



## Appendix C for 2.4GWIFI Test Data

Product Name: 55-inch Indoor Wall Mount displays

Test Model: YT55J

### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 22.9°C    |
| Relative Humidity: | 53.2%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Jerry Chu |
| Supervised by:     | Can Kun   |



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## C.1 Frequency Error

### Test Result

| TestCondition | TestMode           | Antenna | Frequency<br>[MHz] | Result[ppm] | Limit[ppm] | Verdict |
|---------------|--------------------|---------|--------------------|-------------|------------|---------|
| NTNV          | Frequency<br>Error | Ant1    | 2412               | -2.90216    | ±50        | PASS    |
|               |                    |         | 2442               | -2.86650    | ±50        | PASS    |
|               |                    |         | 2472               | -2.83172    | ±50        | PASS    |



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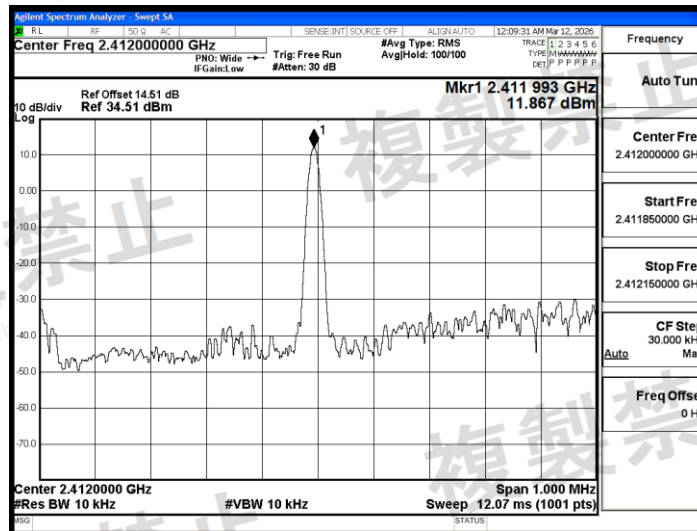
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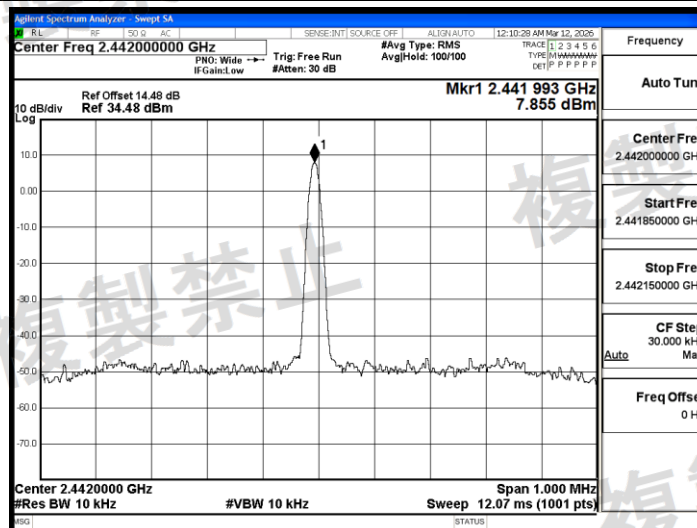


## Test Graphs

NTNV\_Ant1\_2412



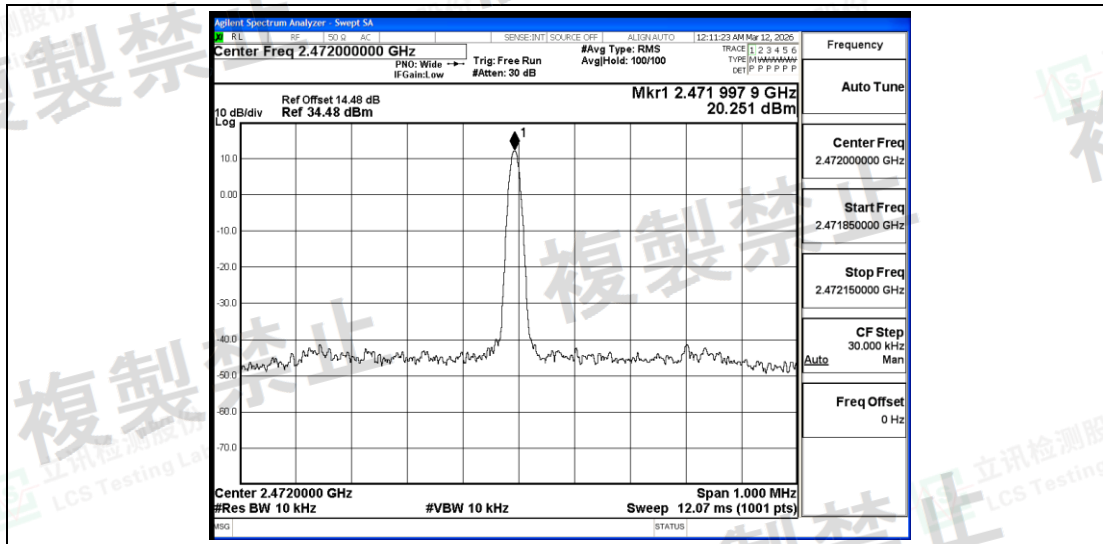
NTNV\_Ant1\_2442



NTNV\_Ant1\_2472



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## C.2 Antenna Power and EIRP

### Test Result

| Antenna Power |            |         |                 |                          |                 |                |         |
|---------------|------------|---------|-----------------|--------------------------|-----------------|----------------|---------|
| TestCondition | TestMode   | Antenna | Frequency [MHz] | Measured Power (dBm/MHz) | Result (mW/MHz) | Limit (mW/MHz) | Verdict |
| NTNV          | 11B        | Ant1    | 2412            | 4.64                     | 2.91            | ≤10            | PASS    |
|               |            |         | 2442            | 4.76                     | 2.99            | ≤10            | PASS    |
|               |            |         | 2472            | 4.38                     | 2.74            | ≤10            | PASS    |
|               | 11G        | Ant1    | 2412            | 4.39                     | 2.75            | ≤10            | PASS    |
|               |            |         | 2442            | 4.71                     | 2.96            | ≤10            | PASS    |
|               |            |         | 2472            | 4.35                     | 2.72            | ≤10            | PASS    |
|               | 11N20SISO  | Ant1    | 2412            | 5.10                     | 3.24            | ≤10            | PASS    |
|               |            |         | 2442            | 5.68                     | 3.70            | ≤10            | PASS    |
|               |            |         | 2472            | 5.37                     | 3.44            | ≤10            | PASS    |
|               | 11AX20SISO | Ant1    | 2412            | 3.21                     | 2.09            | ≤10            | PASS    |
|               |            |         | 2442            | 3.25                     | 2.11            | ≤10            | PASS    |
|               |            |         | 2472            | 3.62                     | 2.30            | ≤10            | PASS    |

| Tolerance      |            |         |                 |                |                     |            |           |         |
|----------------|------------|---------|-----------------|----------------|---------------------|------------|-----------|---------|
| Test Condition | Test Mode  | Antenna | Frequency [MHz] | Power (mW/MHz) | RatedPower (mW/MHz) | Result (%) | Limit (%) | Verdict |
| NTNV           | 11B        | Ant1    | 2412            | 2.91           | 3.0                 | -3.00      | +20       | PASS    |
|                |            |         | 2442            | 2.99           | 3.0                 | -0.33      | +20       | PASS    |
|                |            |         | 2472            | 2.74           | 3.0                 | -8.67      | +20       | PASS    |
|                | 11G        | Ant1    | 2412            | 2.75           | 3.0                 | -8.33      | +20       | PASS    |
|                |            |         | 2442            | 2.96           | 3.0                 | -1.33      | +20       | PASS    |
|                |            |         | 2472            | 2.72           | 3.0                 | -9.33      | +20       | PASS    |
|                | 11N20SISO  | Ant1    | 2412            | 3.24           | 3.5                 | -7.43      | +20       | PASS    |
|                |            |         | 2442            | 3.70           | 3.5                 | 5.71       | +20       | PASS    |
|                |            |         | 2472            | 3.44           | 3.5                 | -1.71      | +20       | PASS    |
|                | 11AX20SISO | Ant1    | 2412            | 2.09           | 2.5                 | -16.40     | +20       | PASS    |
|                |            |         | 2442            | 2.11           | 2.5                 | -15.60     | +20       | PASS    |
|                |            |         | 2472            | 2.30           | 2.5                 | -8.00      | +20       | PASS    |



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| EIRP           |            |         |                 |                          |                    |                |                 |         |
|----------------|------------|---------|-----------------|--------------------------|--------------------|----------------|-----------------|---------|
| Test Condition | Test Mode  | Antenna | Frequency [MHz] | Measured Power (dBm/MHz) | Antenna Gain (dBi) | EIRP (dBm/MHz) | Limit (dBm/MHz) | Verdict |
| NTNV           | 11B        | Ant1    | 2412            | 4.64                     | 4.63               | 9.27           | ≤12.14          | PASS    |
|                |            |         | 2442            | 4.76                     | 4.63               | 9.39           | ≤12.14          | PASS    |
|                |            |         | 2472            | 4.38                     | 4.63               | 9.01           | ≤12.14          | PASS    |
|                | 11G        | Ant1    | 2412            | 4.39                     | 4.63               | 9.02           | ≤12.14          | PASS    |
|                |            |         | 2442            | 4.71                     | 4.63               | 9.34           | ≤12.14          | PASS    |
|                |            |         | 2472            | 4.35                     | 4.63               | 8.98           | ≤12.14          | PASS    |
|                | 11N20SISO  | Ant1    | 2412            | 5.10                     | 4.63               | 9.73           | ≤12.14          | PASS    |
|                |            |         | 2442            | 5.68                     | 4.63               | 10.31          | ≤12.14          | PASS    |
|                |            |         | 2472            | 5.37                     | 4.63               | 10.00          | ≤12.14          | PASS    |
|                | 11AX20SISO | Ant1    | 2412            | 3.21                     | 4.63               | 7.84           | ≤12.14          | PASS    |
|                |            |         | 2442            | 3.25                     | 4.63               | 7.88           | ≤12.14          | PASS    |
|                |            |         | 2472            | 3.62                     | 4.63               | 8.25           | ≤12.14          | PASS    |



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### C.3 Occupied Bandwidth

#### Test Result

| TestCondition | TestMode   | Antenna | Frequency [MHz] | Result [MHz] | Limit [MHz] | Verdict |
|---------------|------------|---------|-----------------|--------------|-------------|---------|
| NTNV          | 11B        | Ant1    | 2412            | 12.070       | ≤26         | PASS    |
|               |            |         | 2442            | 12.090       | ≤26         | PASS    |
|               |            |         | 2472            | 12.065       | ≤26         | PASS    |
|               | 11G        | Ant1    | 2412            | 16.579       | ≤26         | PASS    |
|               |            |         | 2442            | 16.723       | ≤26         | PASS    |
|               |            |         | 2472            | 16.662       | ≤26         | PASS    |
|               | 11N20SISO  | Ant1    | 2412            | 17.876       | ≤26         | PASS    |
|               |            |         | 2442            | 17.728       | ≤26         | PASS    |
|               |            |         | 2472            | 17.660       | ≤26         | PASS    |
|               | 11AX20SISO | Ant1    | 2412            | 18.969       | ≤26         | PASS    |
|               |            |         | 2442            | 19.019       | ≤26         | PASS    |
|               |            |         | 2472            | 19.008       | ≤26         | PASS    |



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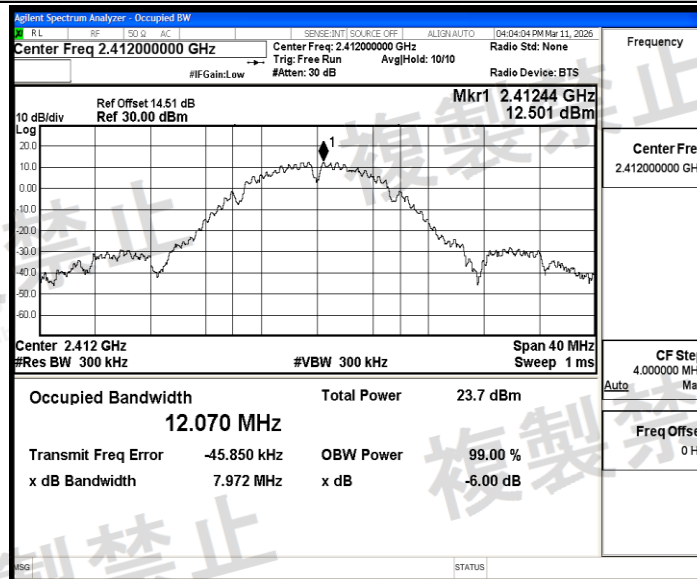
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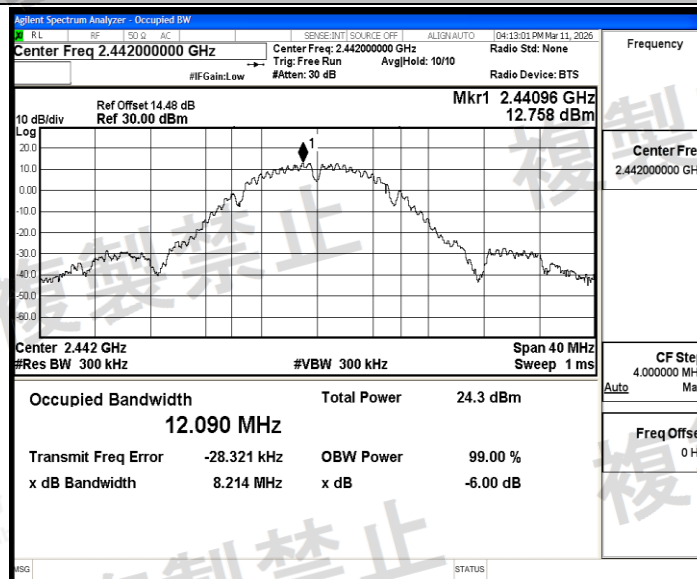


## Test Graphs

NTNV\_11B\_Ant1\_2412



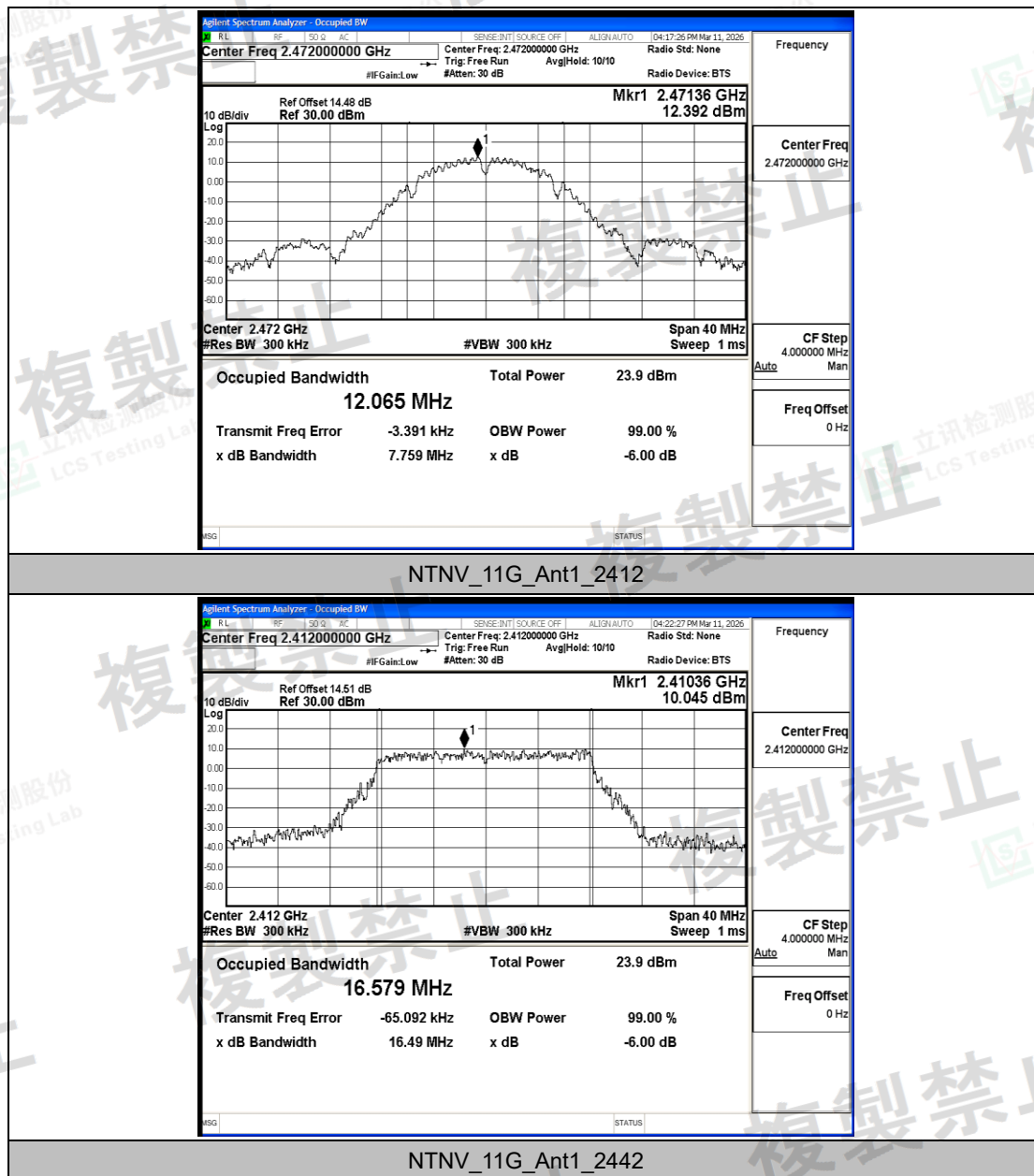
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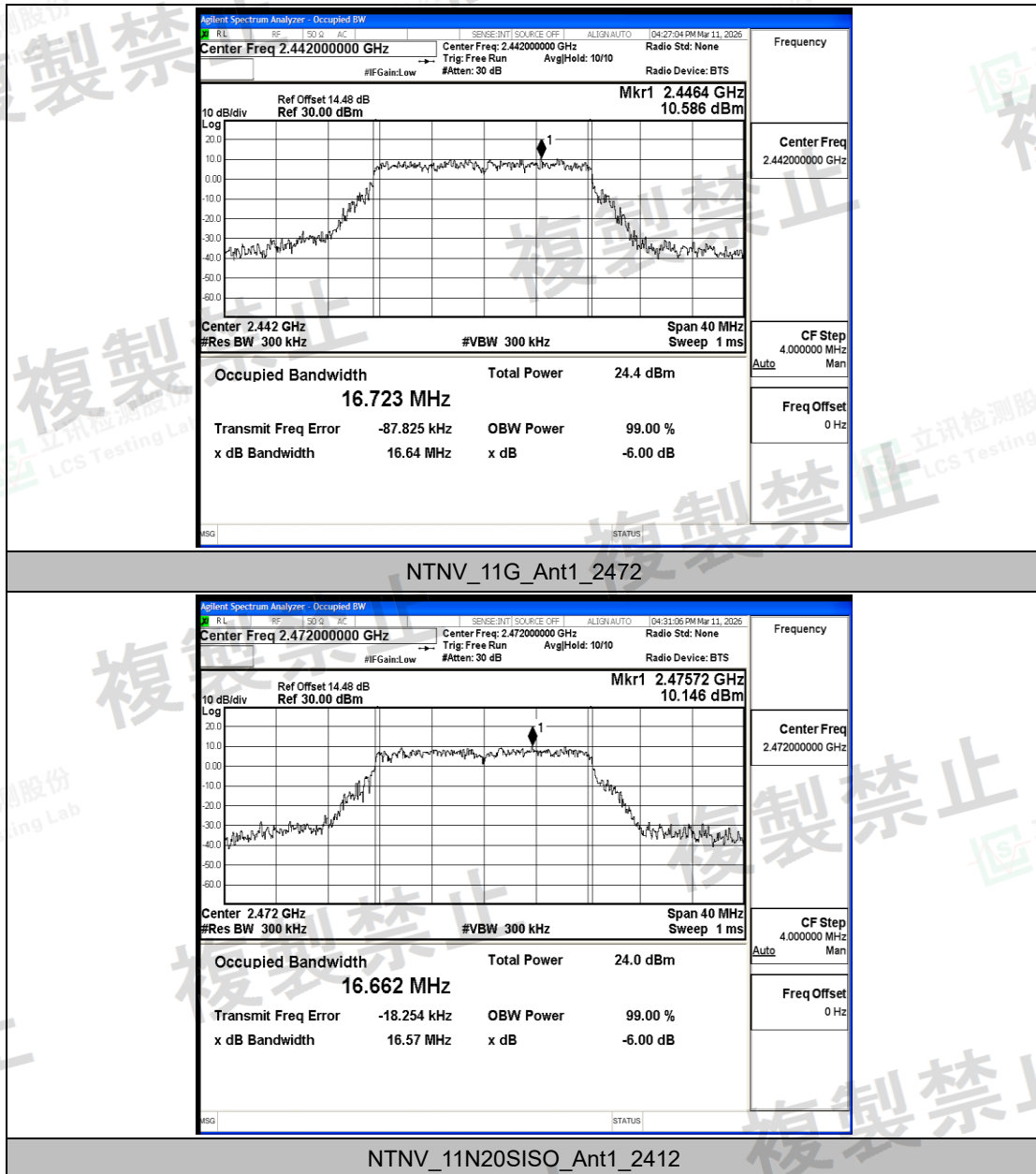


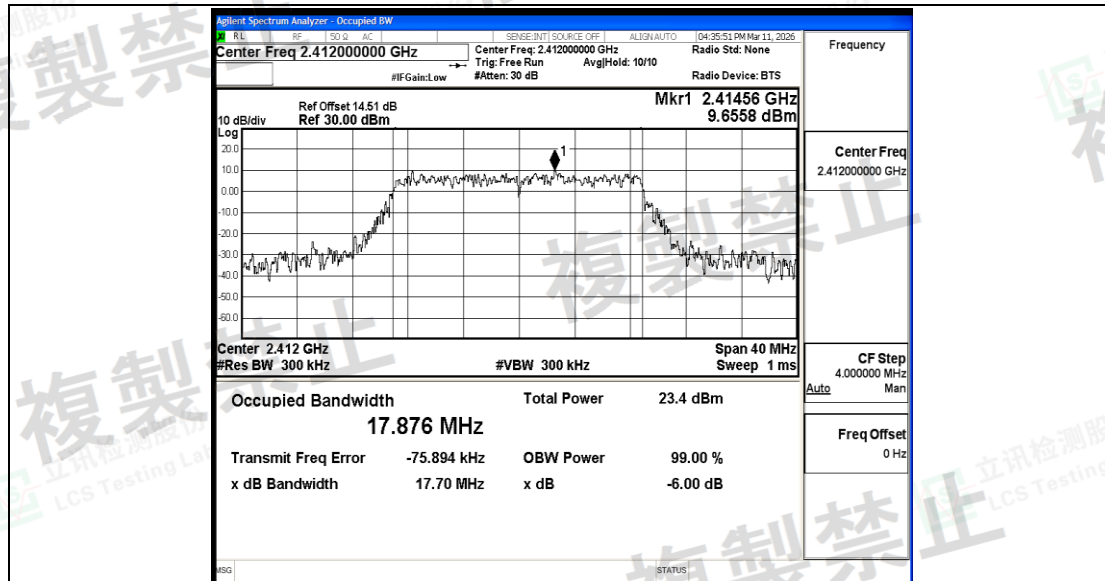
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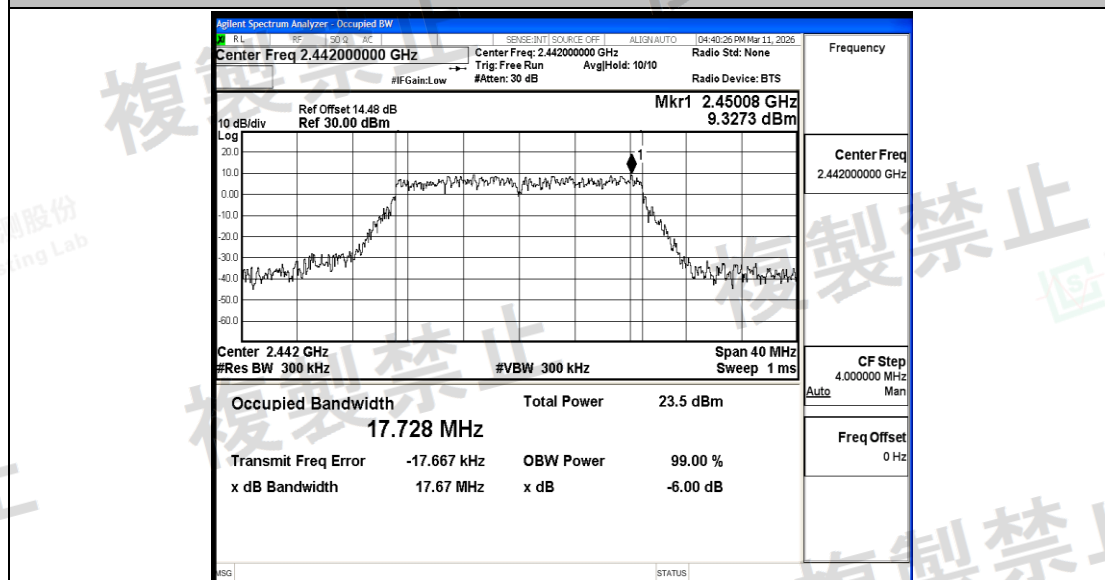
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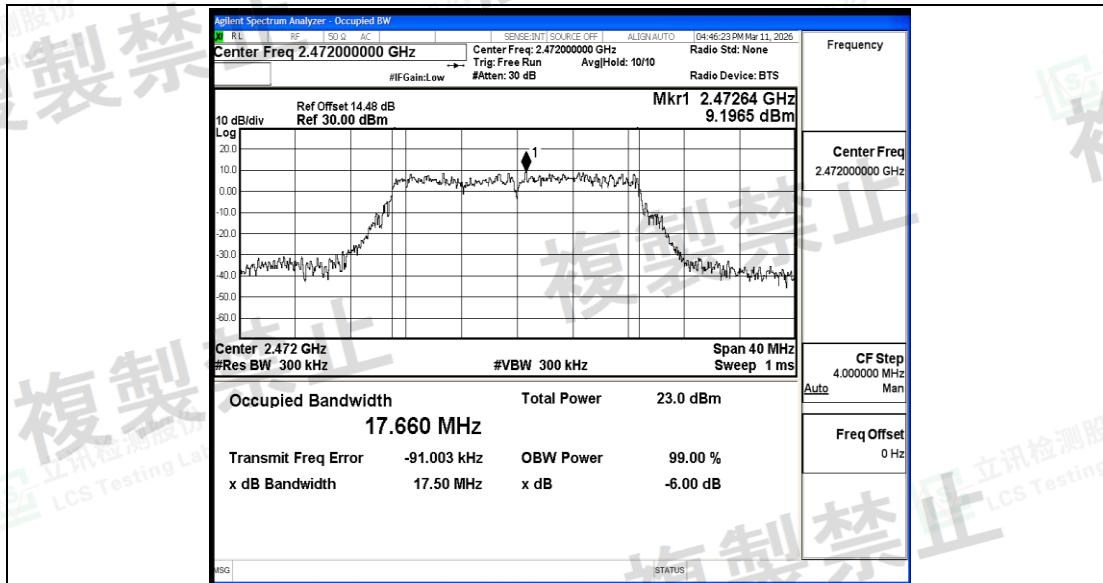


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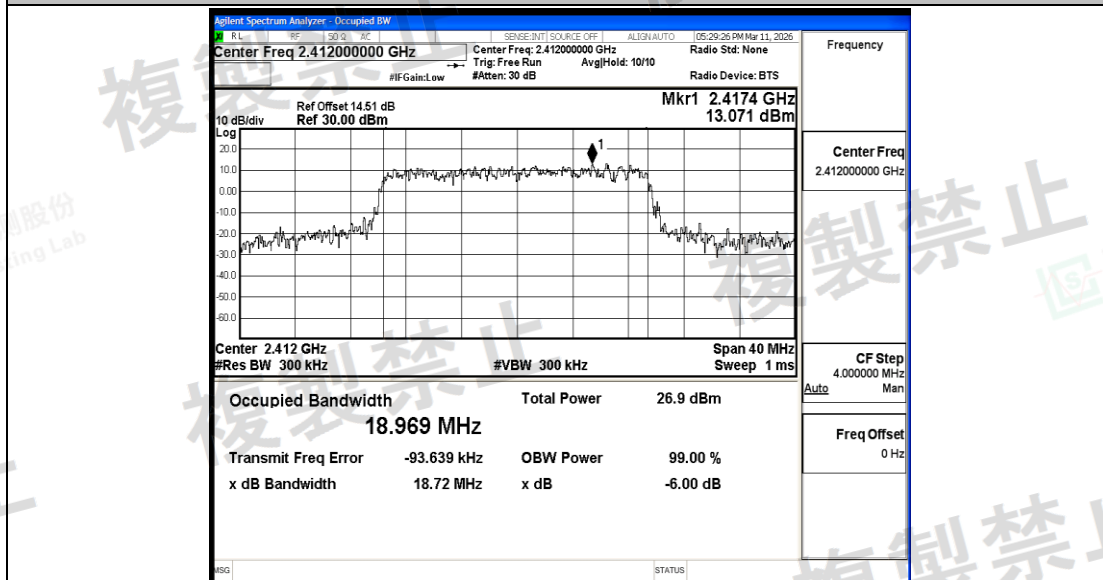


NTNV\_11N20SISO\_Ant1\_2472





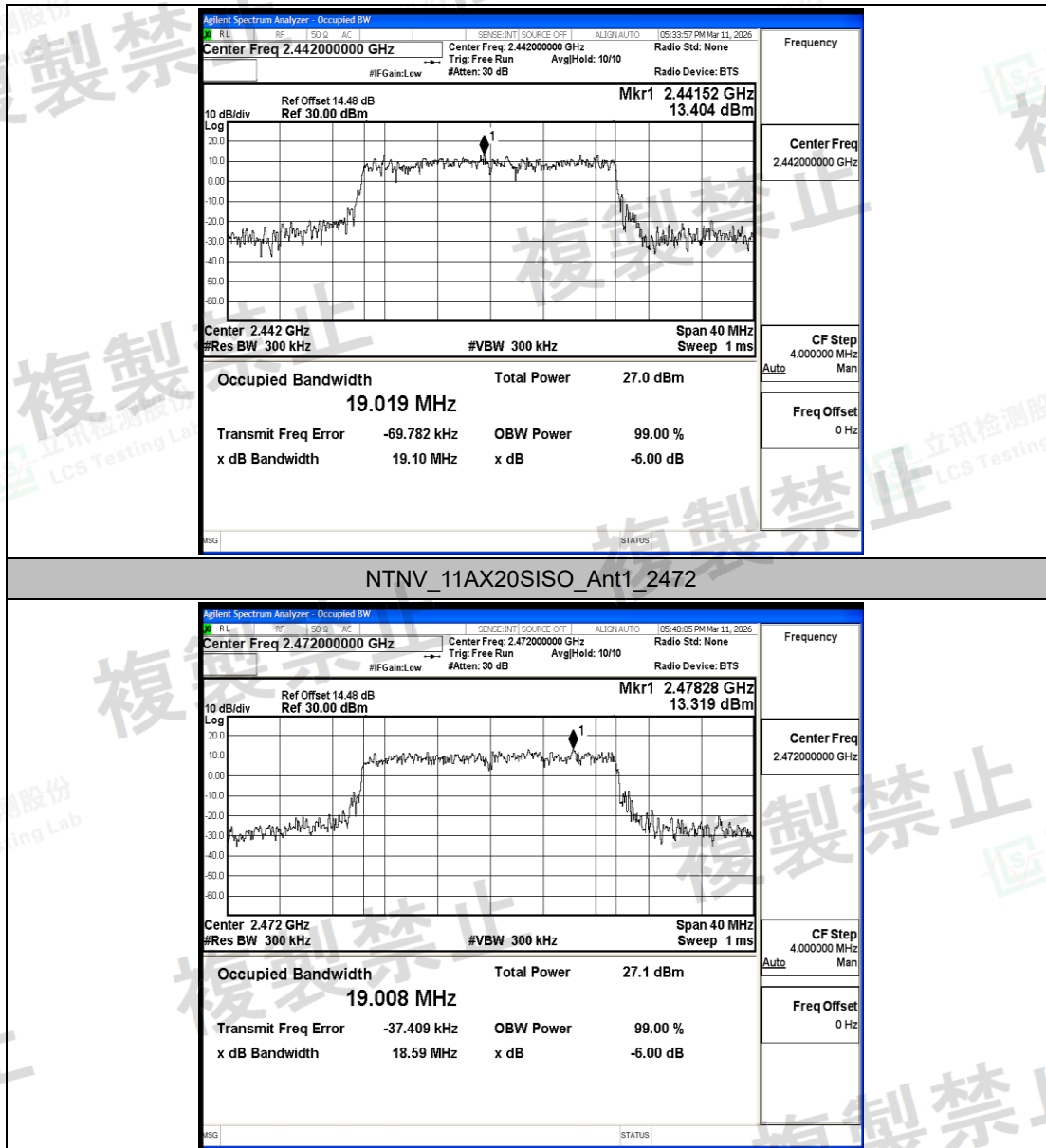
NTNV\_11AX20SISO\_Ant1\_2412



NTNV\_11AX20SISO\_Ant1\_2442



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## C.4 Spread Bandwidth

### Test Result

| TestCondition | TestMode   | Antenna | Frequency [MHz] | Result [MHz] | Limit [MHz] | Verdict |
|---------------|------------|---------|-----------------|--------------|-------------|---------|
| NTNV          | 11B        | Ant1    | 2412            | 7.899        | ---         | PASS    |
|               |            |         | 2442            | 7.926        | ---         | PASS    |
|               |            |         | 2472            | 7.900        | ---         | PASS    |
|               | 11G        | Ant1    | 2412            | 14.868       | ---         | PASS    |
|               |            |         | 2442            | 14.869       | ---         | PASS    |
|               |            |         | 2472            | 14.780       | ---         | PASS    |
|               | 11N20SISO  | Ant1    | 2412            | 15.801       | ---         | PASS    |
|               |            |         | 2442            | 15.815       | ---         | PASS    |
|               |            |         | 2472            | 15.885       | ---         | PASS    |
|               | 11AX20SISO | Ant1    | 2412            | 17.164       | ---         | PASS    |
|               |            |         | 2442            | 16.461       | ---         | PASS    |
|               |            |         | 2472            | 16.707       | ---         | PASS    |

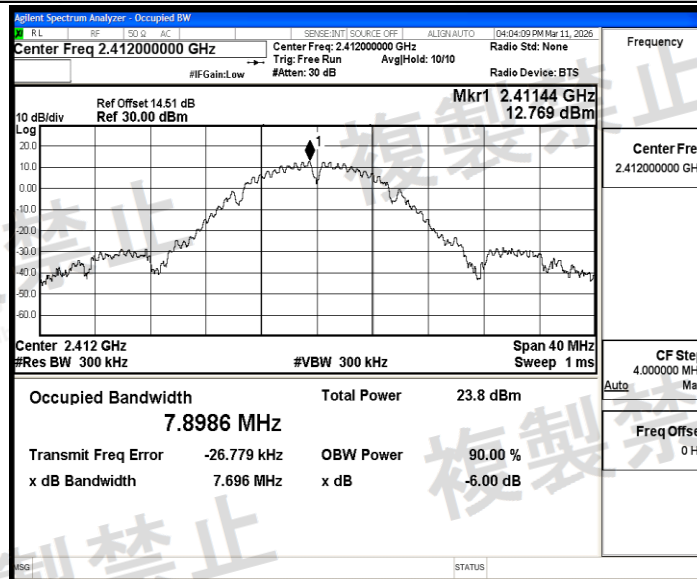


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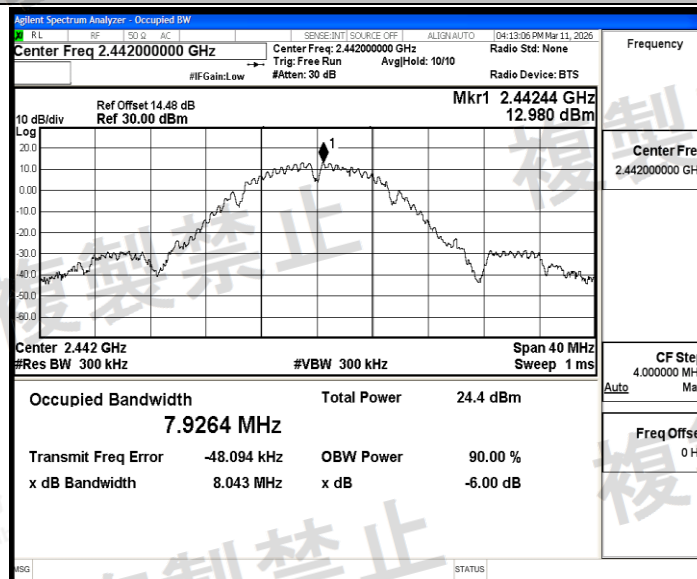


## Test Graphs

NTNV\_11B\_Ant1\_2412



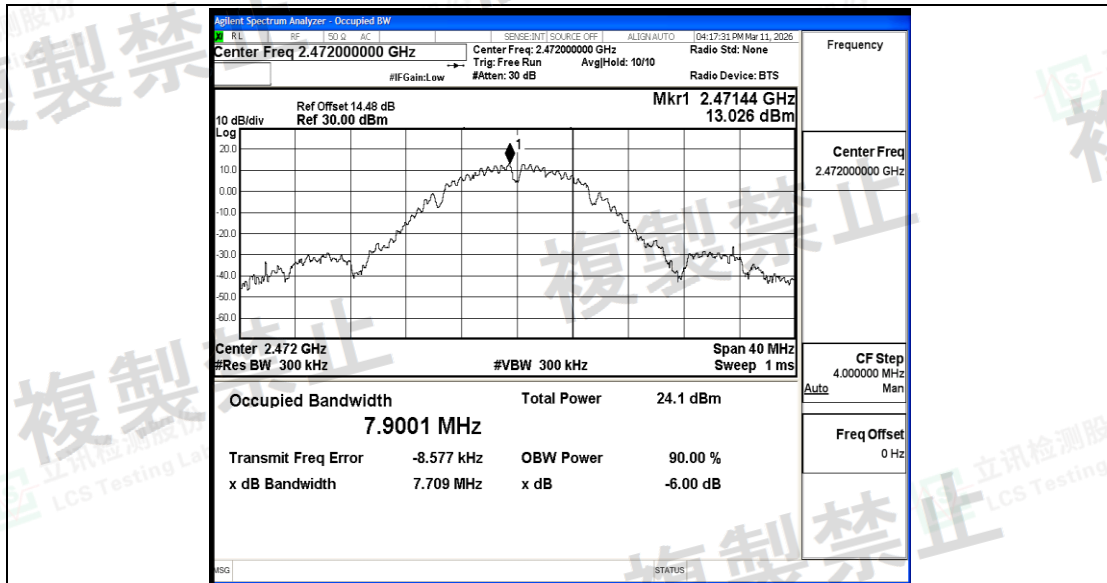
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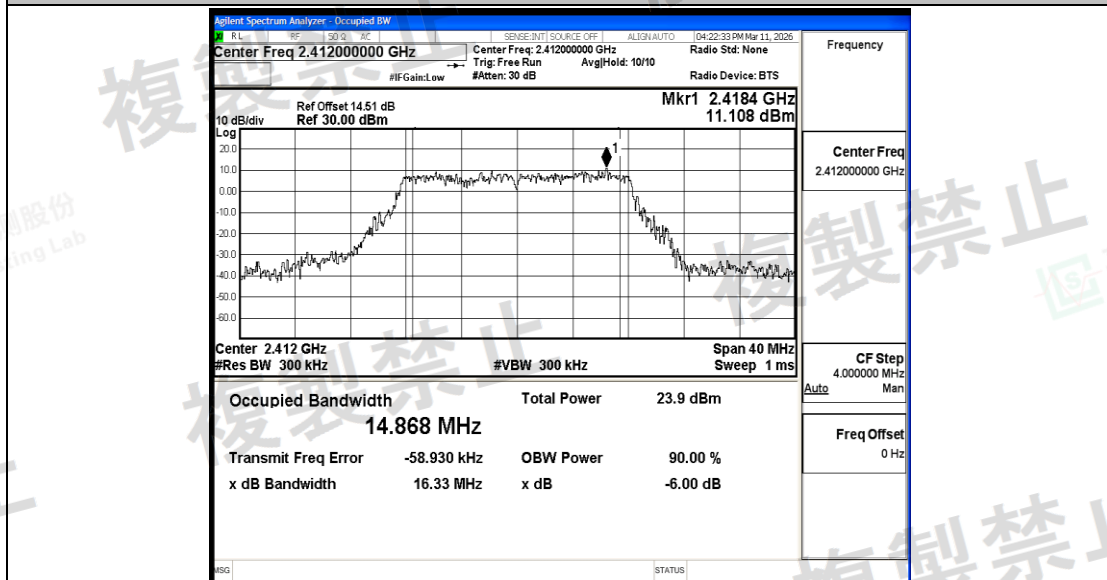
NTNV\_11B\_Ant1\_2472



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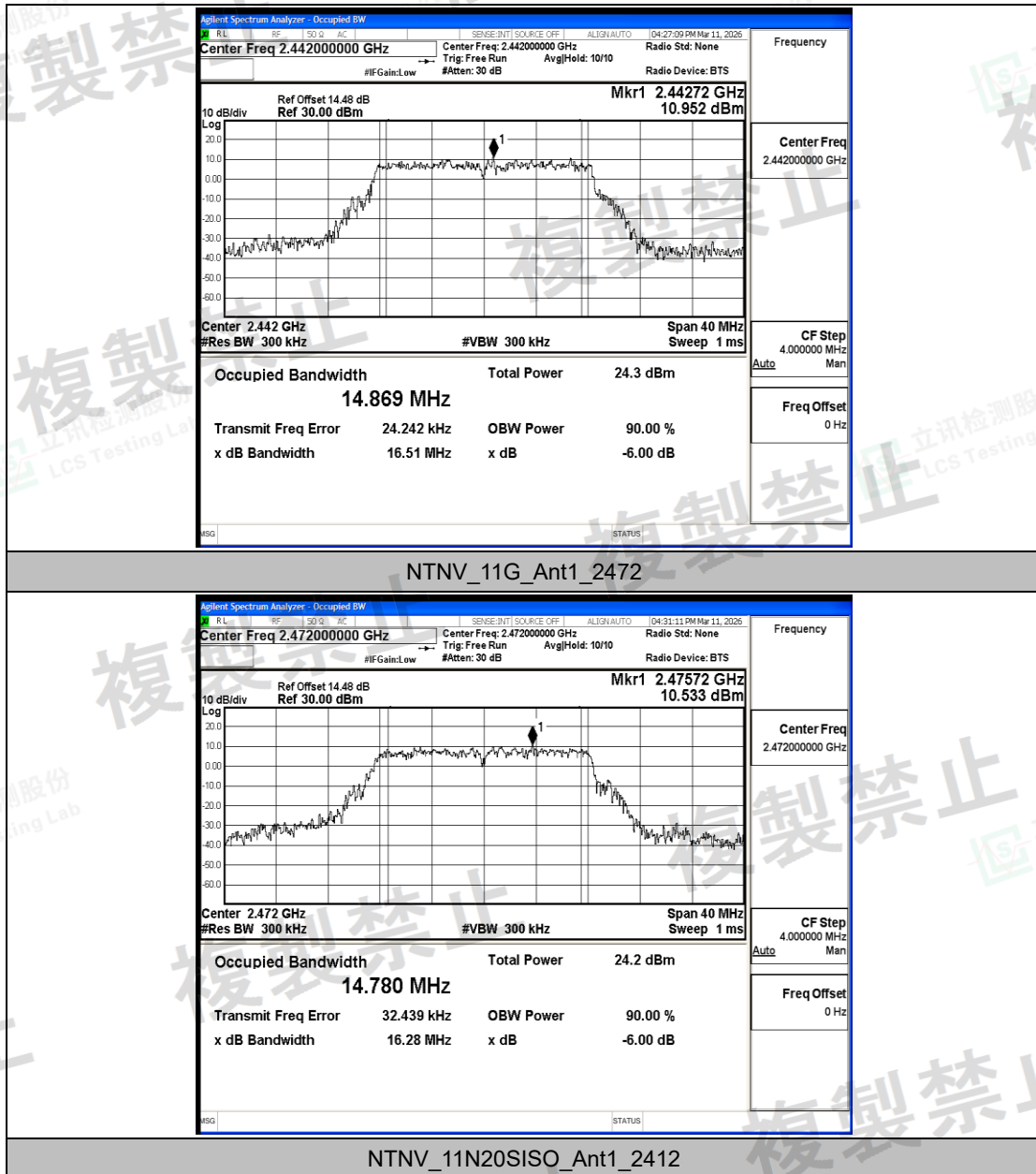


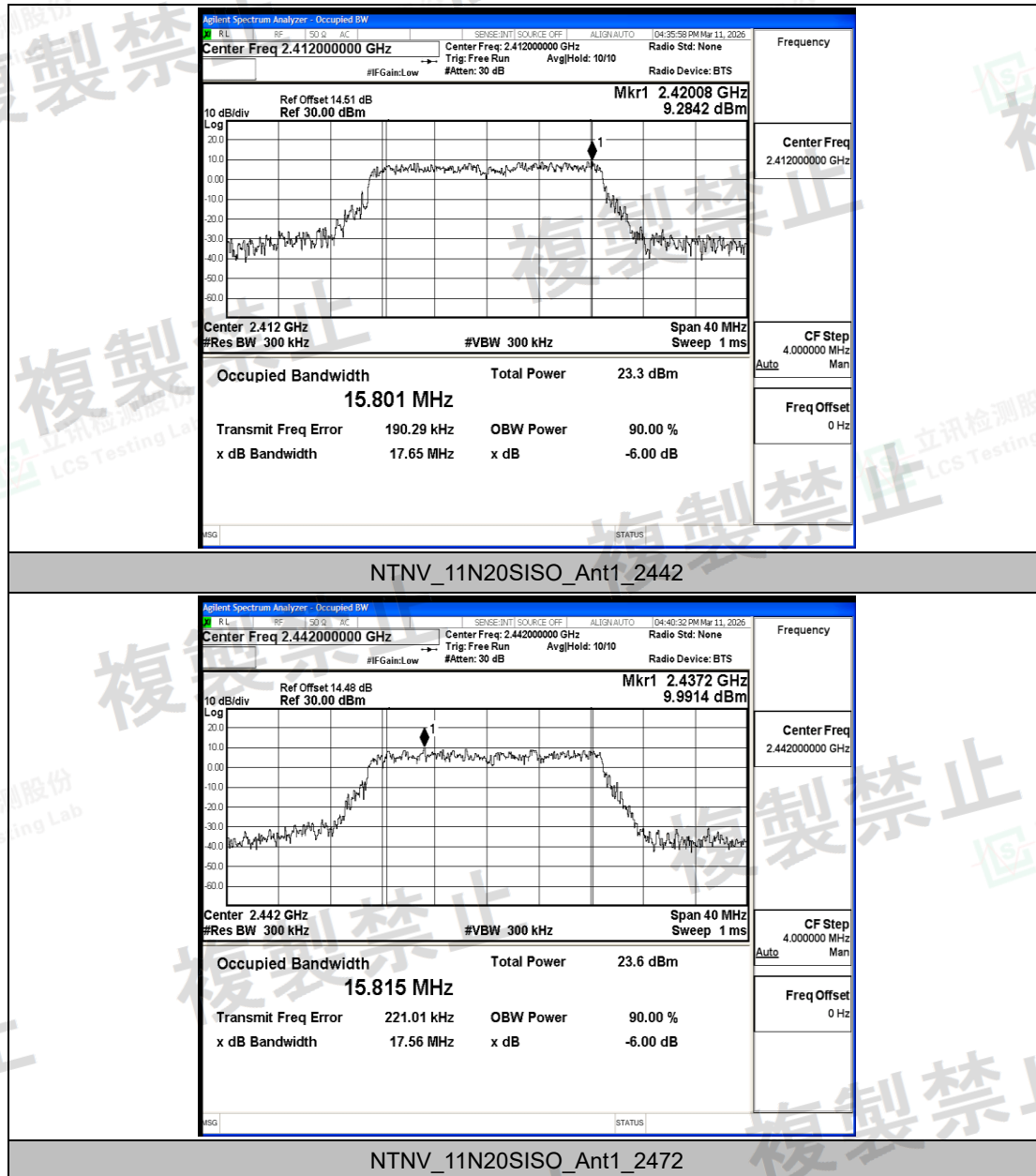
NTNV\_11G\_Ant1\_2412

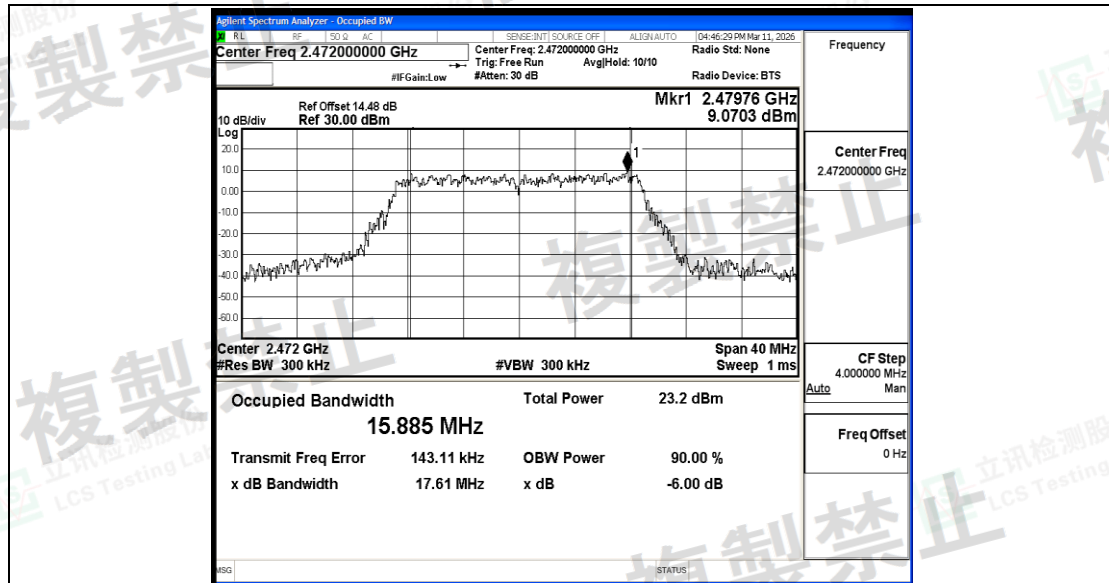


NTNV\_11G\_Ant1\_2442

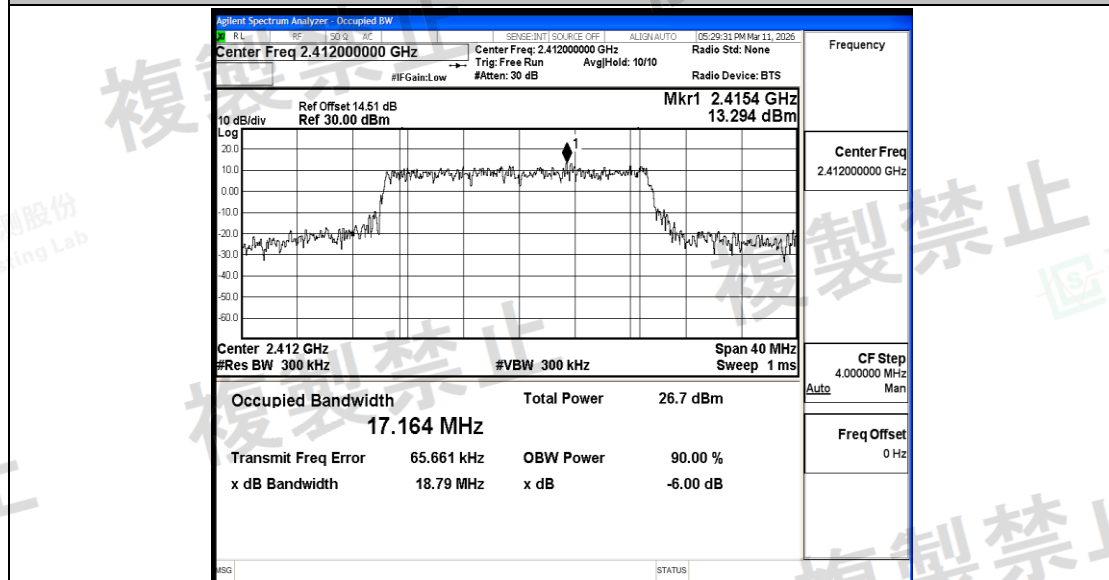








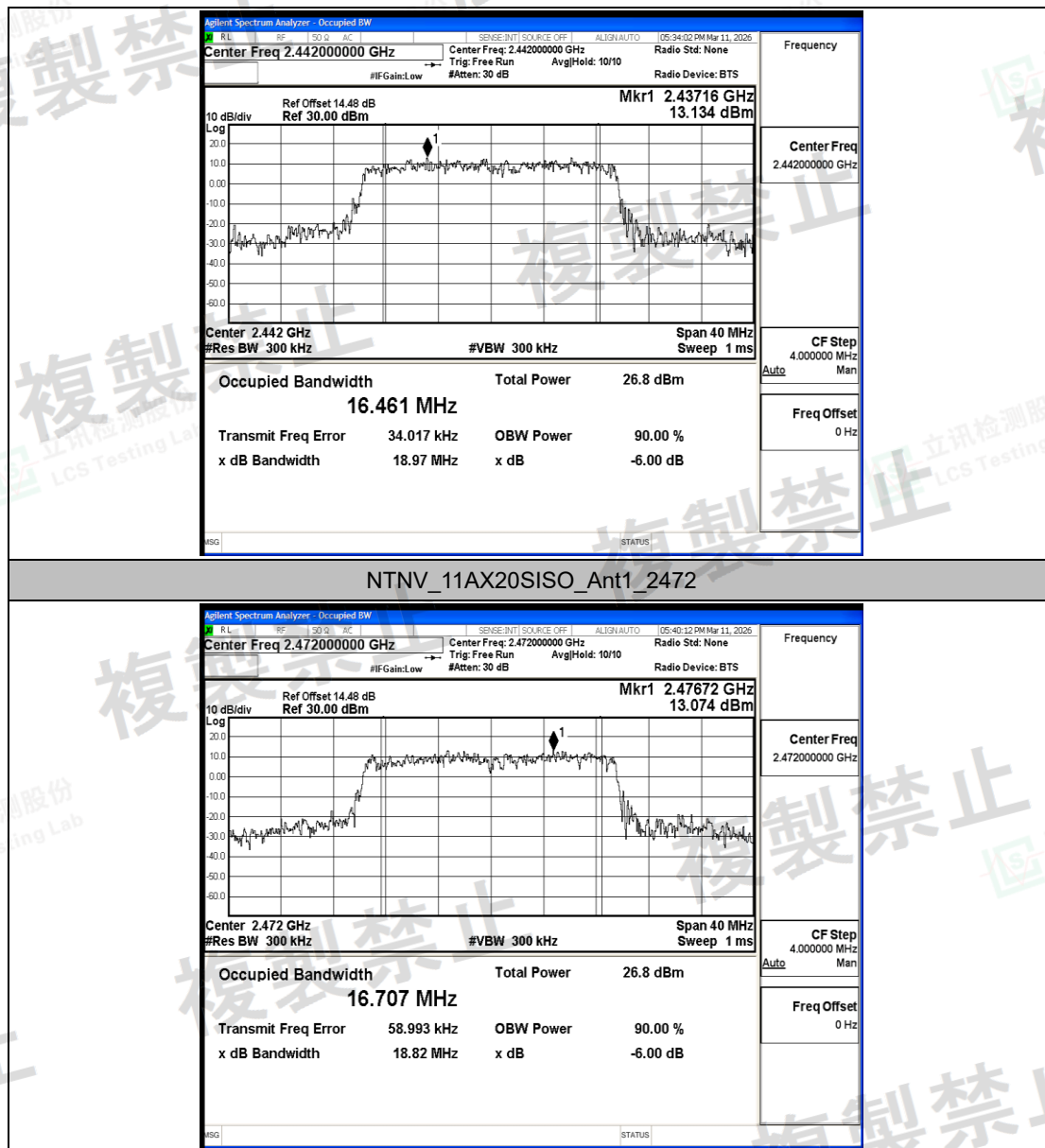
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NTNV\_11AX20SISO\_Ant1\_2442



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## C.5 Spurious Emission of TX

### Test Result

| TestCondition | TestMode  | Antenna | Frequency<br>[MHz] | Freq.Range<br>[MHz] | Result<br>[dBm] | Limit<br>[dBm] | Result<br>[μW] | Limit<br>[μW] | Verdict |
|---------------|-----------|---------|--------------------|---------------------|-----------------|----------------|----------------|---------------|---------|
| NTNV          | 11B       | Ant1    | 2412               | 30~1000             | -53.83          | ≤-26           | 0.00414        | ≤2.5          | PASS    |
|               |           |         |                    | 1000~2387           | -40.73          | ≤-26           | 0.08453        | ≤2.5          | PASS    |
|               |           |         |                    | 2387~2400           | -28.60          | ≤-16           | 1.38038        | ≤25           | PASS    |
|               |           |         |                    | 2483.5~2496.5       | -40.48          | ≤-16           | 0.08954        | ≤25           | PASS    |
|               |           |         |                    | 2496.5~13000        | -38.78          | ≤-26           | 0.13243        | ≤2.5          | PASS    |
|               |           |         | 2442               | 30~1000             | -53.80          | ≤-26           | 0.00417        | ≤2.5          | PASS    |
|               |           |         |                    | 1000~2387           | -45.33          | ≤-26           | 0.02931        | ≤2.5          | PASS    |
|               |           |         |                    | 2387~2400           | -38.39          | ≤-16           | 0.14488        | ≤25           | PASS    |
|               |           |         |                    | 2483.5~2496.5       | -30.66          | ≤-16           | 0.85901        | ≤25           | PASS    |
|               |           |         |                    | 2496.5~13000        | -32.09          | ≤-26           | 0.61802        | ≤2.5          | PASS    |
|               |           |         | 2472               | 30~1000             | -53.67          | ≤-26           | 0.00430        | ≤2.5          | PASS    |
|               |           |         |                    | 1000~2387           | -50.76          | ≤-26           | 0.00839        | ≤2.5          | PASS    |
|               |           |         |                    | 2387~2400           | -42.55          | ≤-16           | 0.05559        | ≤25           | PASS    |
|               |           |         |                    | 2483.5~2496.5       | -27.64          | ≤-16           | 1.72187        | ≤25           | PASS    |
|               |           |         |                    | 2496.5~13000        | -32.33          | ≤-26           | 0.58479        | ≤2.5          | PASS    |
|               | 11G       | Ant1    | 2412               | 30~1000             | -53.61          | ≤-26           | 0.00436        | ≤2.5          | PASS    |
|               |           |         |                    | 1000~2387           | -43.54          | ≤-26           | 0.04426        | ≤2.5          | PASS    |
|               |           |         |                    | 2387~2400           | -26.90          | ≤-16           | 2.04174        | ≤25           | PASS    |
|               |           |         |                    | 2483.5~2496.5       | -41.41          | ≤-16           | 0.07228        | ≤25           | PASS    |
|               |           |         |                    | 2496.5~13000        | -43.67          | ≤-26           | 0.04295        | ≤2.5          | PASS    |
|               |           |         | 2442               | 30~1000             | -53.79          | ≤-26           | 0.00418        | ≤2.5          | PASS    |
|               |           |         |                    | 1000~2387           | -49.94          | ≤-26           | 0.01014        | ≤2.5          | PASS    |
|               |           |         |                    | 2387~2400           | -42.71          | ≤-16           | 0.05358        | ≤25           | PASS    |
|               |           |         |                    | 2483.5~2496.5       | -41.37          | ≤-16           | 0.07295        | ≤25           | PASS    |
|               |           |         |                    | 2496.5~13000        | -43.33          | ≤-26           | 0.04645        | ≤2.5          | PASS    |
|               |           |         | 2472               | 30~1000             | -53.87          | ≤-26           | 0.00410        | ≤2.5          | PASS    |
|               |           |         |                    | 1000~2387           | -51.61          | ≤-26           | 0.00690        | ≤2.5          | PASS    |
|               |           |         |                    | 2387~2400           | -43.30          | ≤-16           | 0.04677        | ≤25           | PASS    |
|               |           |         |                    | 2483.5~2496.5       | -24.22          | ≤-16           | 3.78443        | ≤25           | PASS    |
|               |           |         |                    | 2496.5~13000        | -39.37          | ≤-26           | 0.11561        | ≤2.5          | PASS    |
|               | 11N20SISO | Ant1    | 2412               | 30~1000             | -53.99          | ≤-26           | 0.00399        | ≤2.5          | PASS    |
|               |           |         |                    | 1000~2387           | -37.94          | ≤-26           | 0.16069        | ≤2.5          | PASS    |
|               |           |         |                    | 2387~2400           | -24.24          | ≤-16           | 3.76704        | ≤25           | PASS    |



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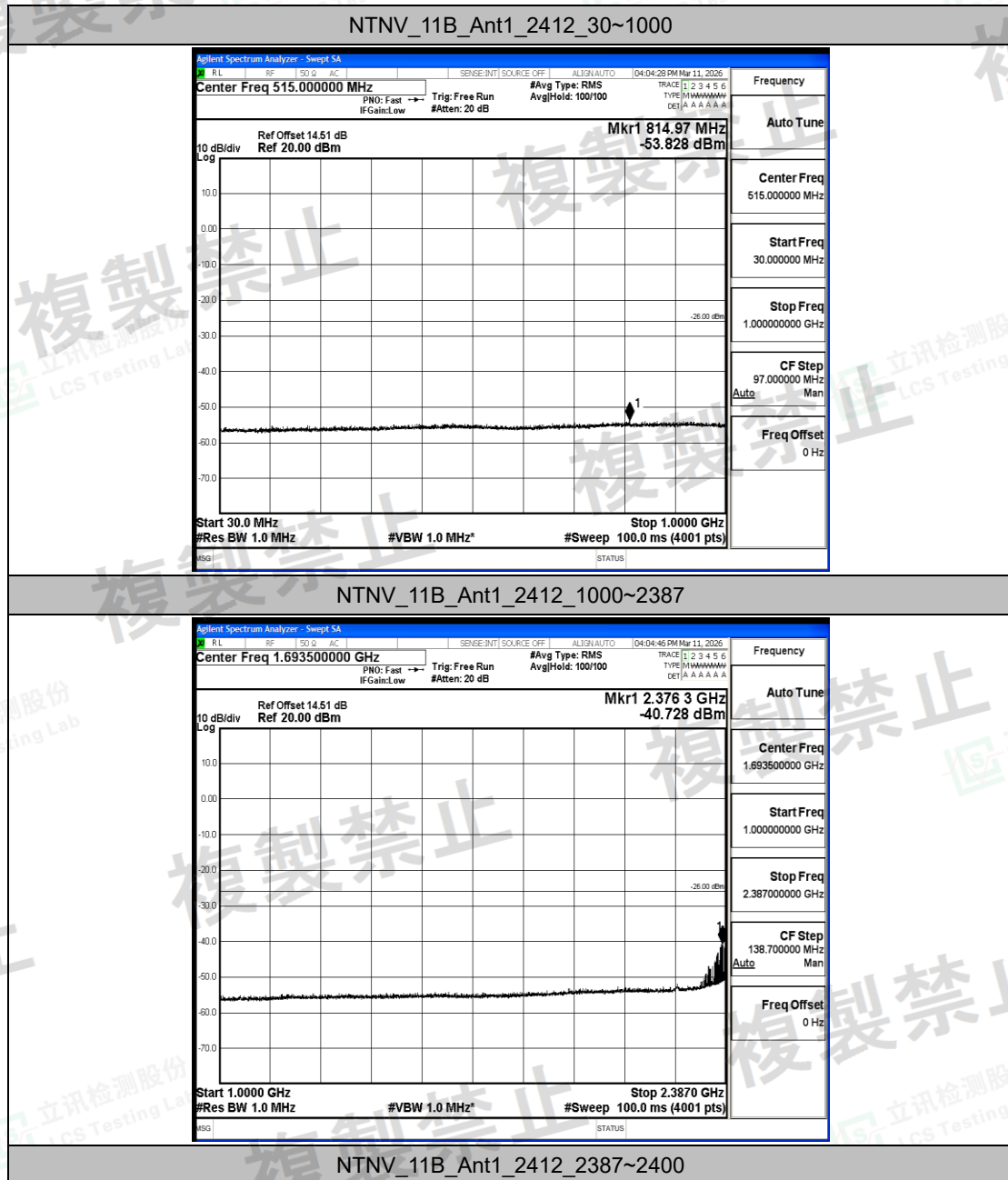
|  |               |        |               |               |         |          |          |      |      |
|--|---------------|--------|---------------|---------------|---------|----------|----------|------|------|
|  |               |        |               | 2483.5~2496.5 | -41.93  | ≤-16     | 0.06412  | ≤25  | PASS |
|  |               |        |               | 2496.5~13000  | -43.82  | ≤-26     | 0.04150  | ≤2.5 | PASS |
|  |               |        | 2442          | 30~1000       | -53.71  | ≤-26     | 0.00426  | ≤2.5 | PASS |
|  |               |        |               | 1000~2387     | -49.70  | ≤-26     | 0.01072  | ≤2.5 | PASS |
|  |               |        |               | 2387~2400     | -42.93  | ≤-16     | 0.05093  | ≤25  | PASS |
|  |               |        |               | 2483.5~2496.5 | -41.64  | ≤-16     | 0.06855  | ≤25  | PASS |
|  |               |        |               | 2496.5~13000  | -43.55  | ≤-26     | 0.04416  | ≤2.5 | PASS |
|  |               |        | 2472          | 30~1000       | -52.51  | ≤-26     | 0.00561  | ≤2.5 | PASS |
|  |               |        |               | 1000~2387     | -46.23  | ≤-26     | 0.02382  | ≤2.5 | PASS |
|  |               |        |               | 2387~2400     | -43.19  | ≤-16     | 0.04797  | ≤25  | PASS |
|  | 2483.5~2496.5 | -24.36 |               | ≤-16          | 3.66438 | ≤25      | PASS     |      |      |
|  | 2496.5~13000  | -41.24 |               | ≤-26          | 0.07516 | ≤2.5     | PASS     |      |      |
|  | 11AX20SISO    | Ant1   | 2412          | 30~1000       | -53.48  | ≤-26     | 0.00449  | ≤2.5 | PASS |
|  |               |        |               | 1000~2387     | -26.28  | ≤-26     | 2.35505  | ≤2.5 | PASS |
|  |               |        |               | 2387~2400     | -16.84  | ≤-16     | 20.70141 | ≤25  | PASS |
|  |               |        |               | 2483.5~2496.5 | -38.96  | ≤-16     | 0.12706  | ≤25  | PASS |
|  |               |        |               | 2496.5~13000  | -39.04  | ≤-26     | 0.12474  | ≤2.5 | PASS |
|  |               | 2442   | 30~1000       | -53.61        | ≤-26    | 0.00436  | ≤2.5     | PASS |      |
|  |               |        | 1000~2387     | -46.62        | ≤-26    | 0.02178  | ≤2.5     | PASS |      |
|  |               |        | 2387~2400     | -40.68        | ≤-16    | 0.08551  | ≤25      | PASS |      |
|  |               |        | 2483.5~2496.5 | -38.44        | ≤-16    | 0.14322  | ≤25      | PASS |      |
|  |               |        | 2496.5~13000  | -39.38        | ≤-26    | 0.11535  | ≤2.5     | PASS |      |
|  |               | 2472   | 30~1000       | -53.71        | ≤-26    | 0.00426  | ≤2.5     | PASS |      |
|  |               |        | 1000~2387     | -50.34        | ≤-26    | 0.00925  | ≤2.5     | PASS |      |
|  |               |        | 2387~2400     | -42.99        | ≤-16    | 0.05023  | ≤25      | PASS |      |
|  |               |        | 2483.5~2496.5 | -19.47        | ≤-16    | 11.29796 | ≤25      | PASS |      |
|  |               |        | 2496.5~13000  | -26.37        | ≤-26    | 2.30675  | ≤2.5     | PASS |      |

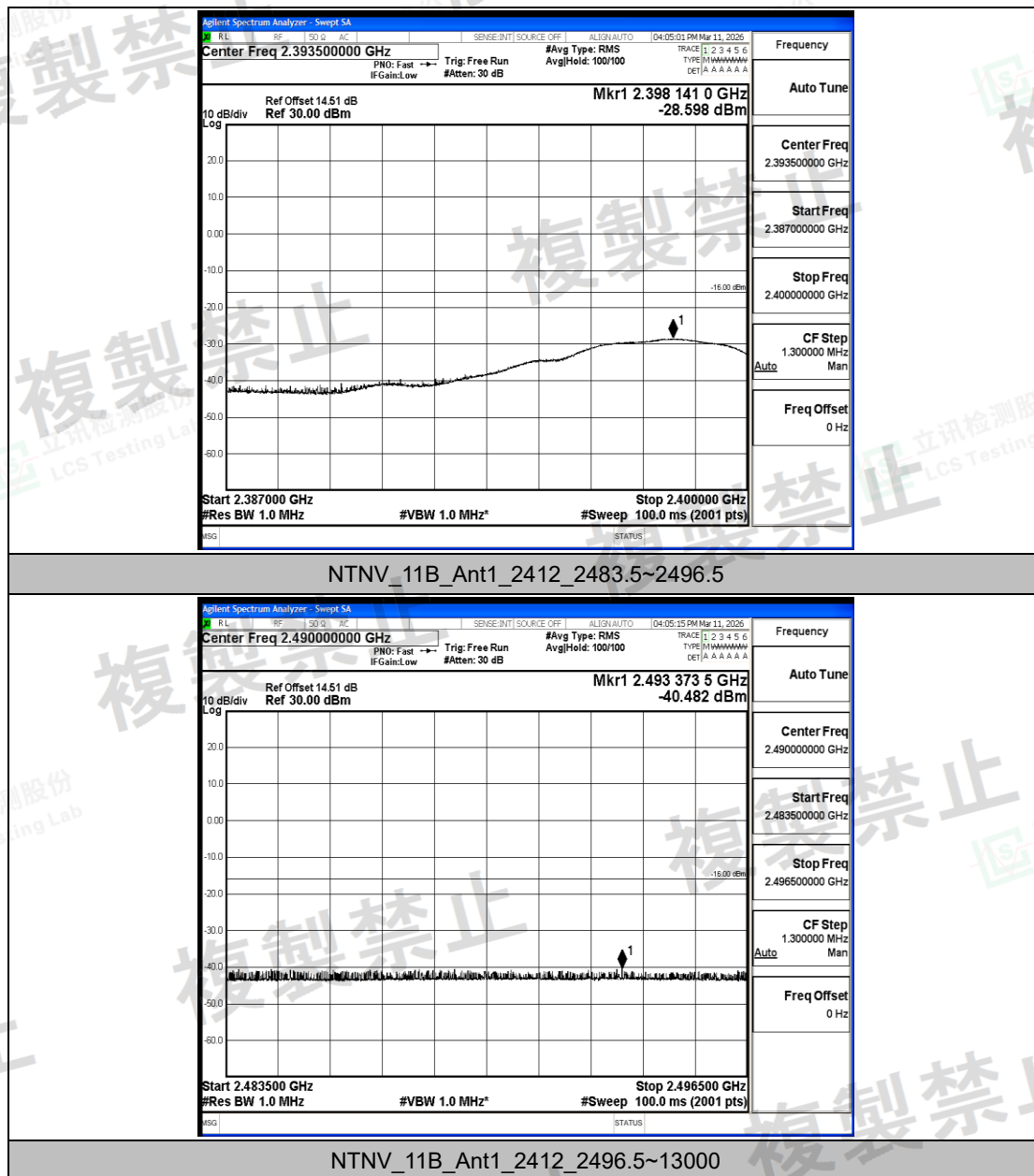


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Subdistrict, Bao'an District, Shenzhen, Guangdong, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
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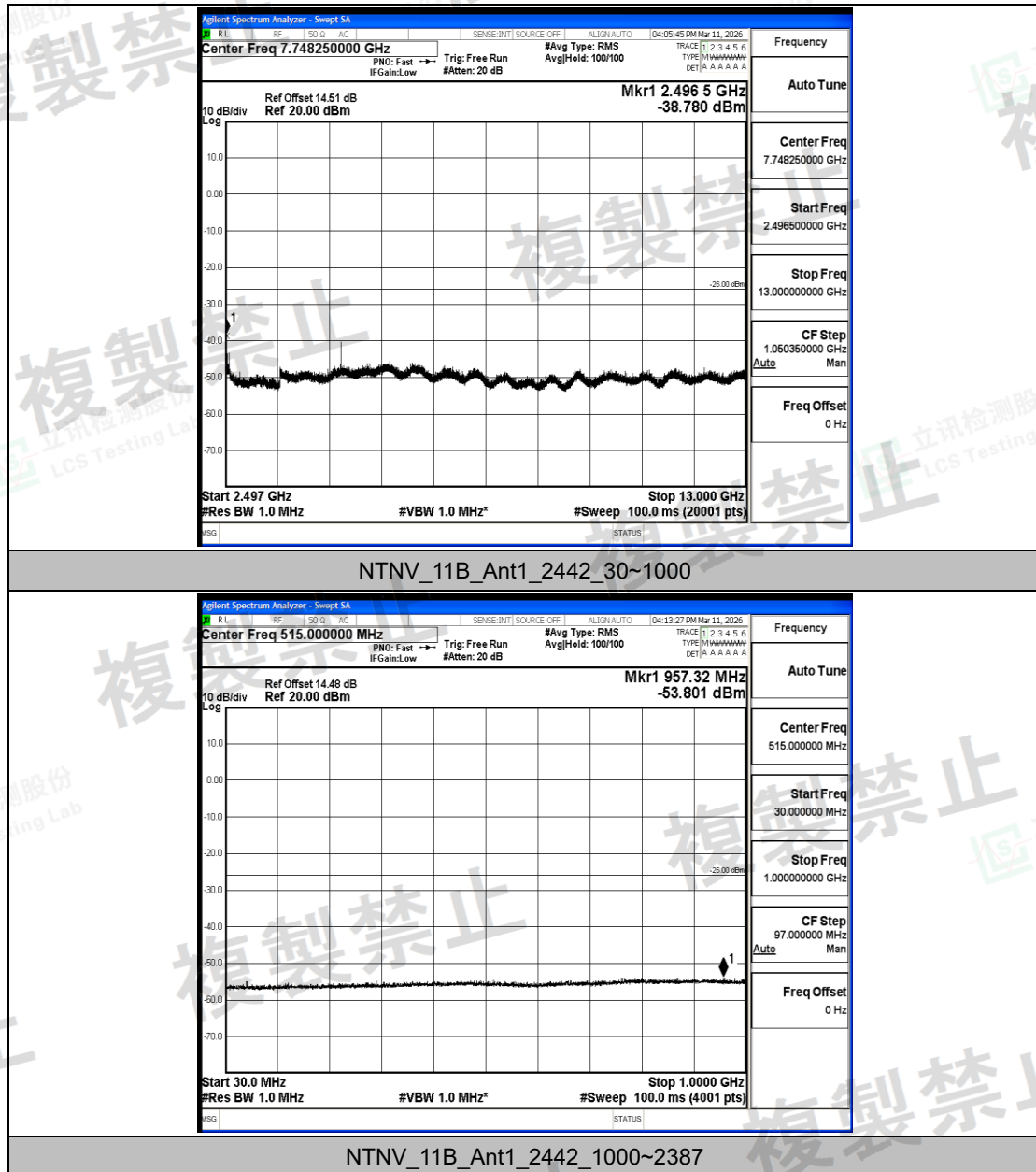


## Test Graphs

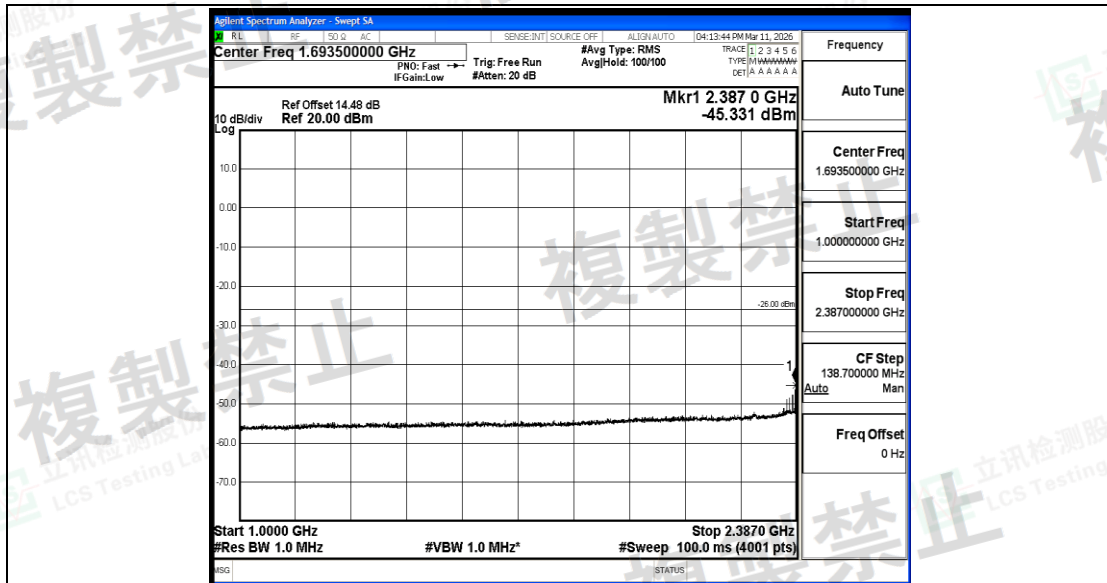




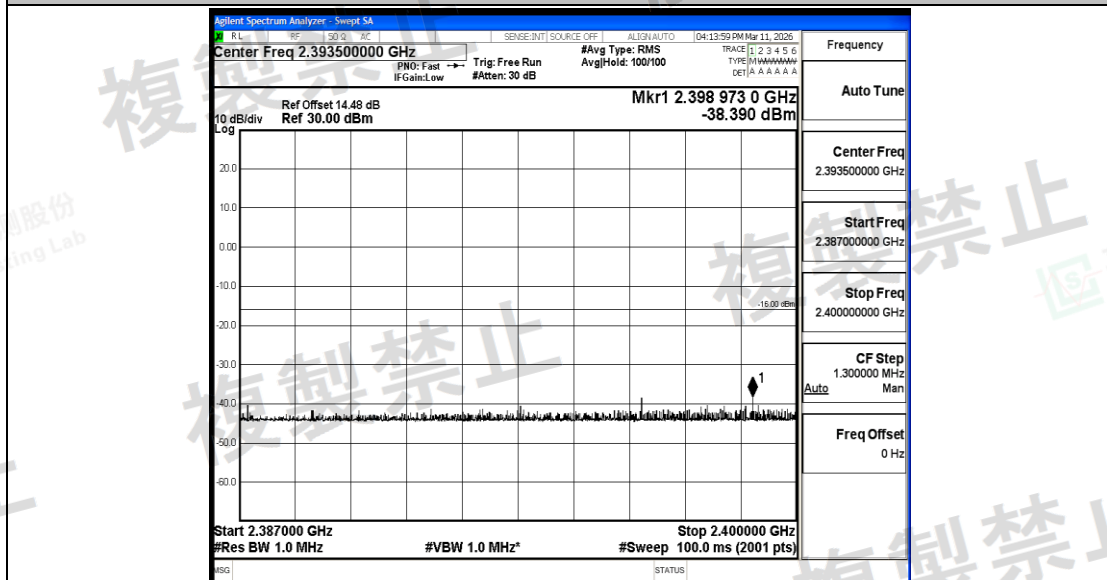
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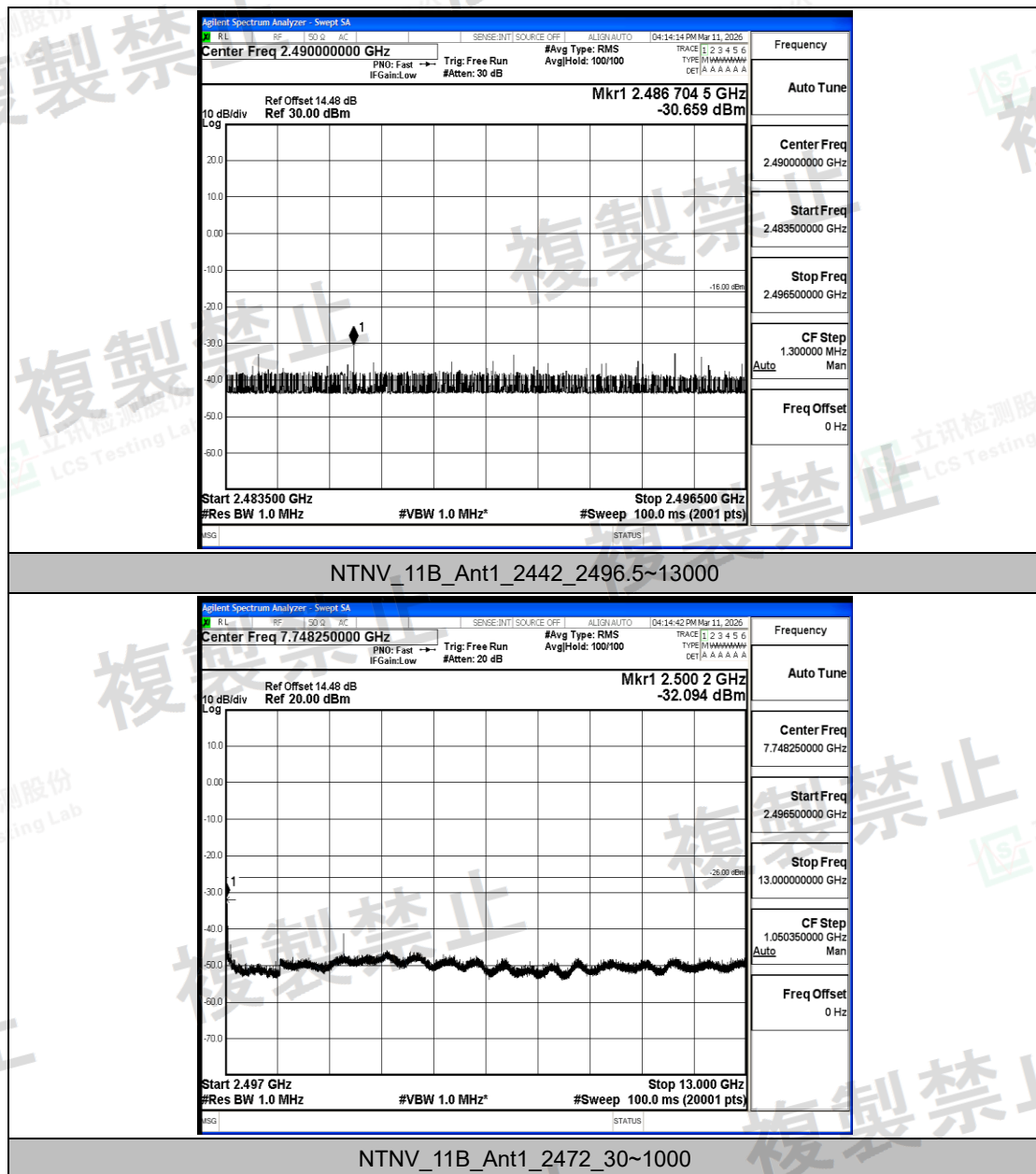
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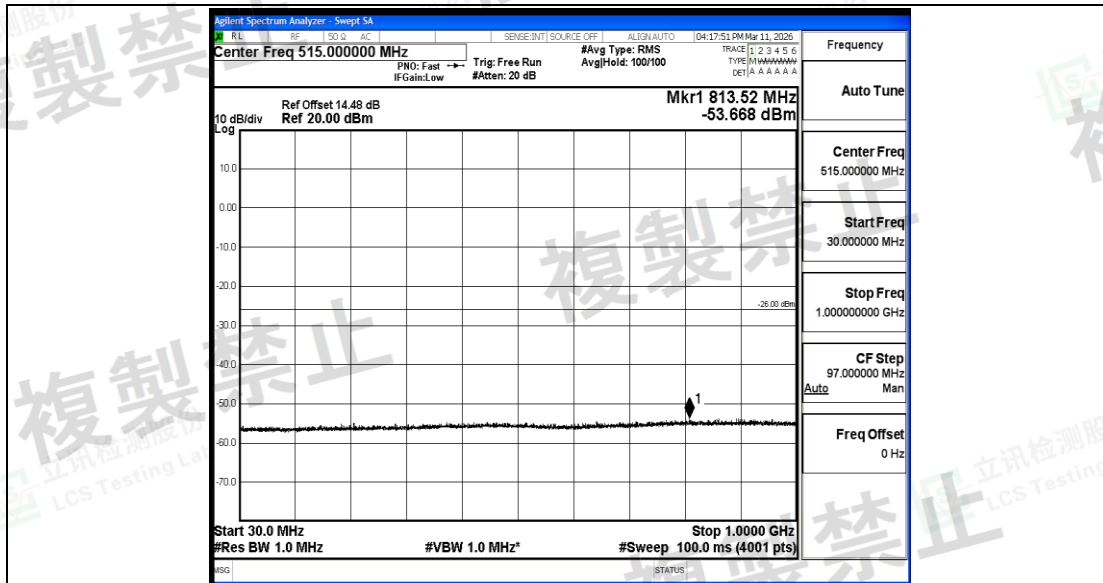


NTNV\_11B\_Ant1\_2442\_2483.5~2496.5

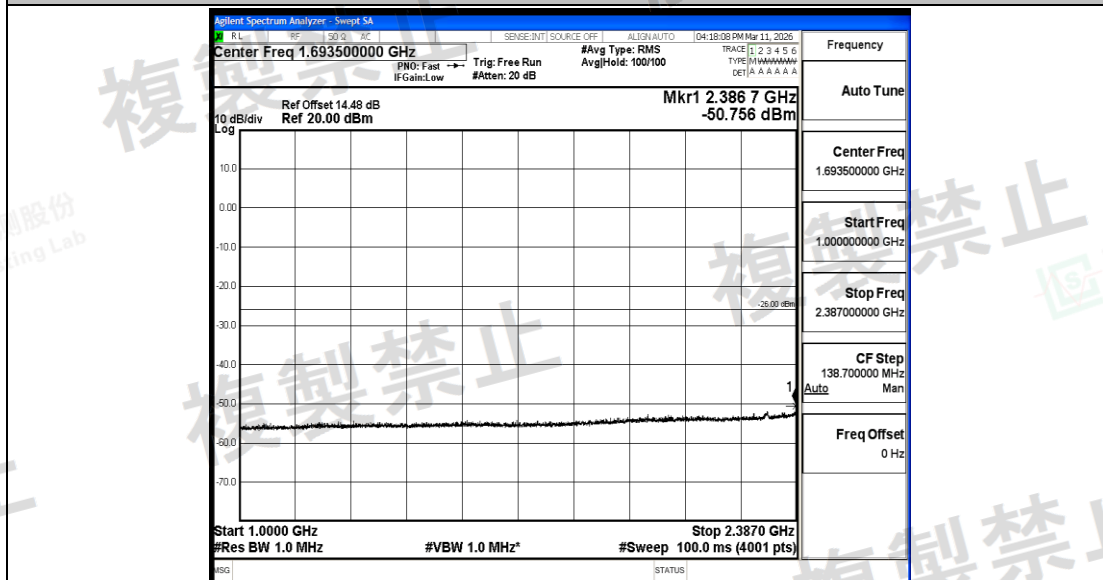


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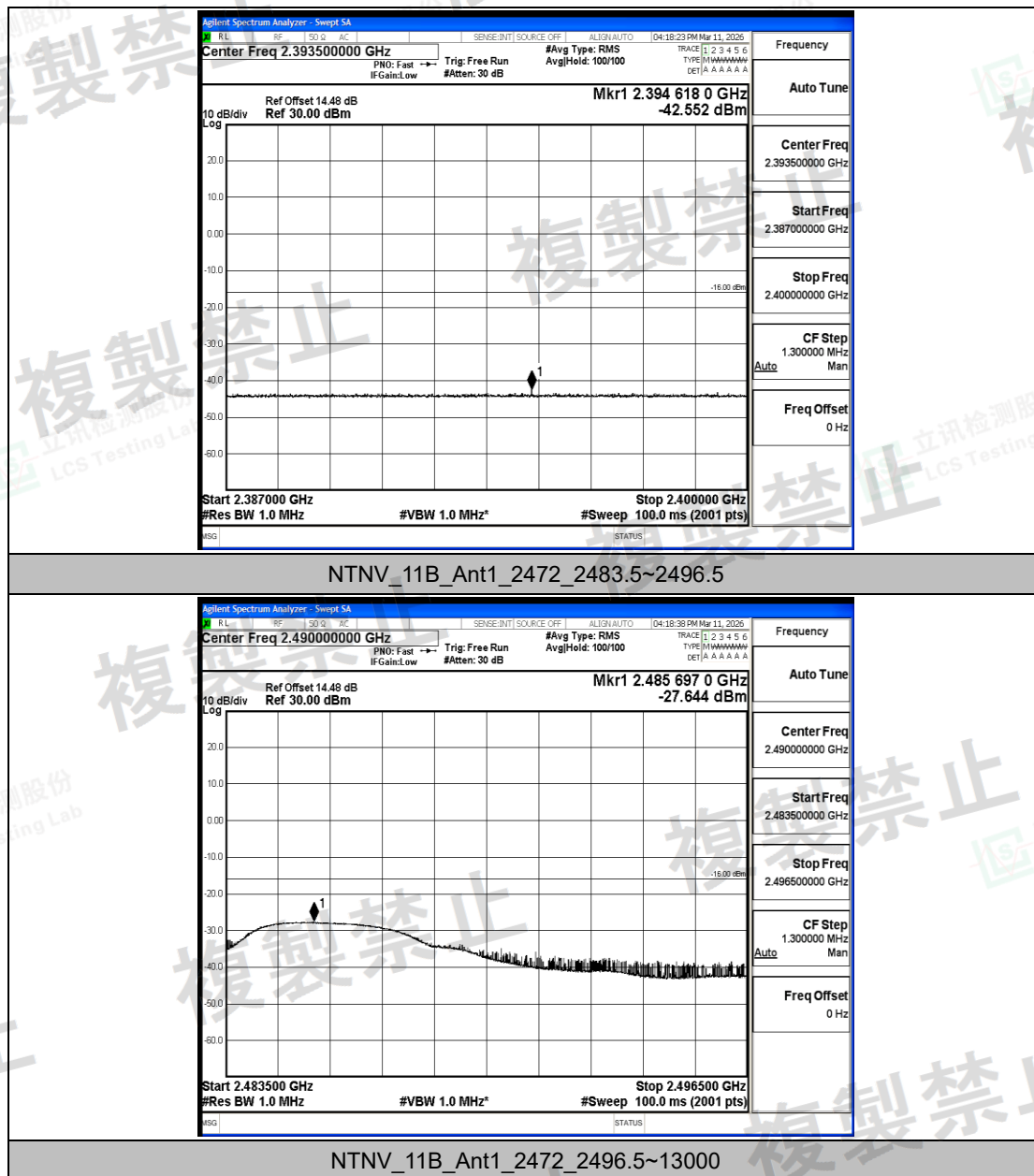
NTNV\_11B\_Ant1\_2472\_1000~2387



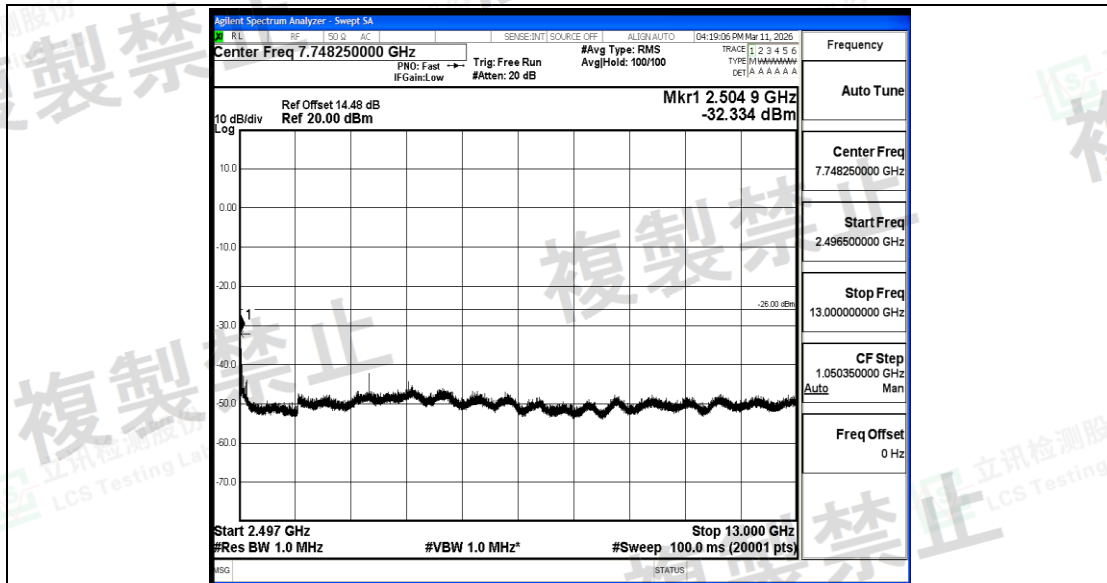
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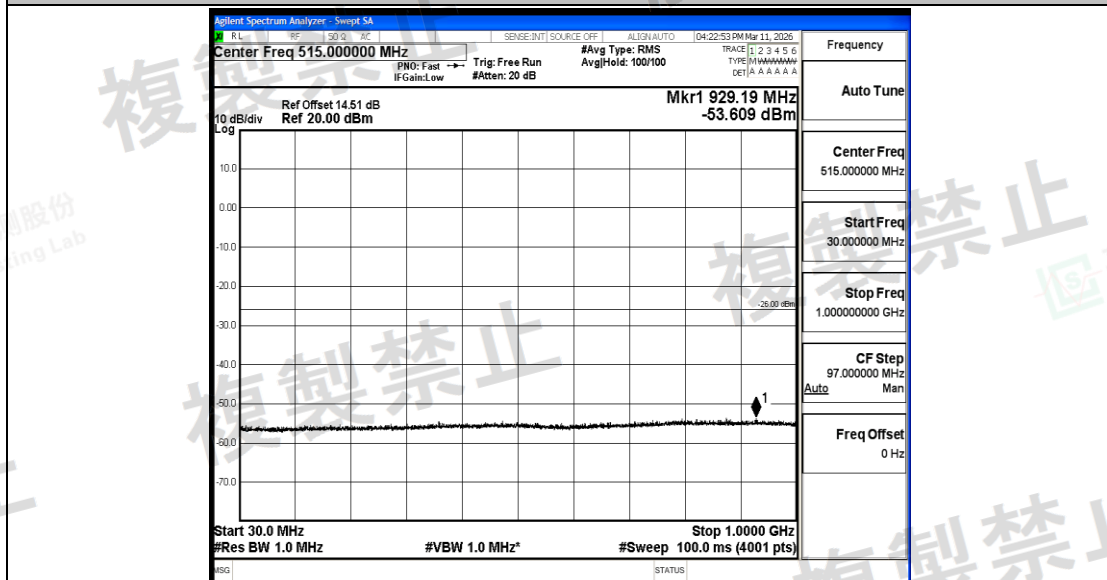
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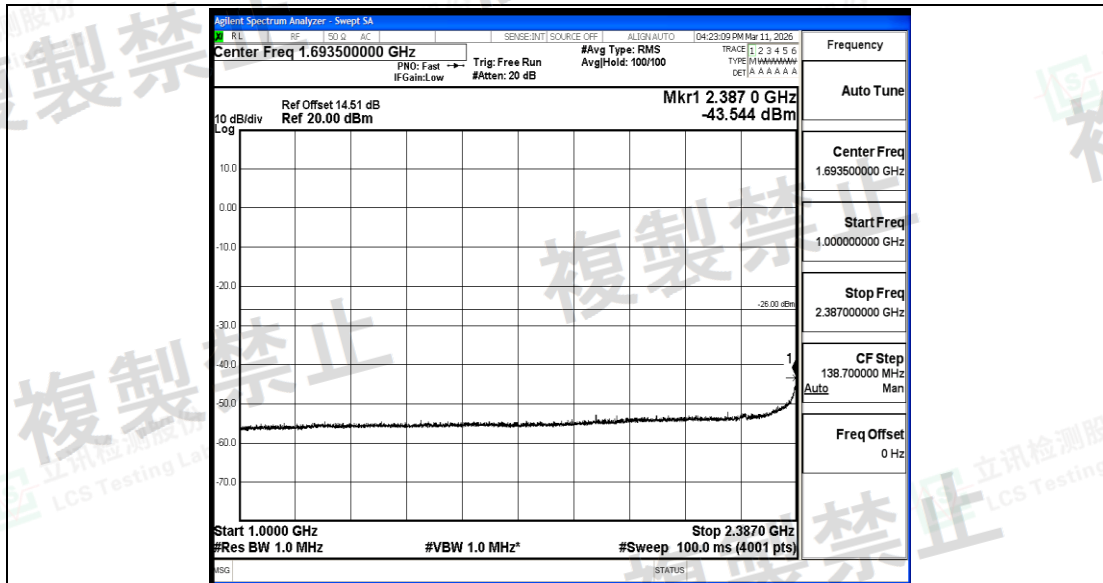
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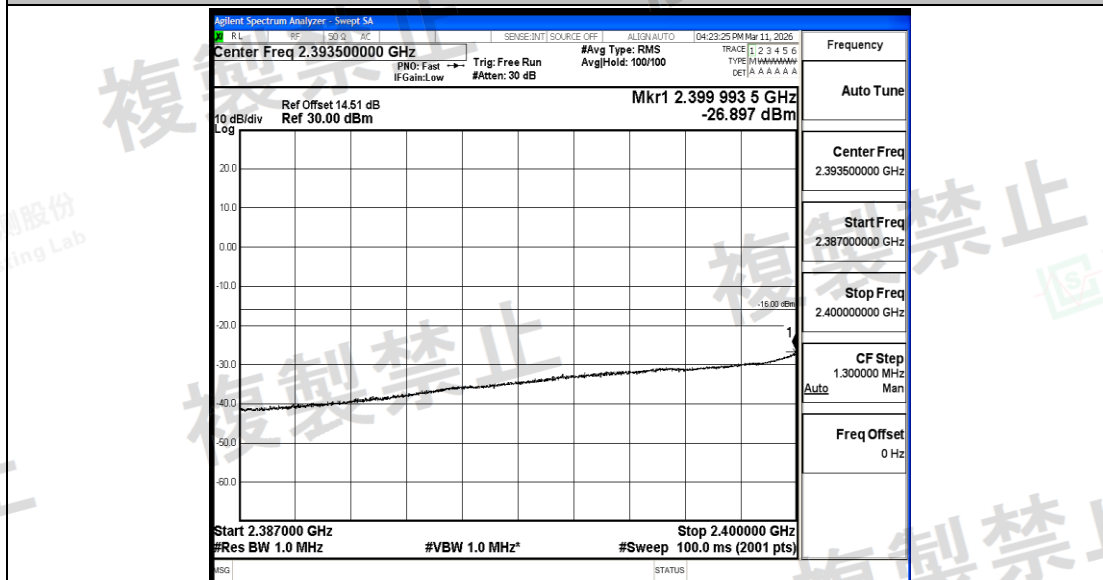
NTNV\_11G\_Ant1\_2412\_1000~2387



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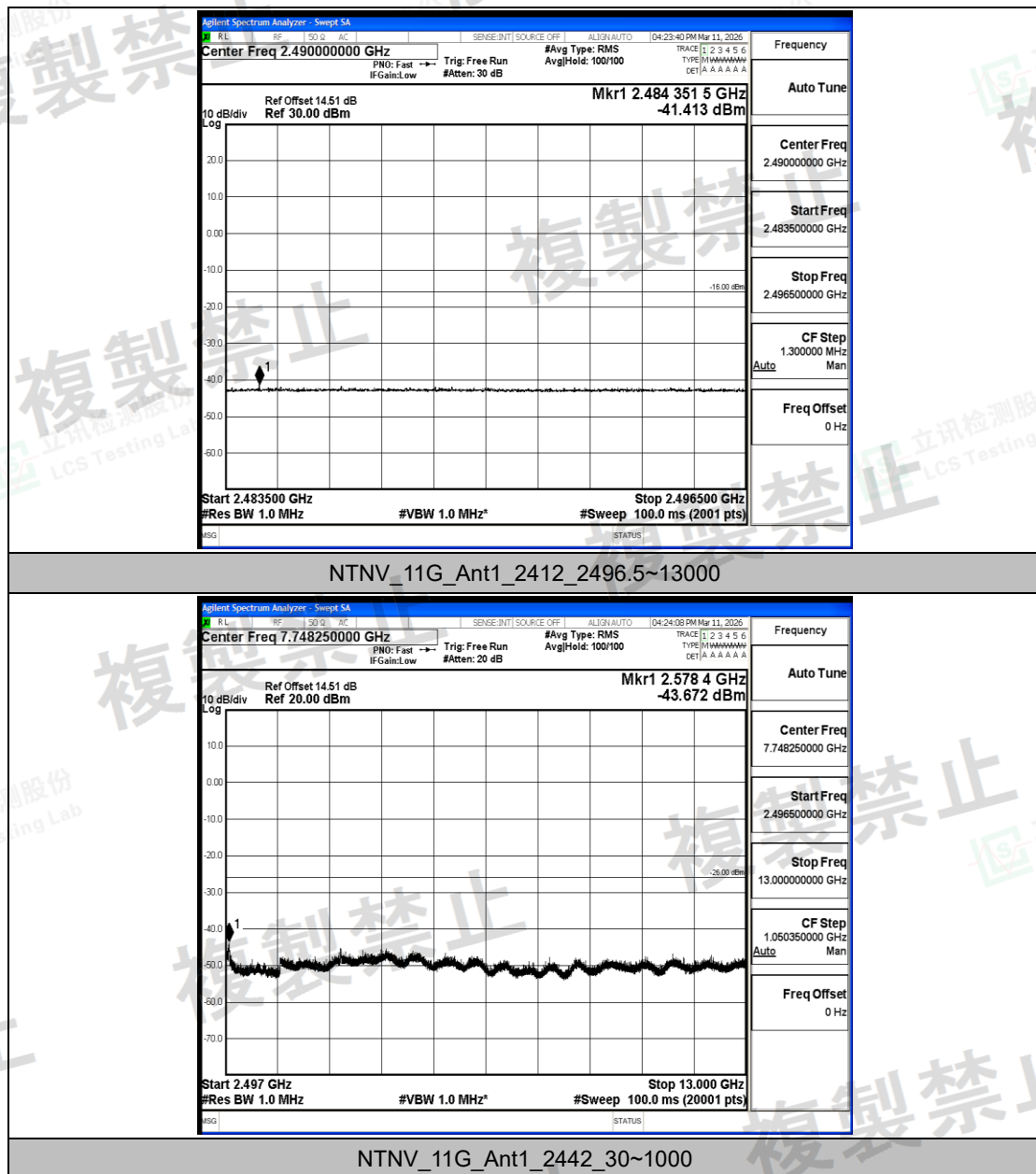


NTNV\_11G\_Ant1\_2412\_2387~2400

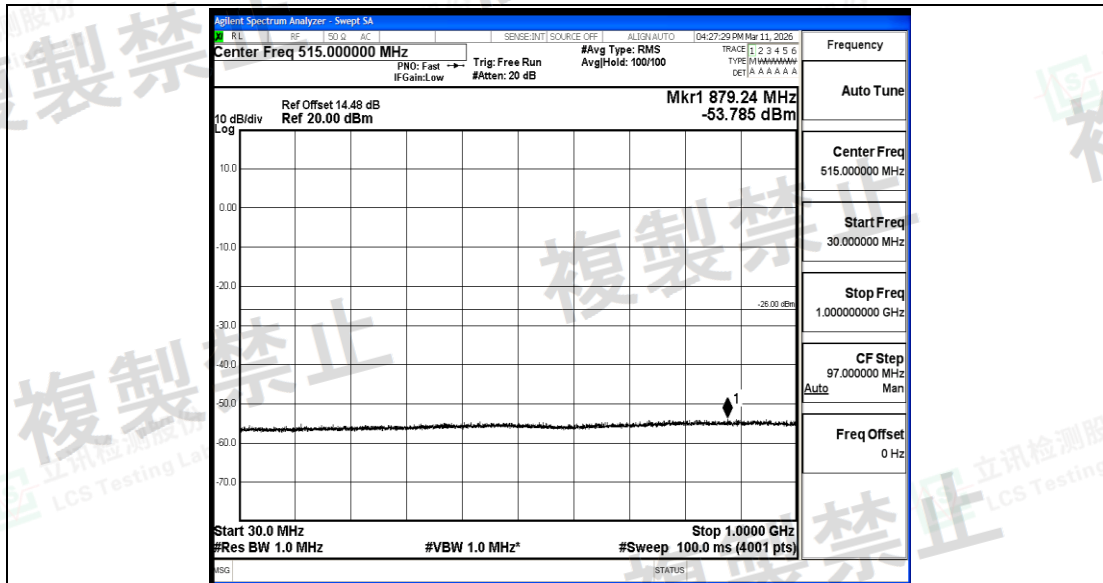


NTNV\_11G\_Ant1\_2412\_2483.5~2496.5

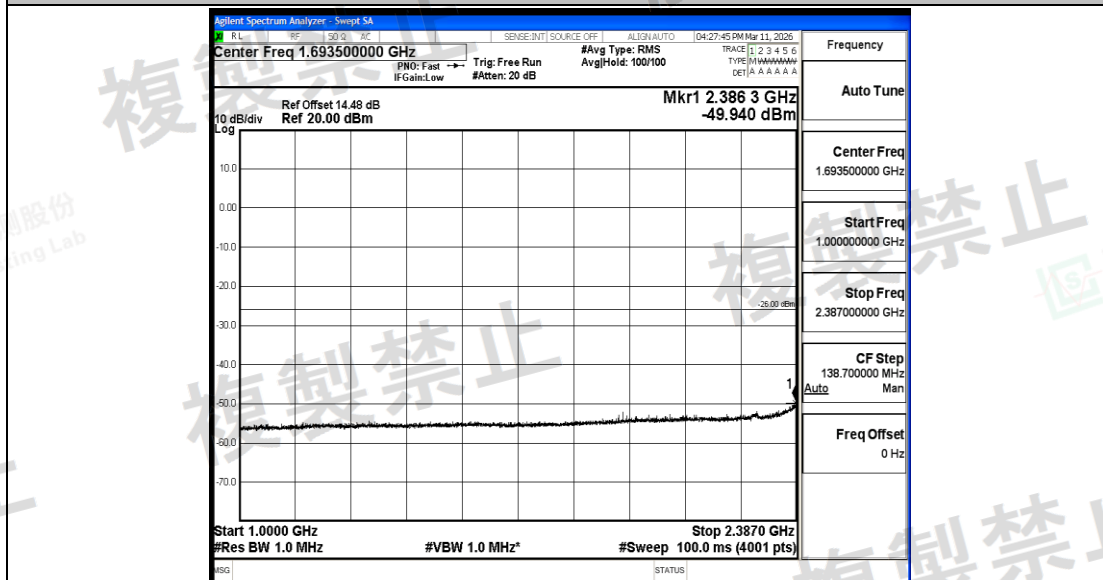




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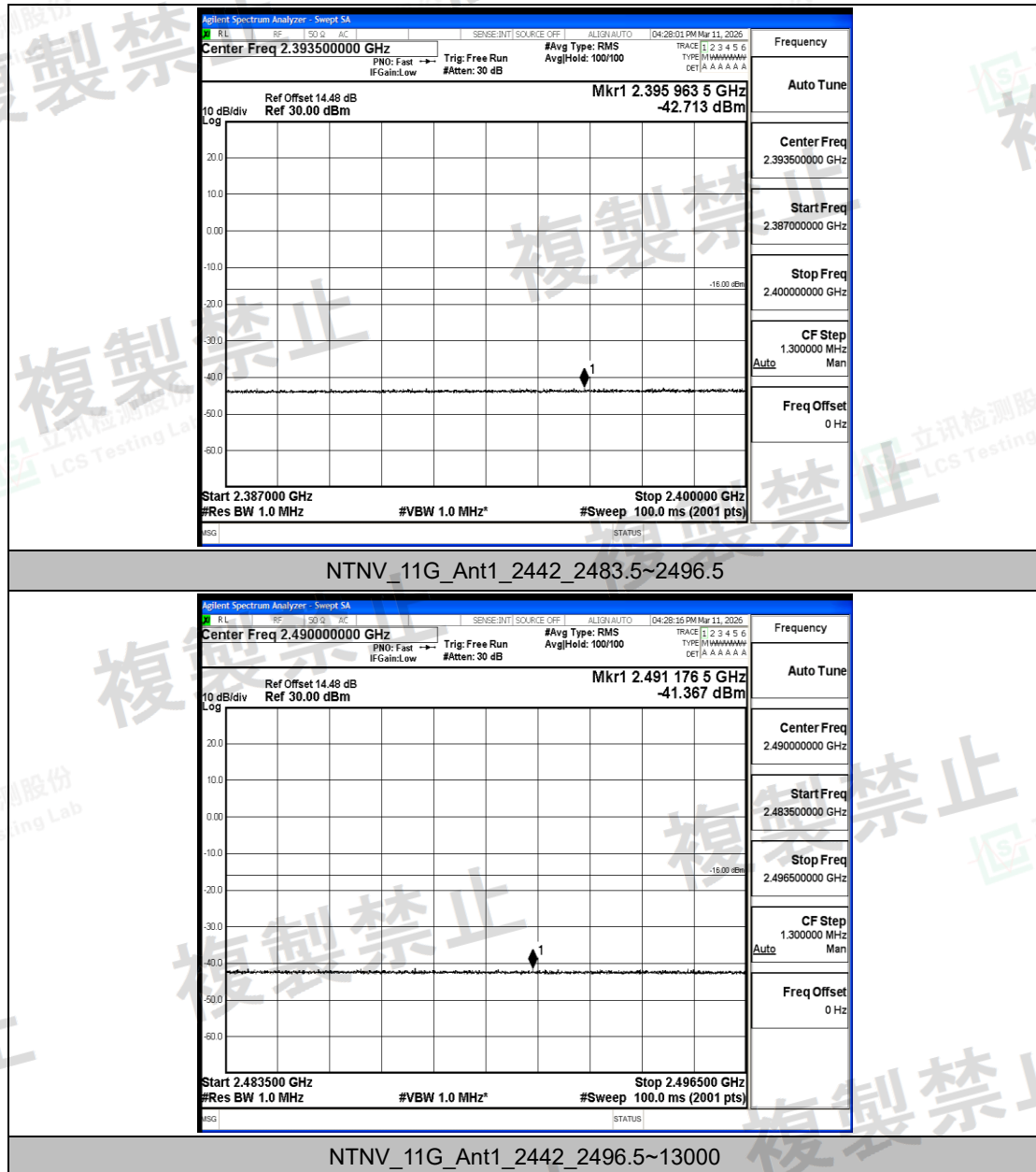
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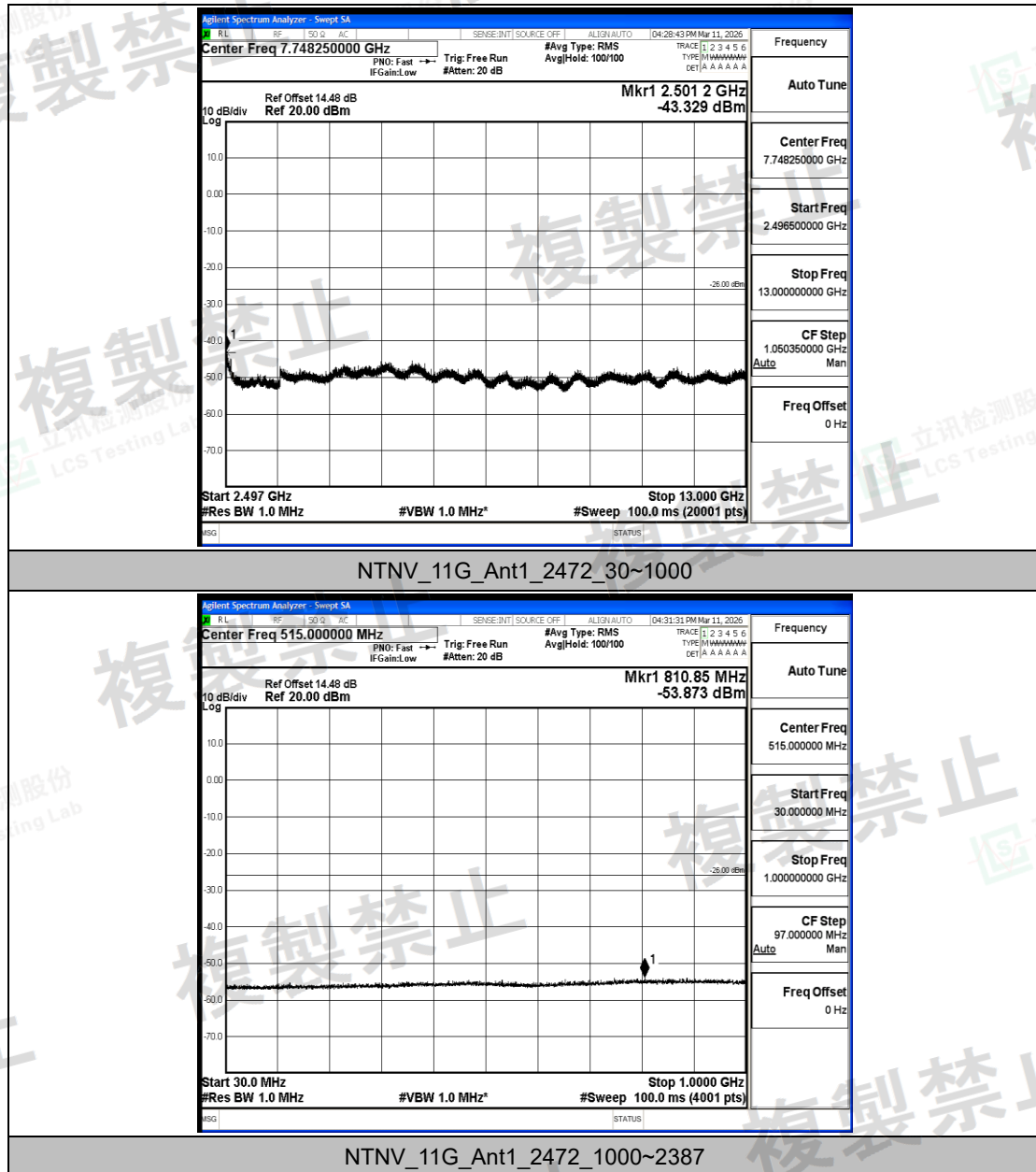


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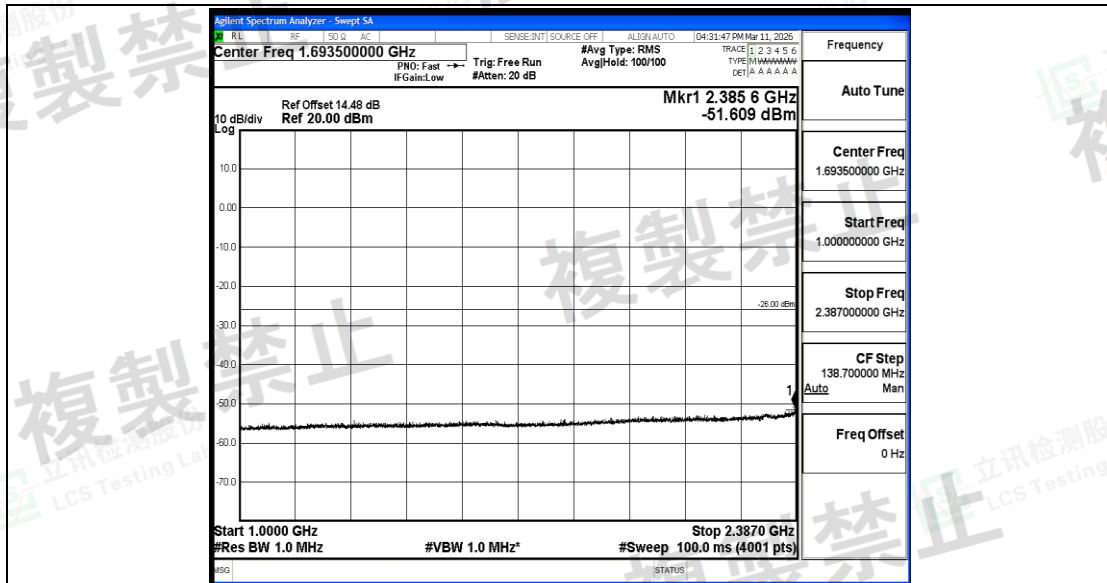


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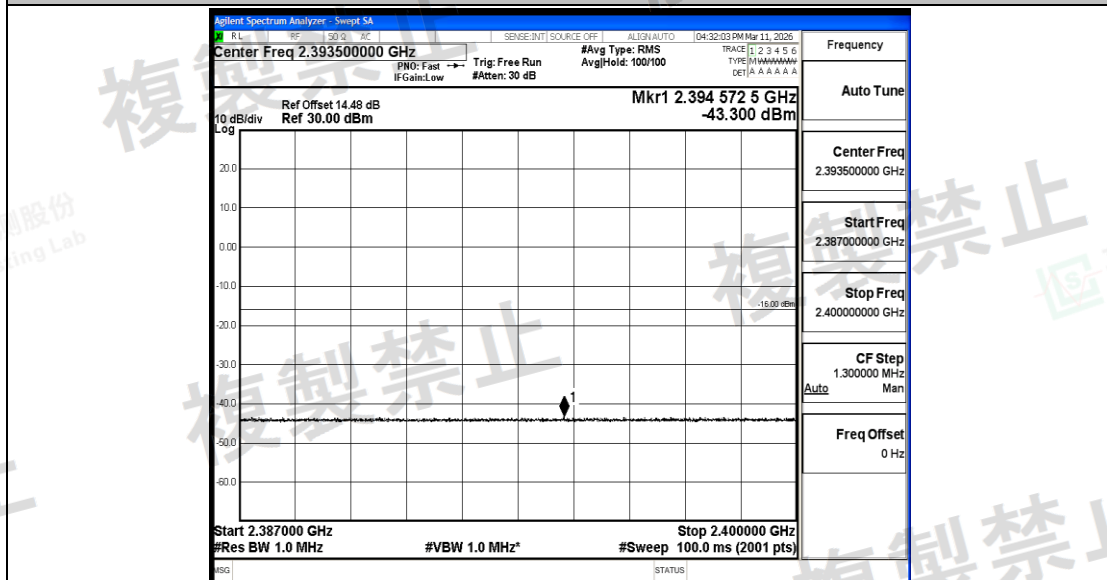




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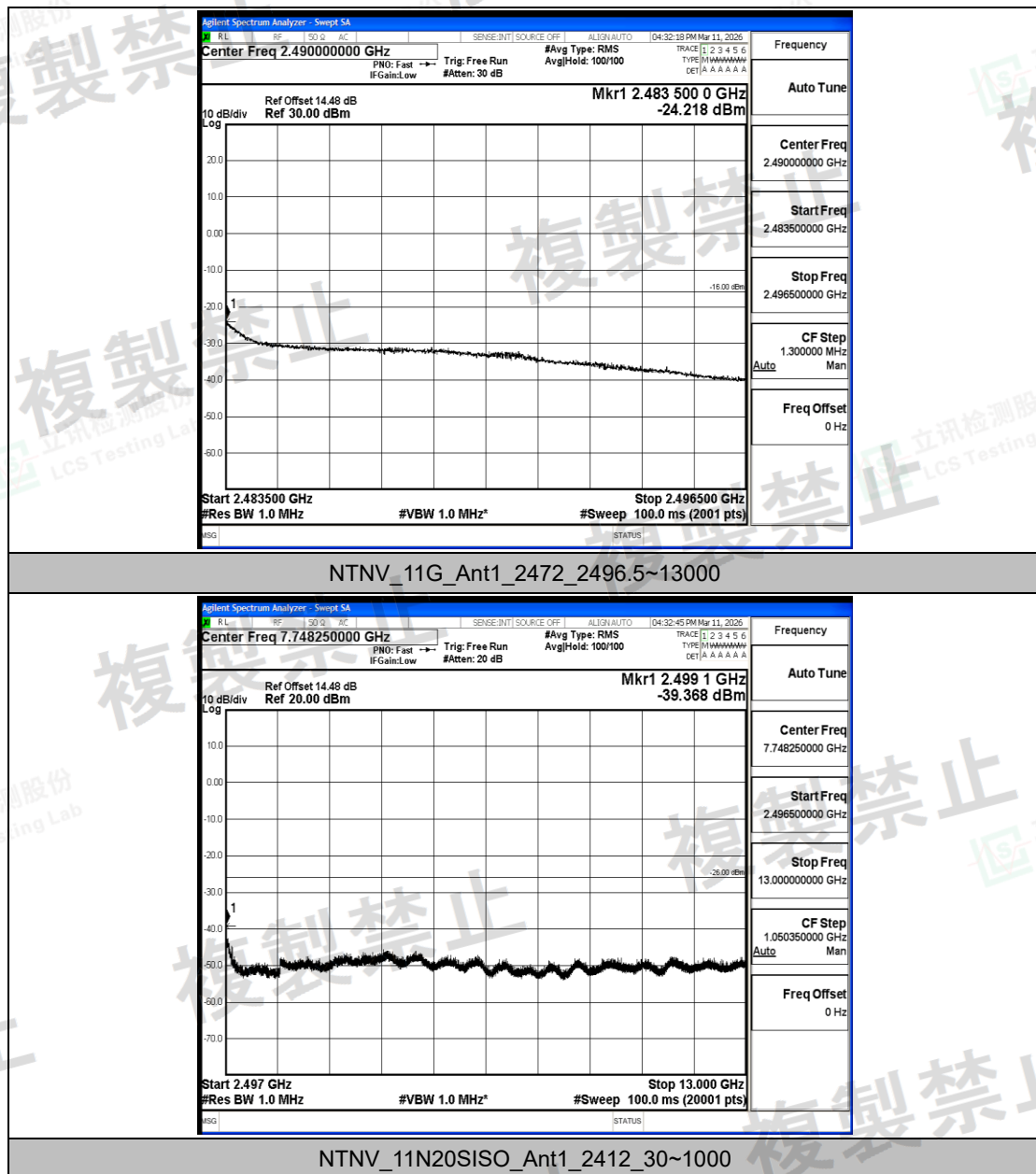
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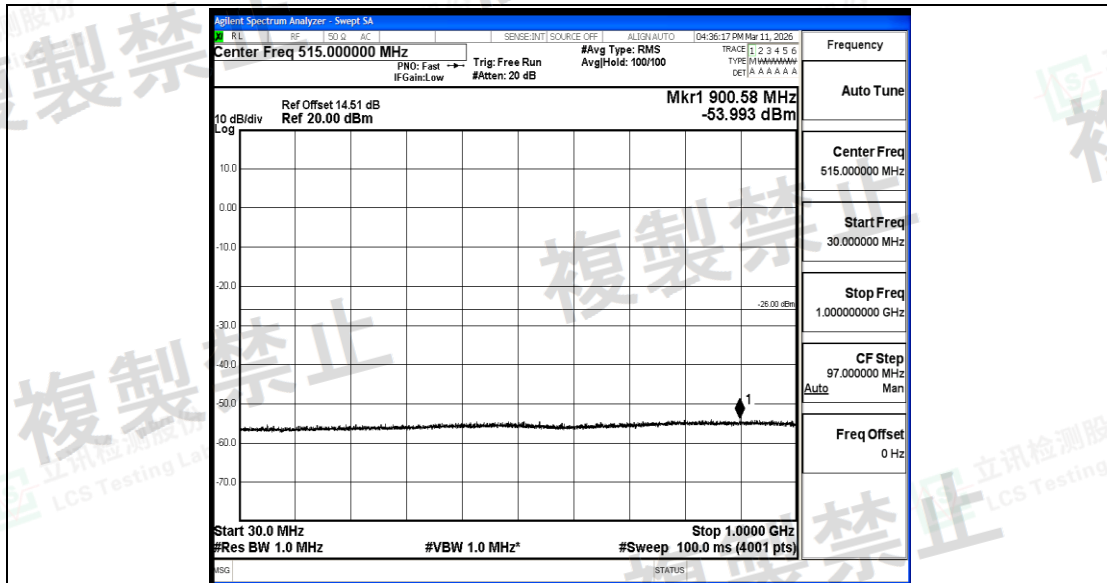


NTNV\_11G\_Ant1\_2472\_2483.5~2496.5

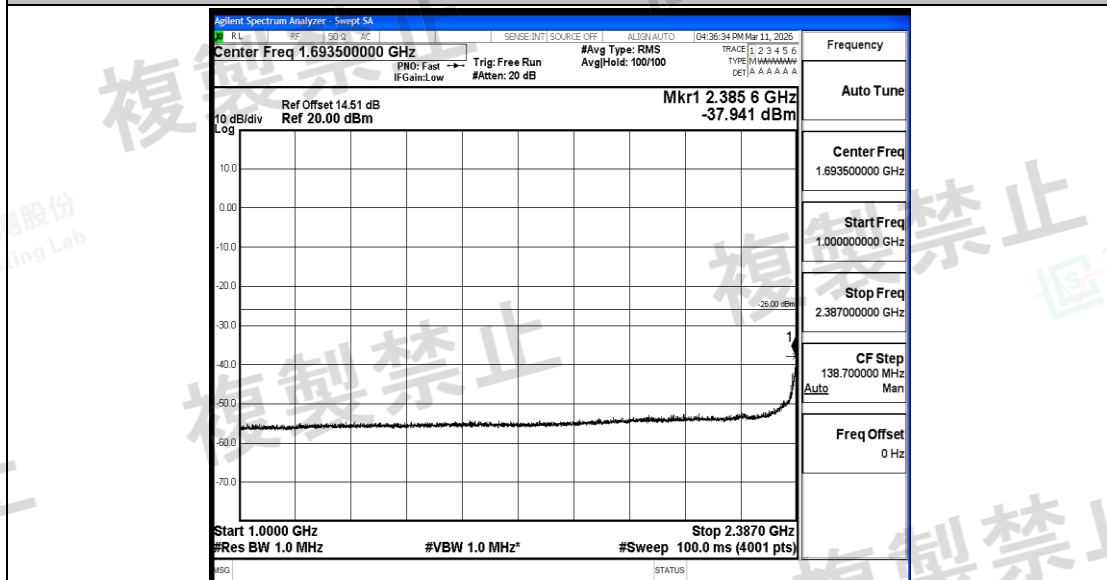


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NTNV\_11N20SISO\_Ant1\_2412\_1000~2387



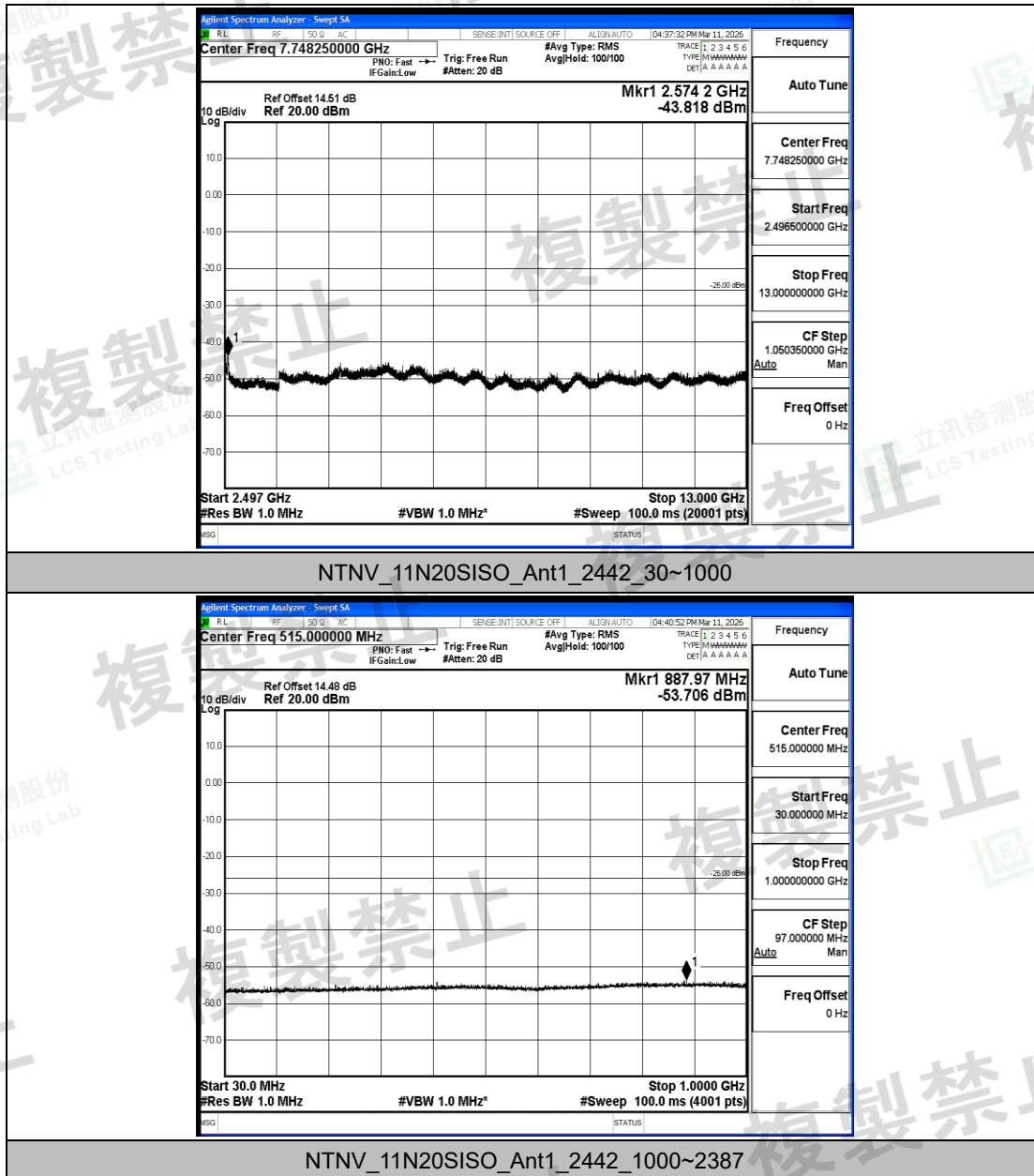
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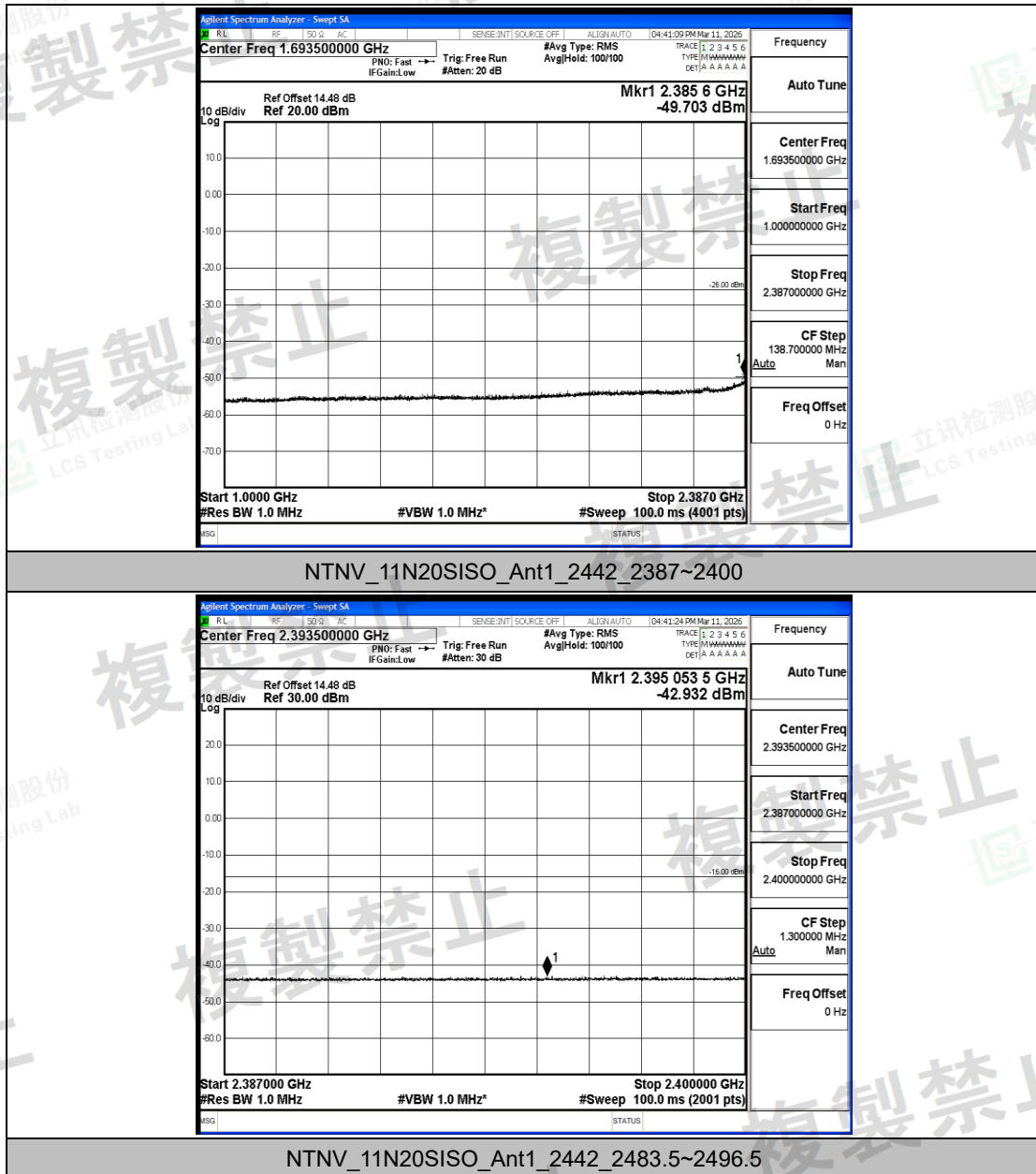


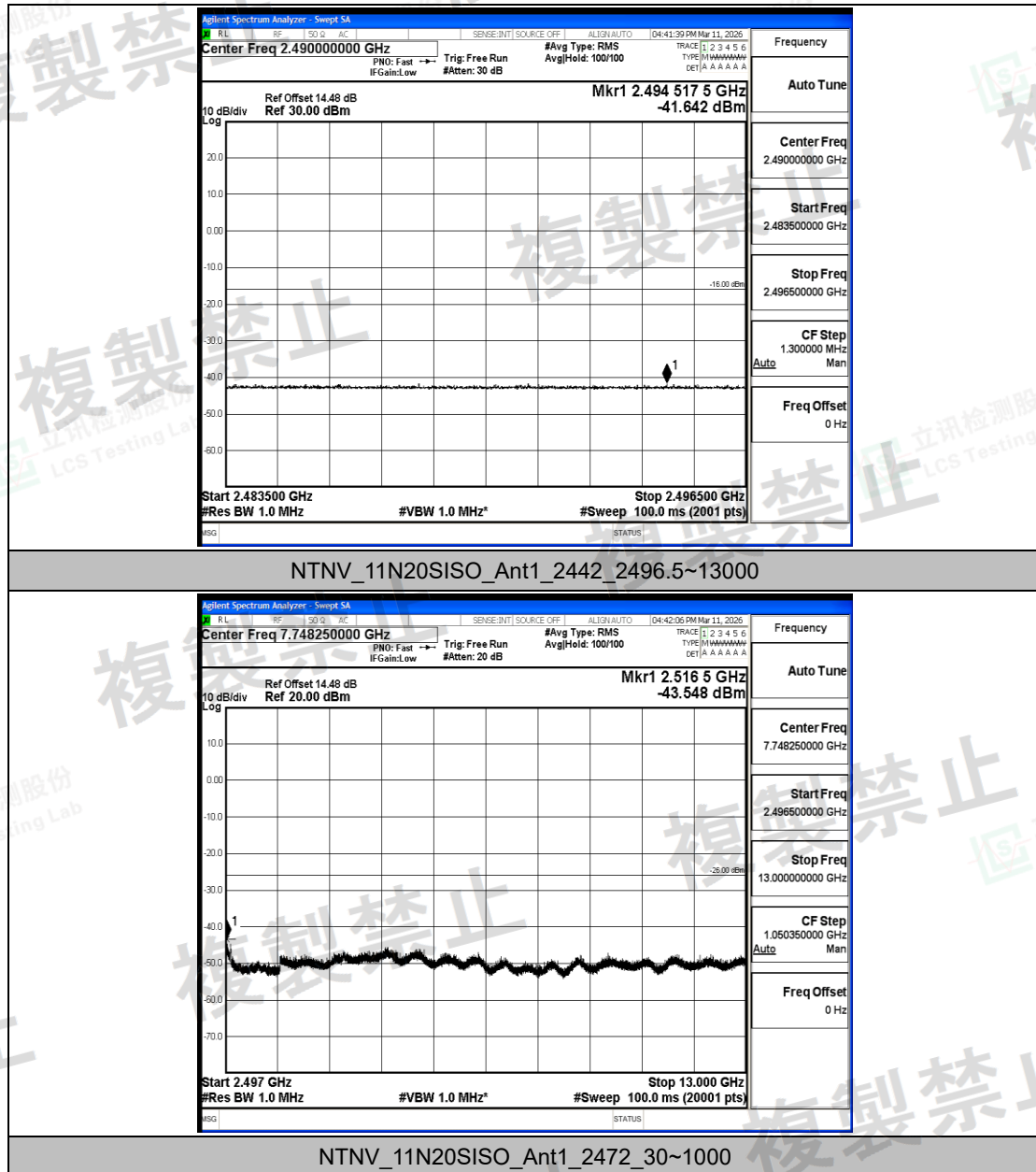
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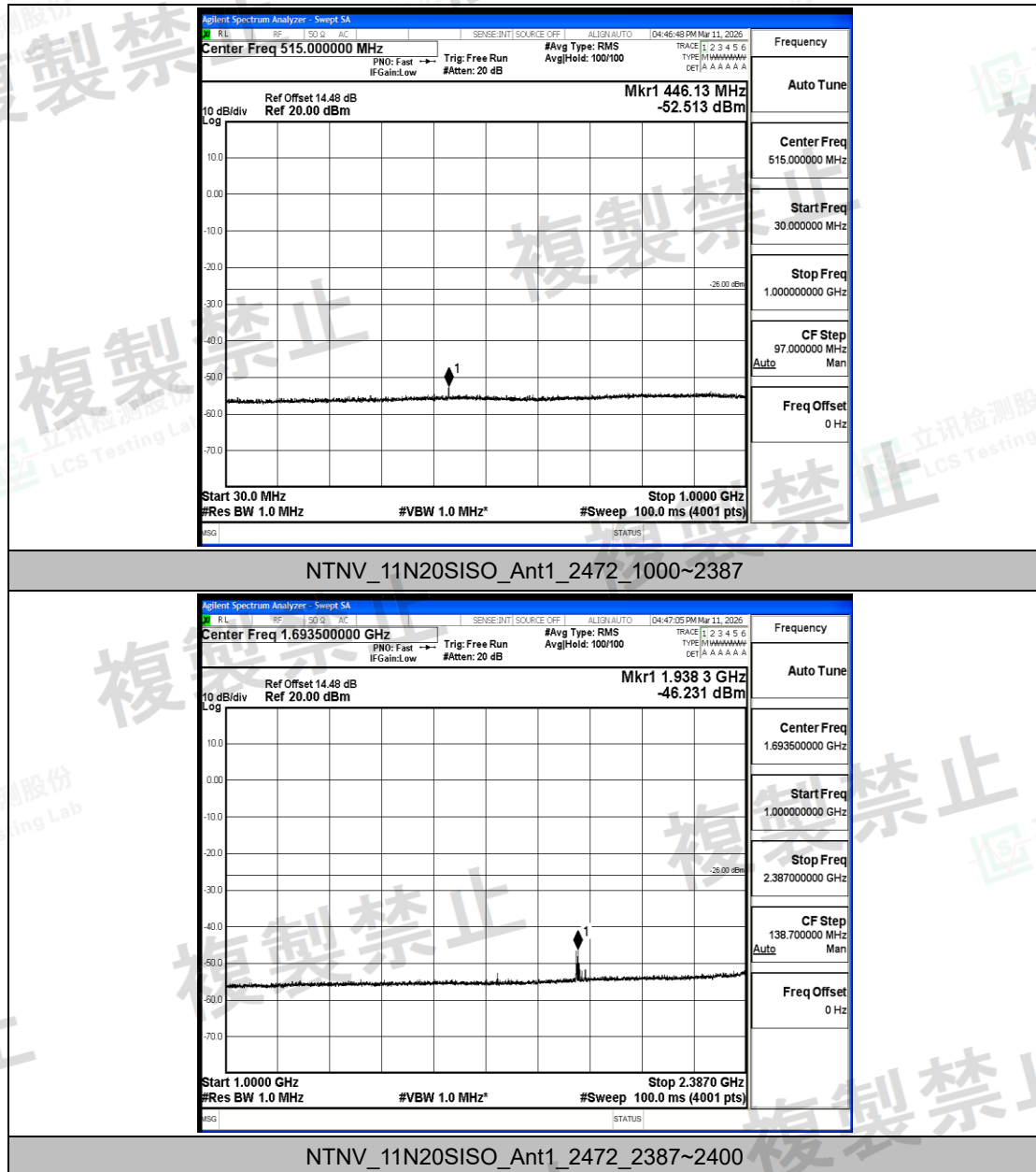
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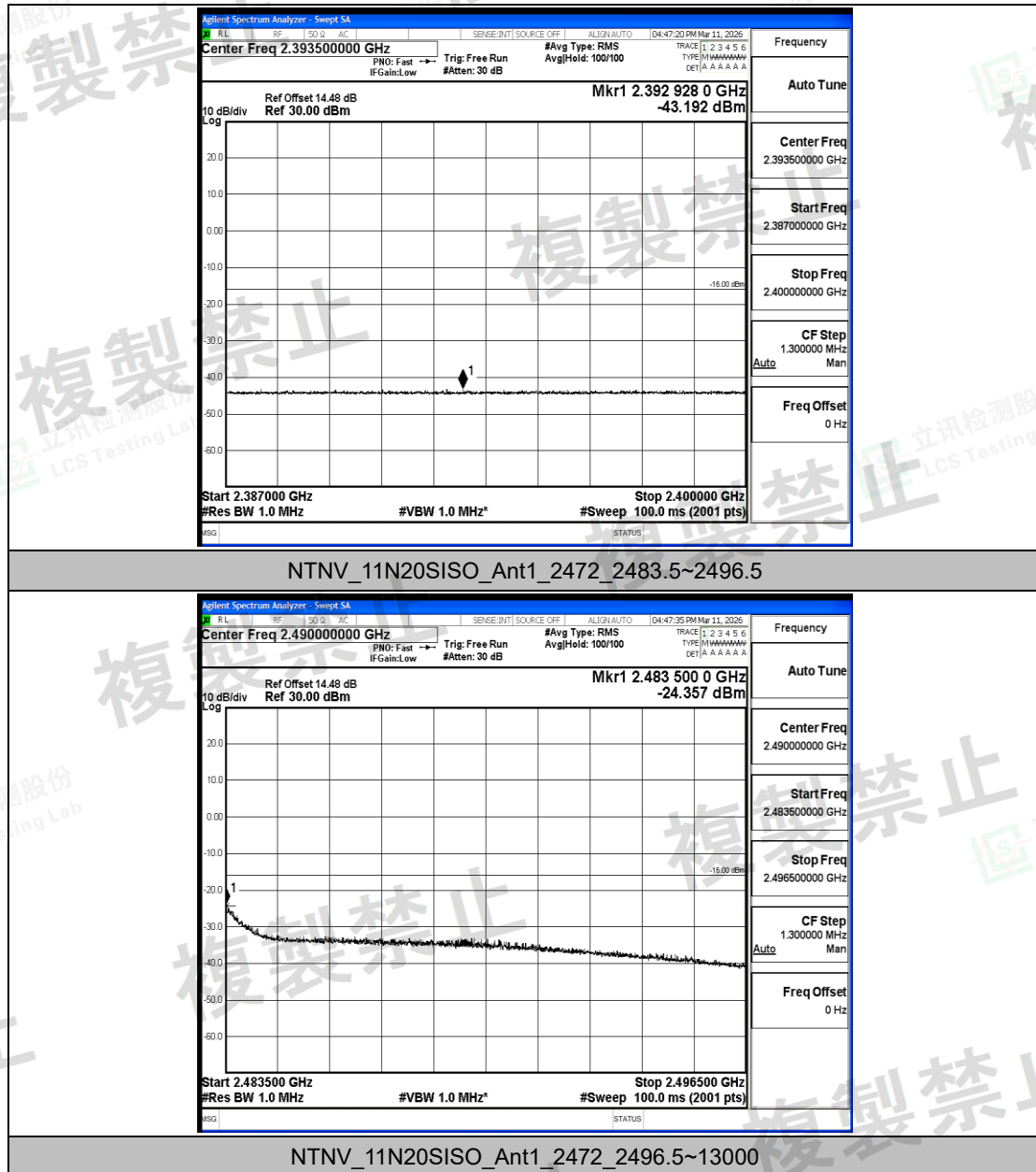




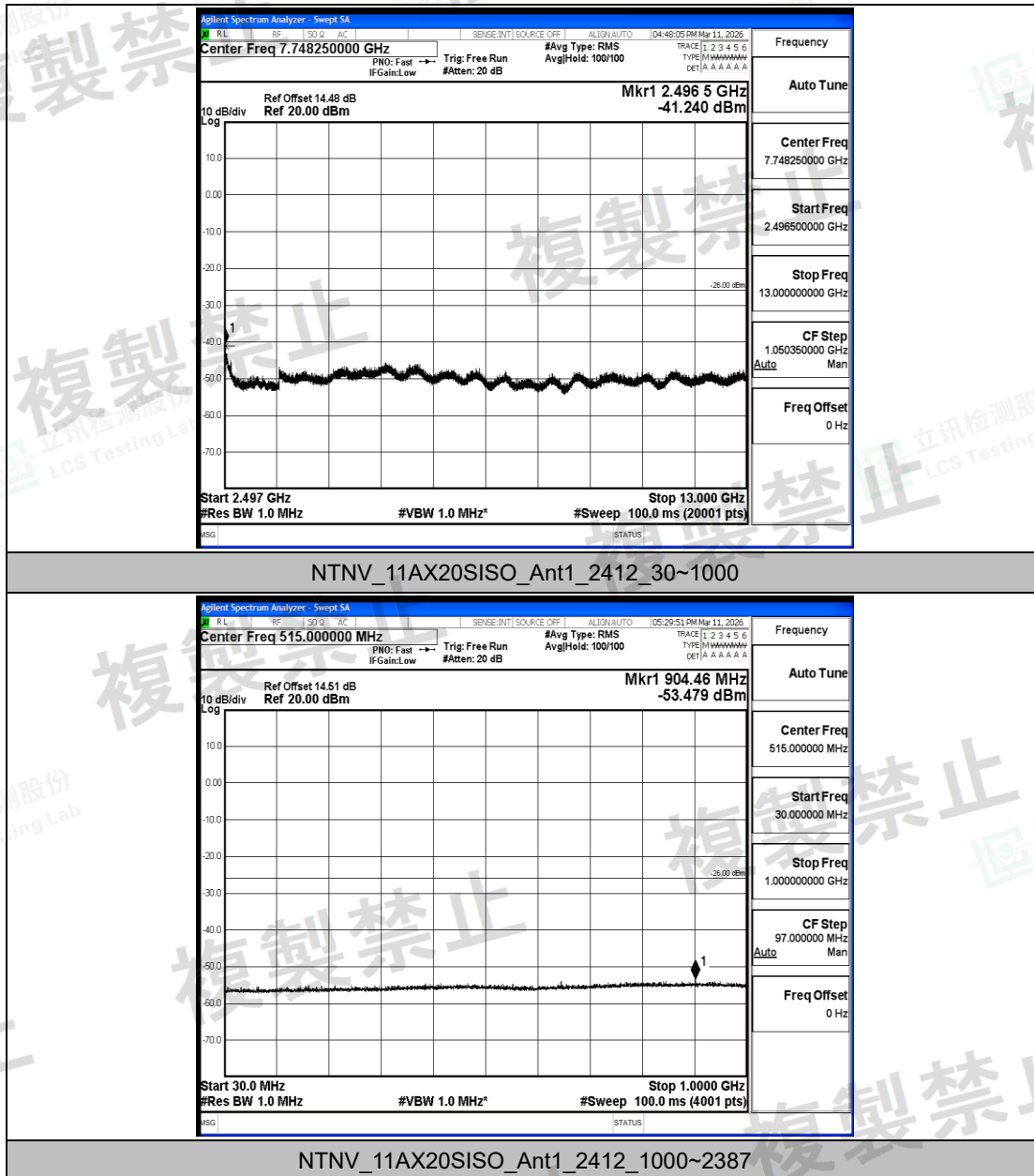


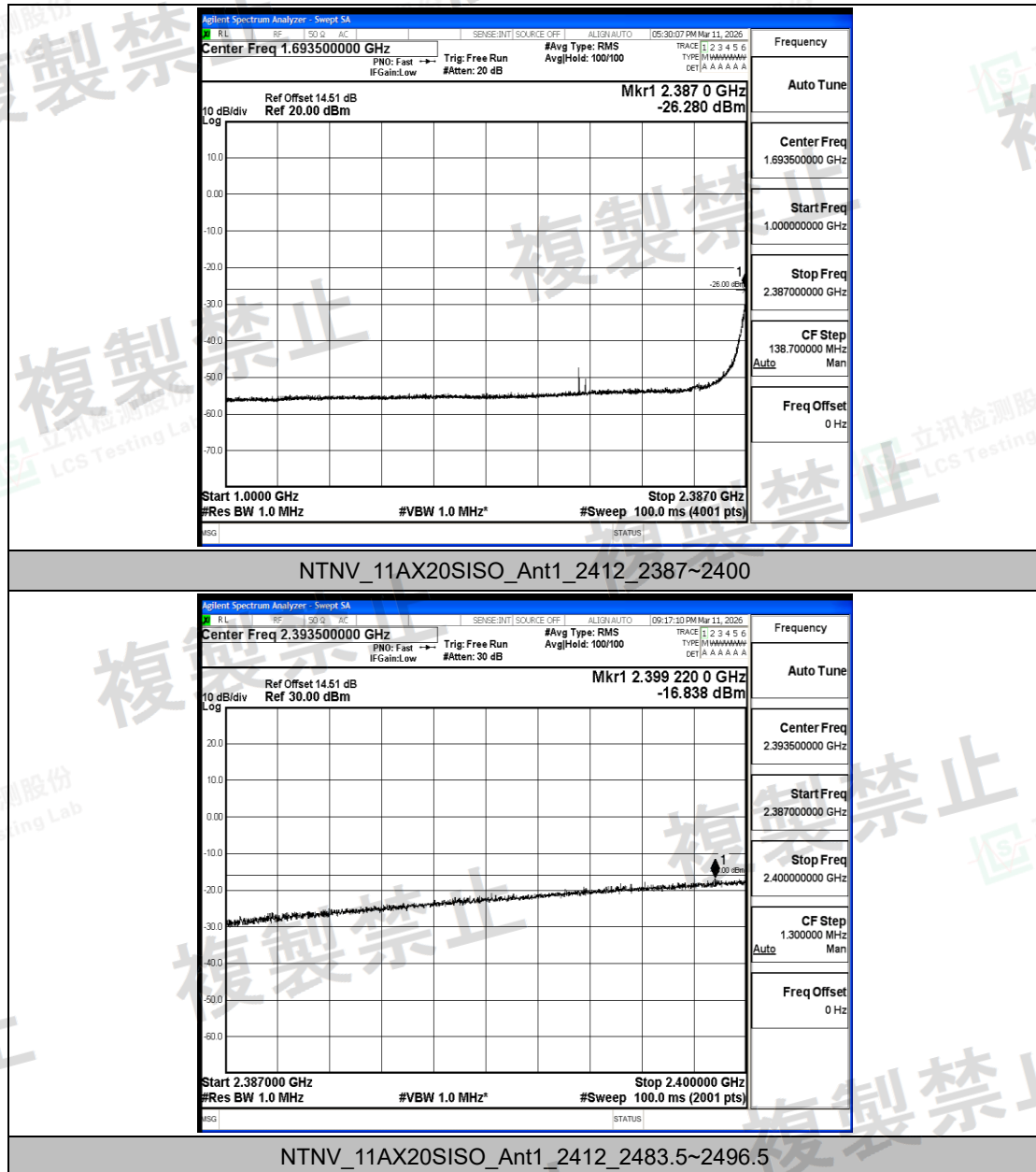
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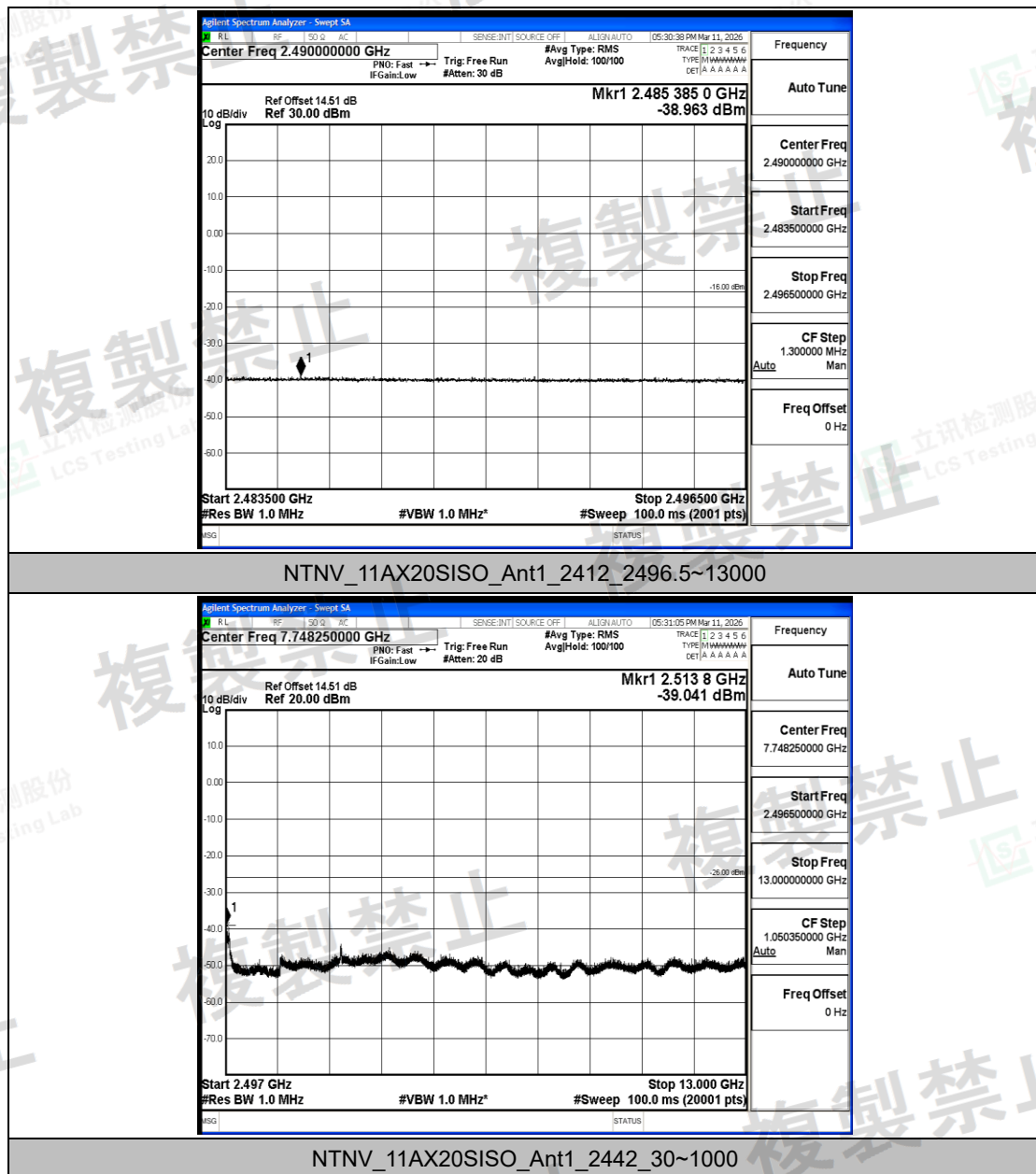




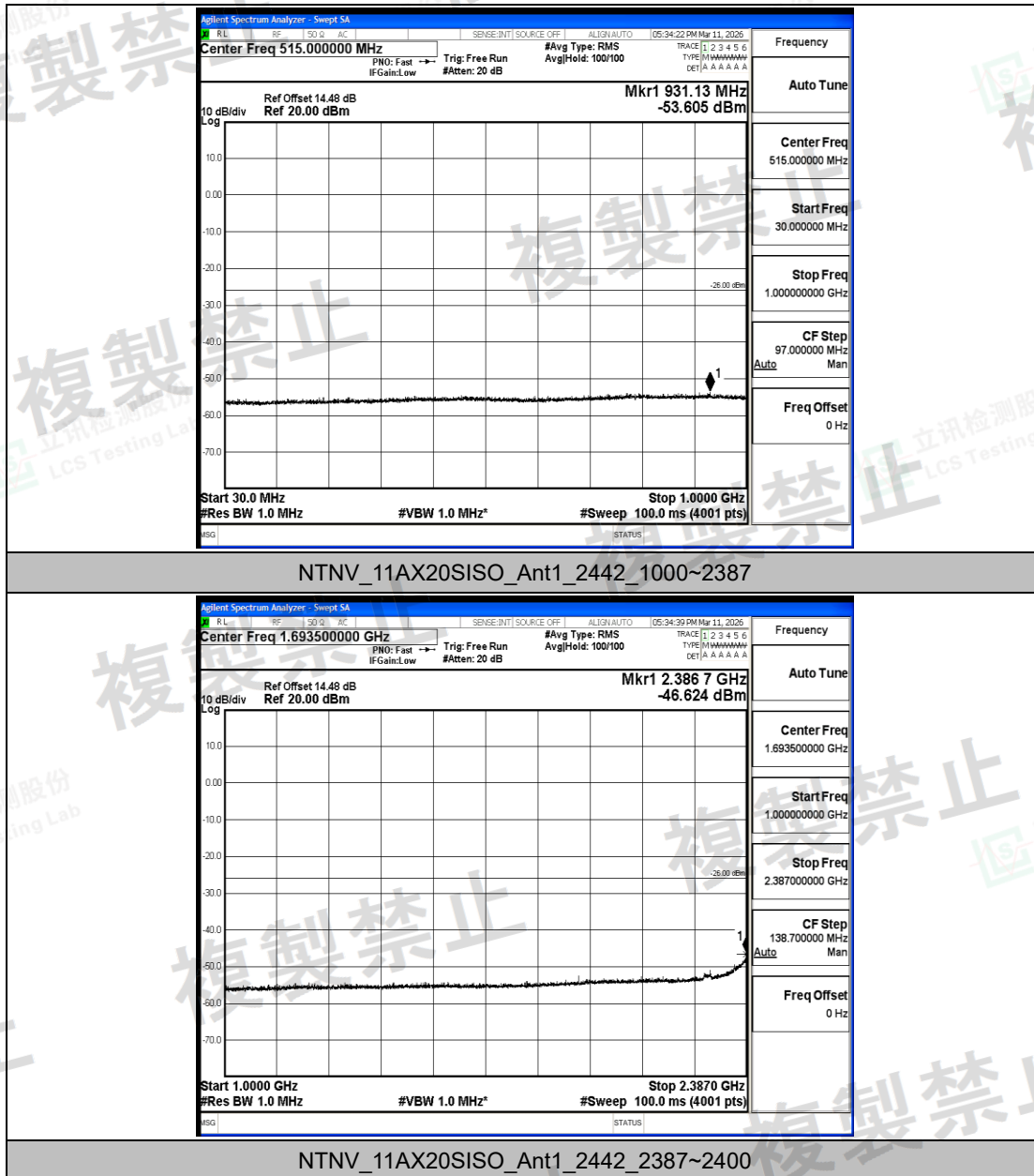
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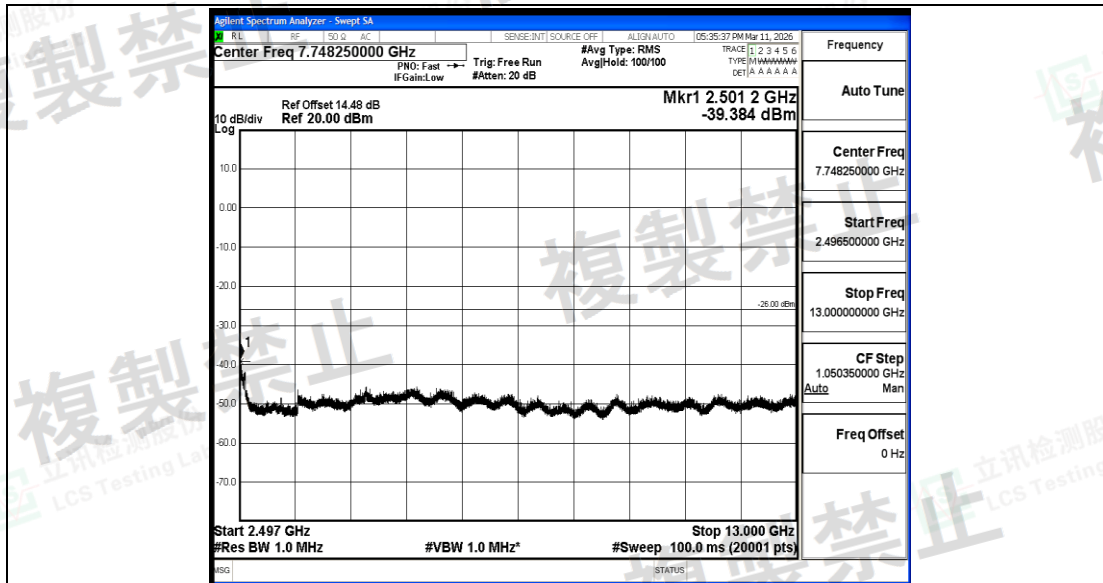




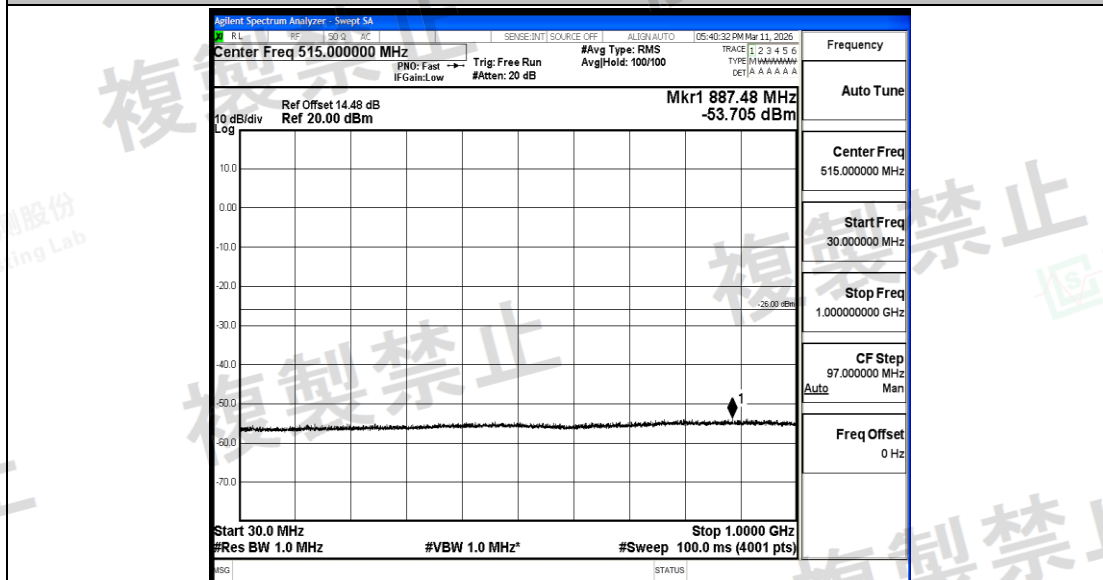
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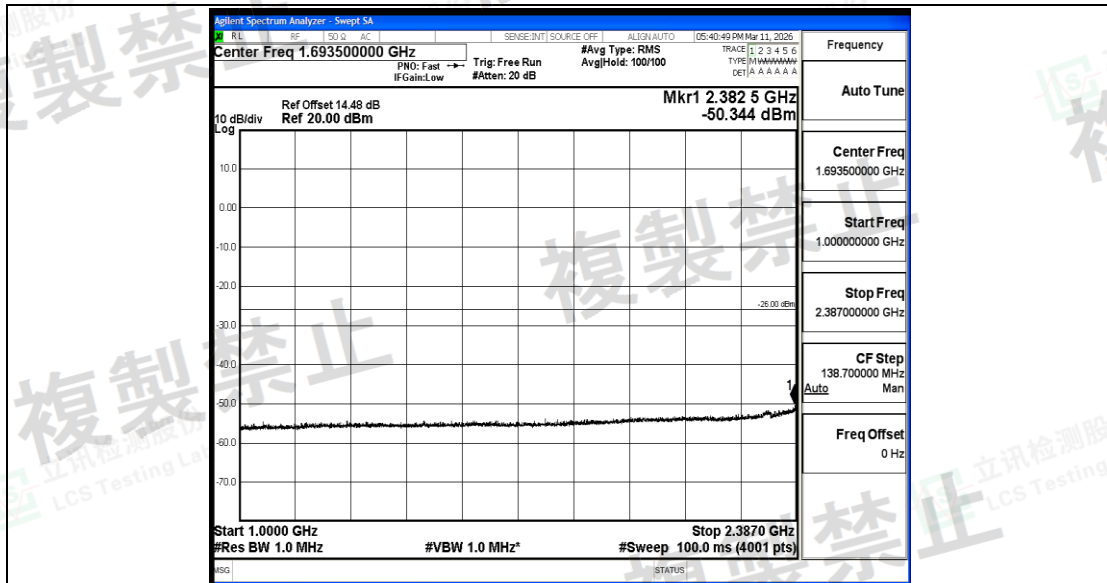
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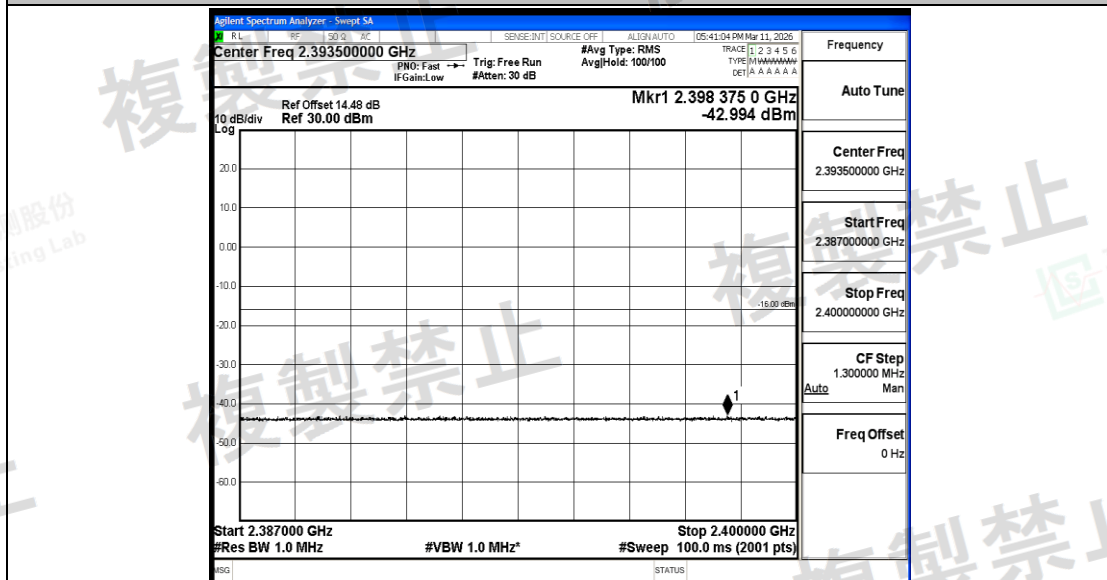
NTNV\_11AX20SISO\_Ant1\_2472\_1000~2387



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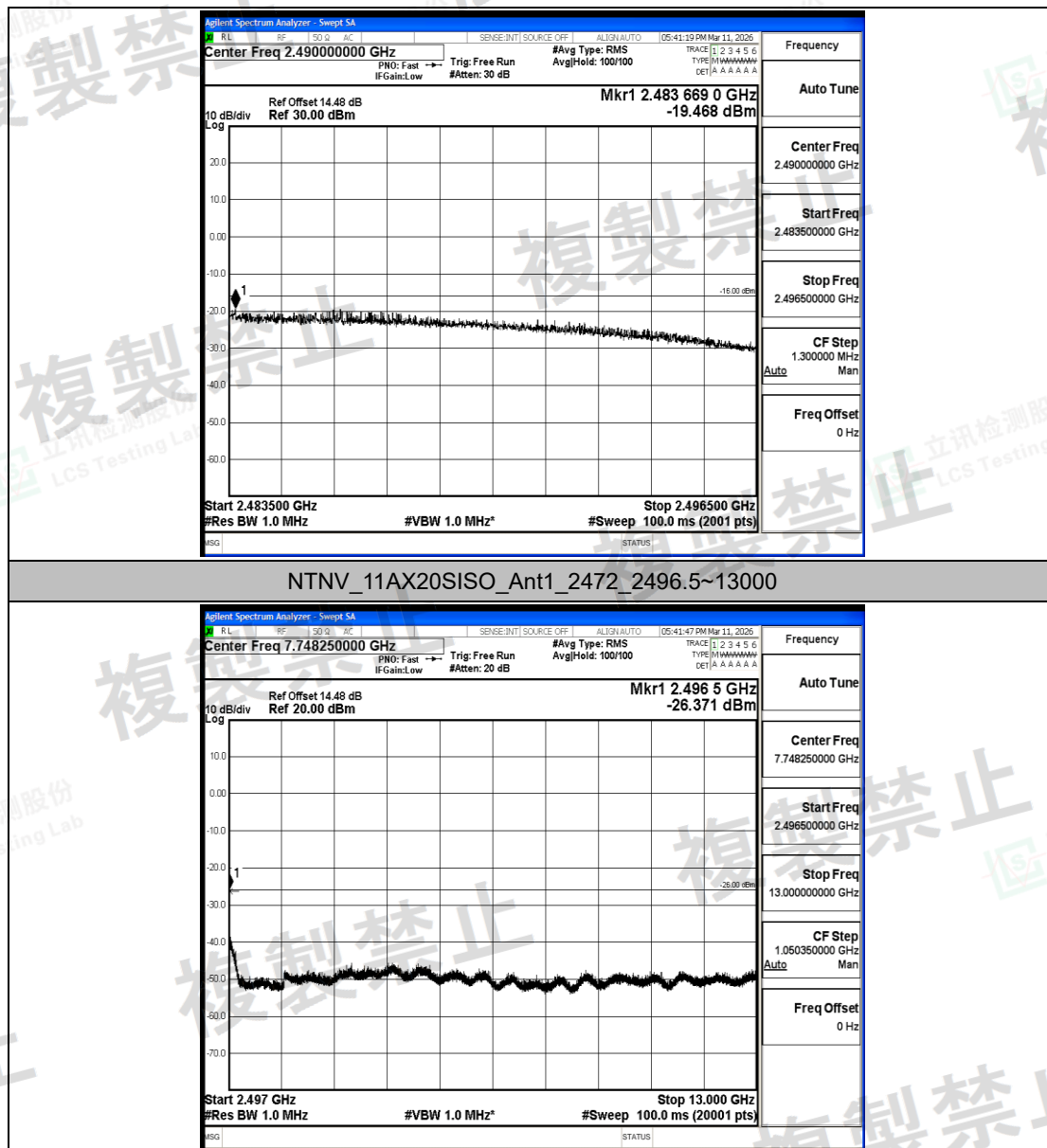
NTNV\_11AX20SISO\_Ant1\_2472\_2387~2400



NTNV\_11AX20SISO\_Ant1\_2472\_2483.5~2496.5



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## C.6 Spurious Emission of RX

### Test Result

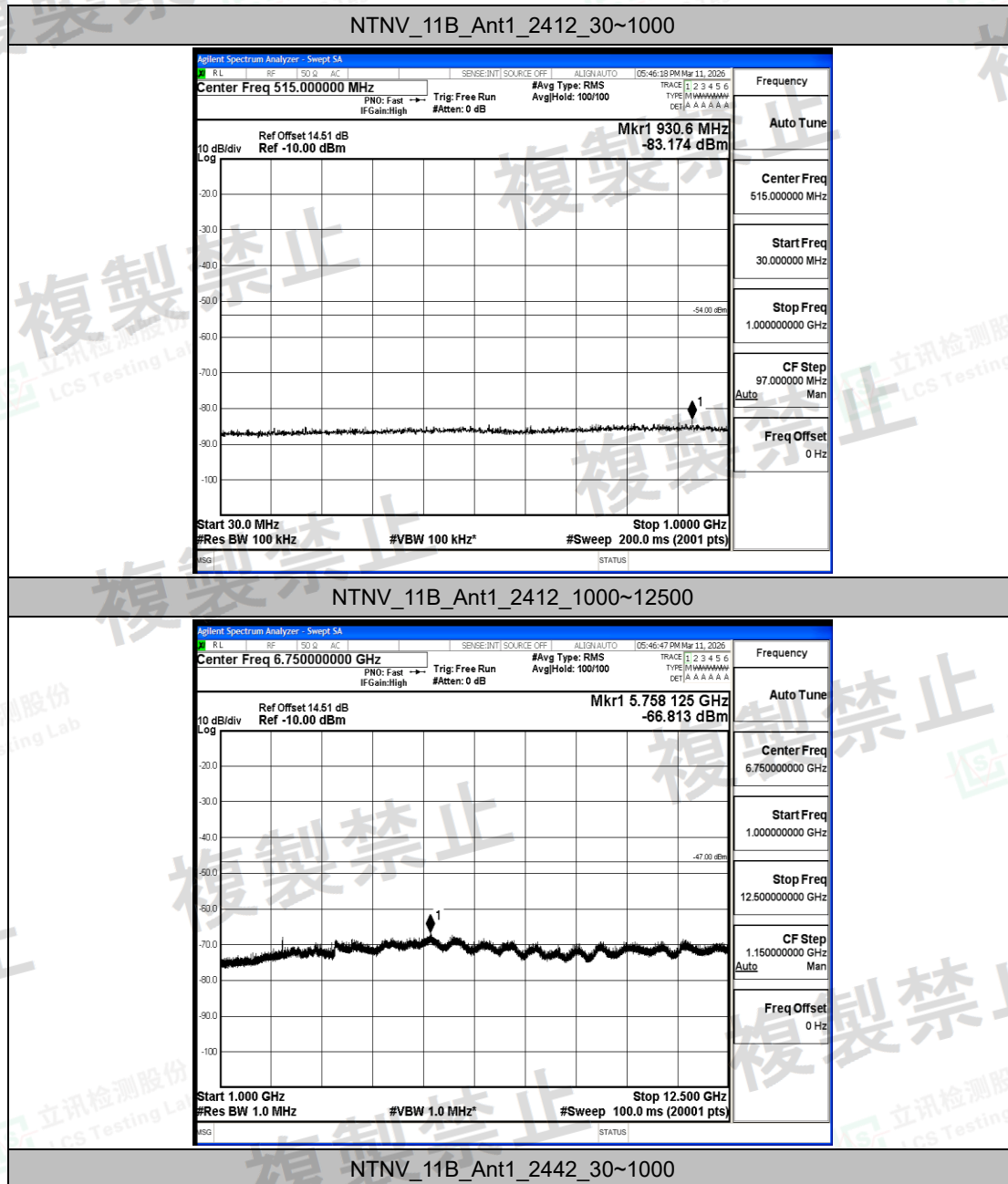
| TestCondition | TestMode   | Antenna | Frequency<br>[MHz] | Freq.Range<br>[MHz] | Result<br>[dBm] | Limit<br>[dBm] | Result<br>[nW] | Limit<br>[nW] | Verdict |
|---------------|------------|---------|--------------------|---------------------|-----------------|----------------|----------------|---------------|---------|
| NTNV          | 11B        | Ant1    | 2412               | 30~1000             | -83.17          | ≤-54           | 0.00482        | ≤4            | PASS    |
|               |            |         |                    | 1000~12500          | -66.81          | ≤-47           | 0.20845        | ≤20           | PASS    |
|               |            |         | 2442               | 30~1000             | -83.99          | ≤-54           | 0.00399        | ≤4            | PASS    |
|               |            |         |                    | 1000~12500          | -66.05          | ≤-47           | 0.24831        | ≤20           | PASS    |
|               |            |         | 2472               | 30~1000             | -84.15          | ≤-54           | 0.00385        | ≤4            | PASS    |
|               |            |         |                    | 1000~12500          | -66.66          | ≤-47           | 0.21577        | ≤20           | PASS    |
|               | 11G        | Ant1    | 2412               | 30~1000             | -84.16          | ≤-54           | 0.00384        | ≤4            | PASS    |
|               |            |         |                    | 1000~12500          | -66.07          | ≤-47           | 0.24717        | ≤20           | PASS    |
|               |            |         | 2442               | 30~1000             | -84.23          | ≤-54           | 0.00378        | ≤4            | PASS    |
|               |            |         |                    | 1000~12500          | -63.23          | ≤-47           | 0.47534        | ≤20           | PASS    |
|               |            |         | 2472               | 30~1000             | -84.21          | ≤-54           | 0.00379        | ≤4            | PASS    |
|               |            |         |                    | 1000~12500          | -67.3           | ≤-47           | 0.18621        | ≤20           | PASS    |
|               | 11N20SISO  | Ant1    | 2412               | 30~1000             | -84.17          | ≤-54           | 0.00383        | ≤4            | PASS    |
|               |            |         |                    | 1000~12500          | -66.15          | ≤-47           | 0.24266        | ≤20           | PASS    |
|               |            |         | 2442               | 30~1000             | -84.3           | ≤-54           | 0.00372        | ≤4            | PASS    |
|               |            |         |                    | 1000~12500          | -67.07          | ≤-47           | 0.19634        | ≤20           | PASS    |
|               |            |         | 2472               | 30~1000             | -83.82          | ≤-54           | 0.00415        | ≤4            | PASS    |
|               |            |         |                    | 1000~12500          | -63.71          | ≤-47           | 0.42560        | ≤20           | PASS    |
|               | 11AX20SISO | Ant1    | 2412               | 30~1000             | -84.03          | ≤-54           | 0.00395        | ≤4            | PASS    |
|               |            |         |                    | 1000~12500          | -66.75          | ≤-47           | 0.21135        | ≤20           | PASS    |
|               |            |         | 2442               | 30~1000             | -62.76          | ≤-54           | 0.52966        | ≤4            | PASS    |
|               |            |         |                    | 1000~12500          | -67.25          | ≤-47           | 0.18836        | ≤20           | PASS    |
|               |            |         | 2472               | 30~1000             | -73.66          | ≤-54           | 0.04305        | ≤4            | PASS    |
|               |            |         |                    | 1000~12500          | -65.89          | ≤-47           | 0.25763        | ≤20           | PASS    |



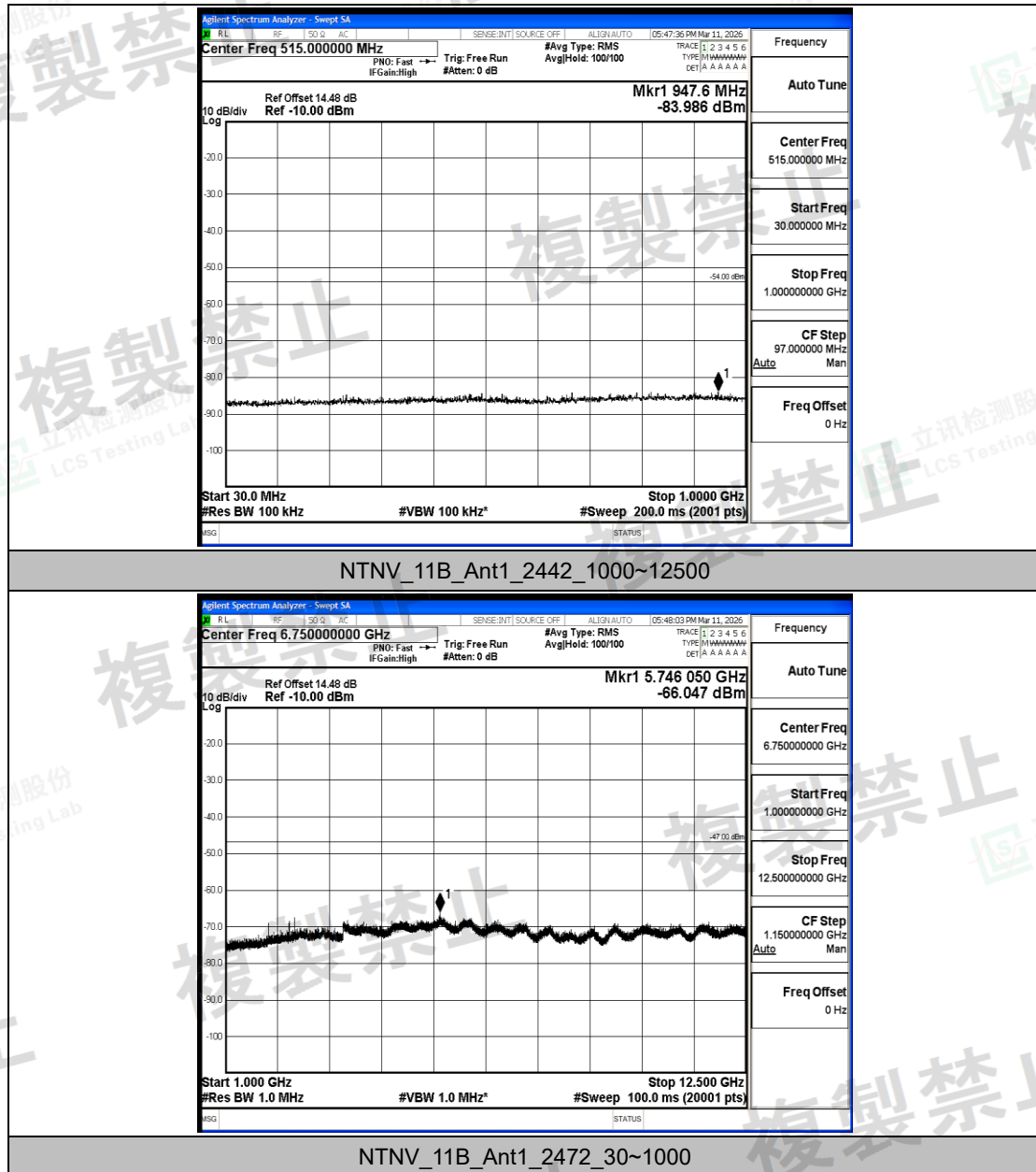
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Subdistrict, Bao'an District, Shenzhen, Guangdong, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
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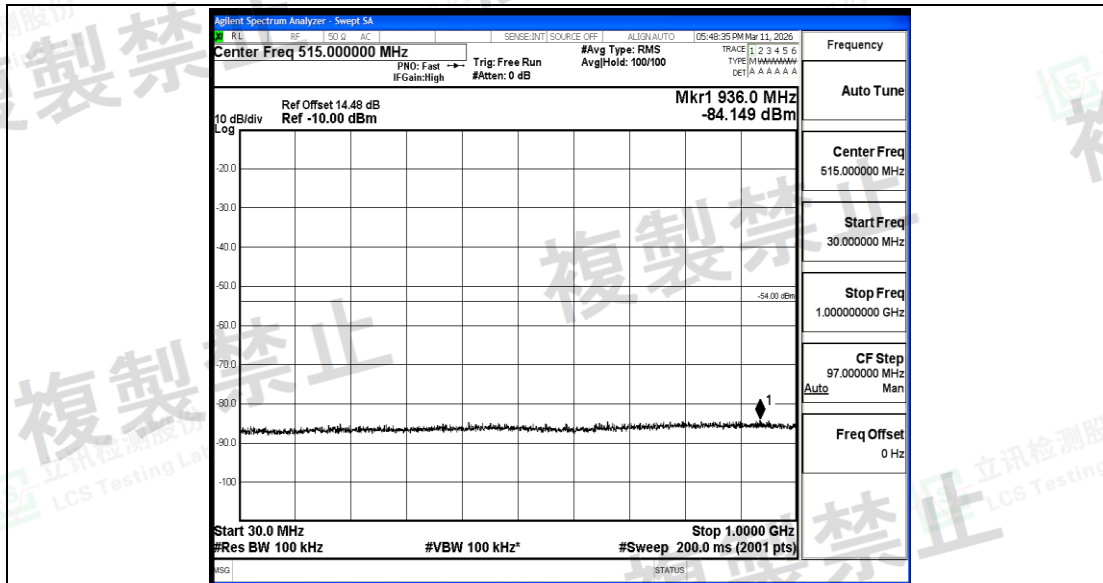


## Test Graphs

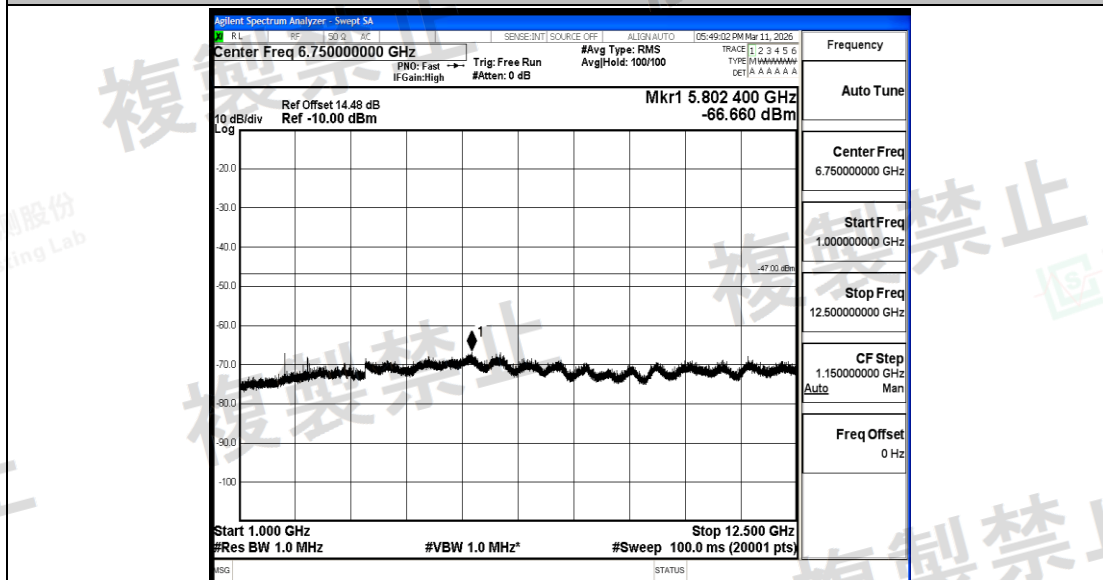


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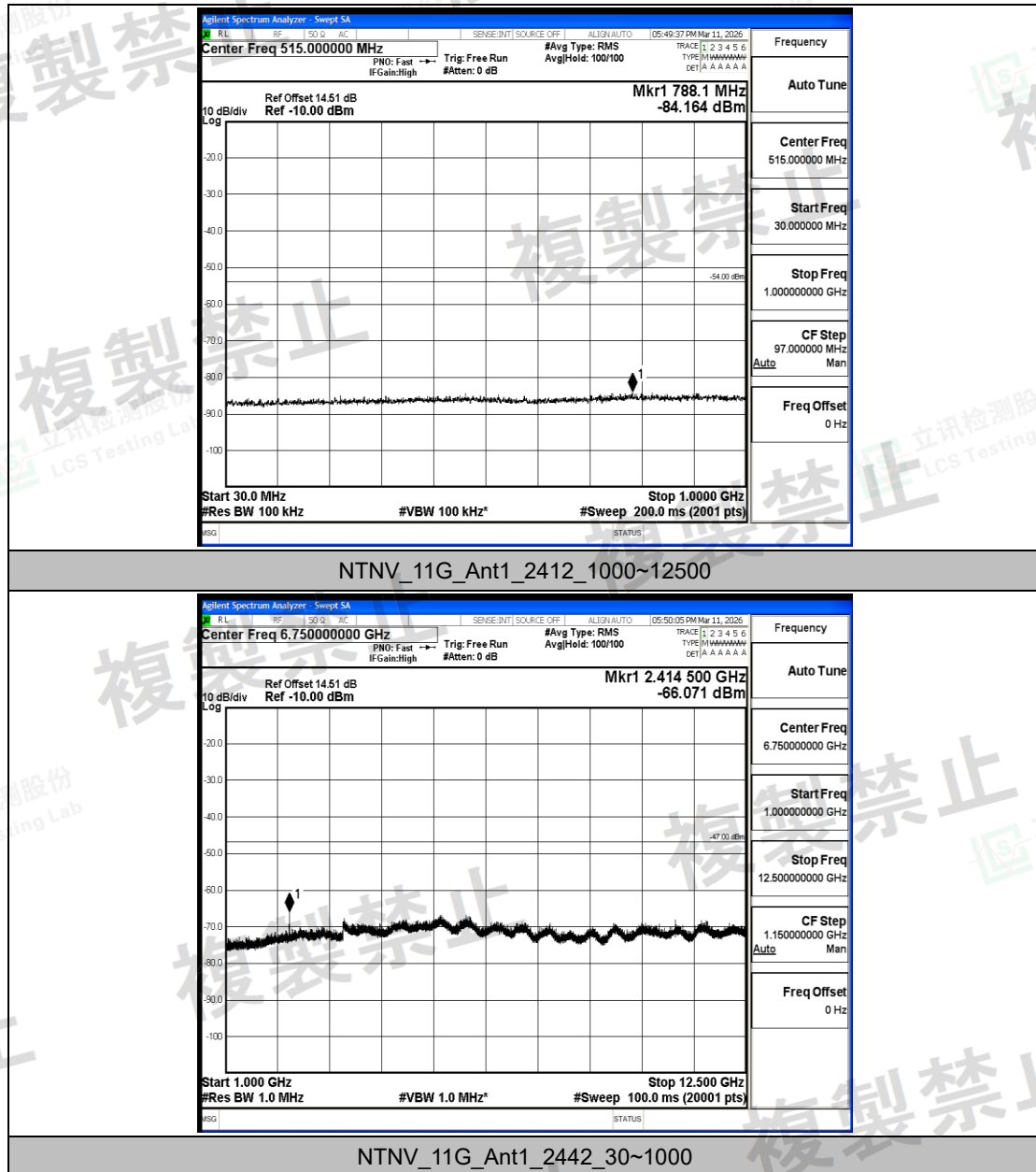
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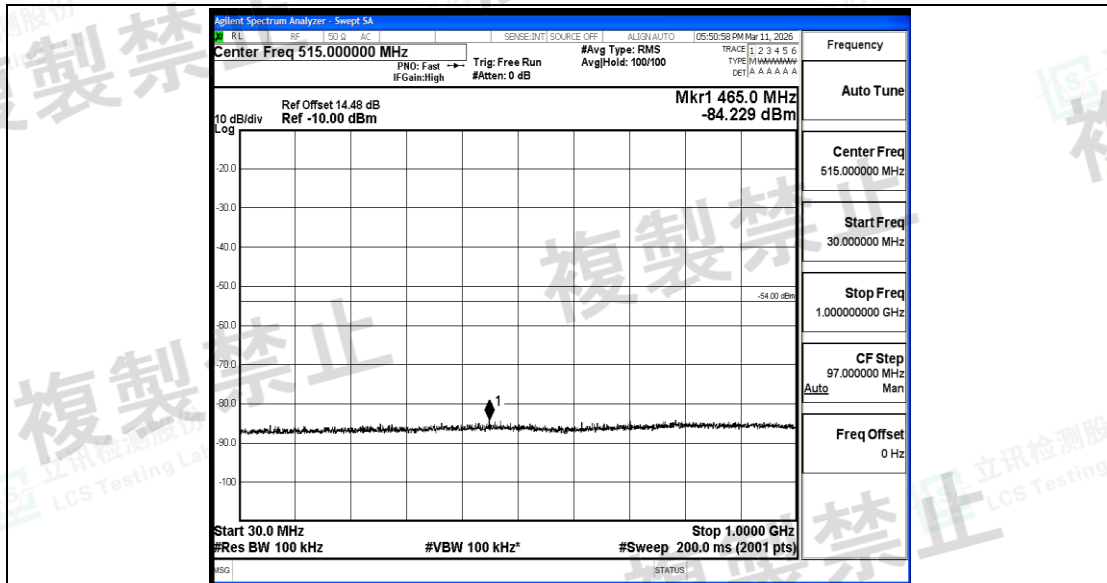
NTNV\_11G\_Ant1\_2412\_30~1000



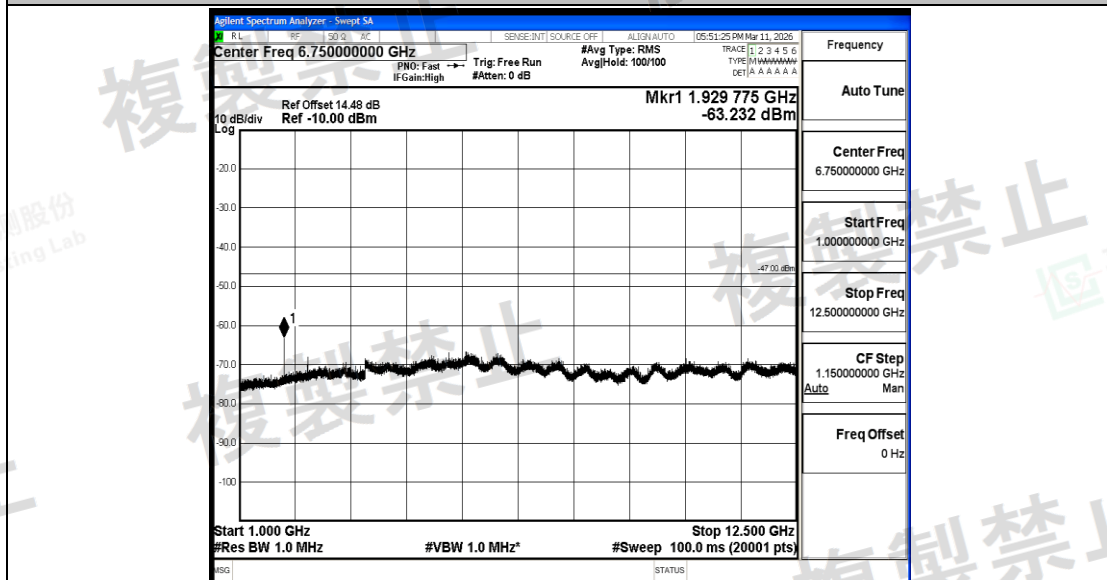
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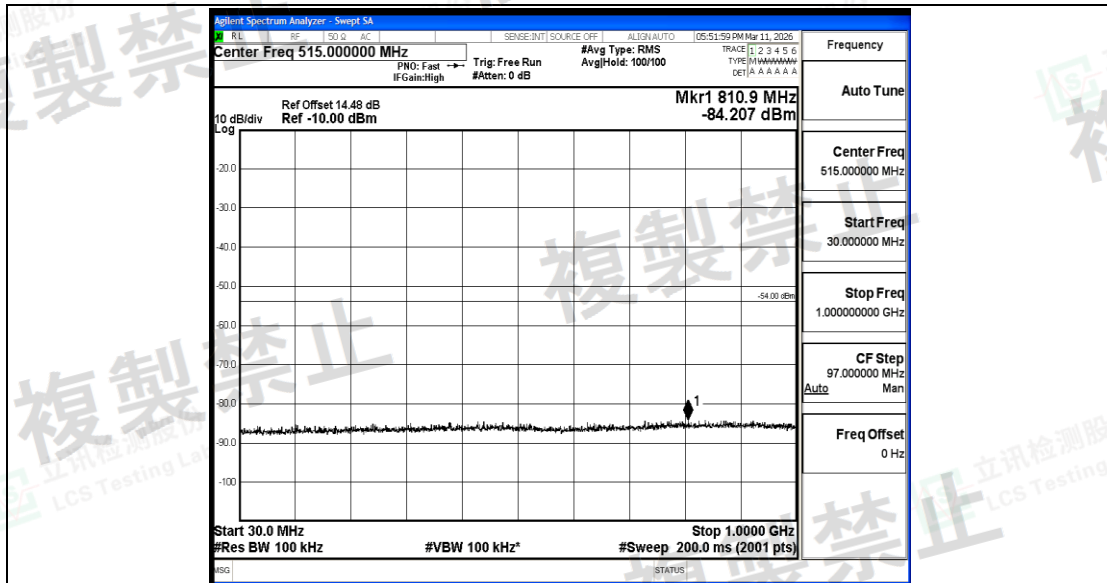


NTNV\_11G\_Ant1\_2442\_1000~12500

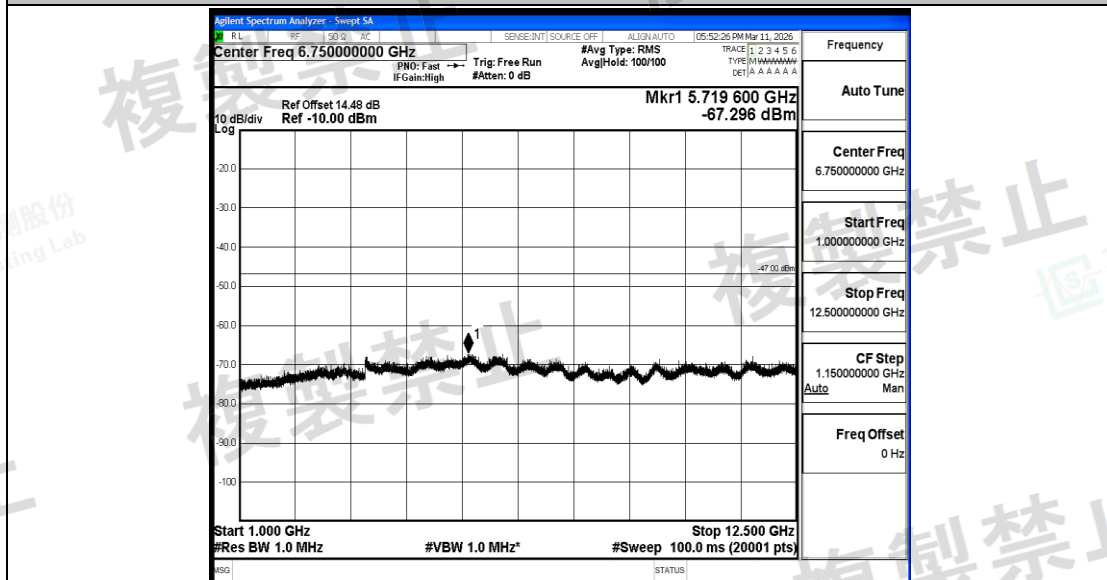


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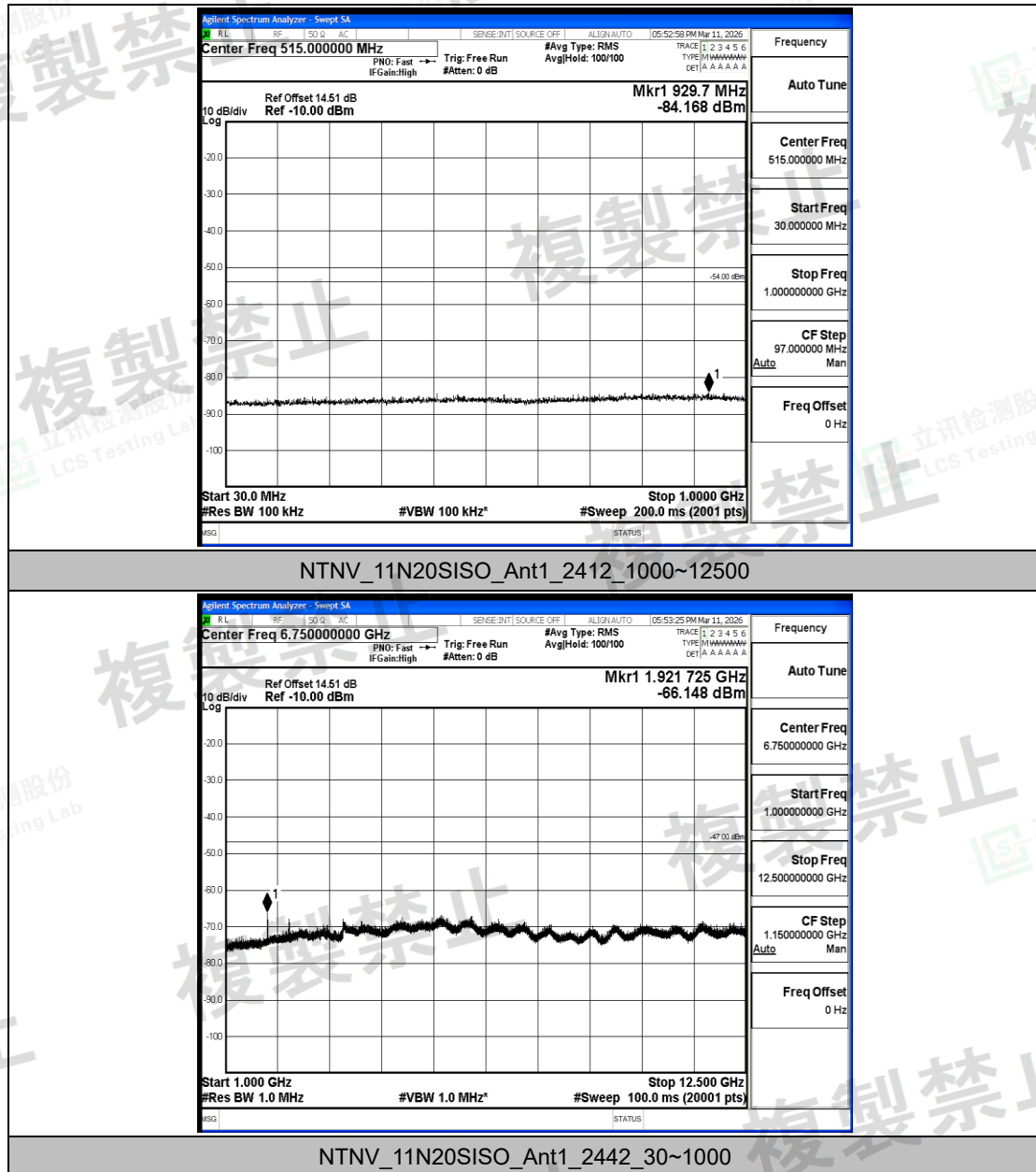
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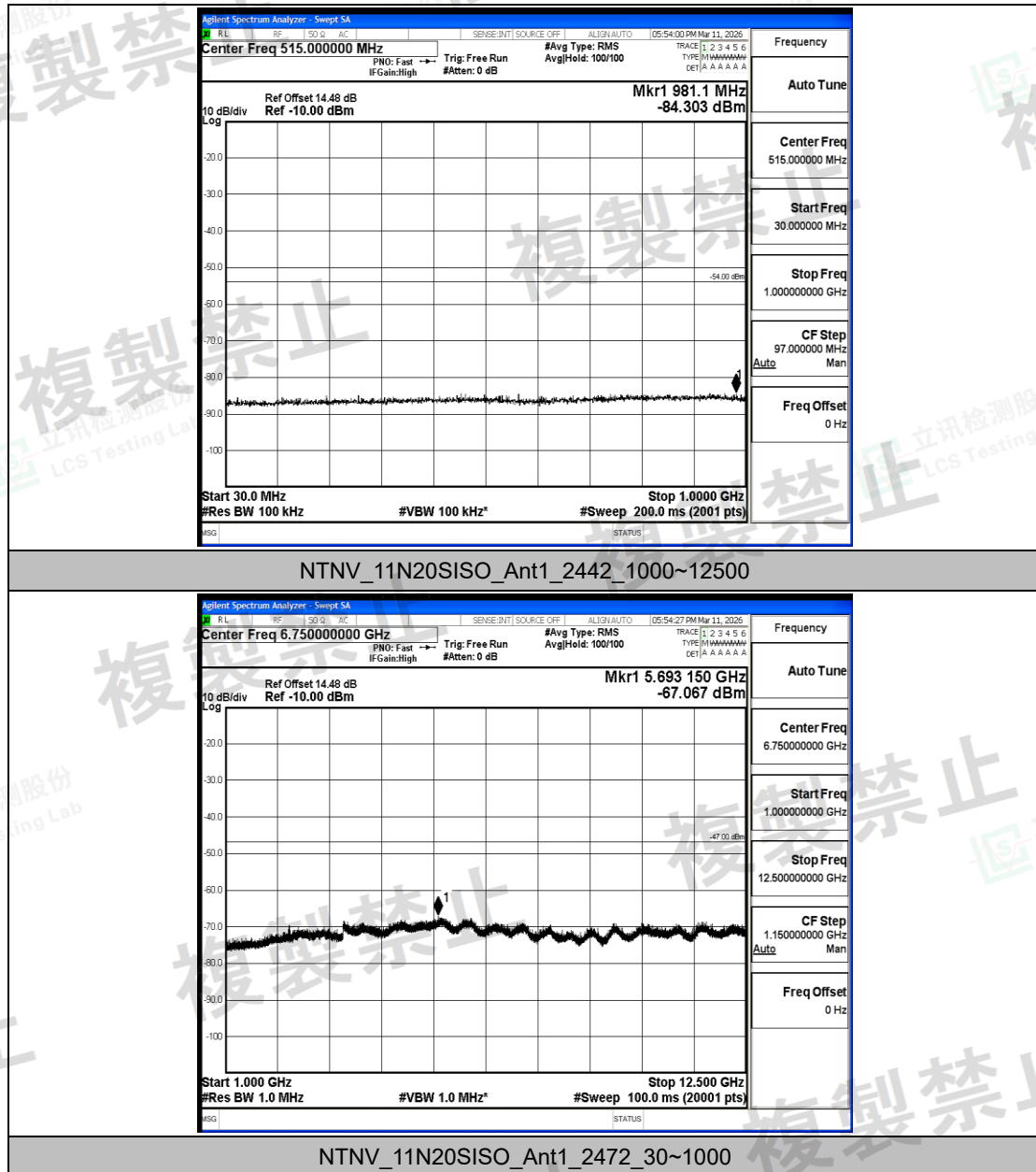
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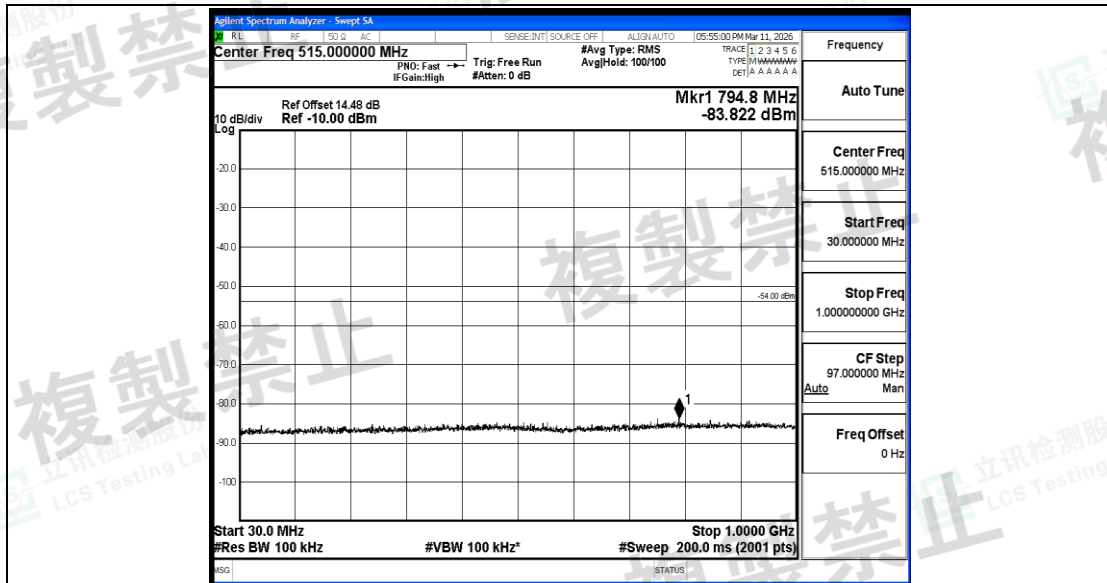


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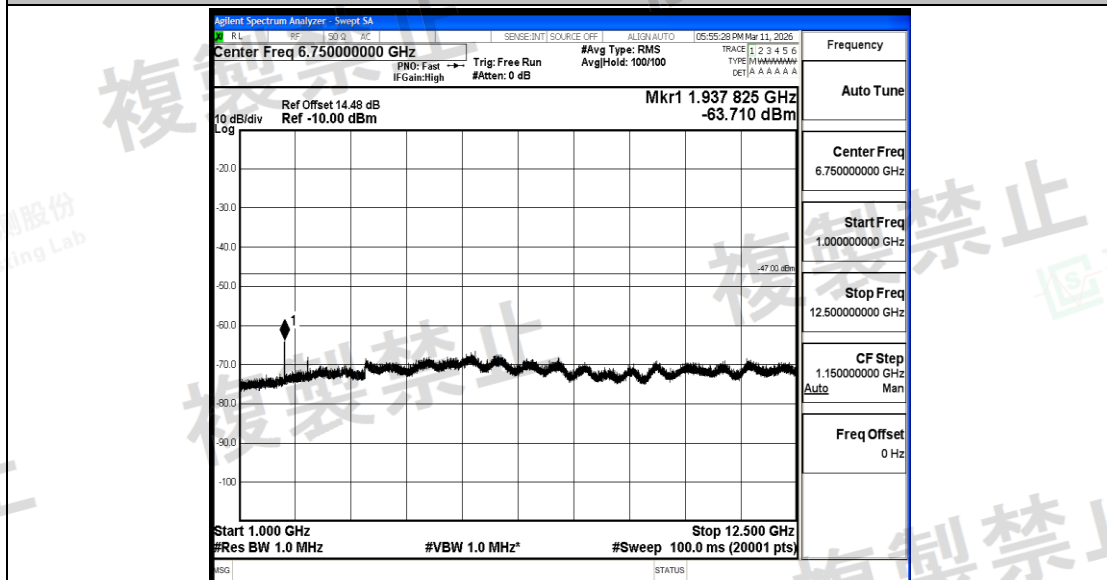


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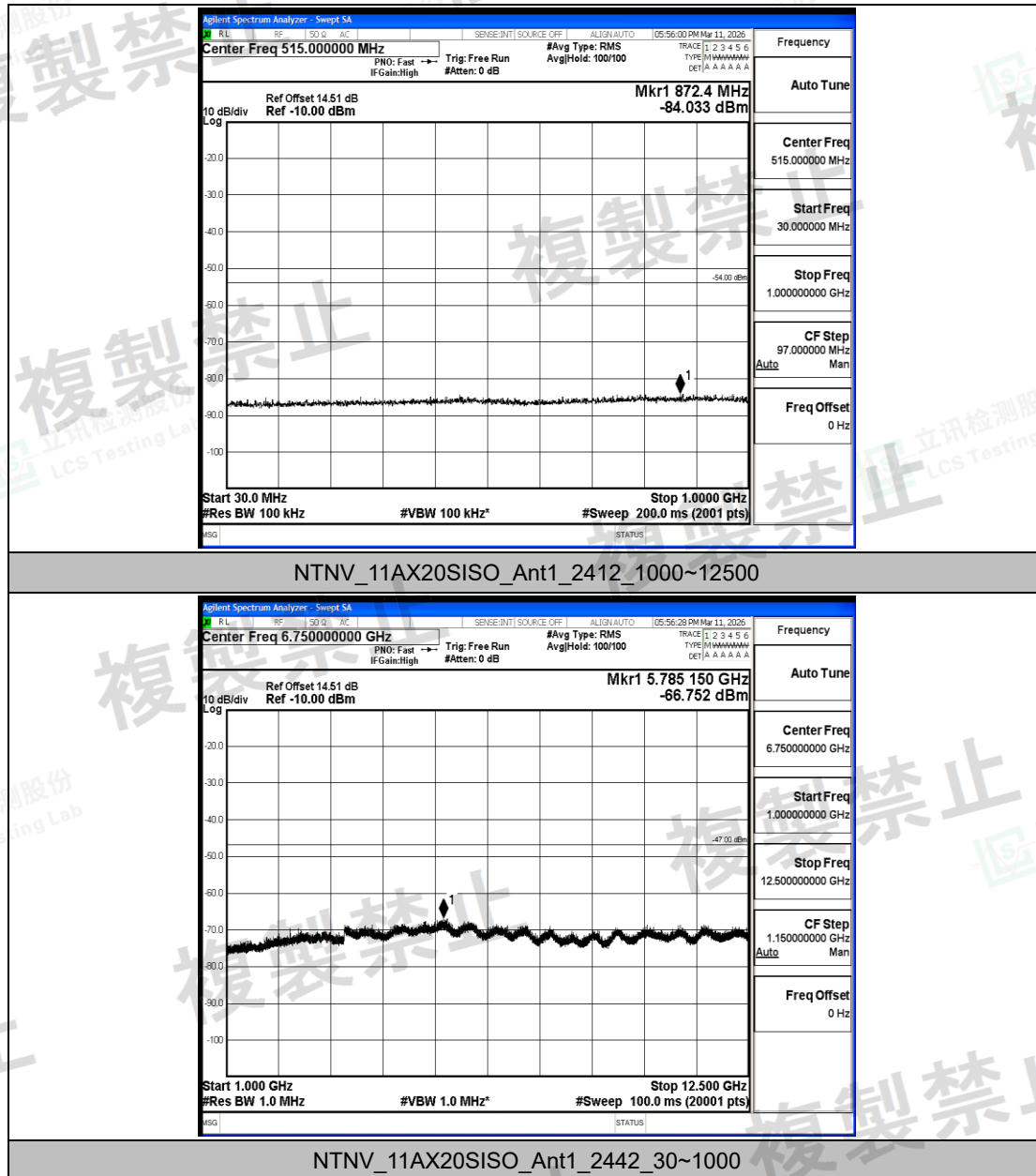
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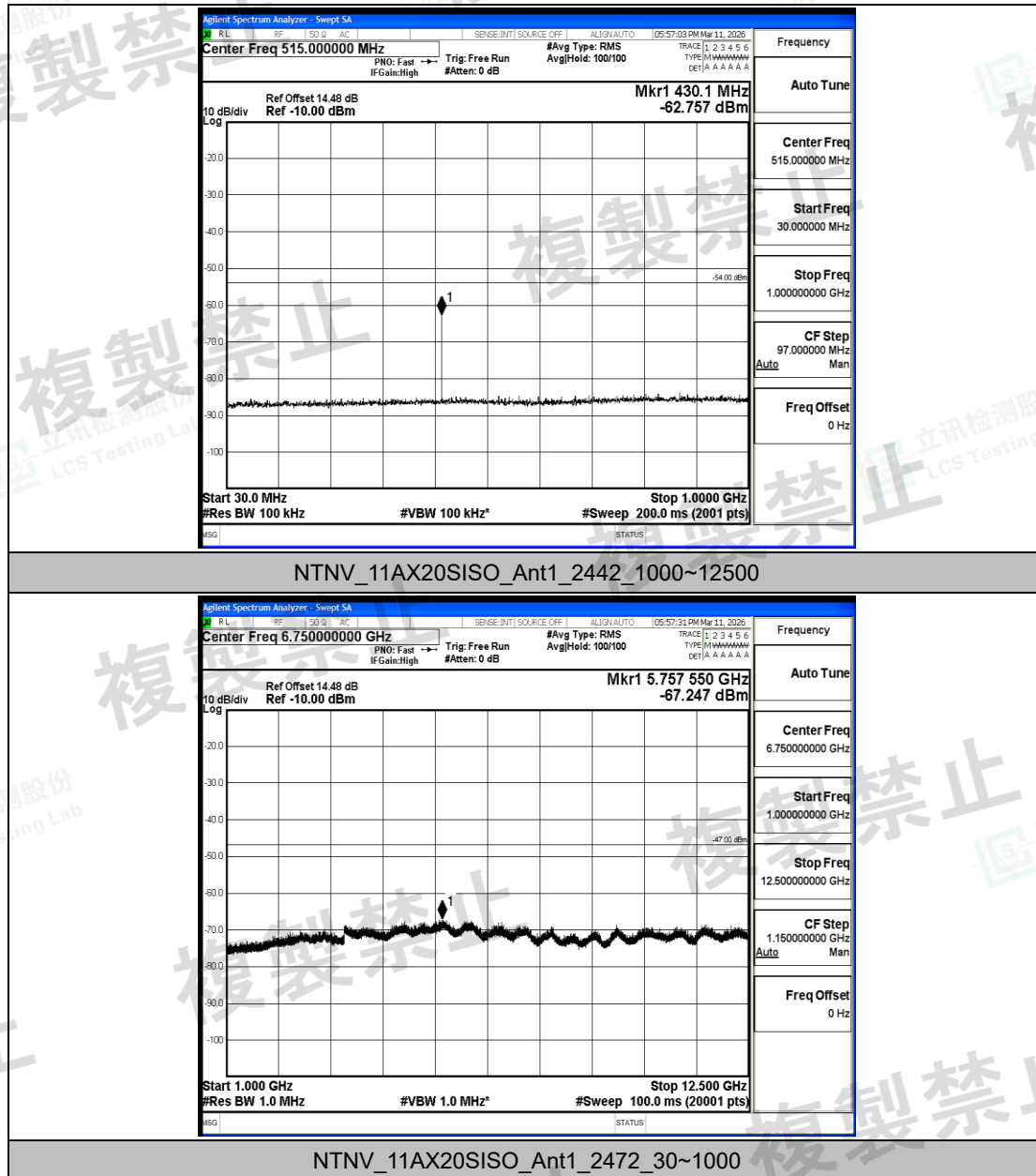
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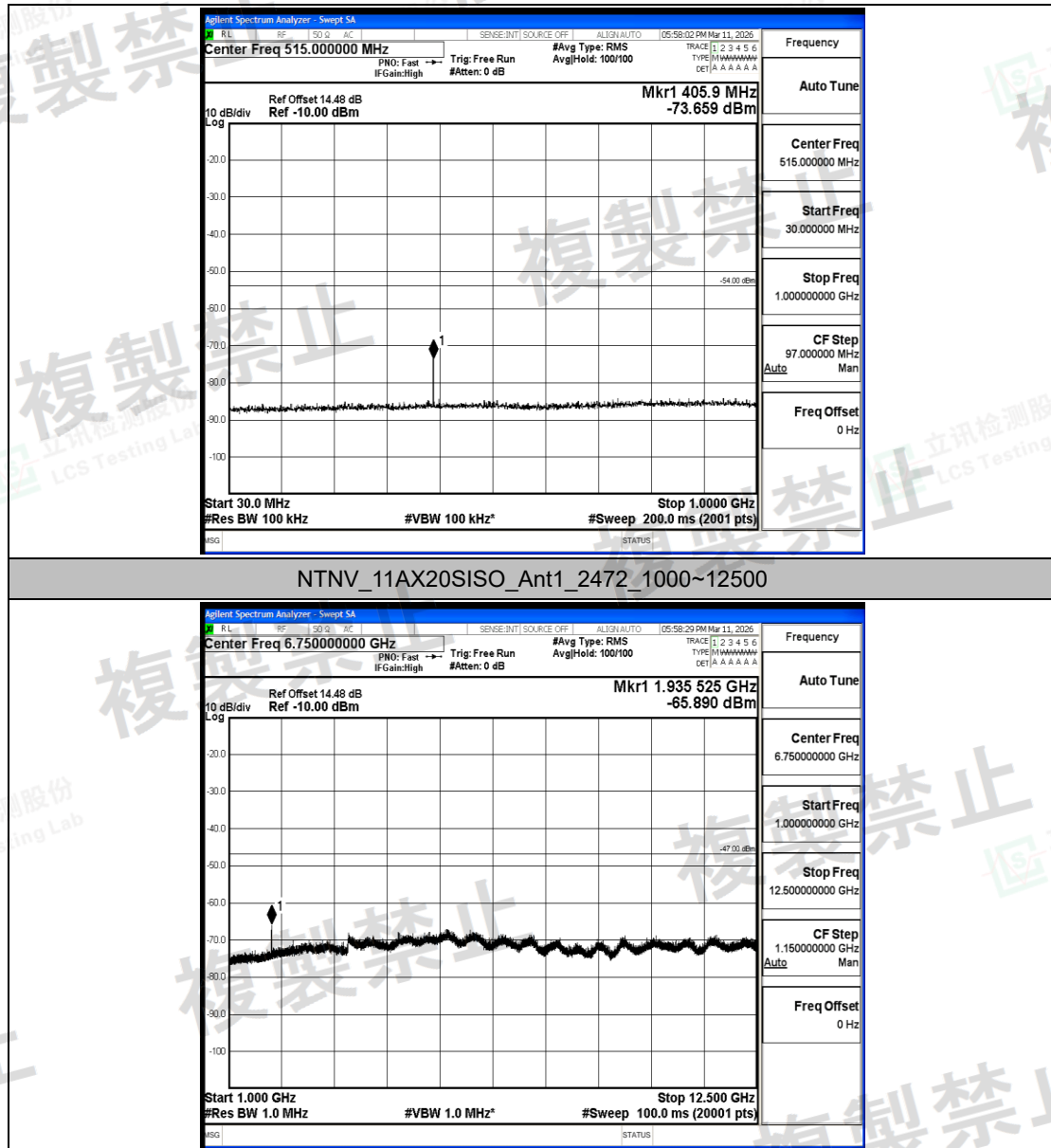
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