

## Appendix A for SHEM210200220201

### 1. Duty Cycle

#### 1.1 Test Result

| Test Mode     | Channel Frequency(M Hz) | TX Type | ANT No. | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---------------|-------------------------|---------|---------|-----------|-------------|----------------|-----------------------------------|
| 802.11b       | 2412                    | SISO    | 1       | 8.410     | 8.580       | 98.02          | 0.09                              |
|               |                         |         | 2       | 8.420     | 8.590       | 98.02          | 0.09                              |
|               | 2437                    | SISO    | 1       | 8.410     | 8.580       | 98.02          | 0.09                              |
|               |                         |         | 2       | 8.420     | 8.590       | 98.02          | 0.09                              |
|               | 2462                    | SISO    | 1       | 8.420     | 8.570       | 98.25          | 0.08                              |
|               |                         |         | 2       | 8.410     | 8.580       | 98.02          | 0.09                              |
| 802.11g       | 2412                    | SISO    | 1       | 1.365     | 1.522       | 89.68          | 0.47                              |
|               |                         |         | 2       | 1.365     | 1.541       | 88.58          | 0.53                              |
|               | 2437                    | SISO    | 1       | 1.396     | 1.575       | 88.63          | 0.52                              |
|               |                         |         | 2       | 1.395     | 1.574       | 88.63          | 0.52                              |
|               | 2462                    | SISO    | 1       | 1.395     | 1.537       | 90.76          | 0.42                              |
|               |                         |         | 2       | 1.365     | 1.504       | 90.76          | 0.42                              |
| 802.11n(HT20) | 2412                    | MIMO    | 1       | 1.307     | 1.476       | 88.55          | 0.53                              |
|               |                         |         | 2       | 1.307     | 1.476       | 88.55          | 0.53                              |
|               | 2437                    | MIMO    | 1       | 1.309     | 1.487       | 88.03          | 0.55                              |
|               |                         |         | 2       | 1.307     | 1.478       | 88.43          | 0.53                              |
|               | 2462                    | MIMO    | 1       | 1.278     | 1.435       | 89.06          | 0.50                              |
|               |                         |         | 2       | 1.282     | 1.449       | 88.47          | 0.53                              |

#### 1.2 Test Graph



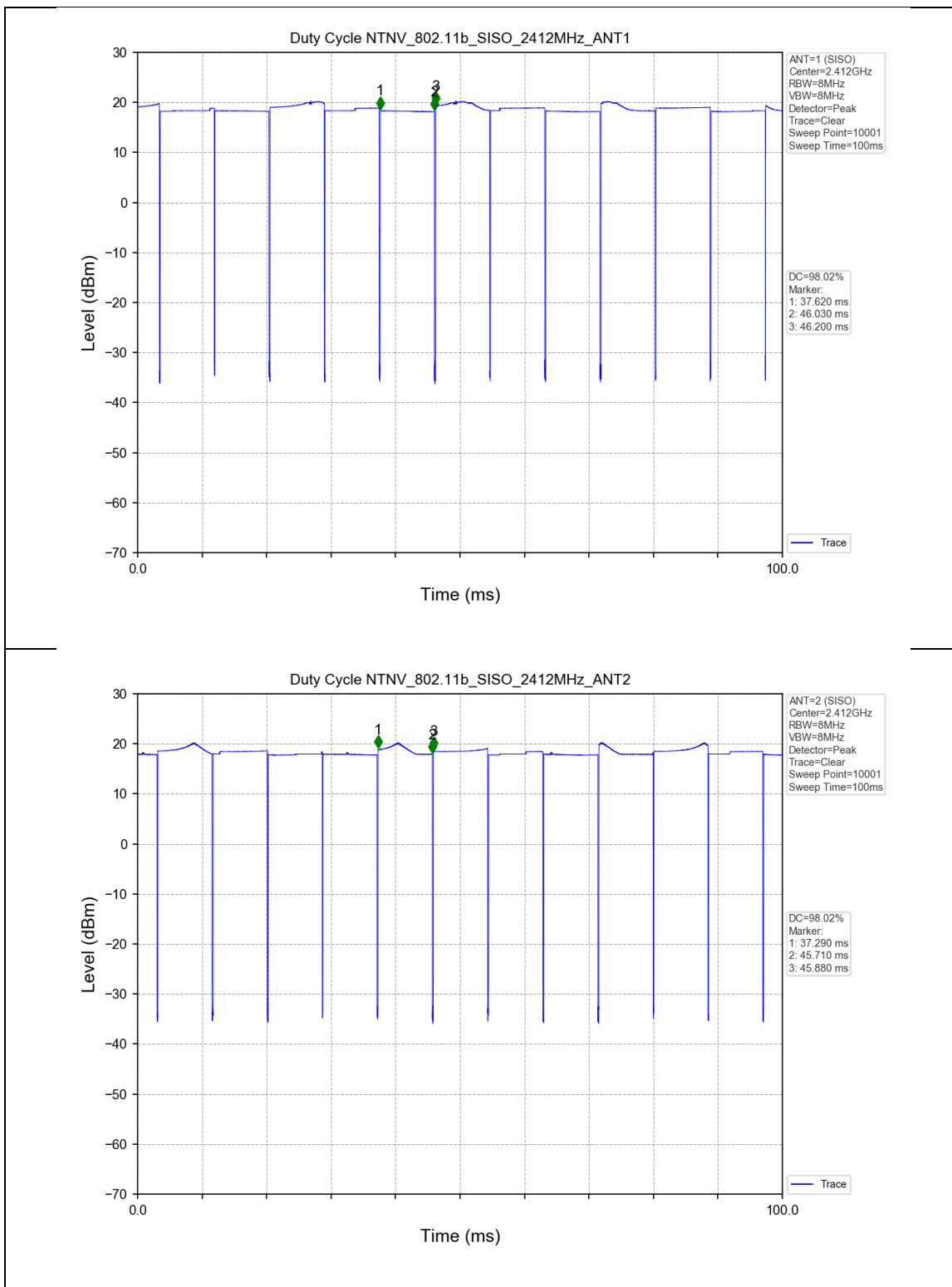
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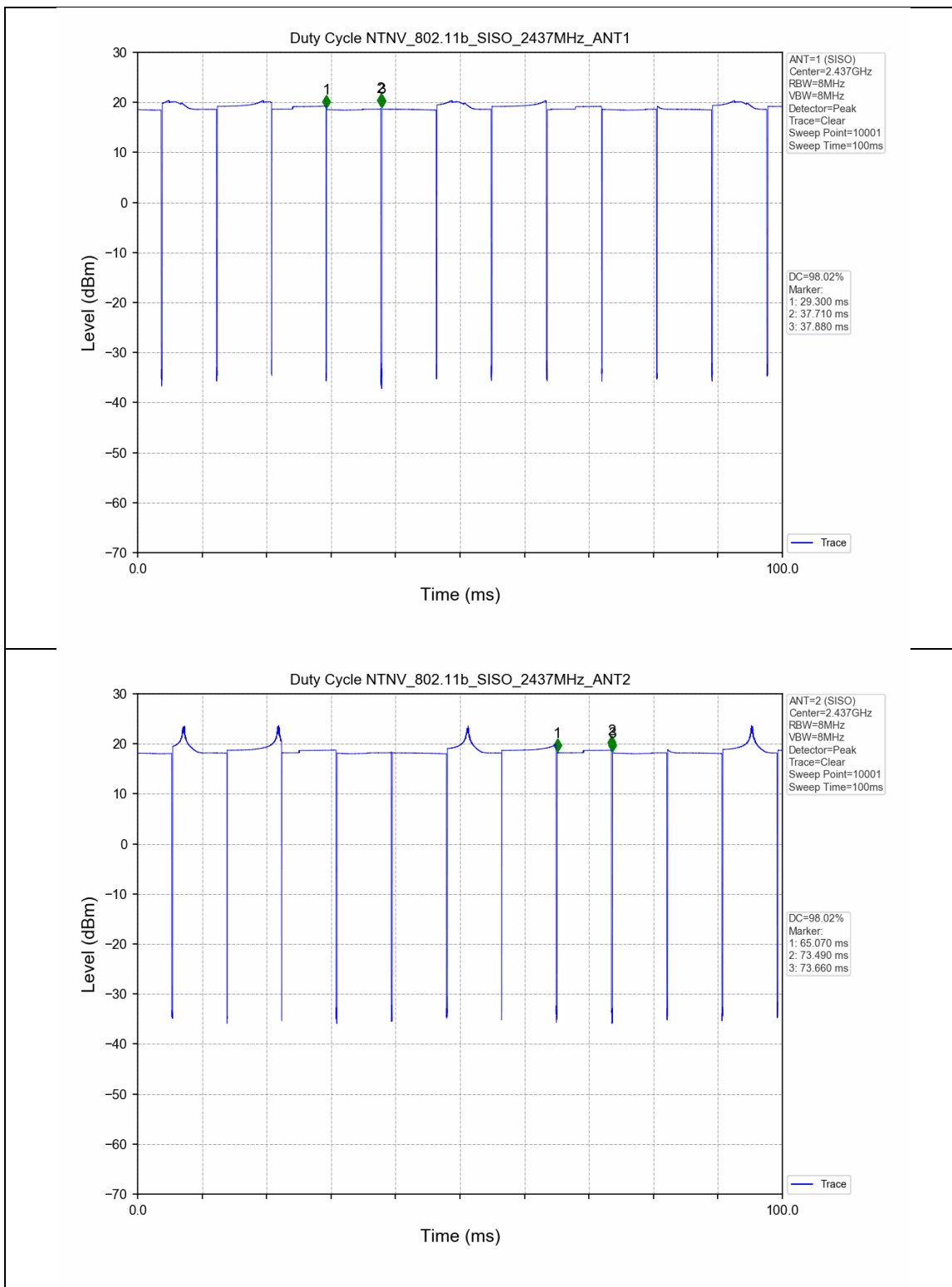
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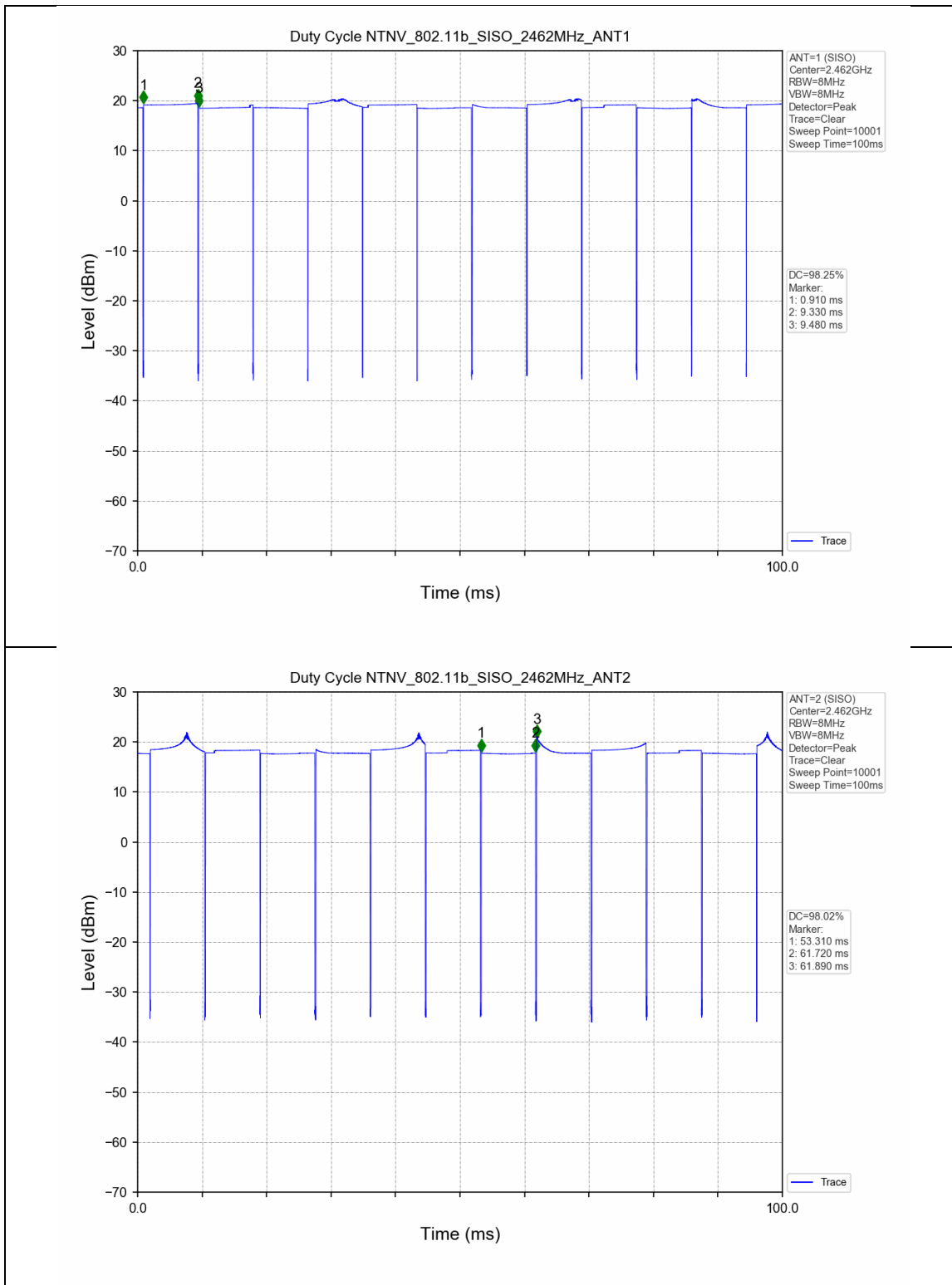
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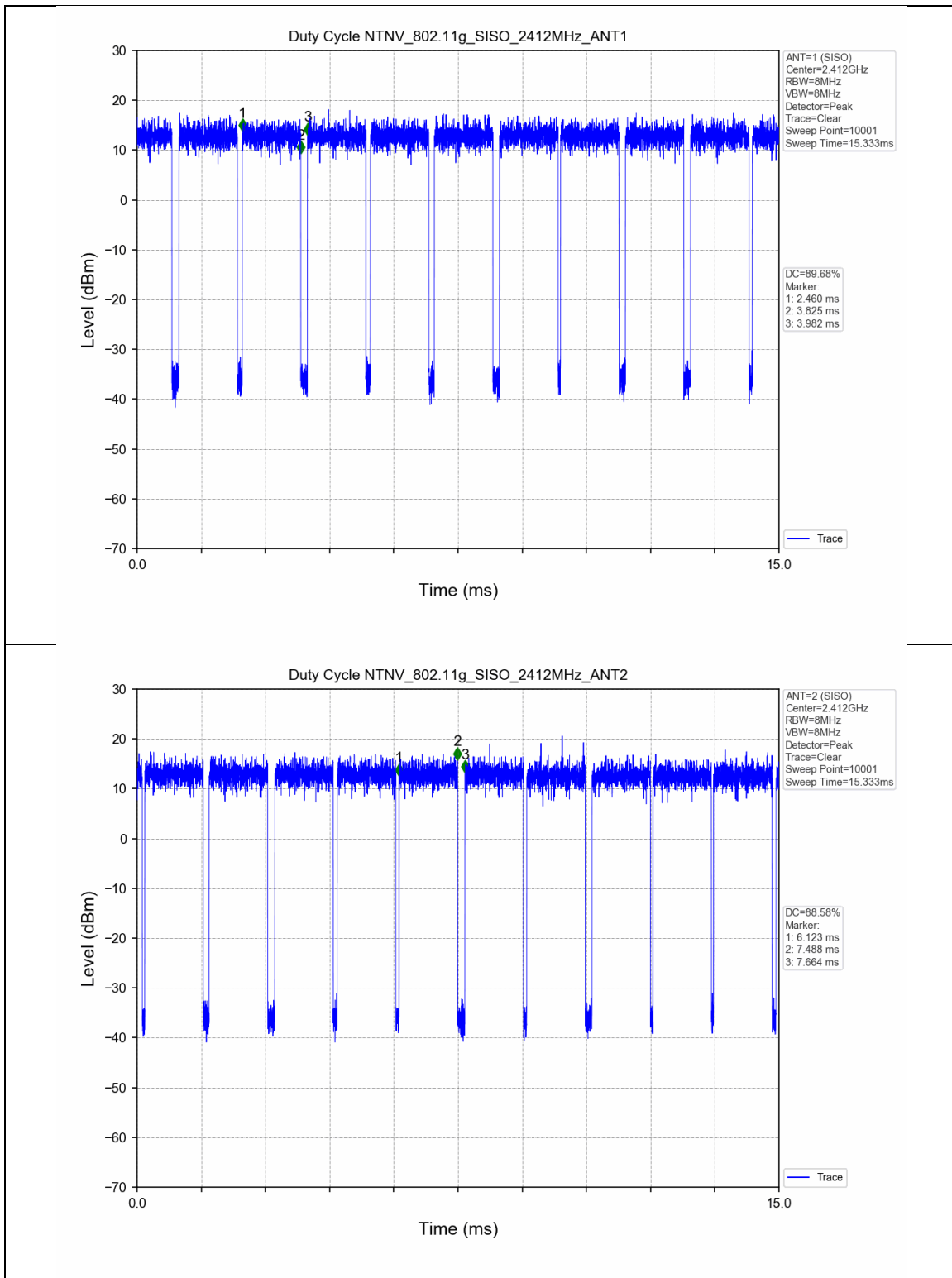
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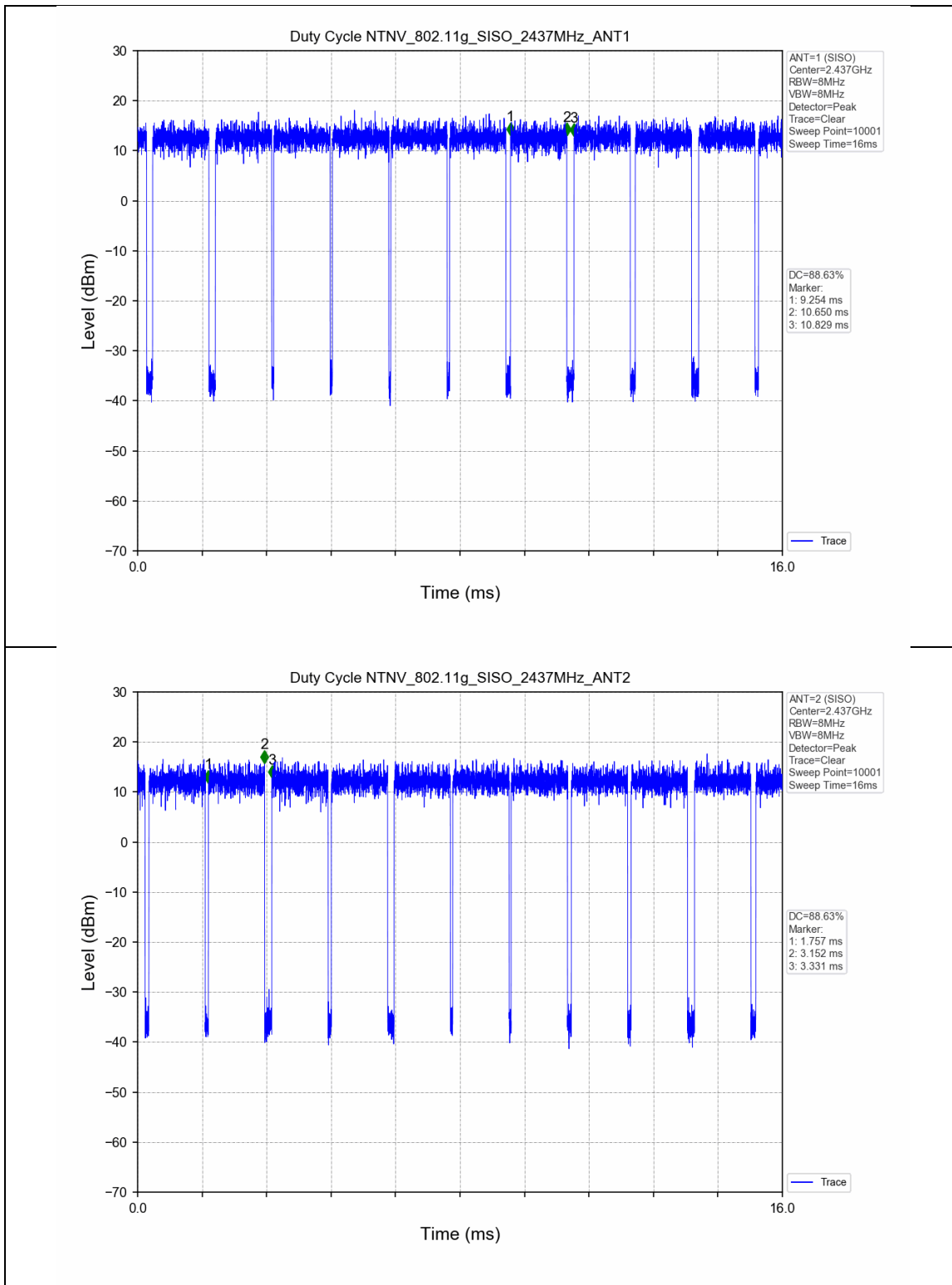
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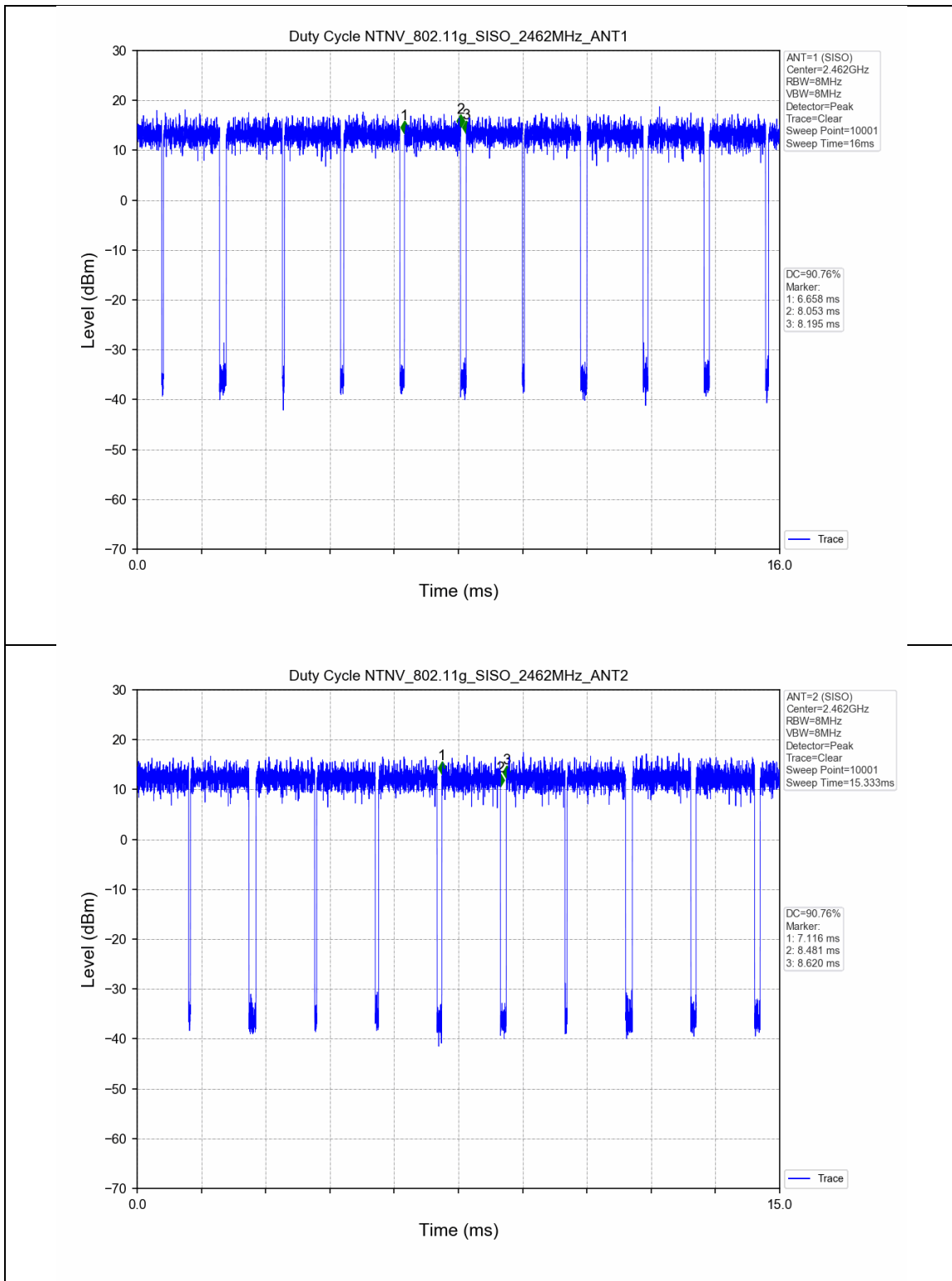
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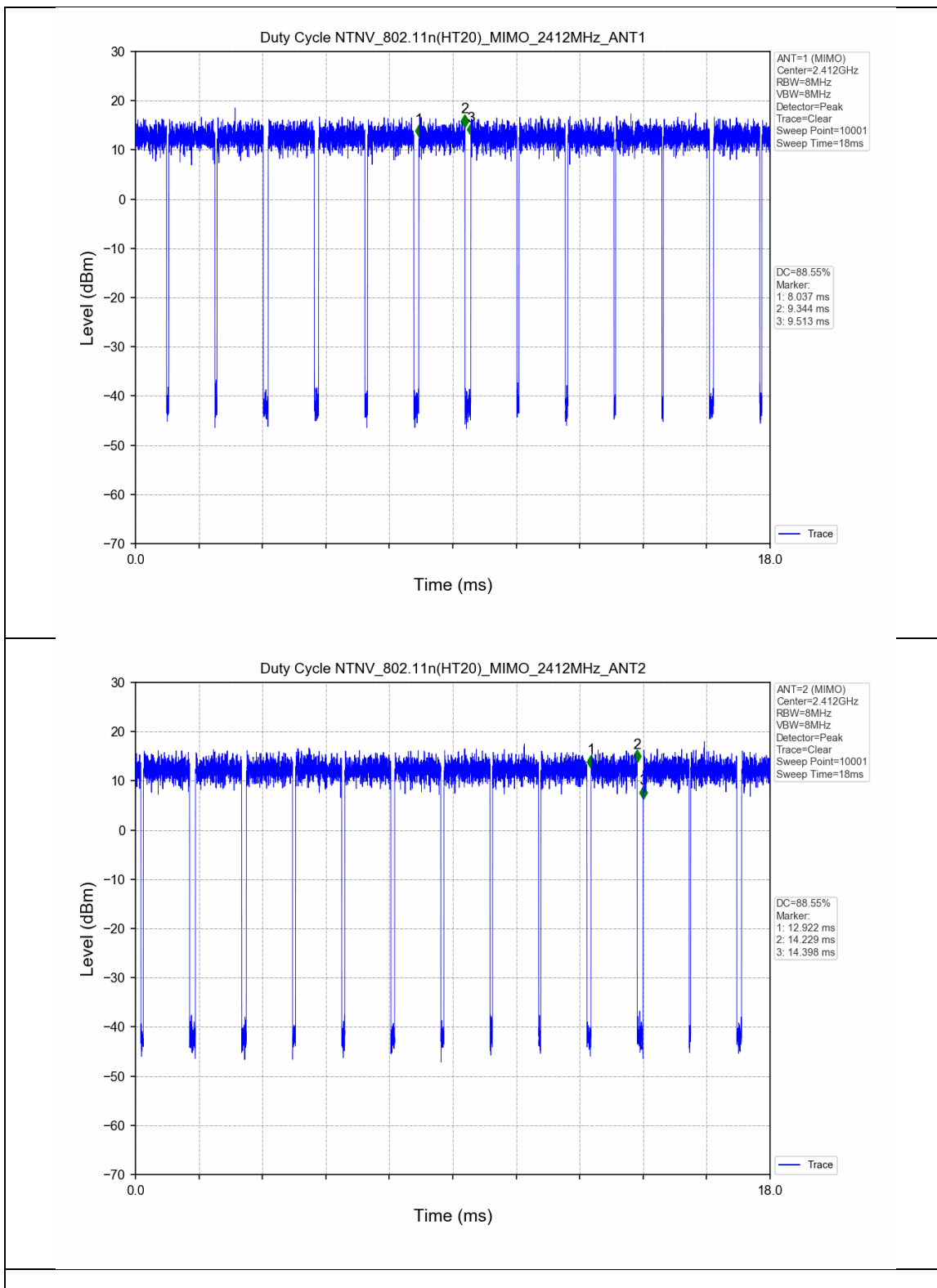
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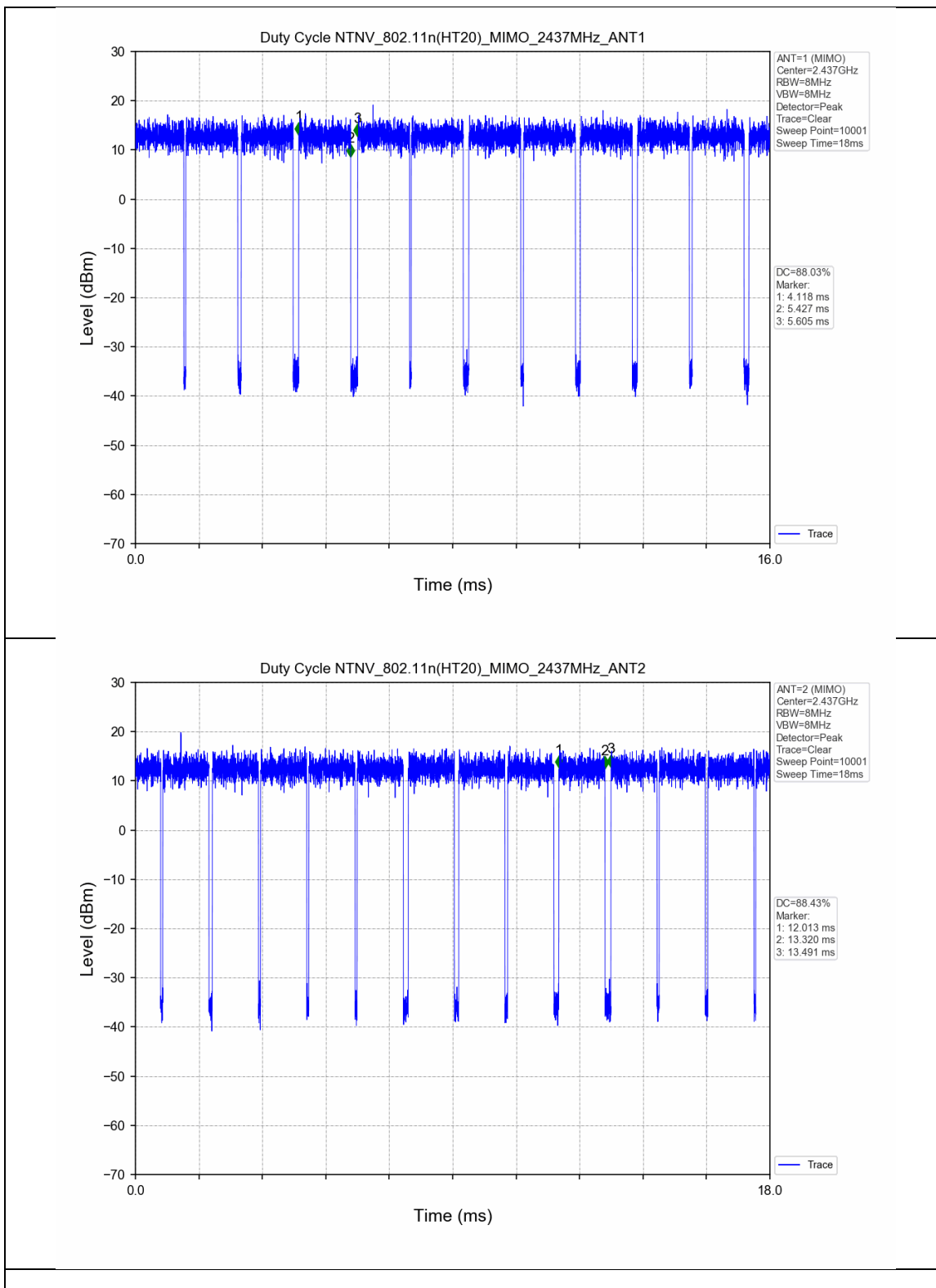
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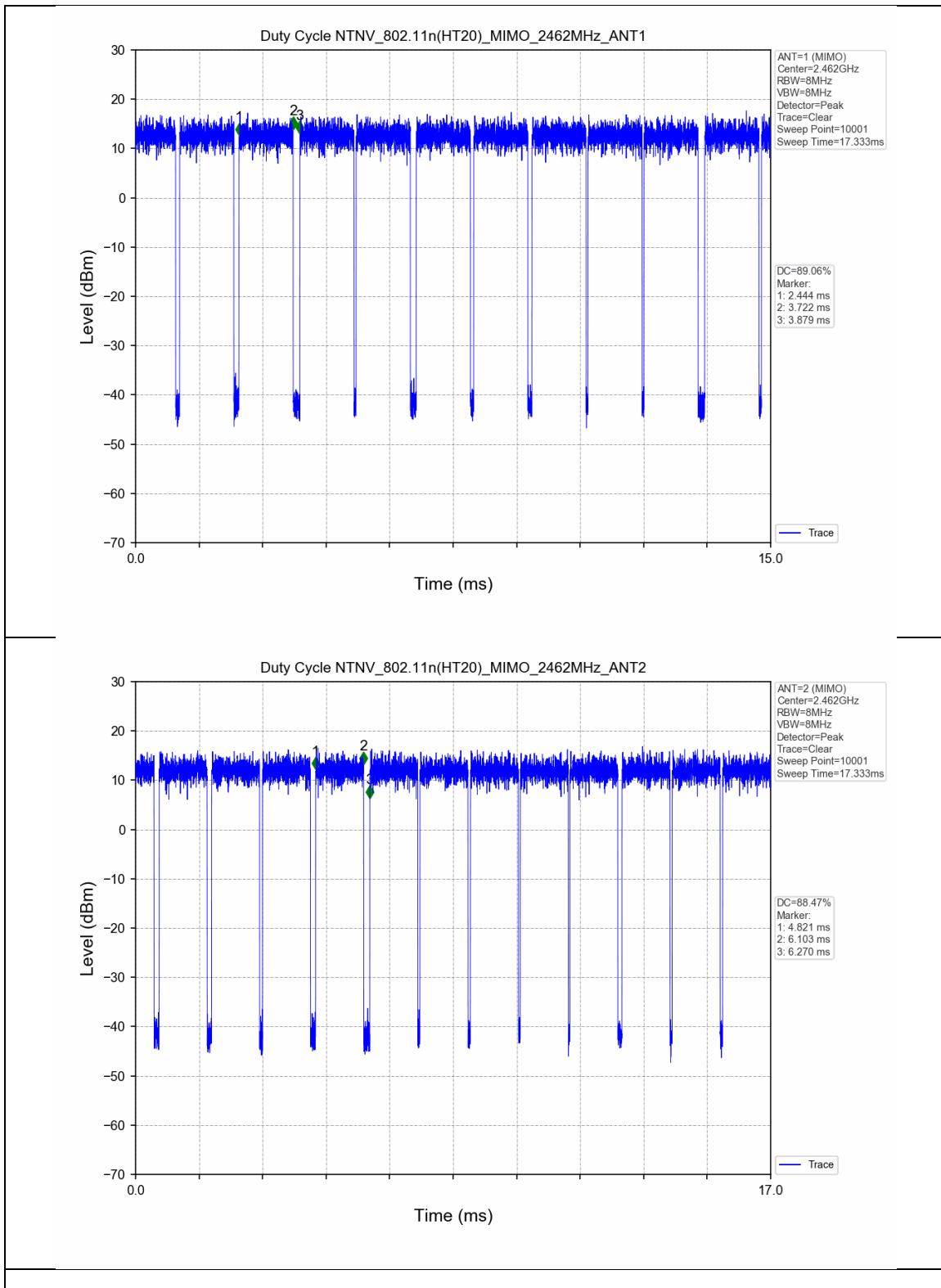
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## 2. Bandwidth

### 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       | 10.050            | ≥0.5         | PASS    |
|               |                 |         | 2       | 9.108             | ≥0.5         | PASS    |
|               | 2437            | SISO    | 1       | 9.535             | ≥0.5         | PASS    |
|               |                 |         | 2       | 10.041            | ≥0.5         | PASS    |
|               | 2462            | SISO    | 1       | 9.102             | ≥0.5         | PASS    |
|               |                 |         | 2       | 10.058            | ≥0.5         | PASS    |
| 802.11g       | 2412            | SISO    | 1       | 15.154            | ≥0.5         | PASS    |
|               |                 |         | 2       | 15.032            | ≥0.5         | PASS    |
|               | 2437            | SISO    | 1       | 15.138            | ≥0.5         | PASS    |
|               |                 |         | 2       | 15.088            | ≥0.5         | PASS    |
|               | 2462            | SISO    | 1       | 15.092            | ≥0.5         | PASS    |
|               |                 |         | 2       | 15.110            | ≥0.5         | PASS    |
| 802.11n(HT20) | 2412            | MIMO    | 1       | 15.179            | ≥0.5         | PASS    |
|               |                 |         | 2       | 15.126            | ≥0.5         | PASS    |
|               | 2437            | MIMO    | 1       | 15.061            | ≥0.5         | PASS    |
|               |                 |         | 2       | 15.129            | ≥0.5         | PASS    |
|               | 2462            | MIMO    | 1       | 15.106            | ≥0.5         | PASS    |
|               |                 |         | 2       | 16.308            | ≥0.5         | PASS    |

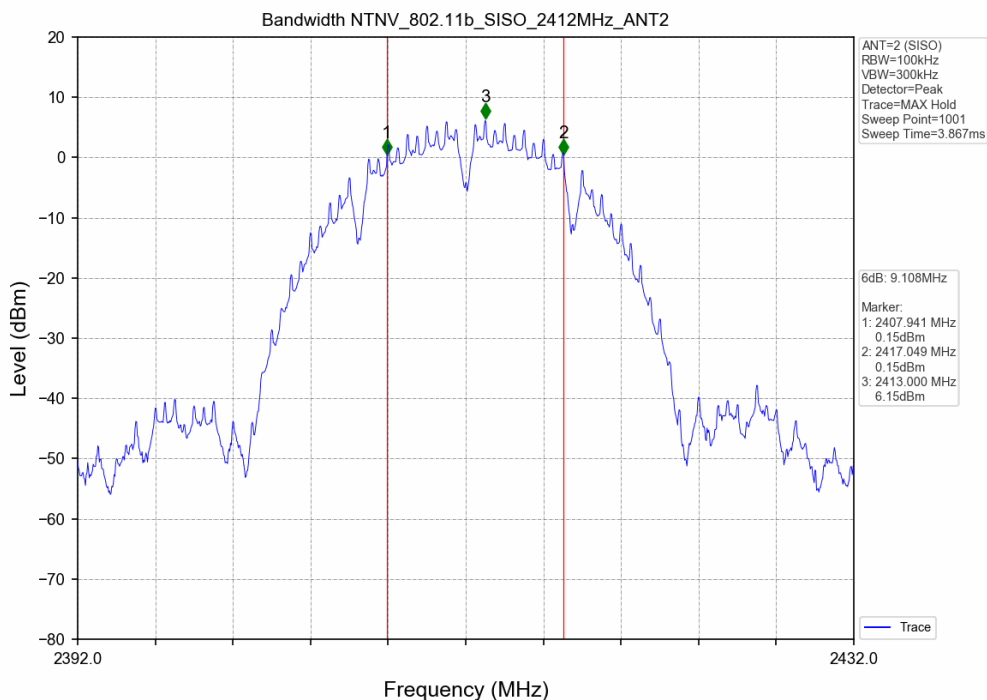
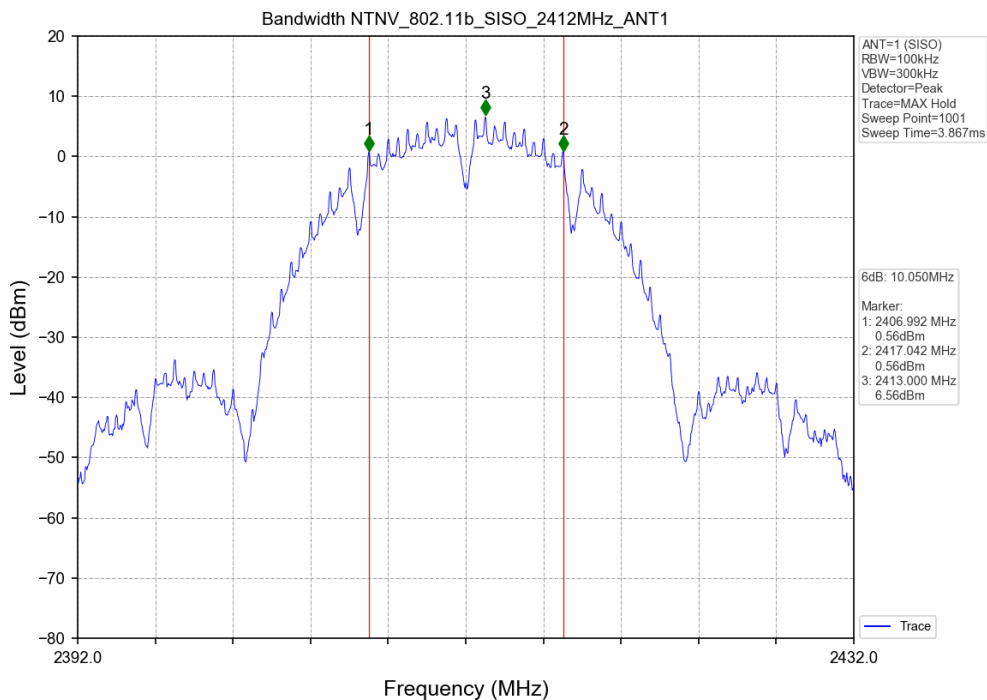
| Test Mode     | Frequency (MHz) | TX Type | ANT No. | 99% Occupied Bandwidth |                     |
|---------------|-----------------|---------|---------|------------------------|---------------------|
|               |                 |         |         | Test Result (MHz)      |                     |
| 802.11b       | 2412            | SISO    | 1       | 14.441                 | Only for Report Use |
|               |                 |         | 2       | 14.227                 | Only for Report Use |
|               | 2437            | SISO    | 1       | 14.329                 | Only for Report Use |
|               |                 |         | 2       | 14.121                 | Only for Report Use |
|               | 2462            | SISO    | 1       | 14.335                 | Only for Report Use |
|               |                 |         | 2       | 14.243                 | Only for Report Use |
| 802.11g       | 2412            | SISO    | 1       | 16.721                 | Only for Report Use |
|               |                 |         | 2       | 16.711                 | Only for Report Use |
|               | 2437            | SISO    | 1       | 16.701                 | Only for Report Use |
|               |                 |         | 2       | 16.679                 | Only for Report Use |
|               | 2462            | SISO    | 1       | 16.724                 | Only for Report Use |
|               |                 |         | 2       | 16.730                 | Only for Report Use |
| 802.11n(HT20) | 2412            | MIMO    | 1       | 17.600                 | Only for Report Use |
|               |                 |         | 2       | 17.484                 | Only for Report Use |
|               | 2437            | MIMO    | 1       | 17.568                 | Only for Report Use |
|               |                 |         | 2       | 17.465                 | Only for Report Use |
|               | 2462            | MIMO    | 1       | 17.575                 | Only for Report Use |
|               |                 |         | 2       | 17.515                 | Only for Report Use |

### 2.2 Test Graph - 6dB Bandwidth



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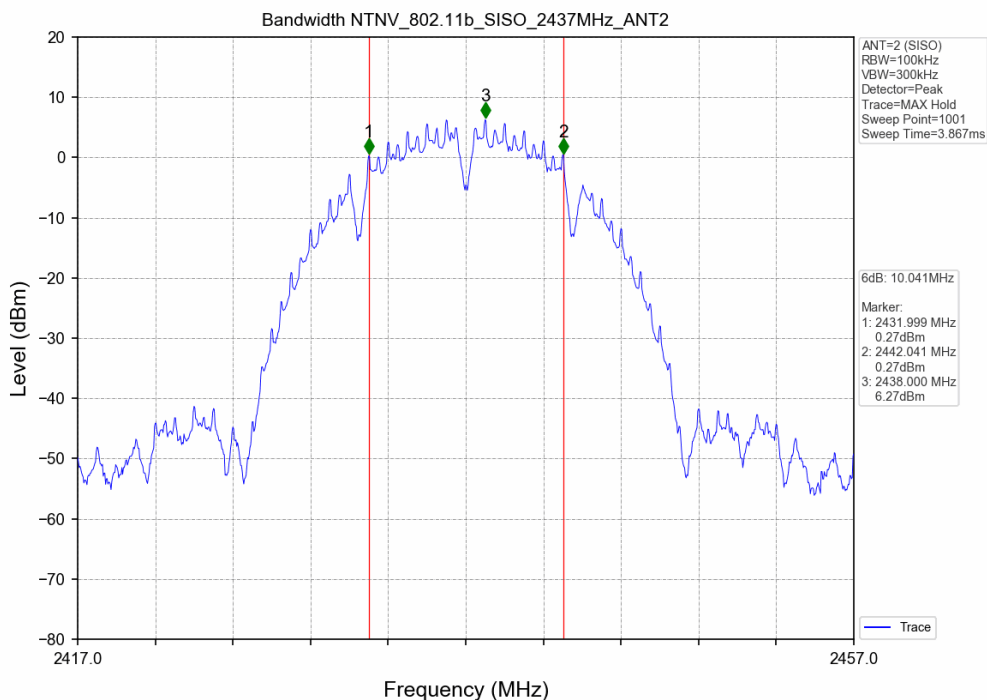
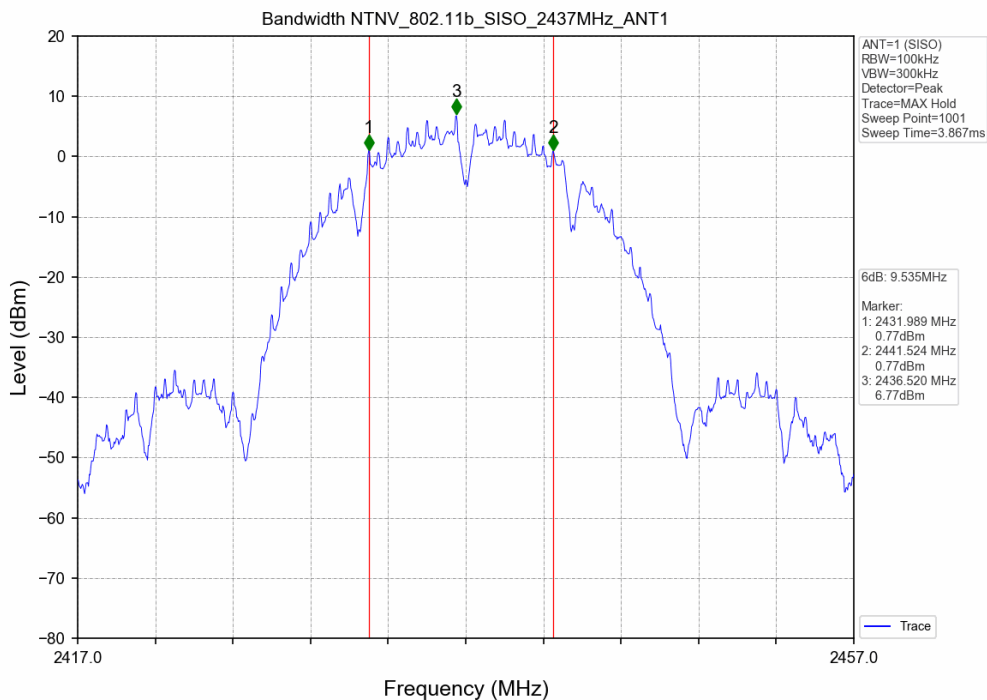
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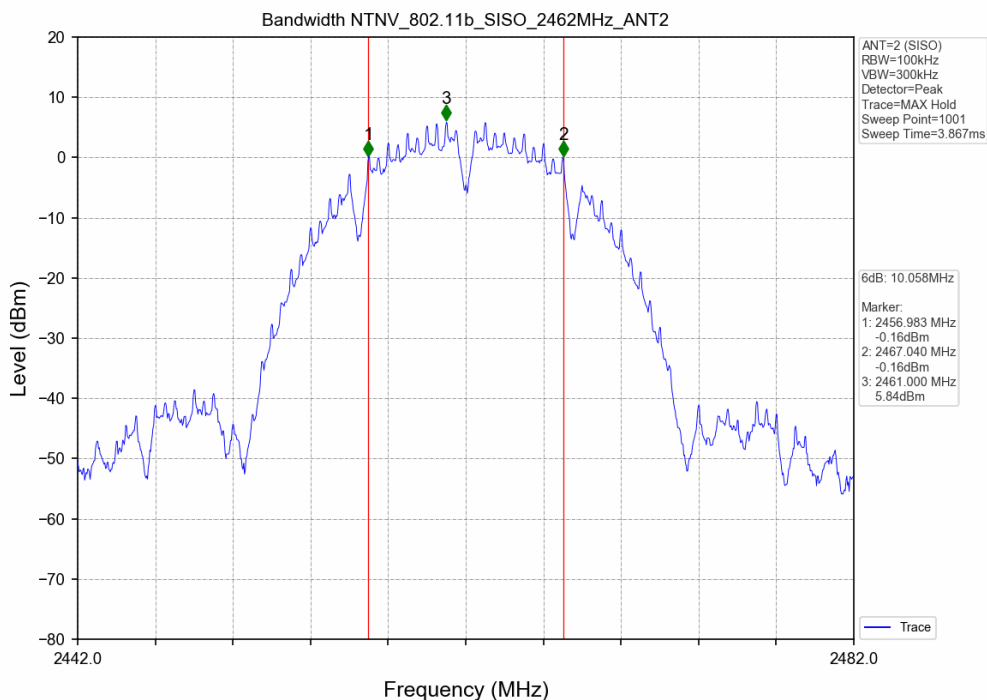
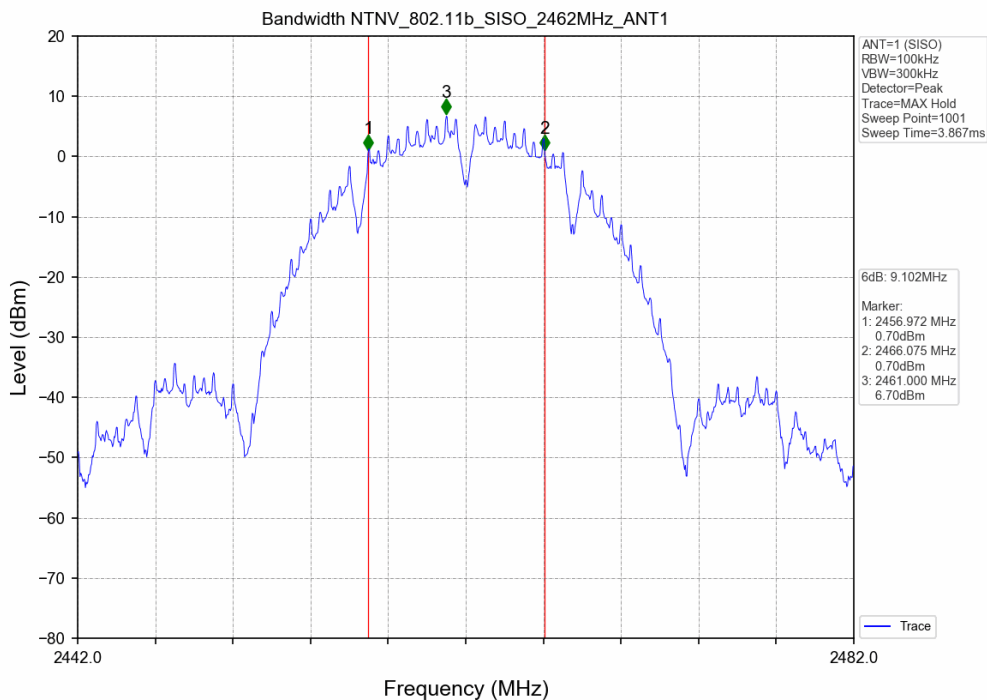
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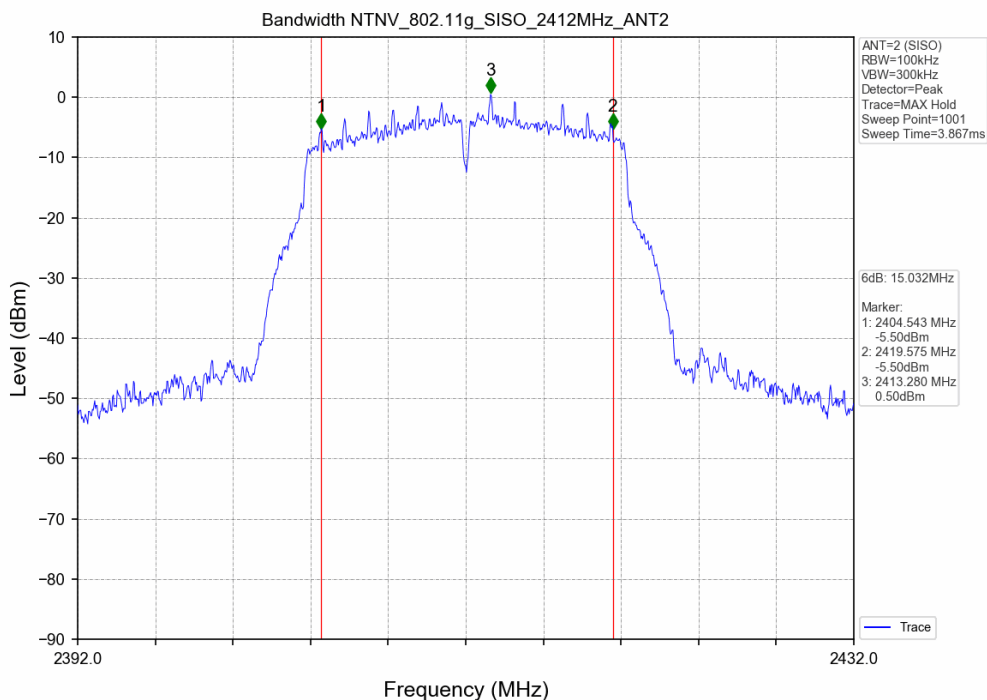
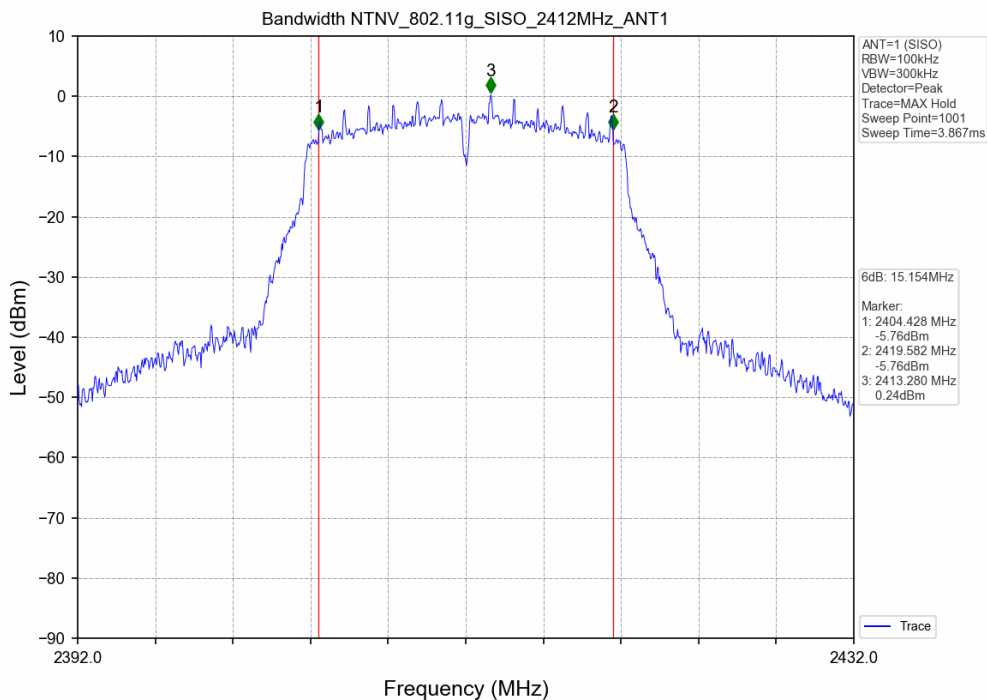
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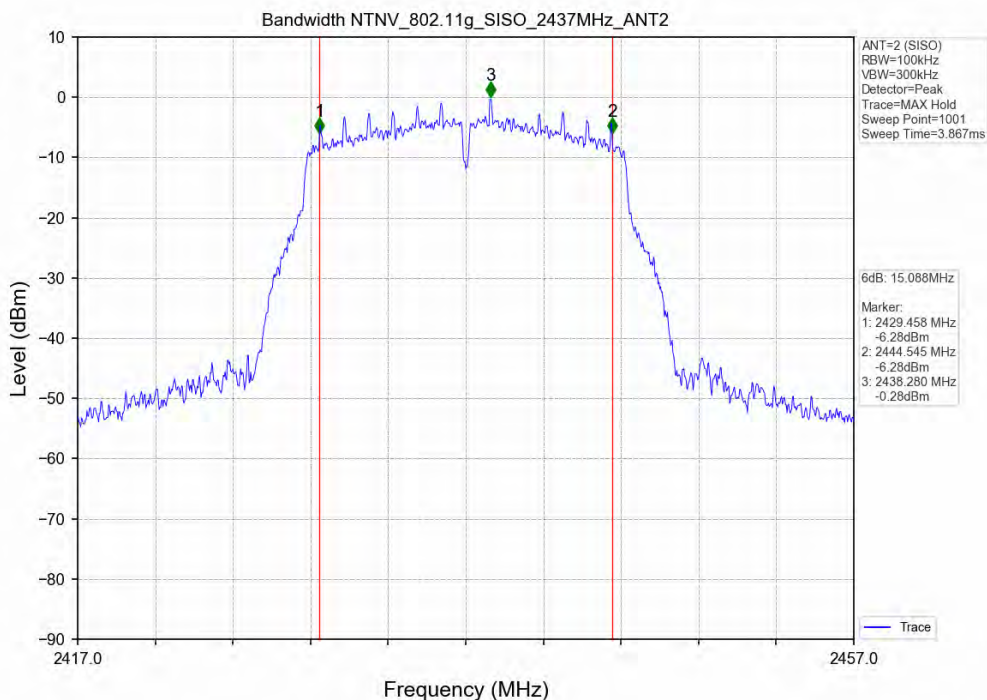
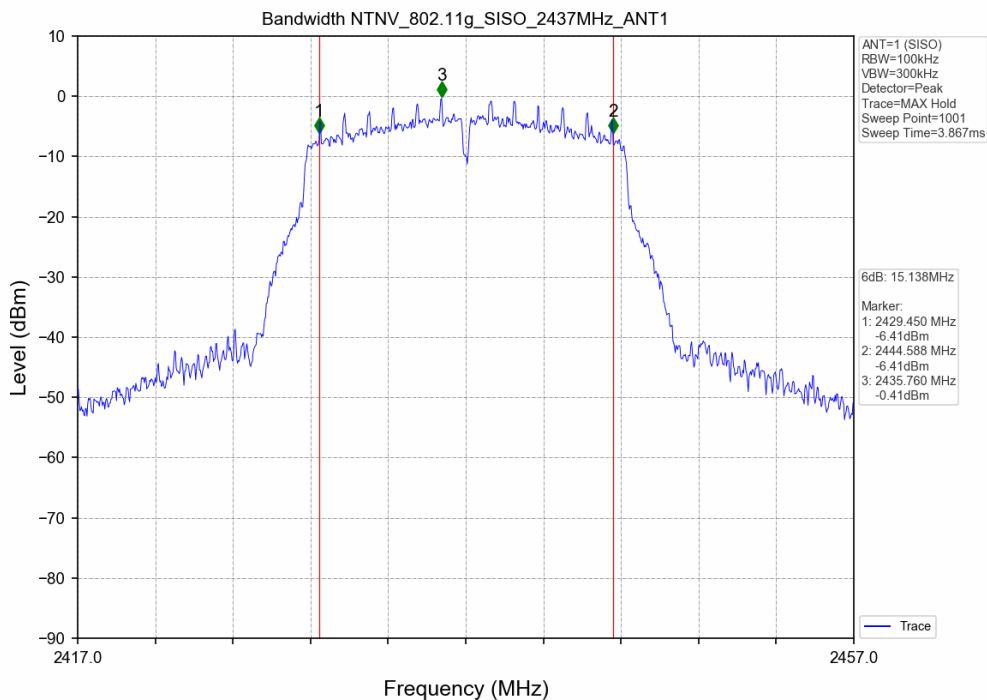


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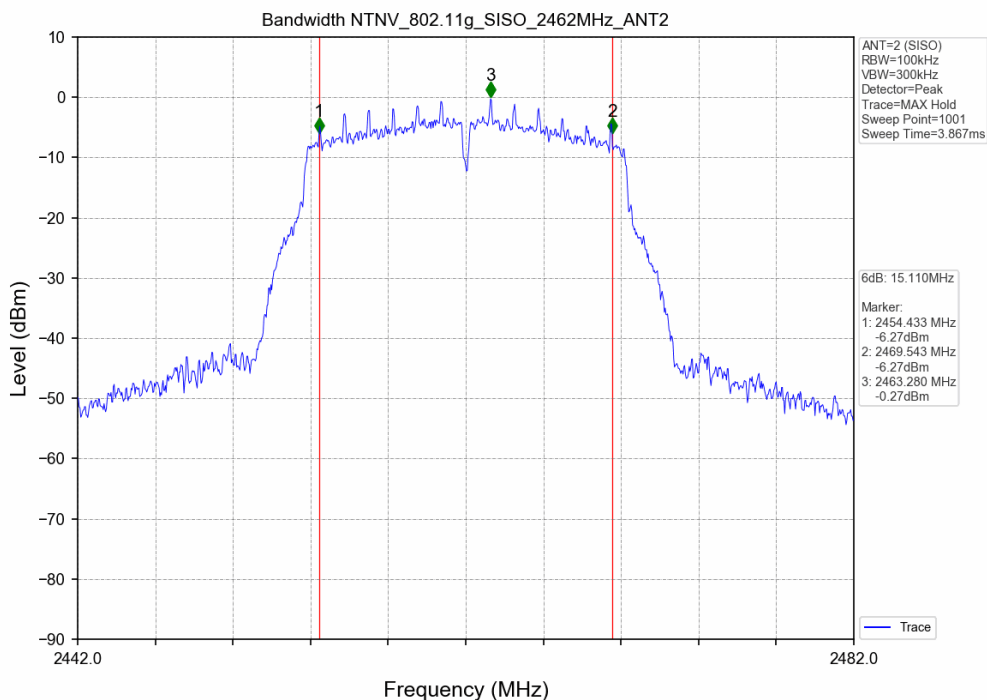
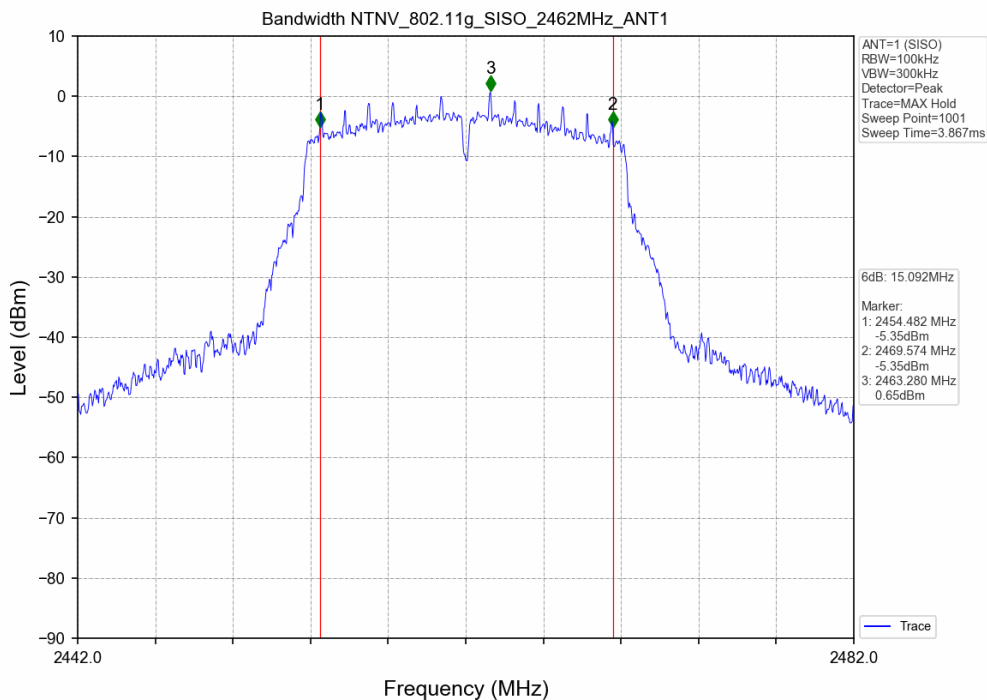
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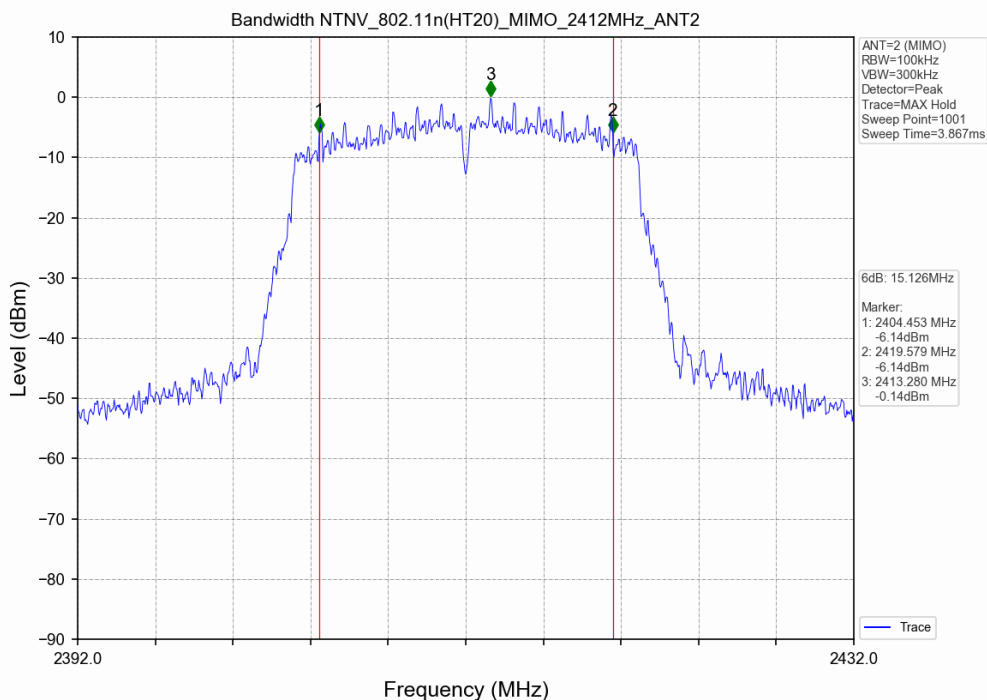
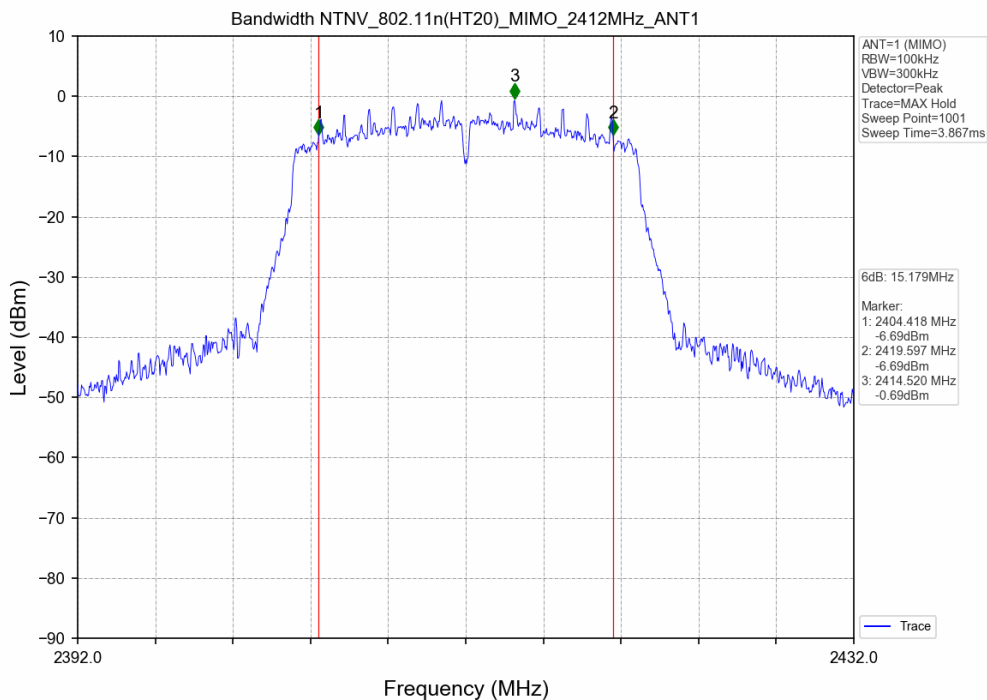
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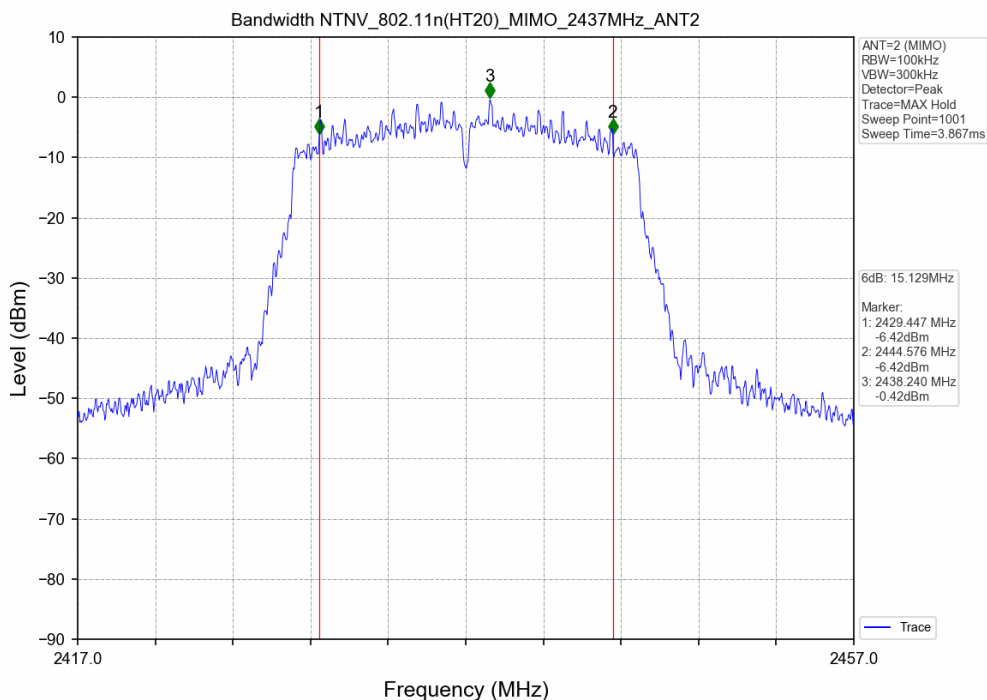
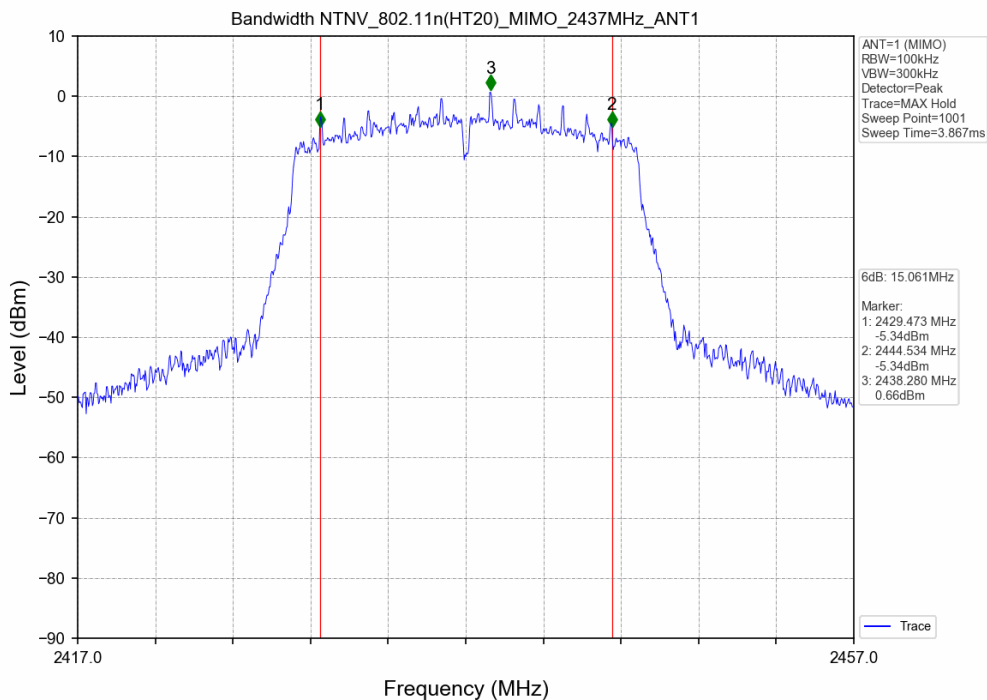


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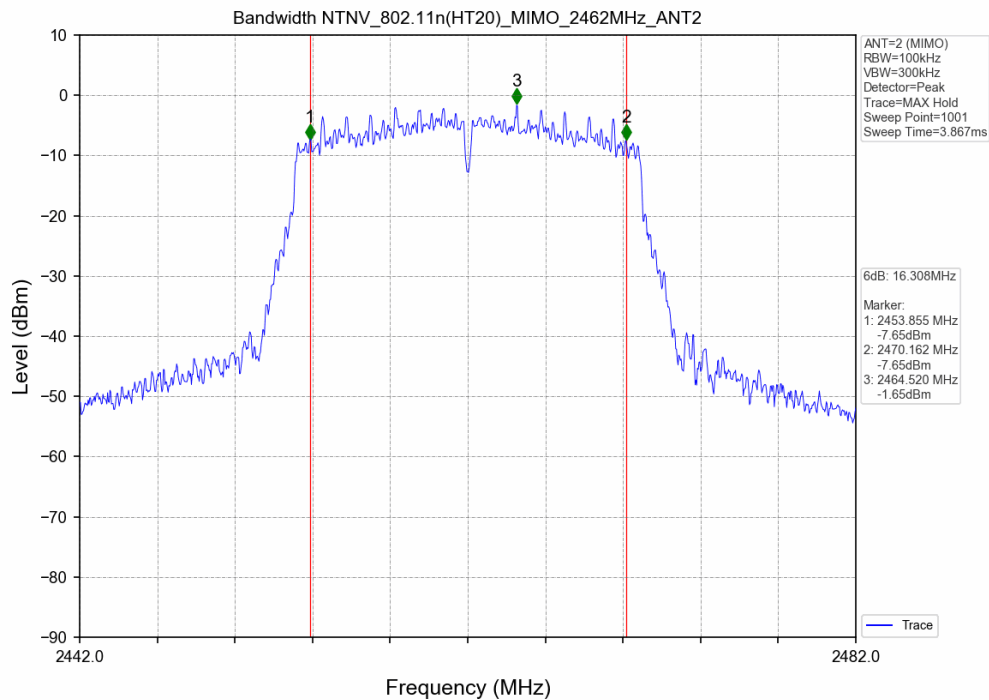
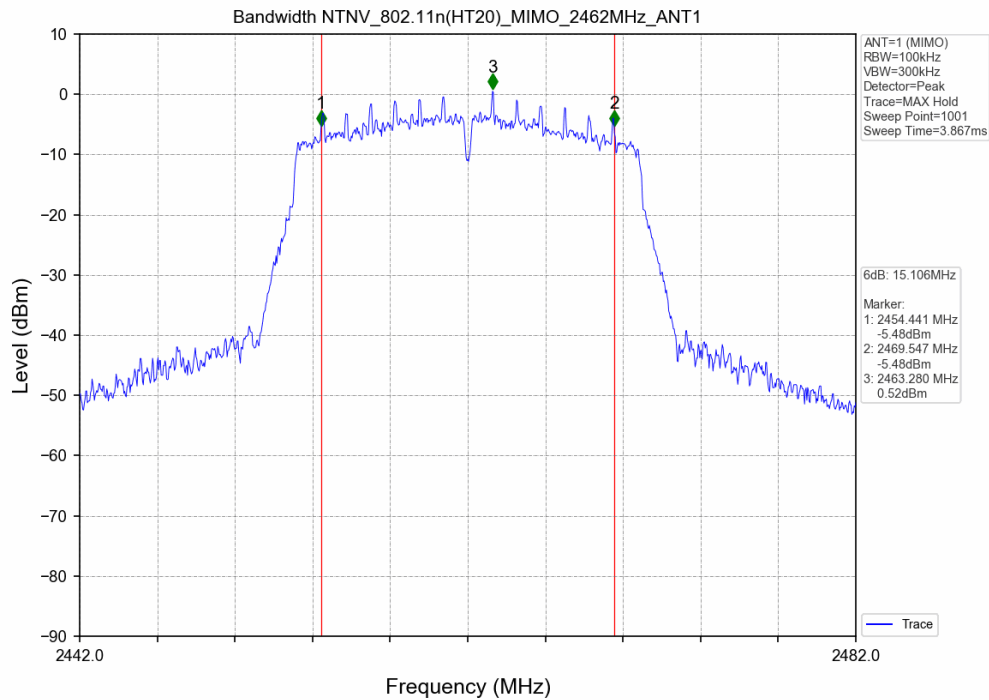
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### 2.3 Test Graph - 99% Occupied Bandwidth



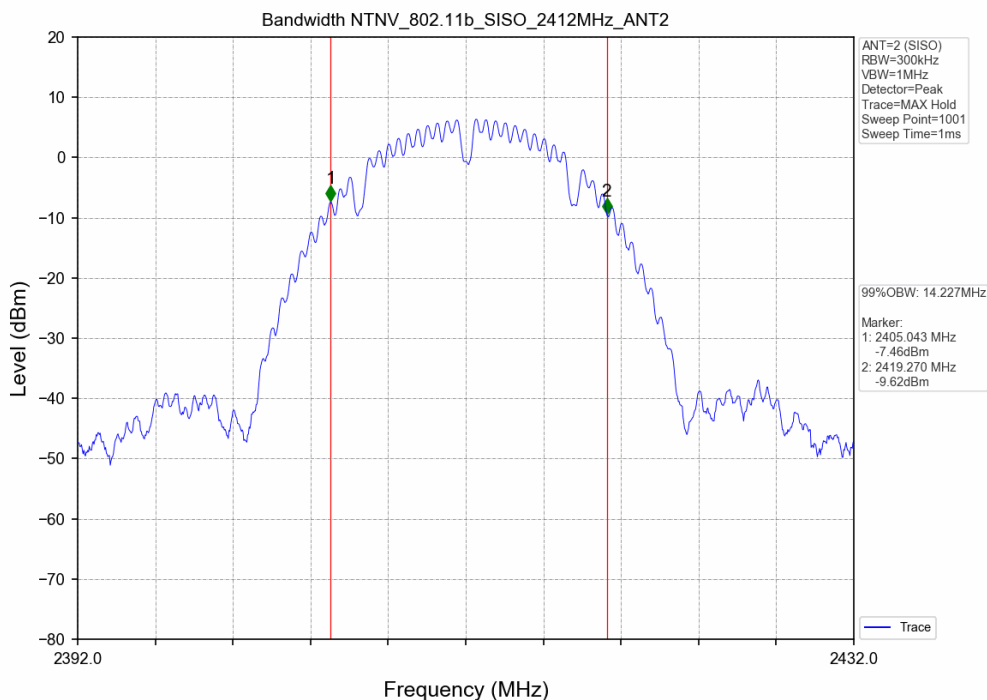
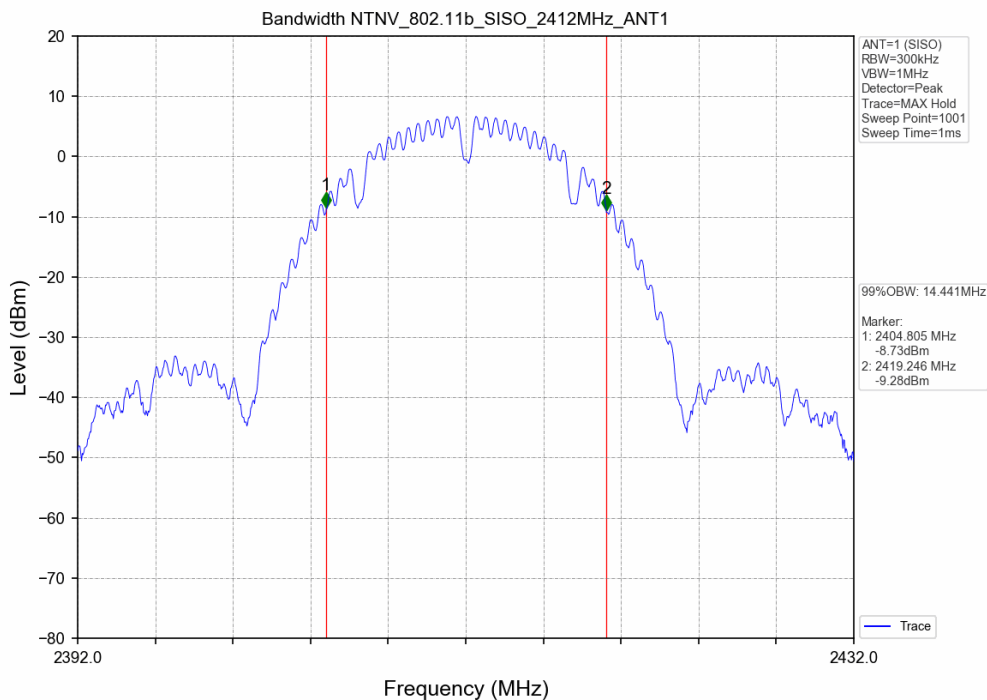
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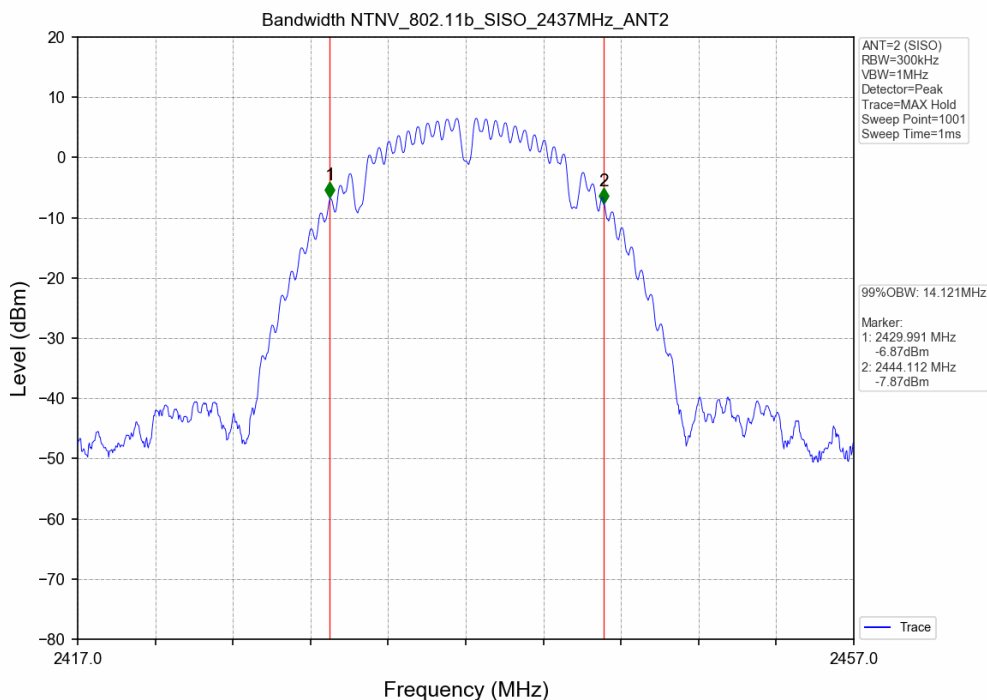
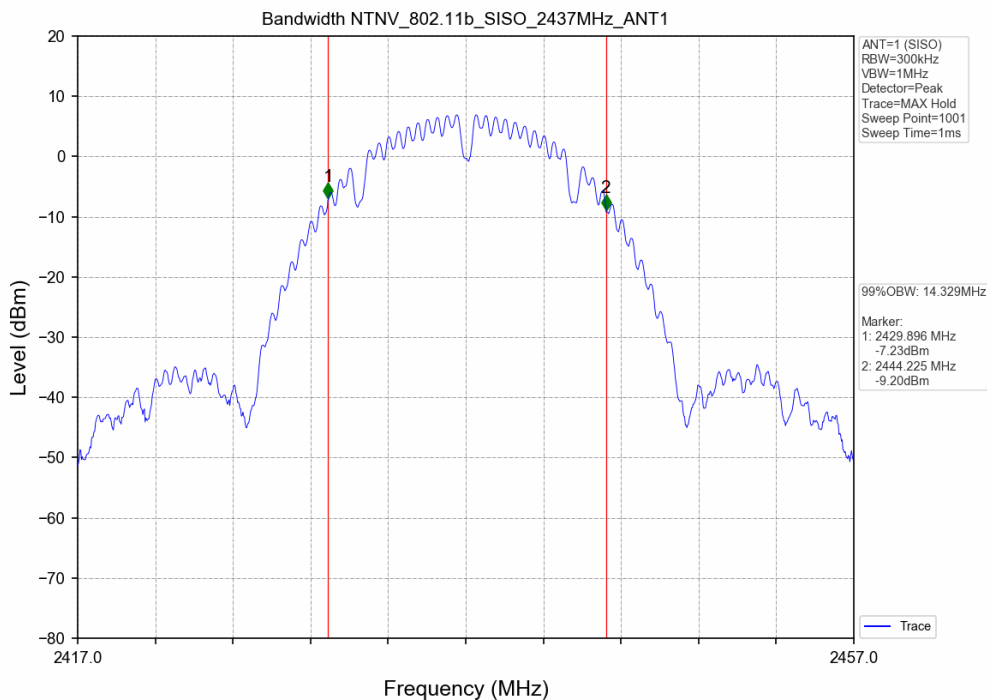


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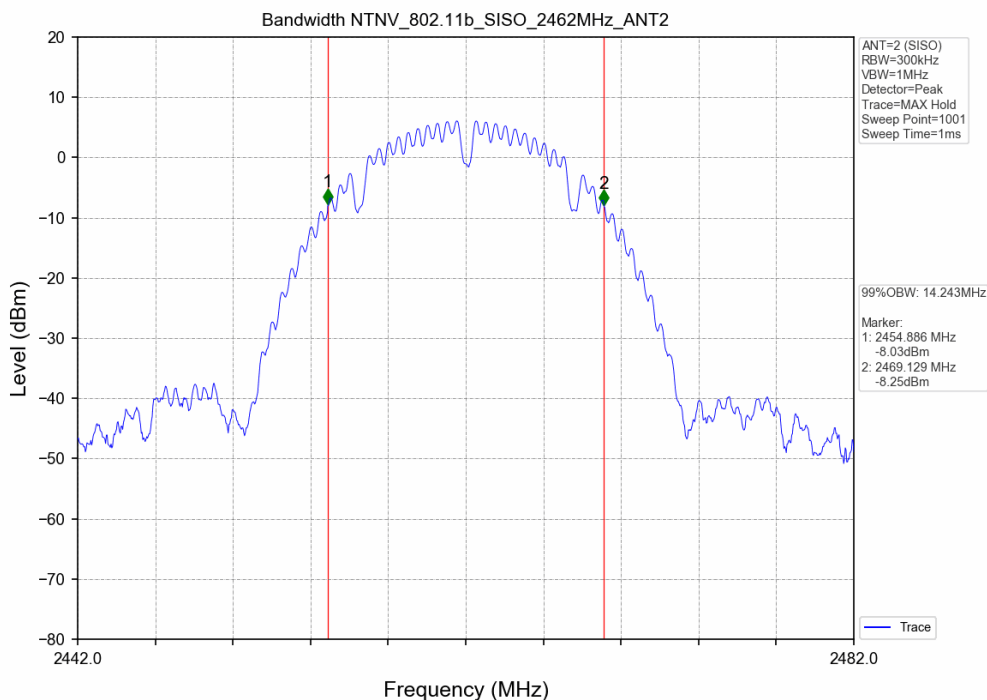
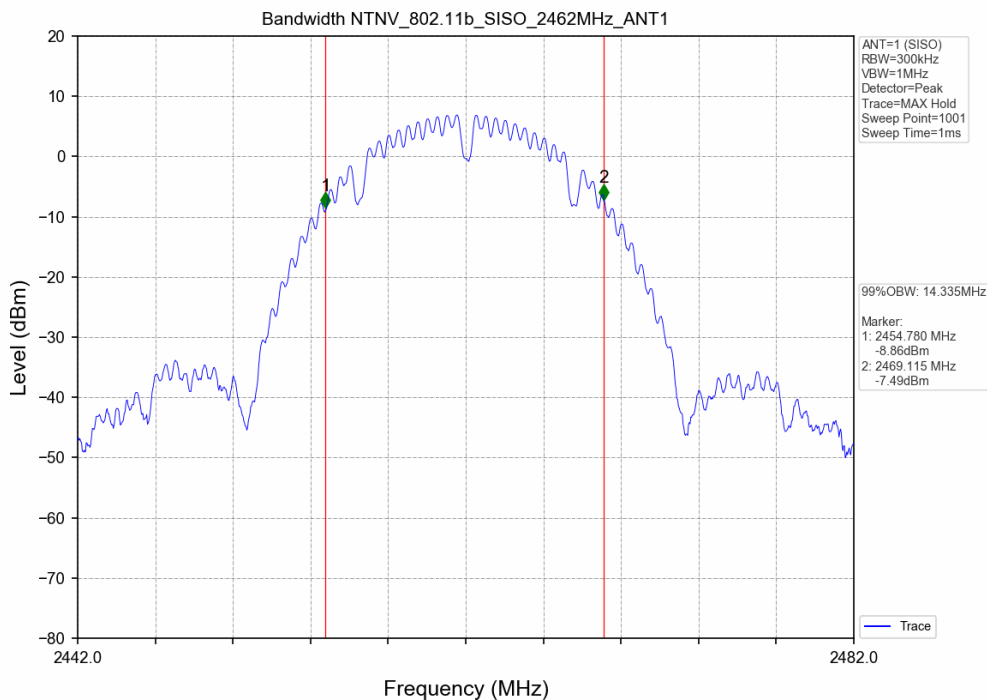
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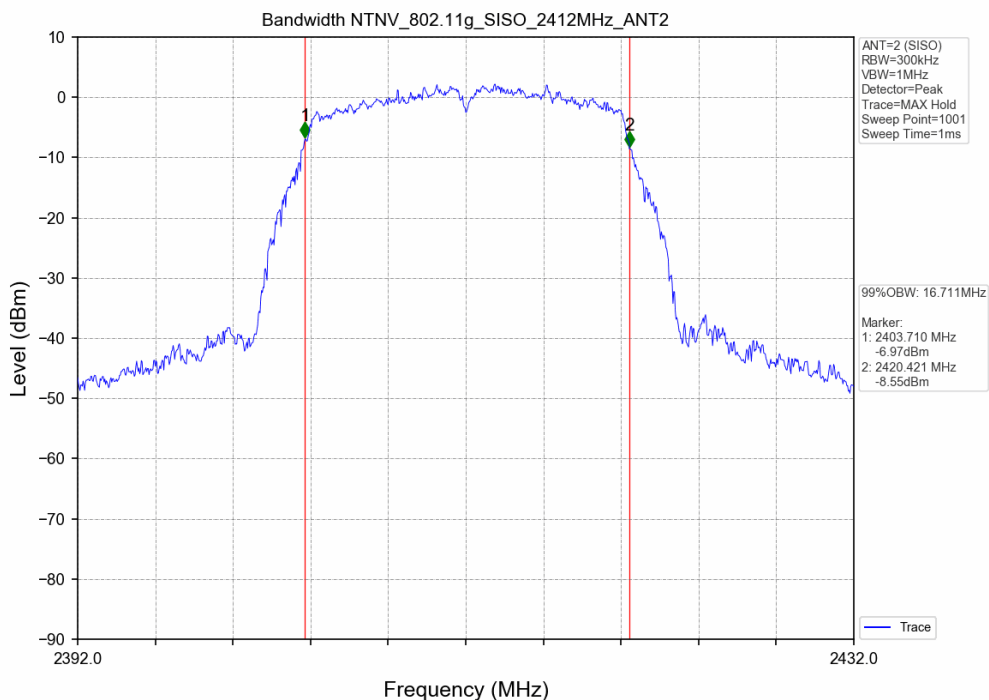
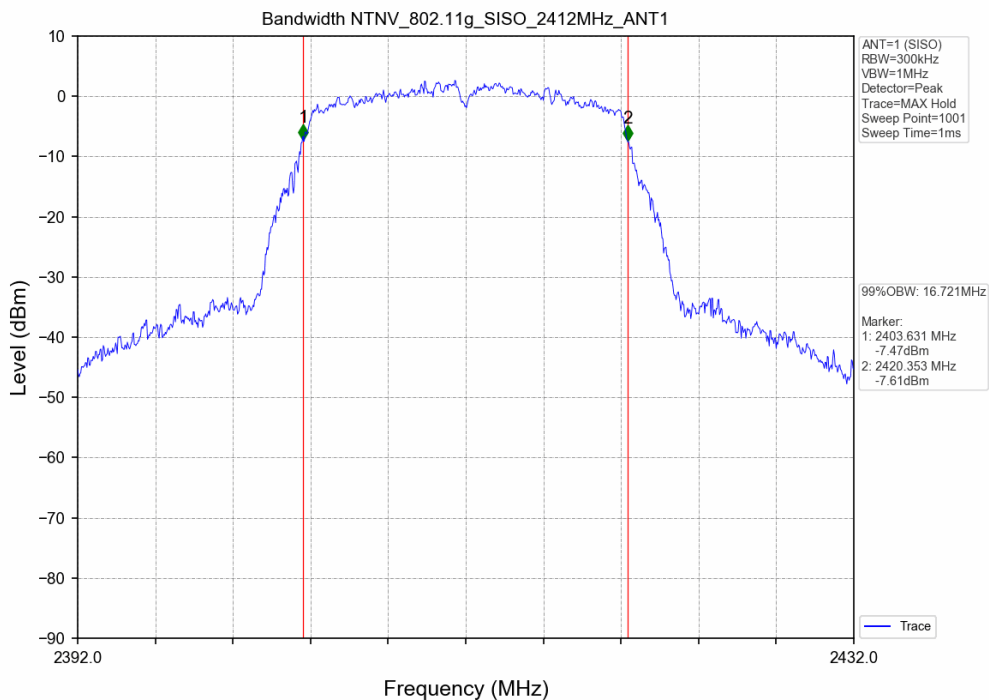
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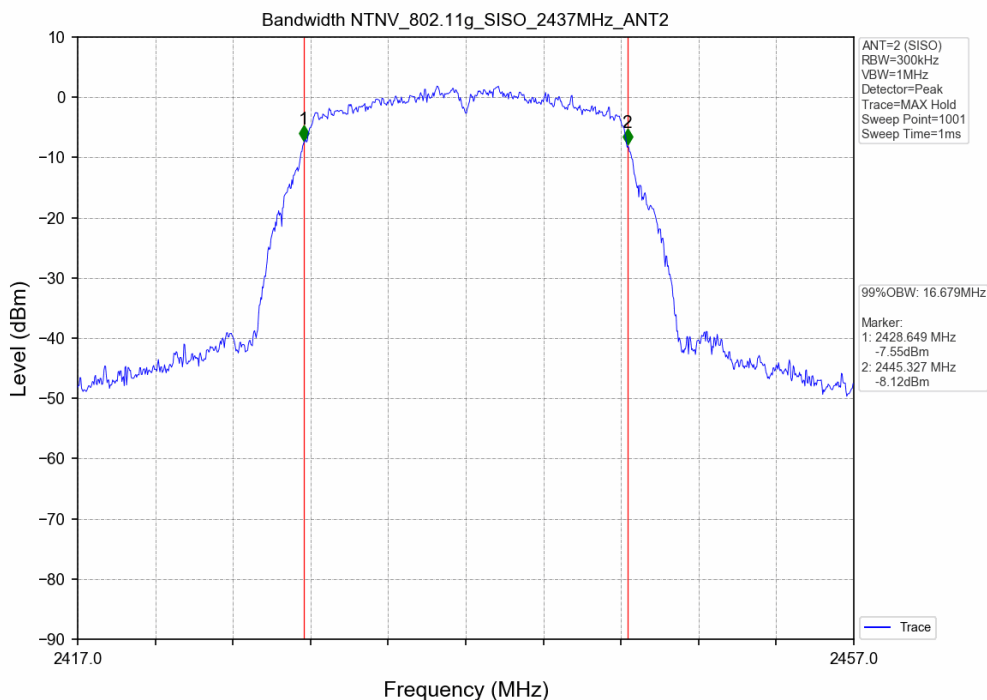
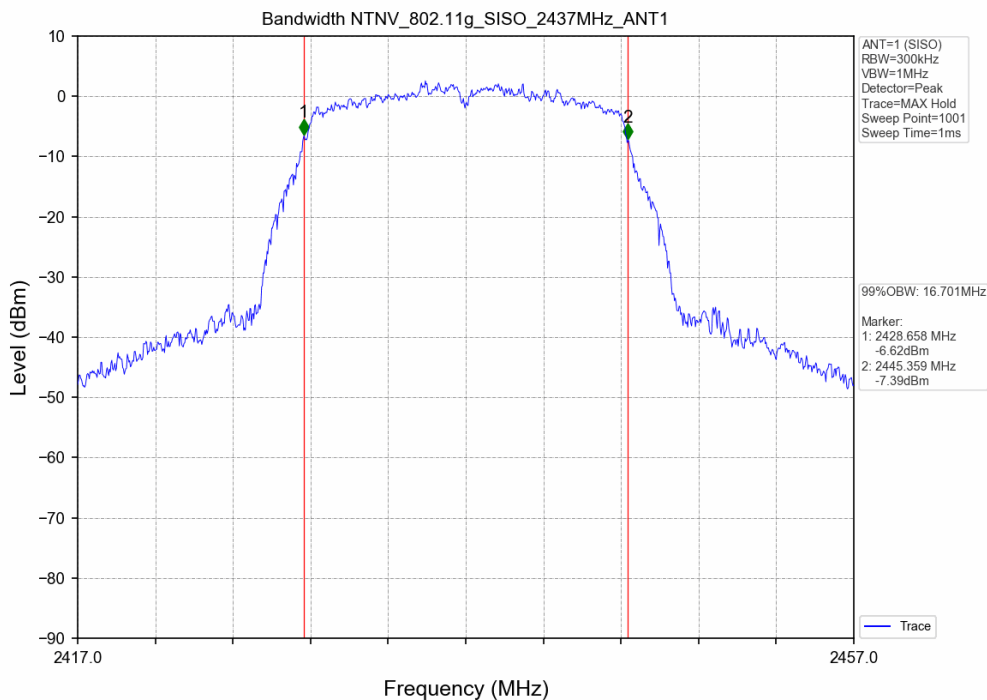
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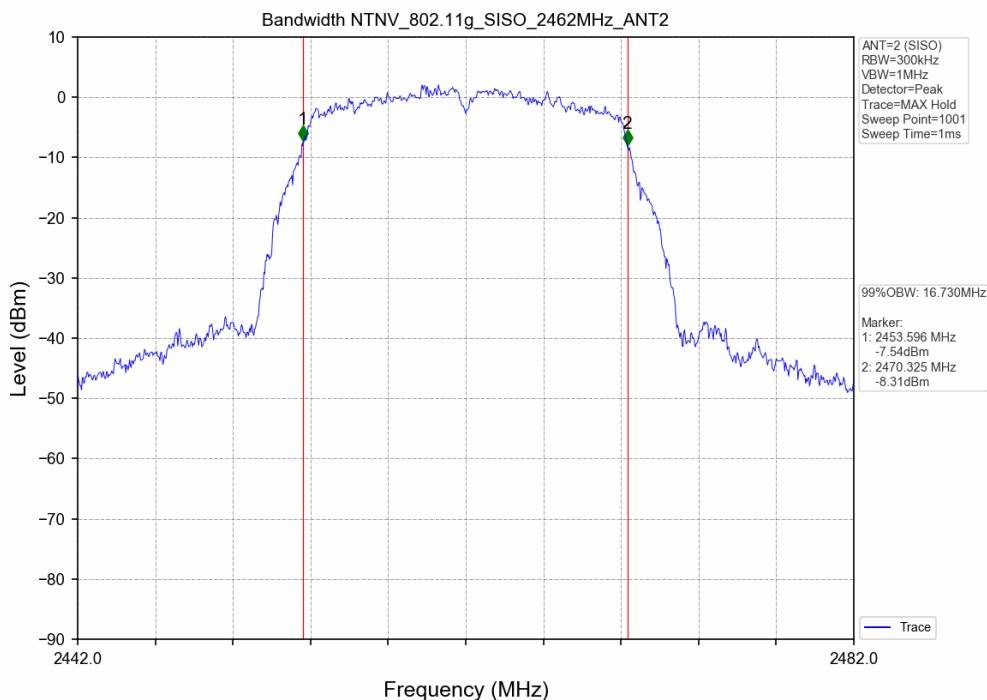
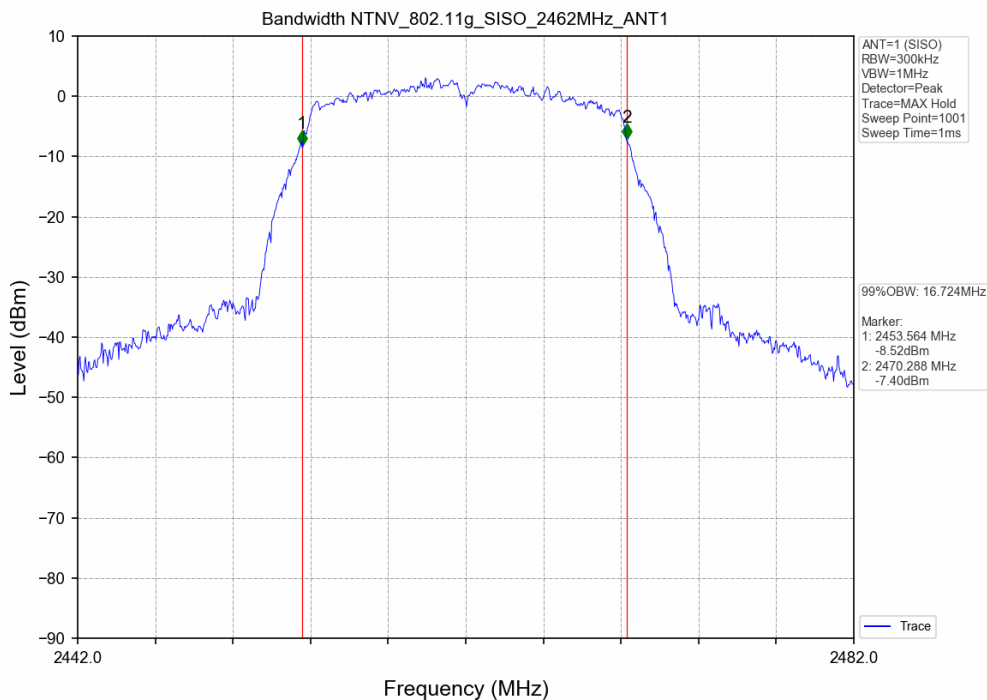
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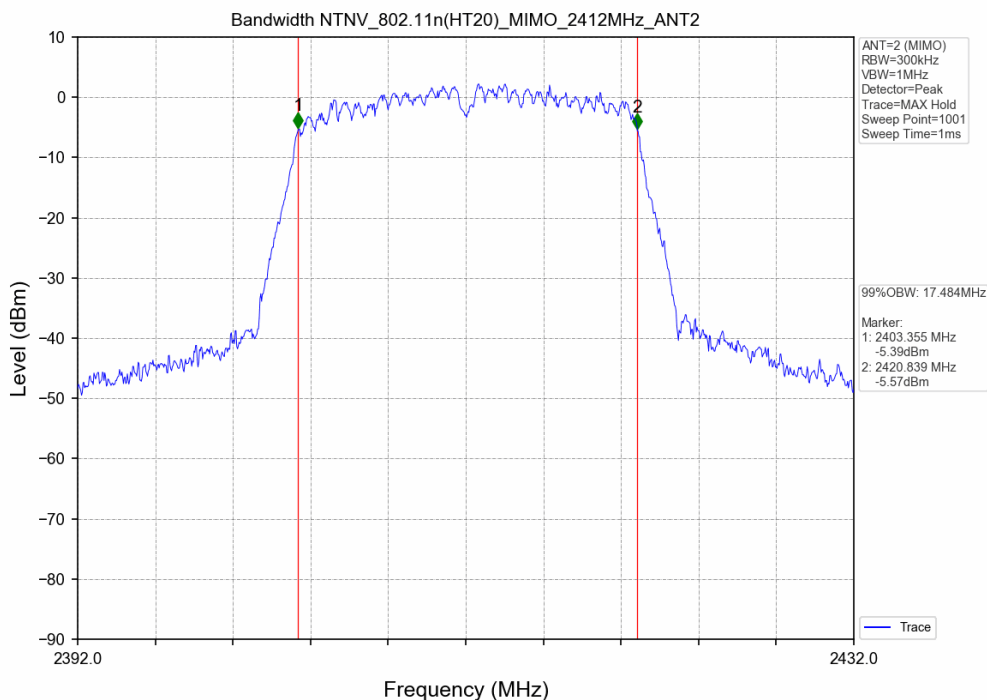
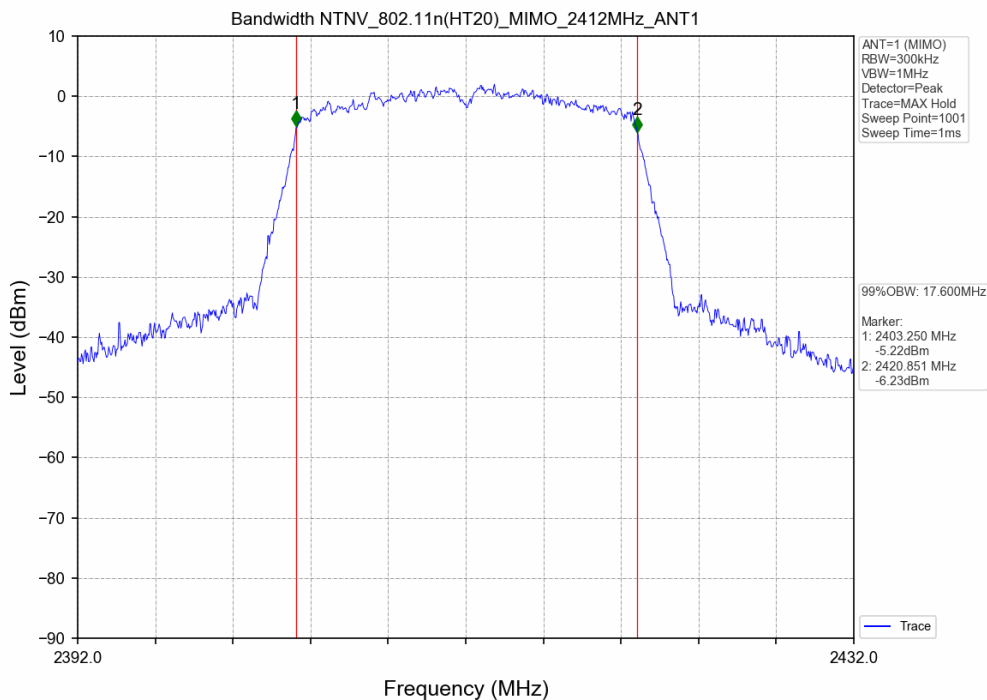
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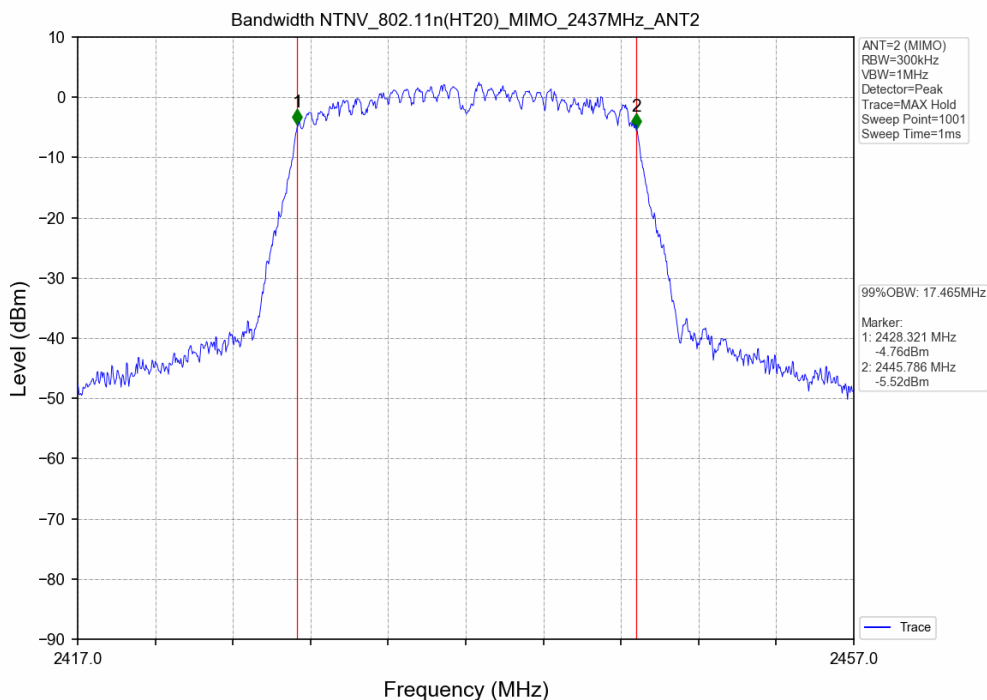
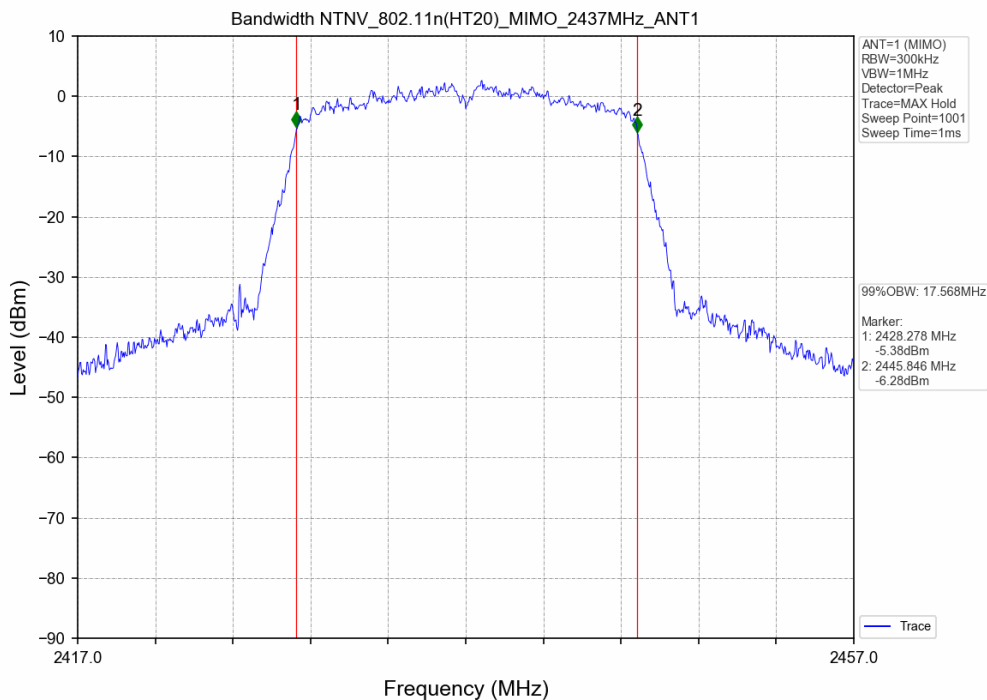
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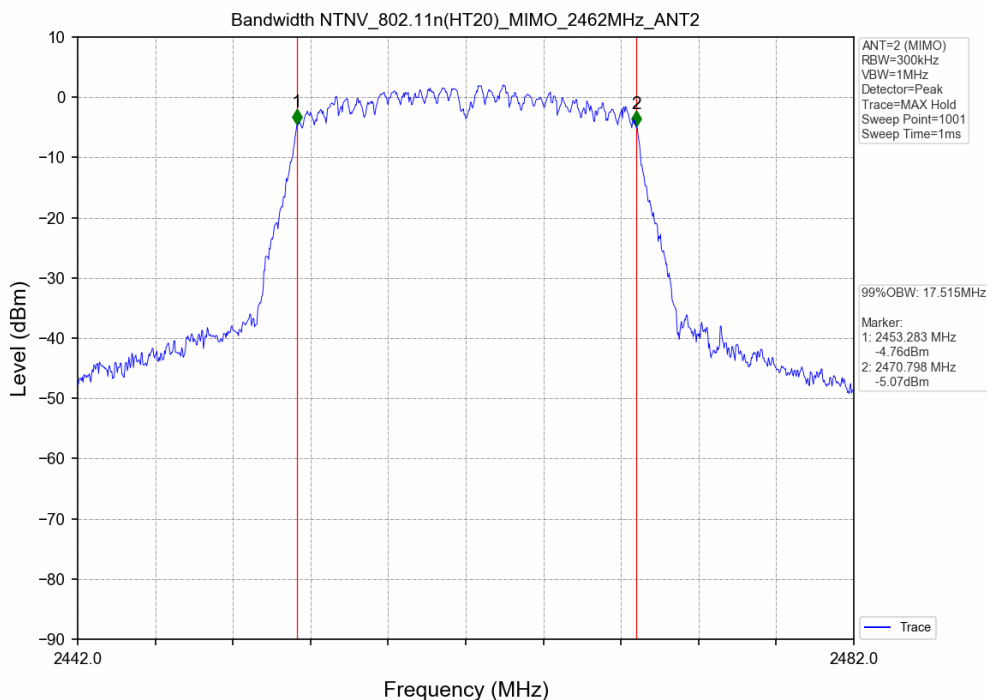
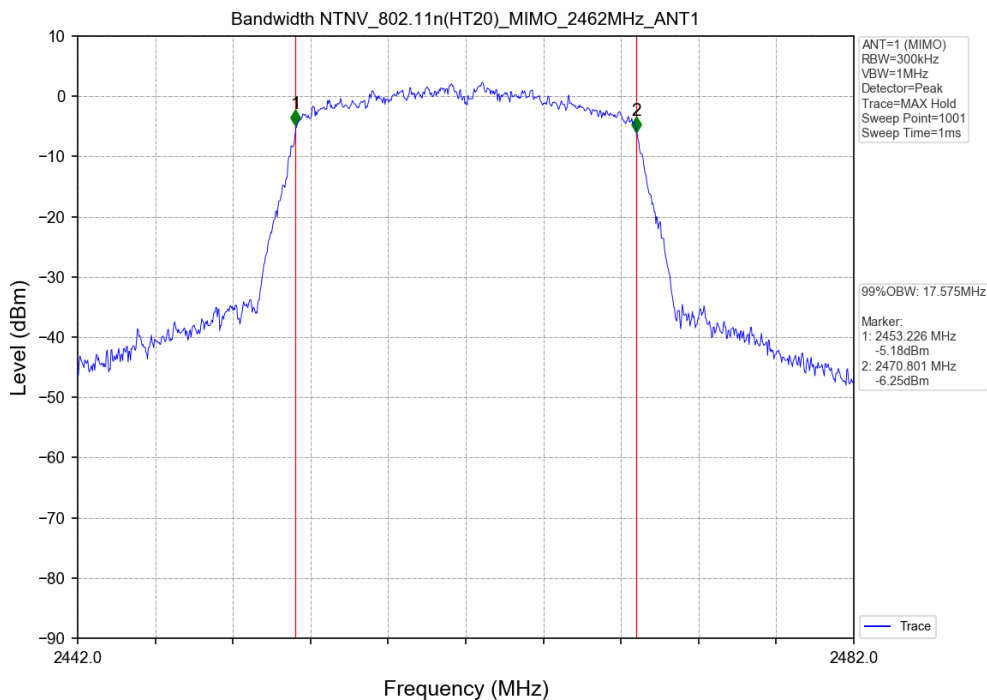
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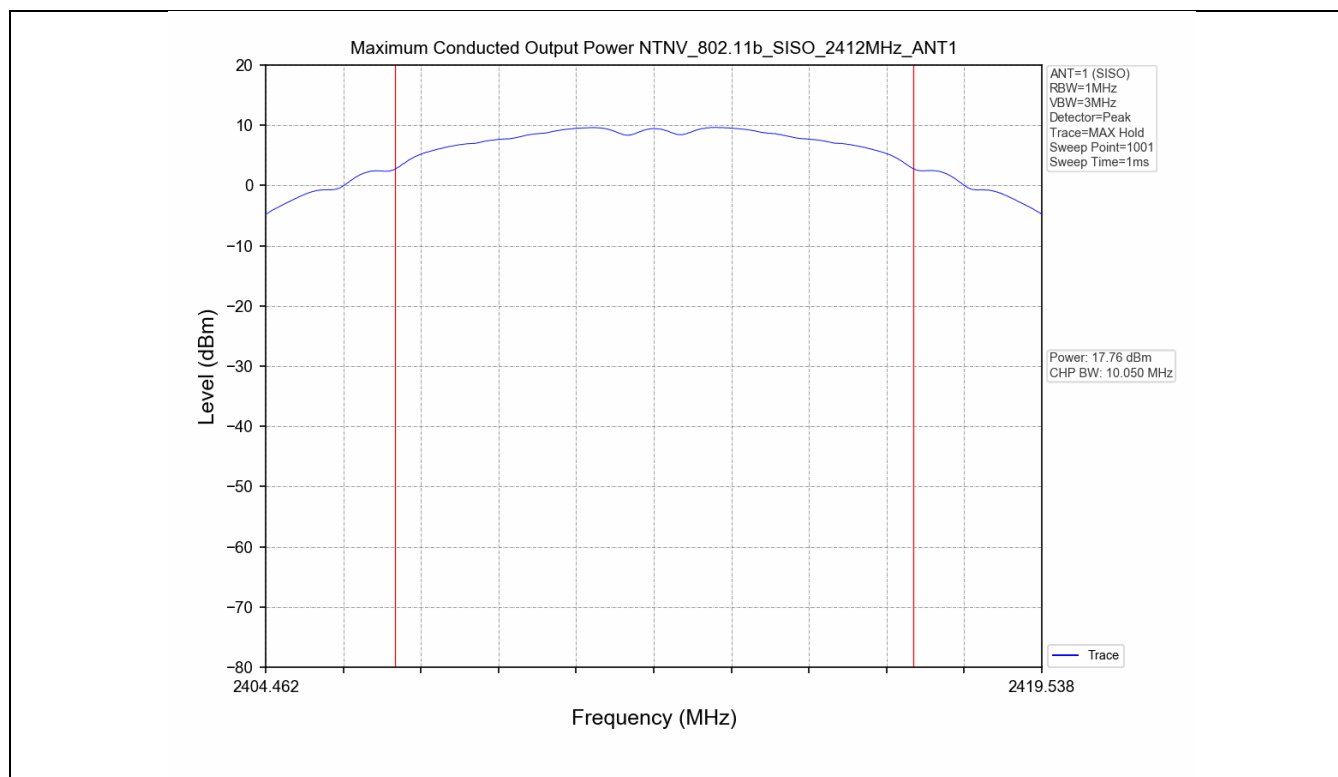
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### 3. Maximum Conducted Output Power

#### 3.1 Test Result

| Test Mode     | Frequency (MHz) | Tx Type | Measured Peak Output Power (dBm) |       |       | Limits (dBm) | Verdict |
|---------------|-----------------|---------|----------------------------------|-------|-------|--------------|---------|
|               |                 |         | Ant 1                            | Ant 2 | Total |              |         |
| 802.11b       | 2412            | SISO    | 17.76                            | 17.03 | /     | 30           | PASS    |
|               | 2437            | SISO    | 17.77                            | 17.42 | /     | 30           | PASS    |
|               | 2462            | SISO    | 17.62                            | 17.00 | /     | 30           | PASS    |
| 802.11g       | 2412            | SISO    | 17.74                            | 17.49 | /     | 30           | PASS    |
|               | 2437            | SISO    | 17.50                            | 17.02 | /     | 30           | PASS    |
|               | 2462            | SISO    | 17.99                            | 17.14 | /     | 30           | PASS    |
| 802.11n(HT20) | 2412            | MIMO    | 17.33                            | 17.42 | 20.39 | 29.69        | PASS    |
|               | 2437            | MIMO    | 17.62                            | 17.55 | 20.60 | 29.69        | PASS    |
|               | 2462            | MIMO    | 17.80                            | 17.41 | 20.62 | 29.69        | PASS    |

#### 3.2 Test Graph

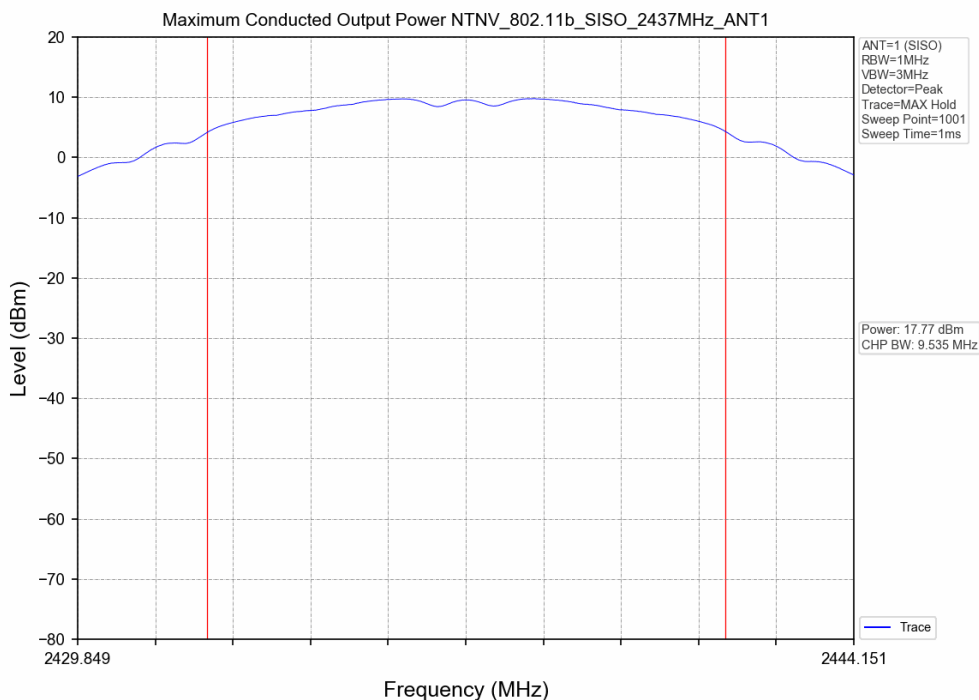
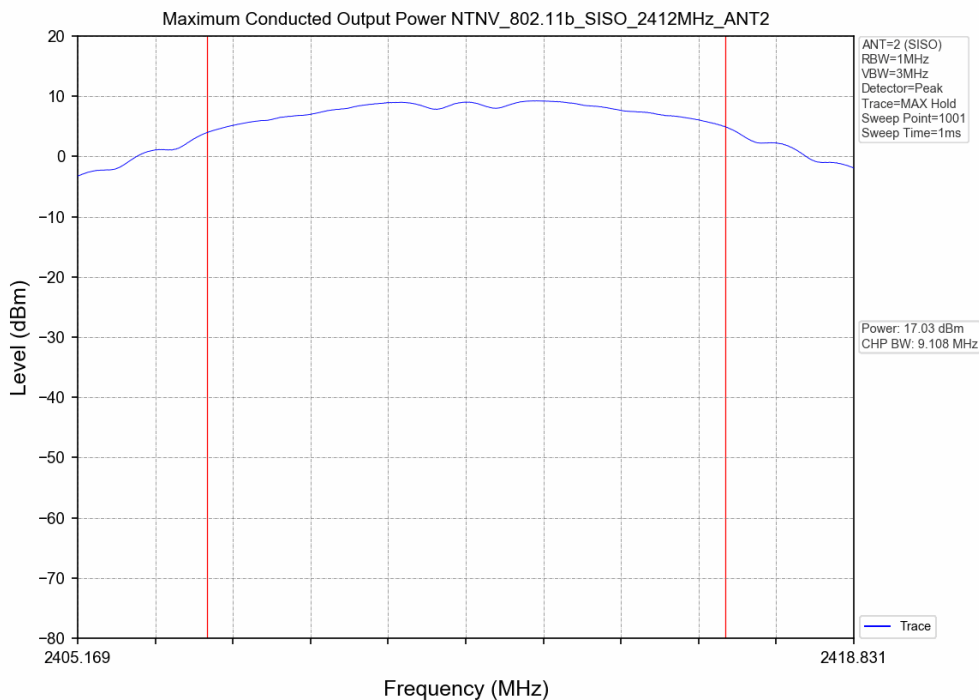


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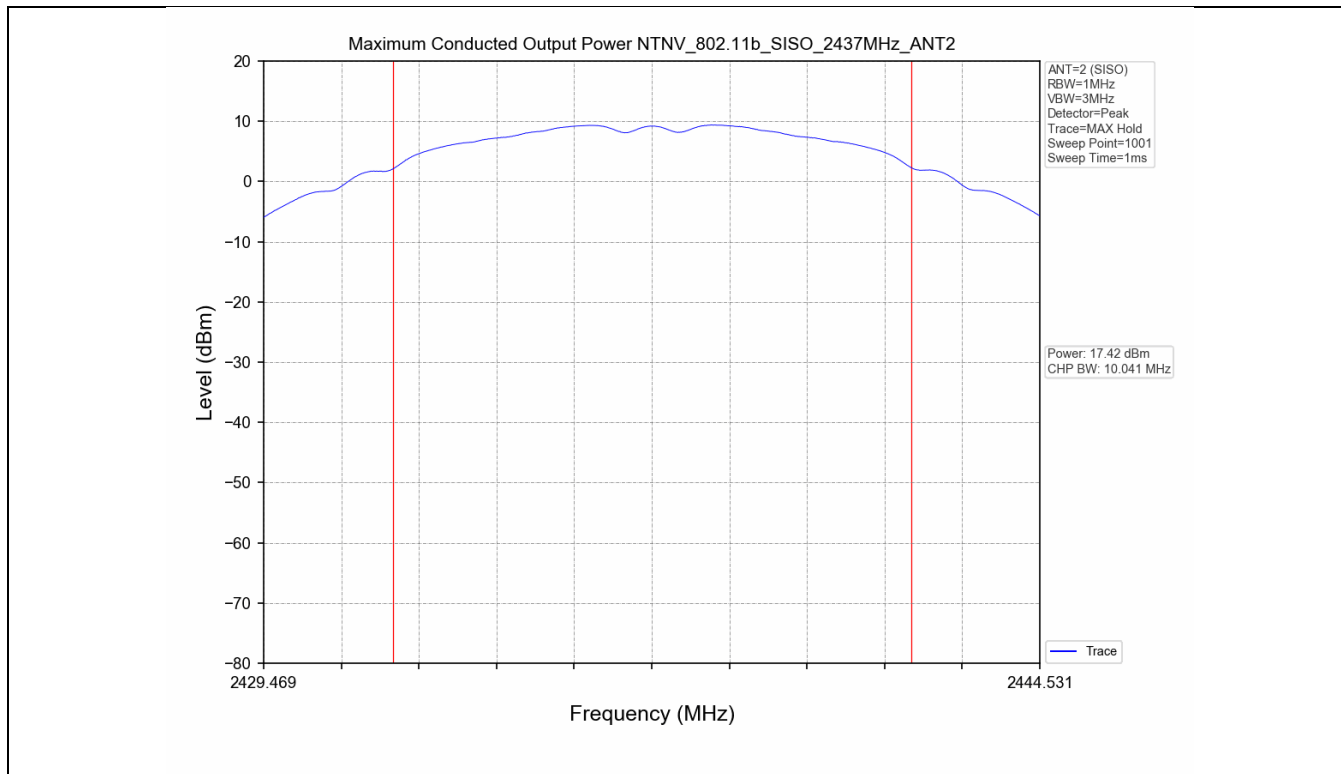
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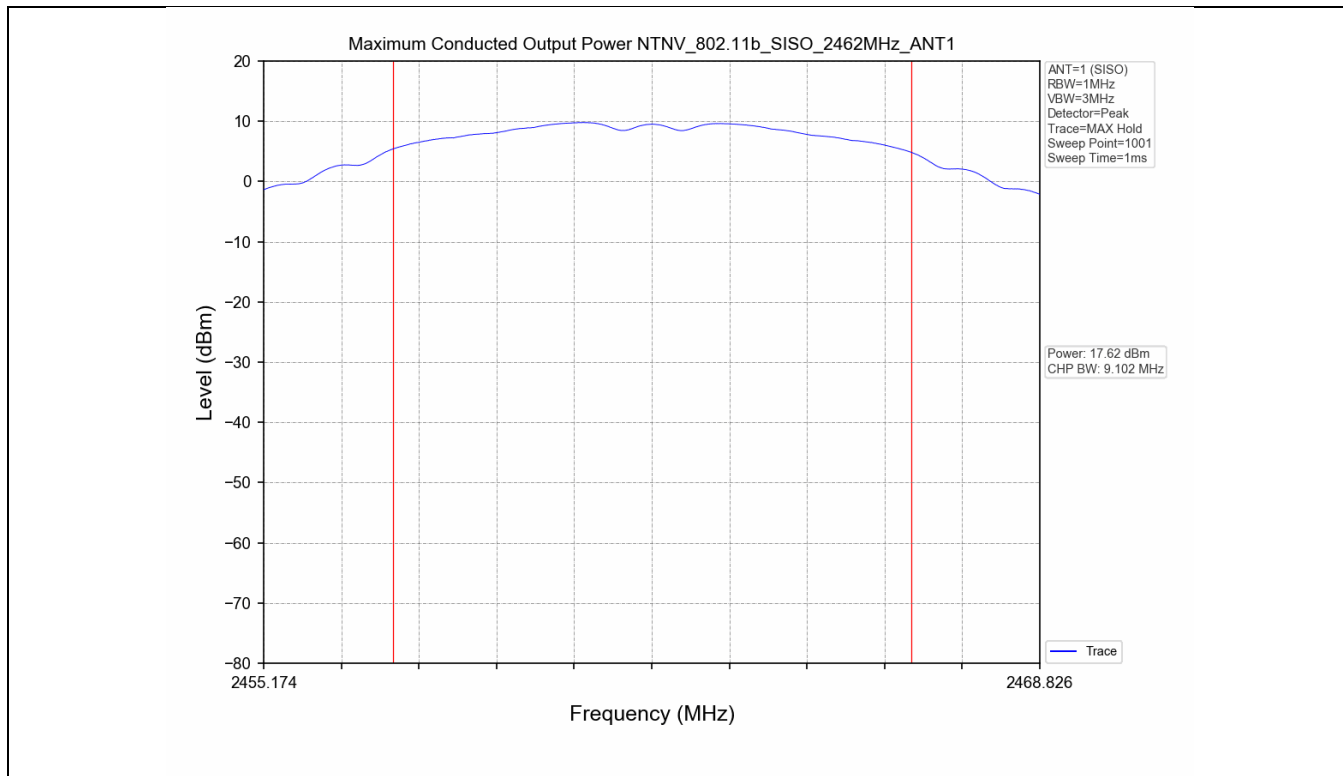
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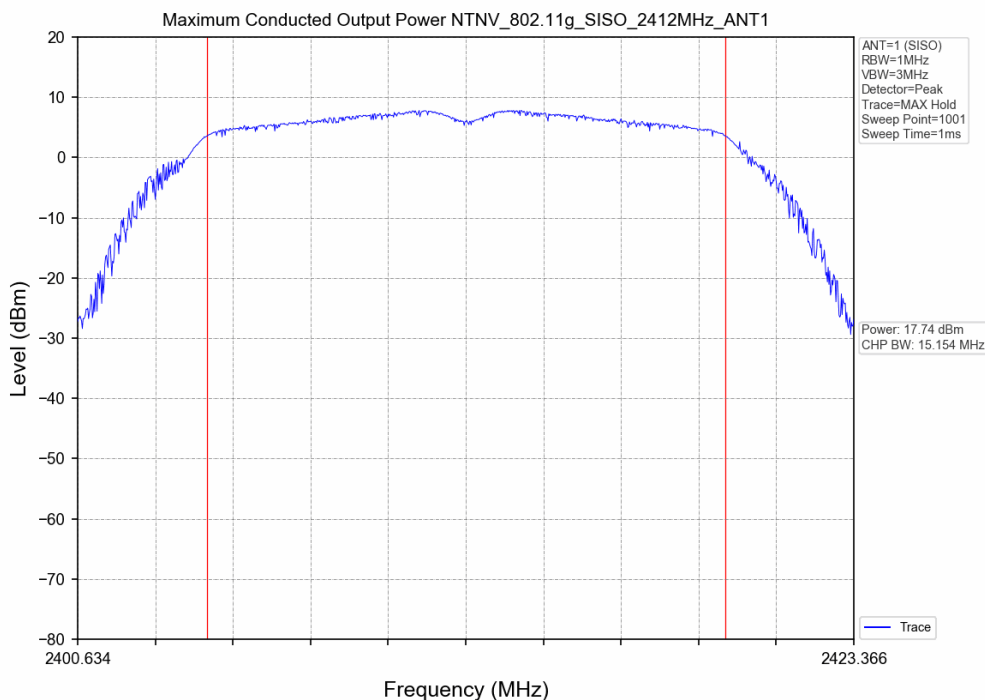
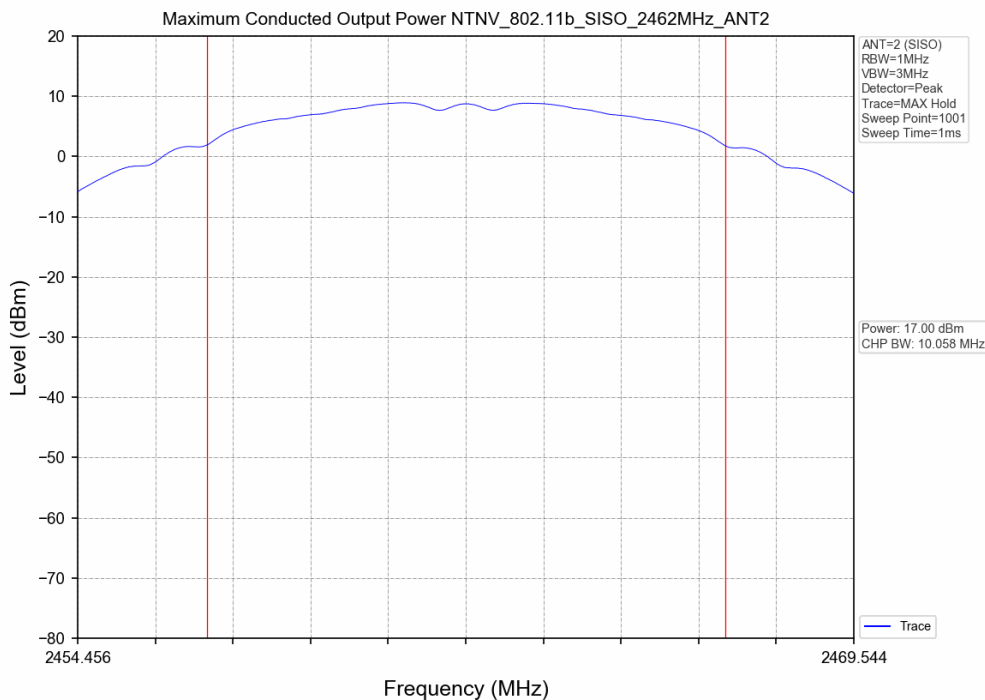
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