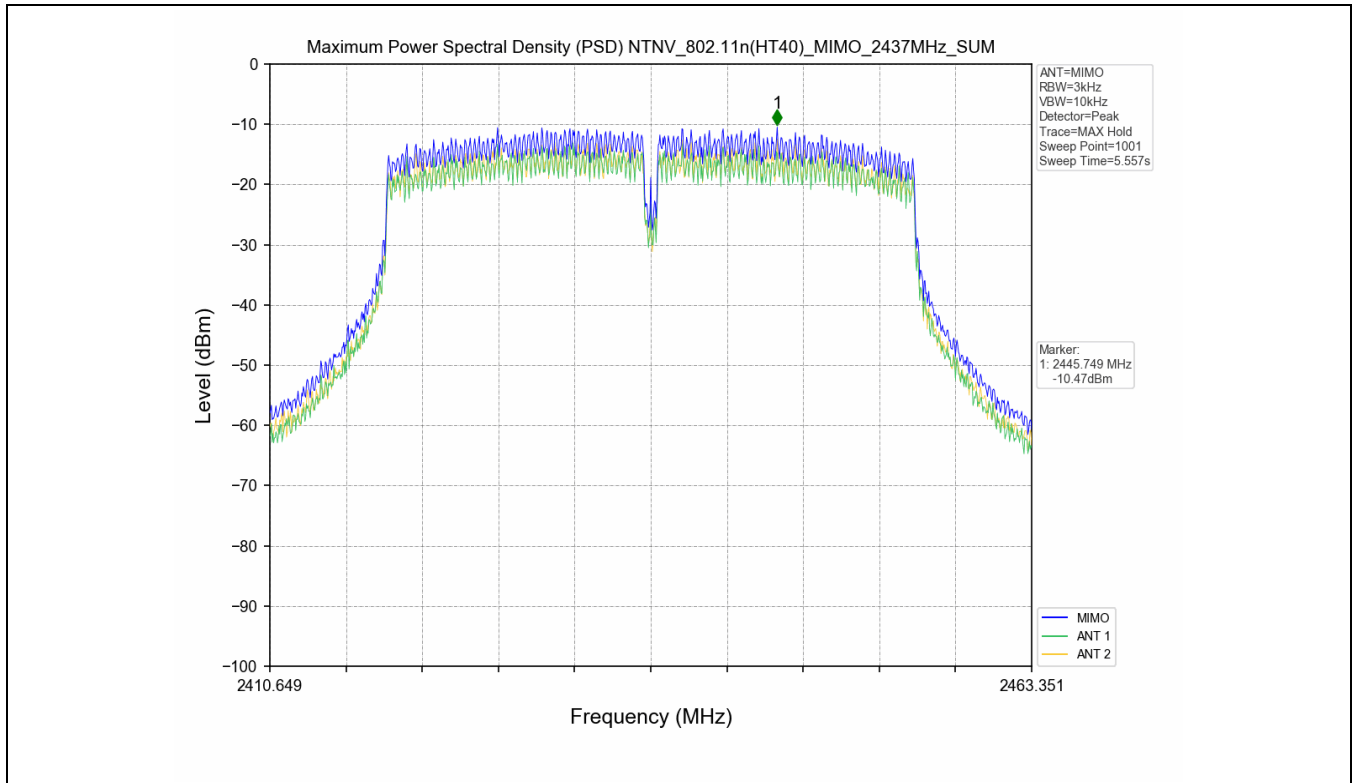


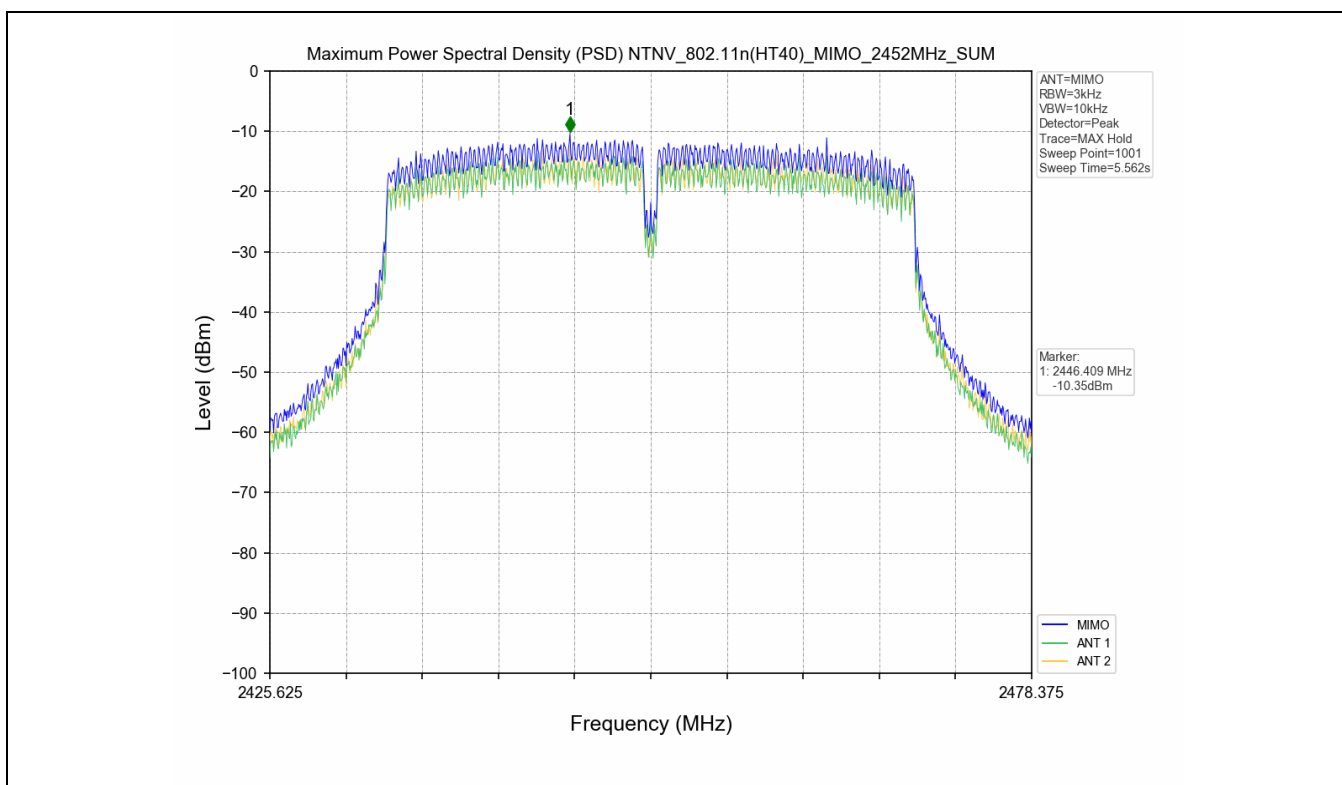
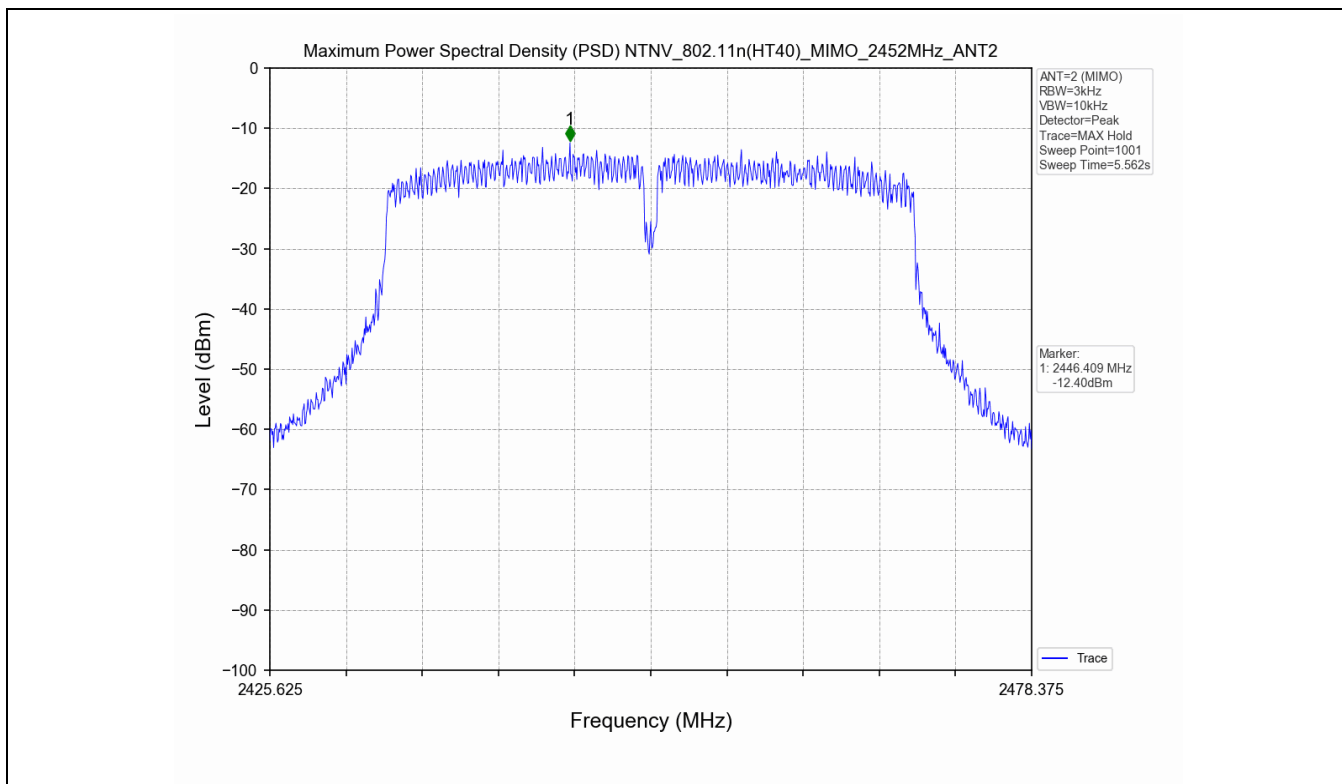










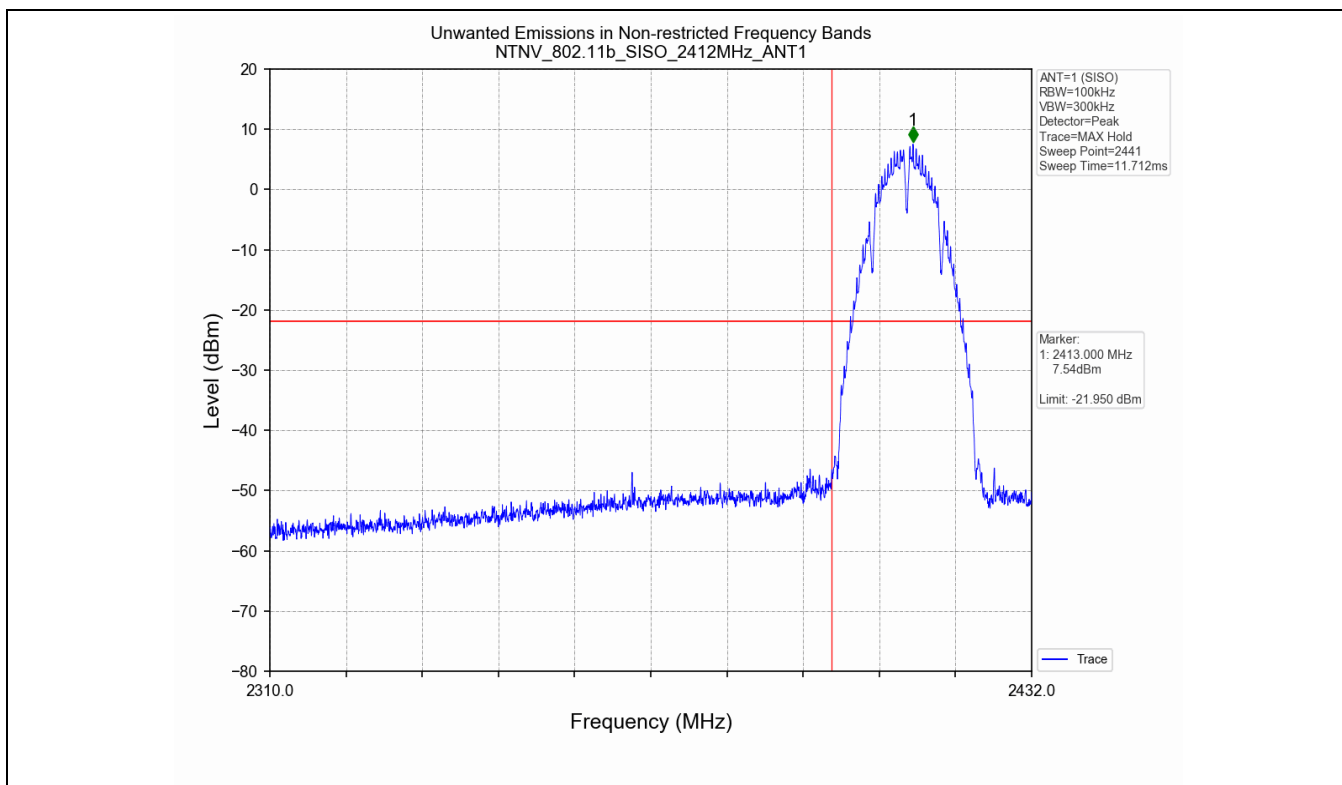
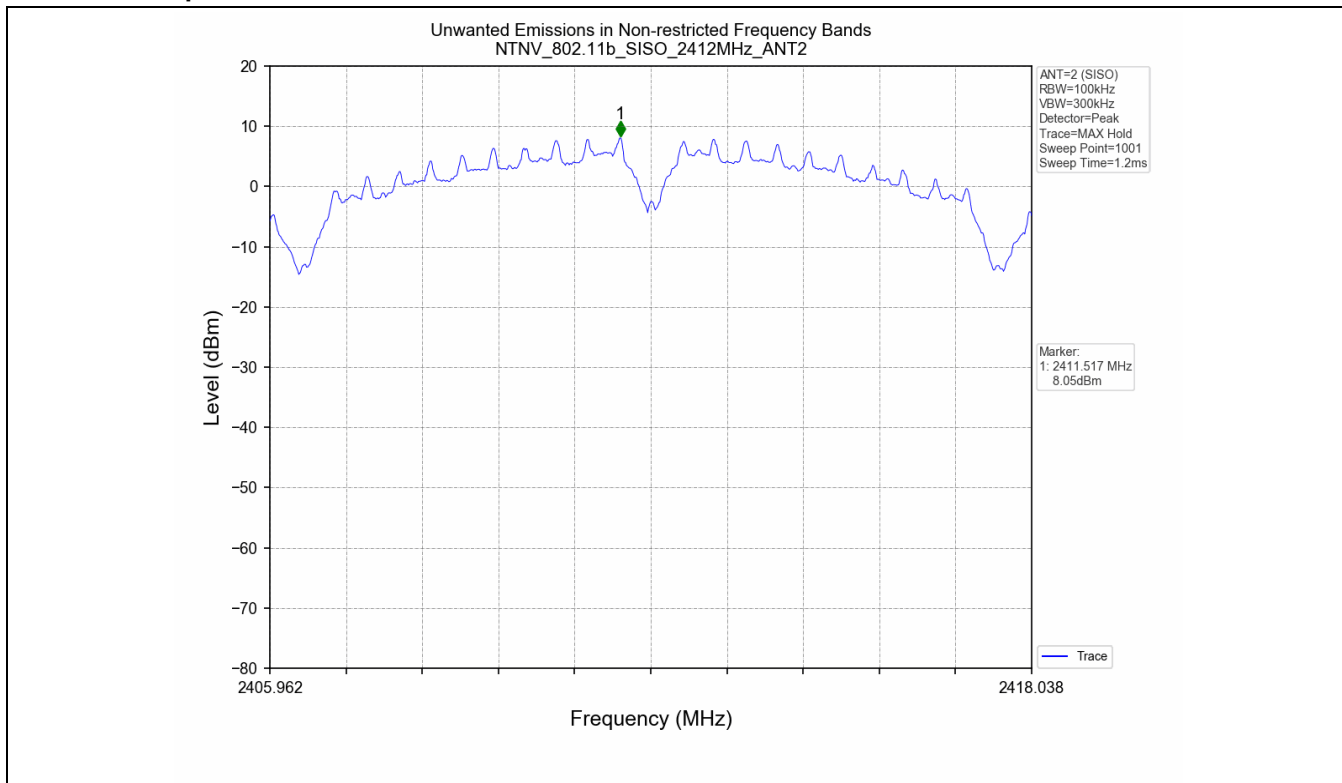


## 5. Unwanted Emissions in Non-restricted Frequency Bands

### 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               | -21.95       | PASS    |
|               |                 |         | 2       | Refer to test graph               | -21.95       | PASS    |
|               | 2437            | SISO    | 1       | Refer to test graph               | -21.95       | PASS    |
|               |                 |         | 2       | Refer to test graph               | -21.95       | PASS    |
|               | 2462            | SISO    | 1       | Refer to test graph               | -21.95       | PASS    |
|               |                 |         | 2       | Refer to test graph               | -21.95       | PASS    |
| 802.11g       | 2412            | SISO    | 1       | Refer to test graph               | -26.26       | PASS    |
|               |                 |         | 2       | Refer to test graph               | -26.26       | PASS    |
|               | 2437            | SISO    | 1       | Refer to test graph               | -26.26       | PASS    |
|               |                 |         | 2       | Refer to test graph               | -26.26       | PASS    |
|               | 2462            | SISO    | 1       | Refer to test graph               | -26.26       | PASS    |
|               |                 |         | 2       | Refer to test graph               | -26.26       | PASS    |
| 802.11n(HT20) | 2412            | MIMO    | MIMO    | Refer to test graph               | -25.03       | PASS    |
|               | 2437            | MIMO    | MIMO    | Refer to test graph               | -25.03       | PASS    |
|               | 2462            | MIMO    | MIMO    | Refer to test graph               | -25.03       | PASS    |
| 802.11n(HT40) | 2422            | MIMO    | MIMO    | Refer to test graph               | -27.93       | PASS    |
|               | 2437            | MIMO    | MIMO    | Refer to test graph               | -27.93       | PASS    |
|               | 2452            | MIMO    | MIMO    | Refer to test graph               | -27.93       | PASS    |

### 5.2 Test Graph



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