

Appendix Test Data

|                  |                  |                    |             |
|------------------|------------------|--------------------|-------------|
| Report No.:      | 1812C50100512502 | Test Sample No.:   | 1-2-2       |
| Start Test Date: | 2025.03.20       | Finish Test Date:  | 2025.03.26  |
| Test Engineer:   | Aless Peng       | Auditor:           | Justin Feng |
| Temperature:     | 24.5°C           | Relative Humidity: | 44%         |
| Pressure:        | 101kPa           |                    |             |

Appendix A: Frequency Error

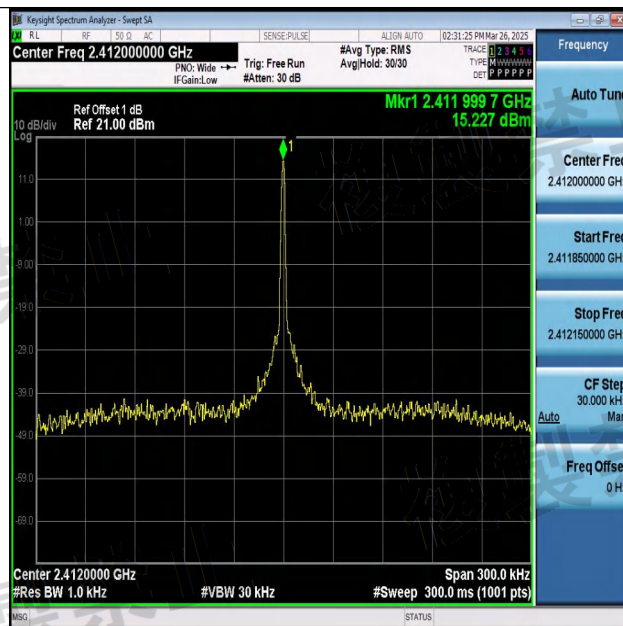
Test Result

| Test Condition | Test Mode | Antenna | Frequency [MHz] | Center Freq. [MHz] | Result [ppm] | Limit [ppm] | Verdict |
|----------------|-----------|---------|-----------------|--------------------|--------------|-------------|---------|
| NTNV           | CW        | Ant1    | 2412            | 2411.9997          | -0.12438     | ±50         | PASS    |
| NTNV           | CW        | Ant1    | 2442            | 2441.9997          | -0.12285     | ±50         | PASS    |
| NTNV           | CW        | Ant1    | 2472            | 2471.9997          | -0.12136     | ±50         | PASS    |

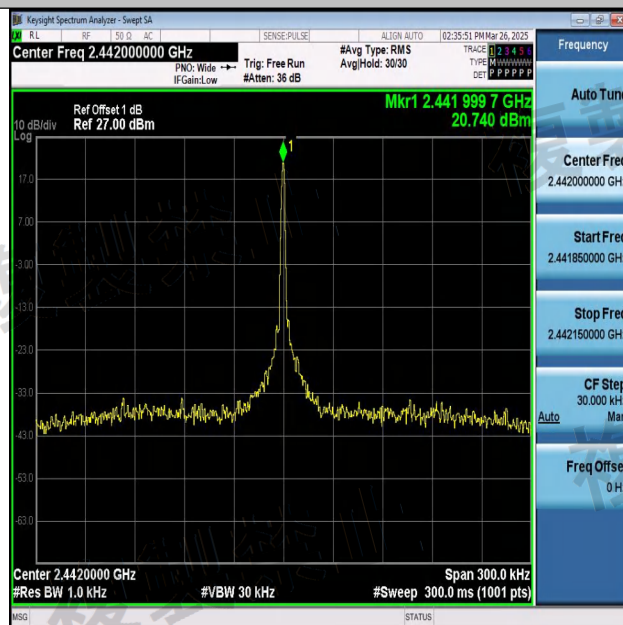
Note: Result[ppm]= (Center Freq[MHz] -Freq.[MHz])/Freq.[MHz]\*1000000



## Test Graphs

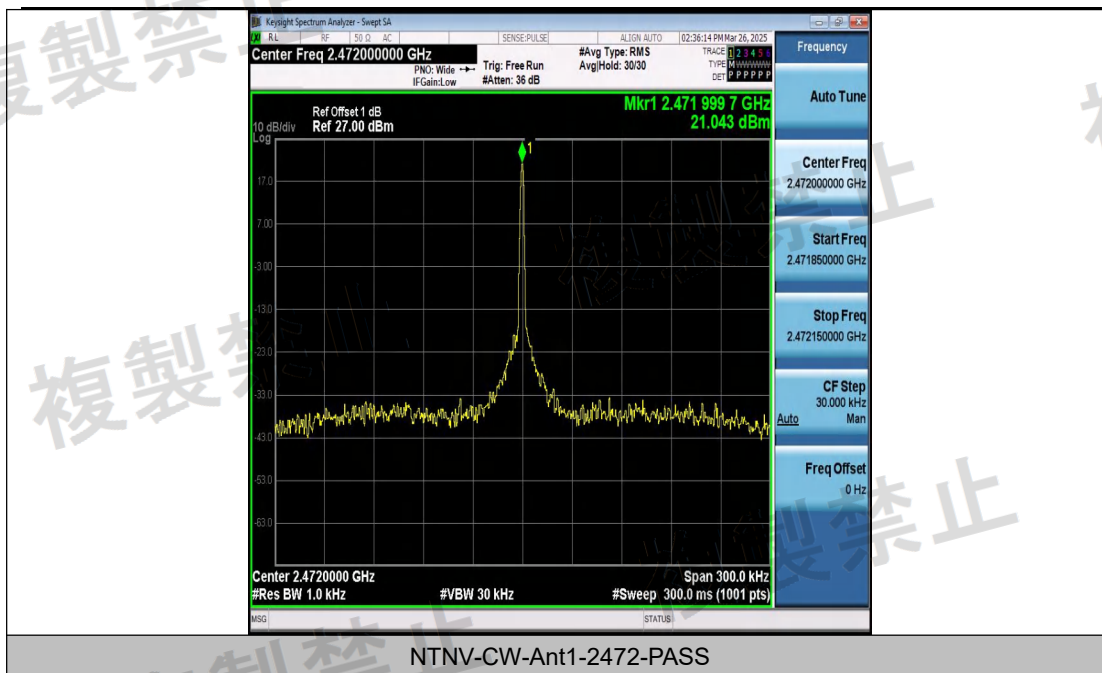


NTNV-CW-Ant1-2412-PASS



NTNV-CW-Ant1-2442-PASS





## Appendix B: Antenna Power

### Test Result

| Test Condition | Test Mode | Antenna | Frequency [MHz] | Result [dBm/MHz] | Result [mW/MHz] | Limit [mW/MHz] | Verdict |
|----------------|-----------|---------|-----------------|------------------|-----------------|----------------|---------|
| NTNV           | 11B       | Ant1    | 2412            | 4.79             | 3.0130          | ≤10            | PASS    |
| NTNV           | 11B       | Ant1    | 2442            | 4.12             | 2.5823          | ≤10            | PASS    |
| NTNV           | 11B       | Ant1    | 2472            | 3.57             | 2.2751          | ≤10            | PASS    |
| NTNV           | 11G       | Ant1    | 2412            | 4.74             | 2.9785          | ≤10            | PASS    |
| NTNV           | 11G       | Ant1    | 2442            | 5.03             | 3.1842          | ≤10            | PASS    |
| NTNV           | 11G       | Ant1    | 2472            | 5.36             | 3.4356          | ≤10            | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2412            | 4.82             | 3.0339          | ≤10            | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2442            | 3.22             | 2.0989          | ≤10            | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2472            | 4.19             | 2.6242          | ≤10            | PASS    |

Note: Result(mW/MHz)=  $10^{(\text{Test Result(dBm)}/10)}$

| Test Condition | Test Mode | Antenna | Frequency [MHz] | Power [mW/MHz] | Rated Power [mW/MHz] | Result [%] | Limit [%] | Verdict |
|----------------|-----------|---------|-----------------|----------------|----------------------|------------|-----------|---------|
| NTNV           | 11B       | Ant1    | 2412            | 3.0130         | 10                   | -69.87     | +20       | PASS    |
| NTNV           | 11B       | Ant1    | 2442            | 2.5823         | 10                   | -74.18     | +20       | PASS    |
| NTNV           | 11B       | Ant1    | 2472            | 2.2751         | 10                   | -77.25     | +20       | PASS    |
| NTNV           | 11G       | Ant1    | 2412            | 2.9785         | 10                   | -70.22     | +20       | PASS    |
| NTNV           | 11G       | Ant1    | 2442            | 3.1842         | 10                   | -68.16     | +20       | PASS    |
| NTNV           | 11G       | Ant1    | 2472            | 3.4356         | 10                   | -65.64     | +20       | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2412            | 3.0339         | 10                   | -69.66     | +20       | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2442            | 2.0989         | 10                   | -79.01     | +20       | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2472            | 2.6242         | 10                   | -73.76     | +20       | PASS    |

| Test Condition | Test Mode | Antenna | Frequency [MHz] | Result [dBm/MHz] | EIRP [dBm/MHz] | Limit [dBm/MHz] | Verdict |
|----------------|-----------|---------|-----------------|------------------|----------------|-----------------|---------|
| NTNV           | 11B       | Ant1    | 2412            | 4.79             | 6.00           | ≤12.14          | PASS    |
| NTNV           | 11B       | Ant1    | 2442            | 4.12             | 5.33           | ≤12.14          | PASS    |
| NTNV           | 11B       | Ant1    | 2472            | 3.57             | 4.78           | ≤12.14          | PASS    |
| NTNV           | 11G       | Ant1    | 2412            | 4.74             | 5.95           | ≤12.14          | PASS    |
| NTNV           | 11G       | Ant1    | 2442            | 5.03             | 6.24           | ≤12.14          | PASS    |
| NTNV           | 11G       | Ant1    | 2472            | 5.36             | 6.57           | ≤12.14          | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2412            | 4.82             | 6.03           | ≤12.14          | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2442            | 3.22             | 4.43           | ≤12.14          | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2472            | 4.19             | 5.40           | ≤12.14          | PASS    |

Note: Result(dBm/MHz)=10log(Power (mW/MHz))

EIRP((dBm/MHz))=Result(dBm/MHz)+Gain(dBi)

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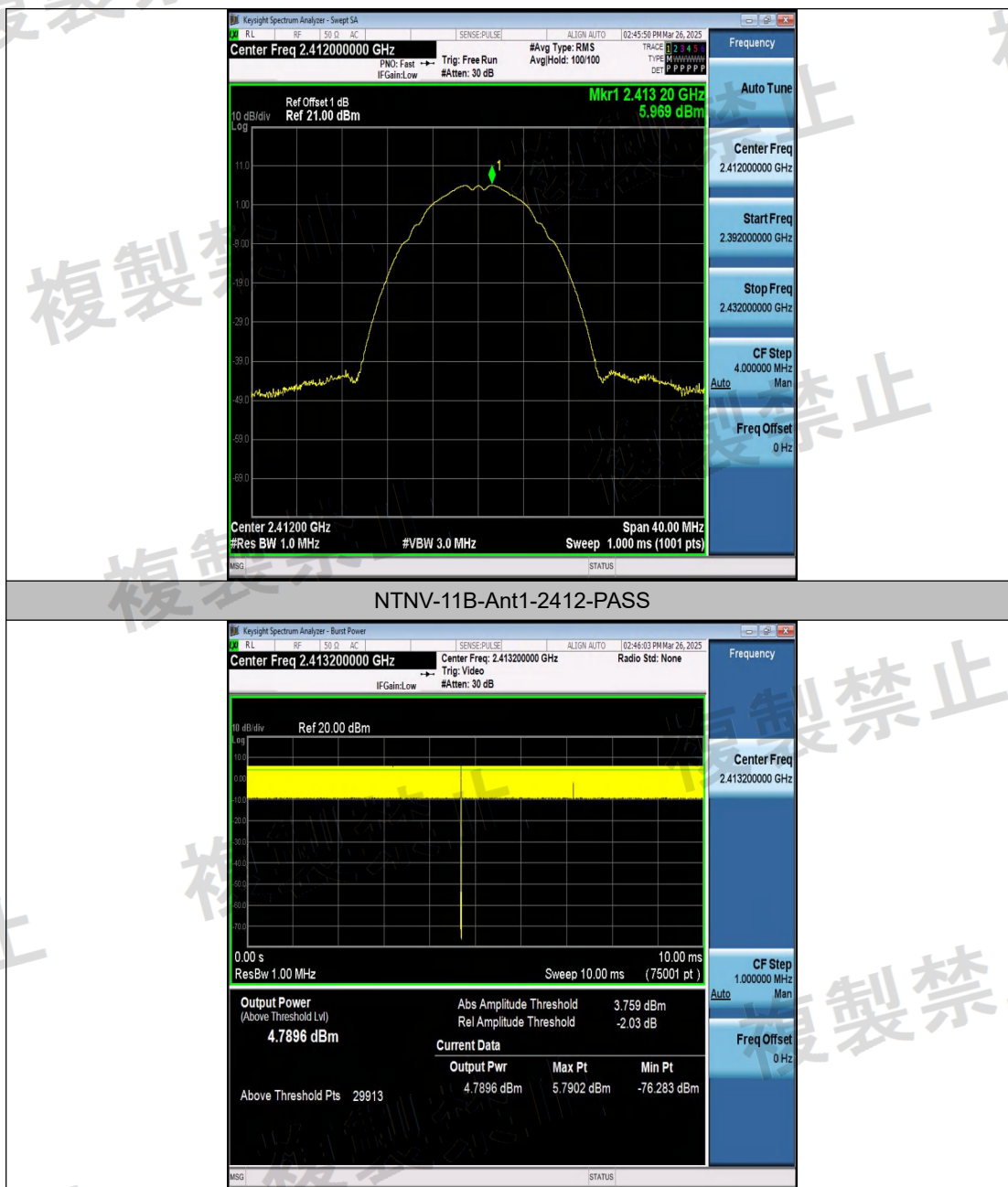
Hotline

400-003-0500

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## Test Graphs



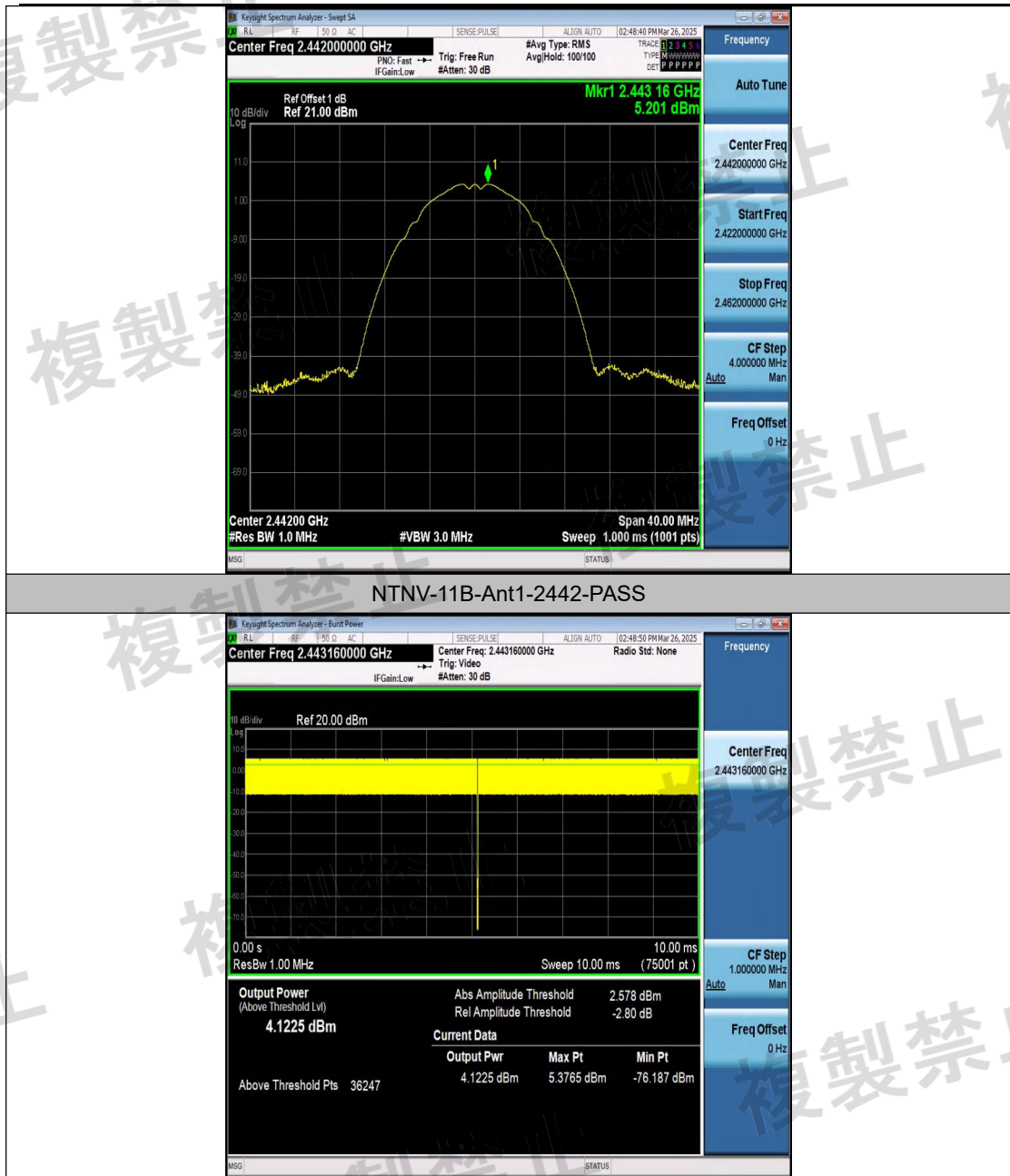
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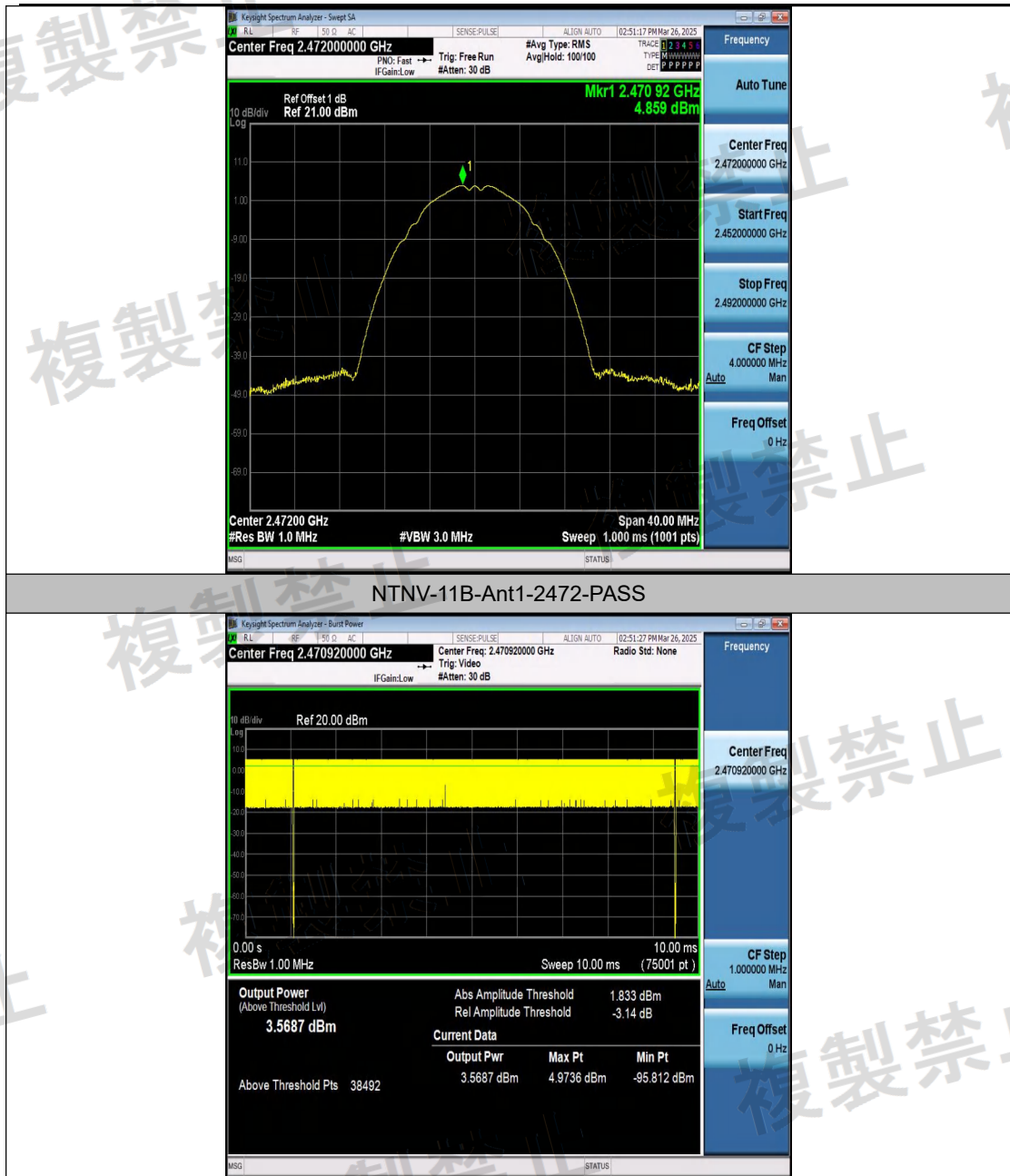
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,  
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China  
Tel: (86) 0755-26066440 Email: service@anbotek.com

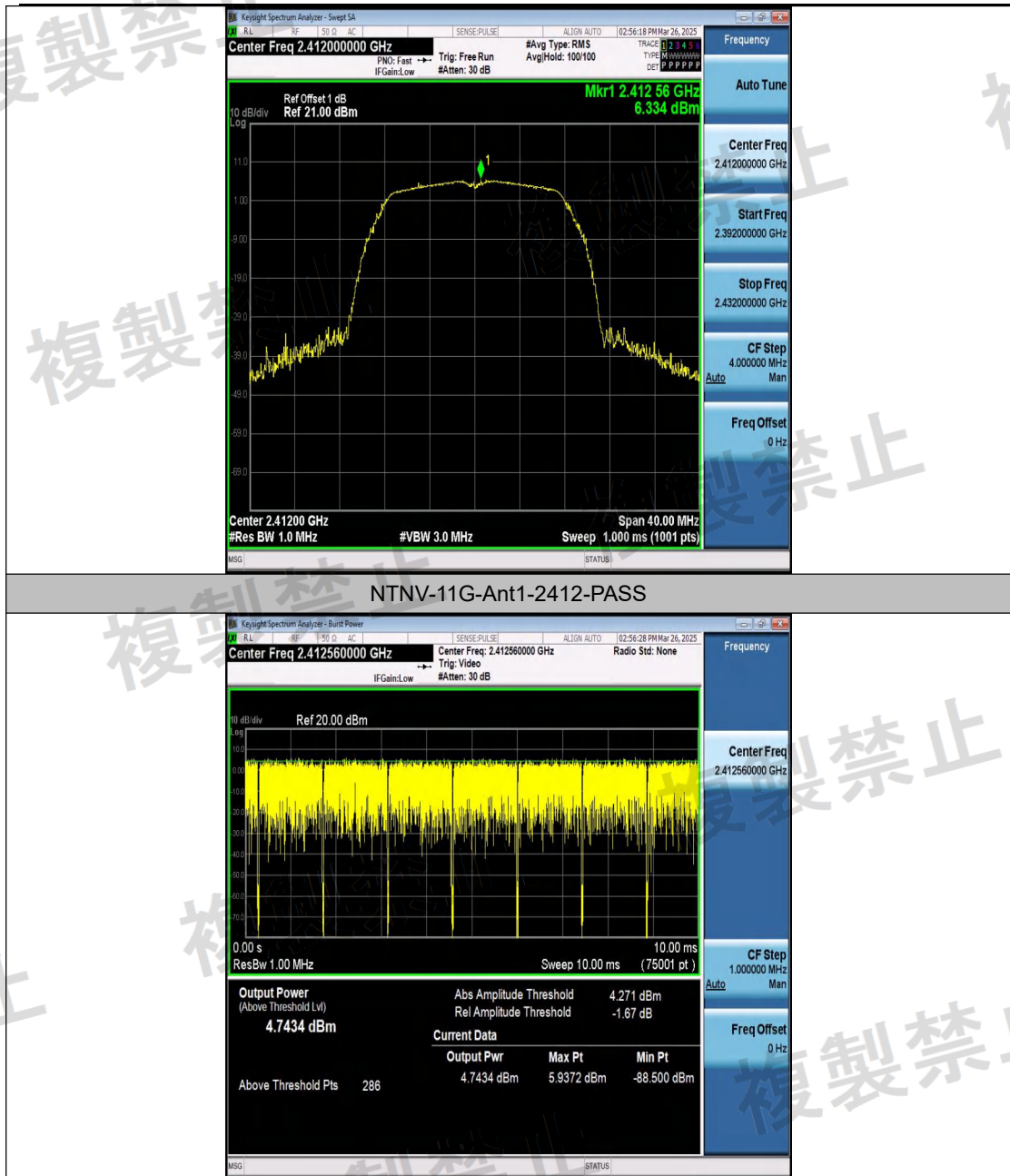


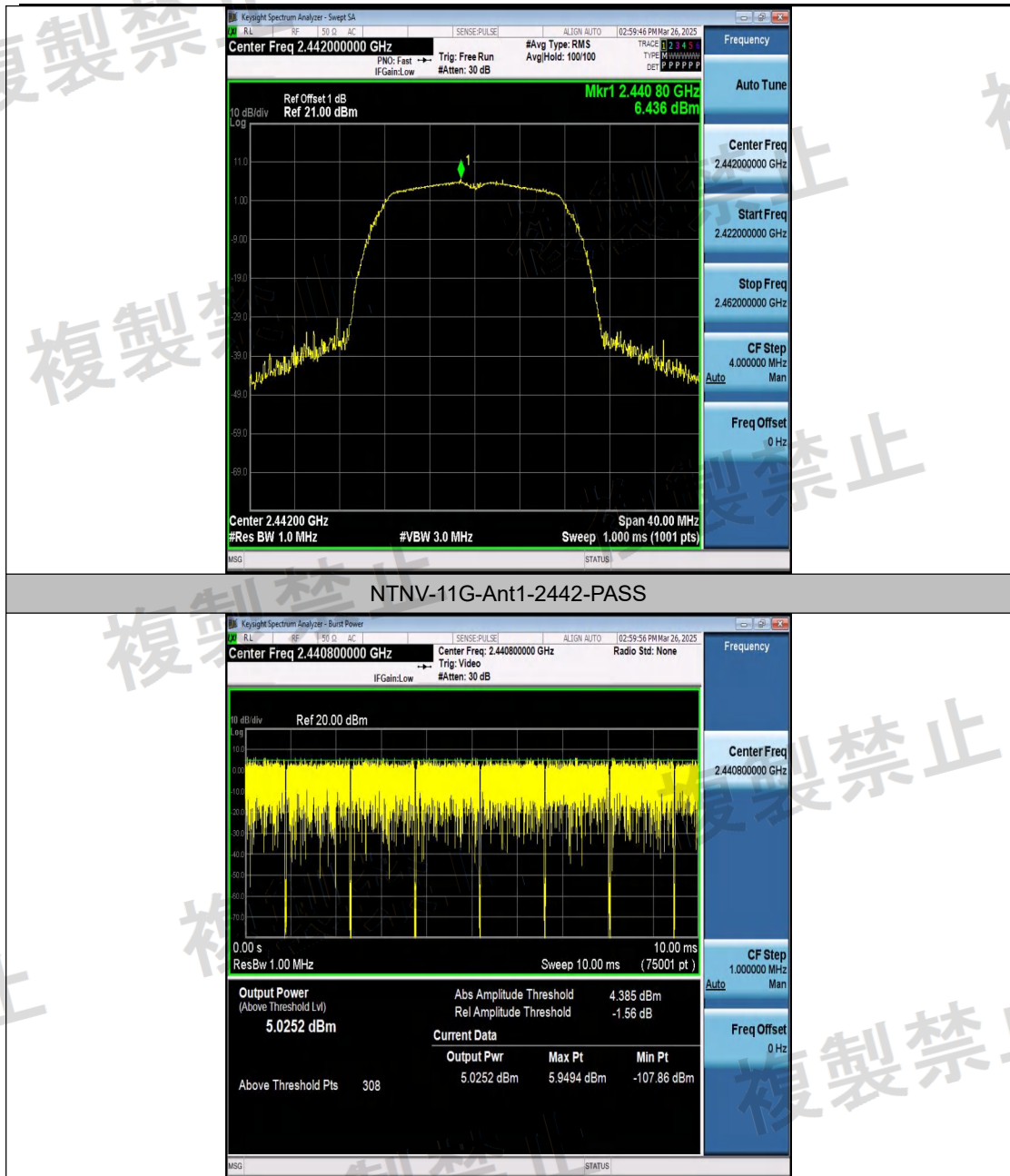
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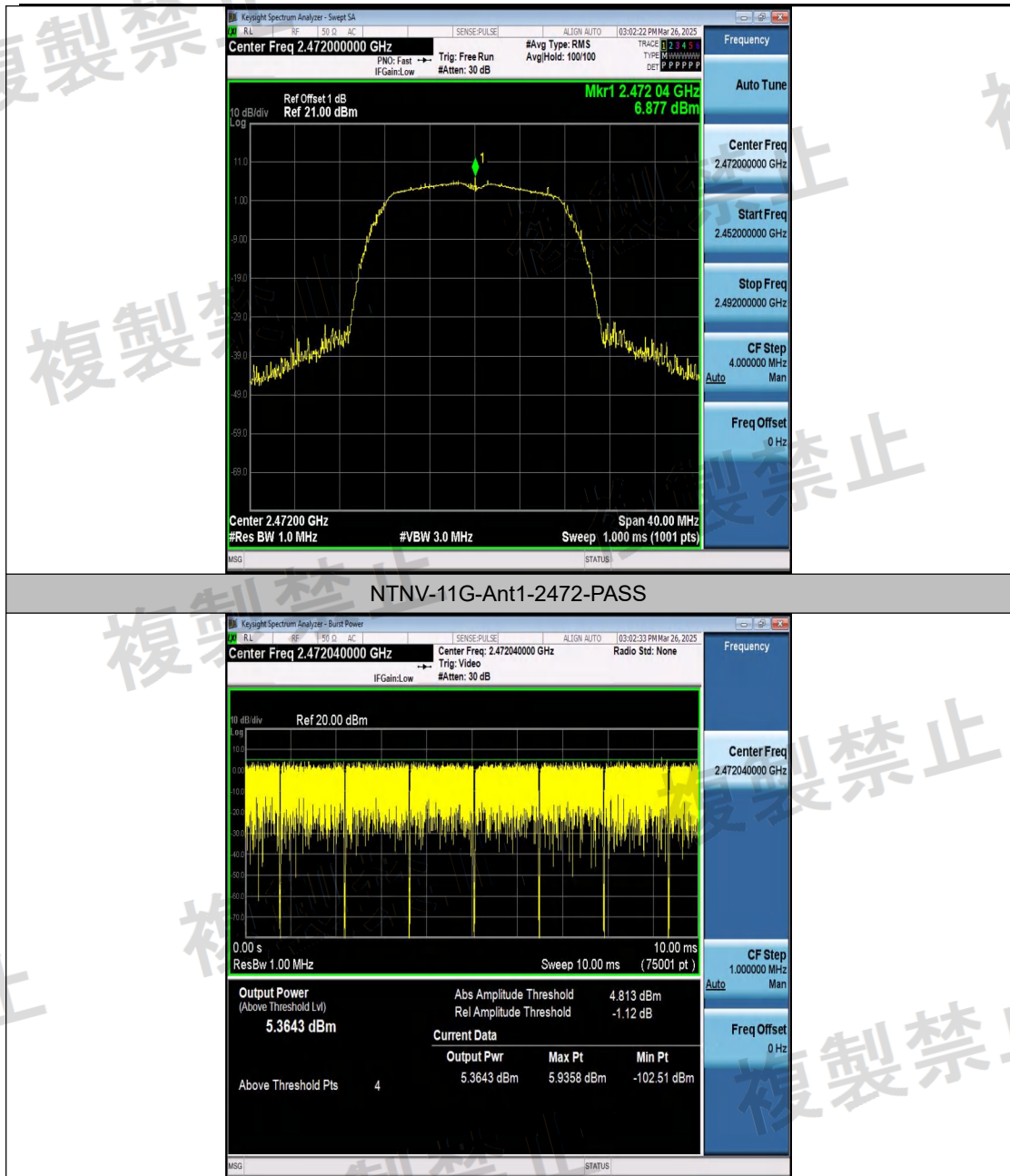


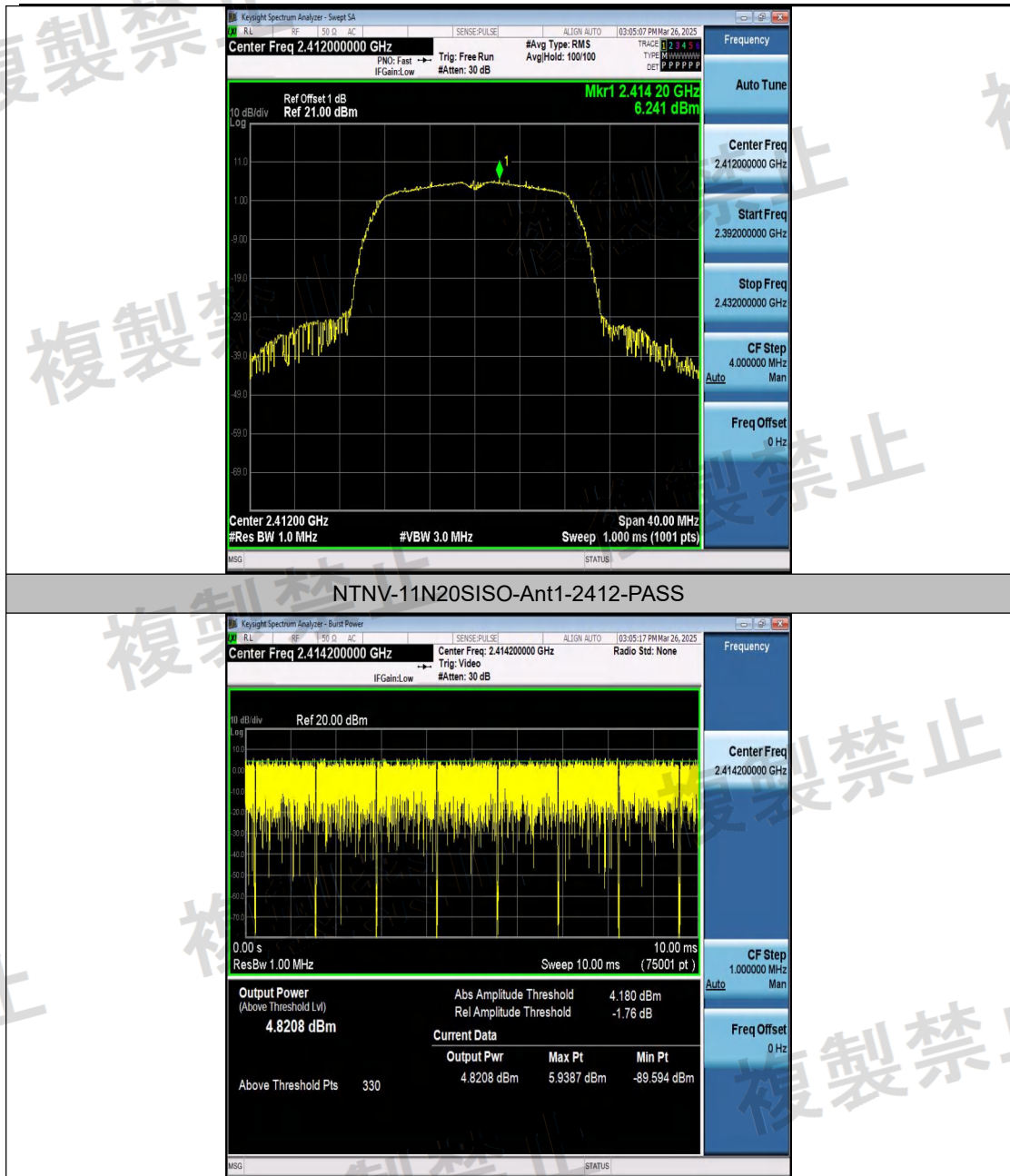


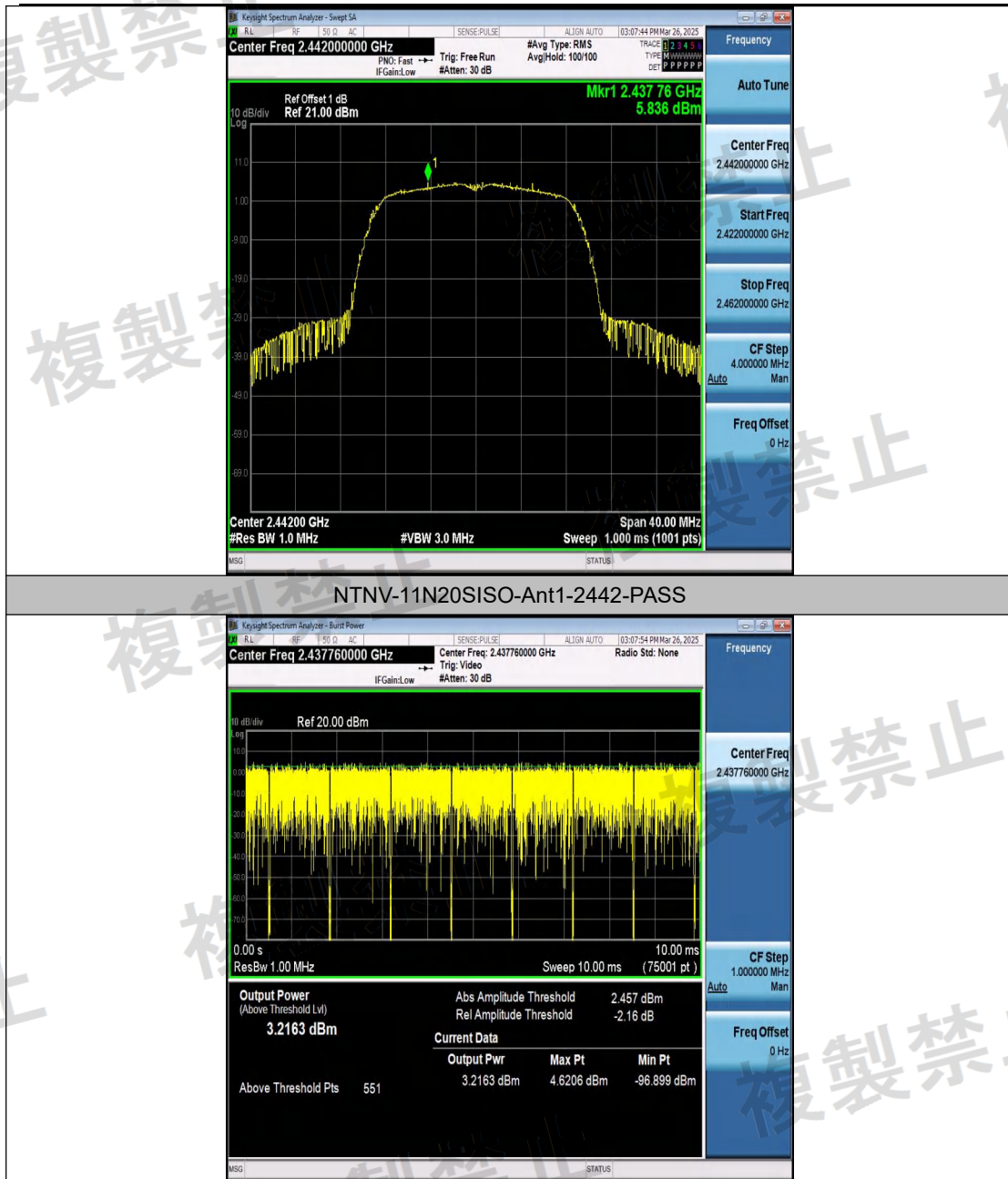


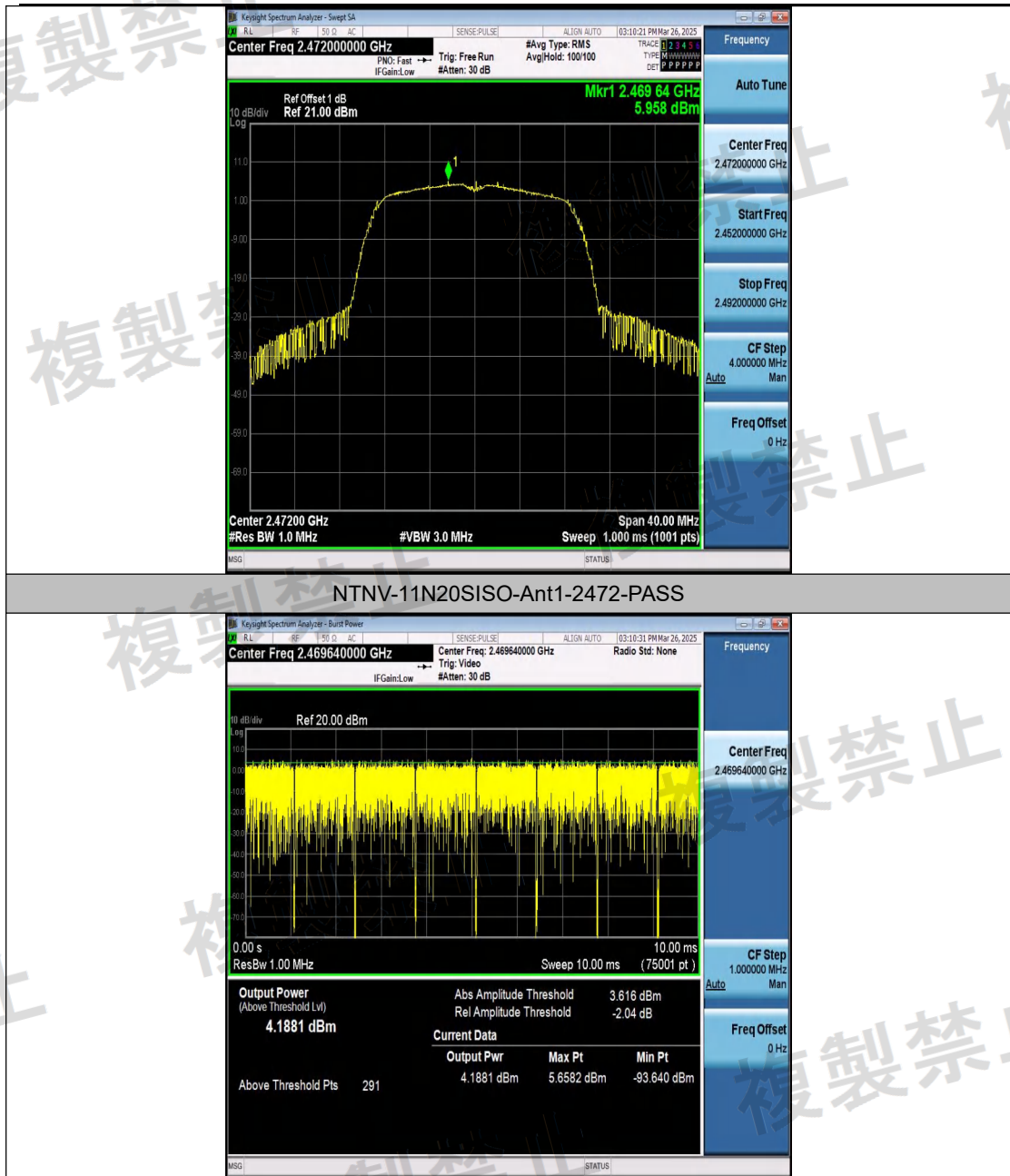












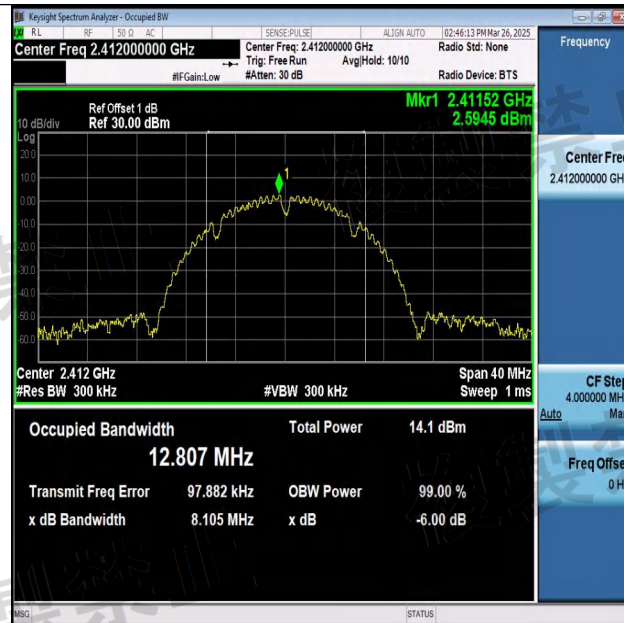
## Appendix C: Occupied Bandwidth

### Test Result

| Test Condition | Test Mode | Antenna | Frequency [MHz] | Result [MHz] | Limit [MHz] | Verdict |
|----------------|-----------|---------|-----------------|--------------|-------------|---------|
| NTNV           | 11B       | Ant1    | 2412            | 12.807       | ≤26         | PASS    |
| NTNV           | 11B       | Ant1    | 2442            | 12.898       | ≤26         | PASS    |
| NTNV           | 11B       | Ant1    | 2472            | 12.705       | ≤26         | PASS    |
| NTNV           | 11G       | Ant1    | 2412            | 16.458       | ≤26         | PASS    |
| NTNV           | 11G       | Ant1    | 2442            | 16.478       | ≤26         | PASS    |
| NTNV           | 11G       | Ant1    | 2472            | 16.449       | ≤26         | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2412            | 17.628       | ≤26         | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2442            | 17.619       | ≤26         | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2472            | 17.580       | ≤26         | PASS    |



## Test Graphs

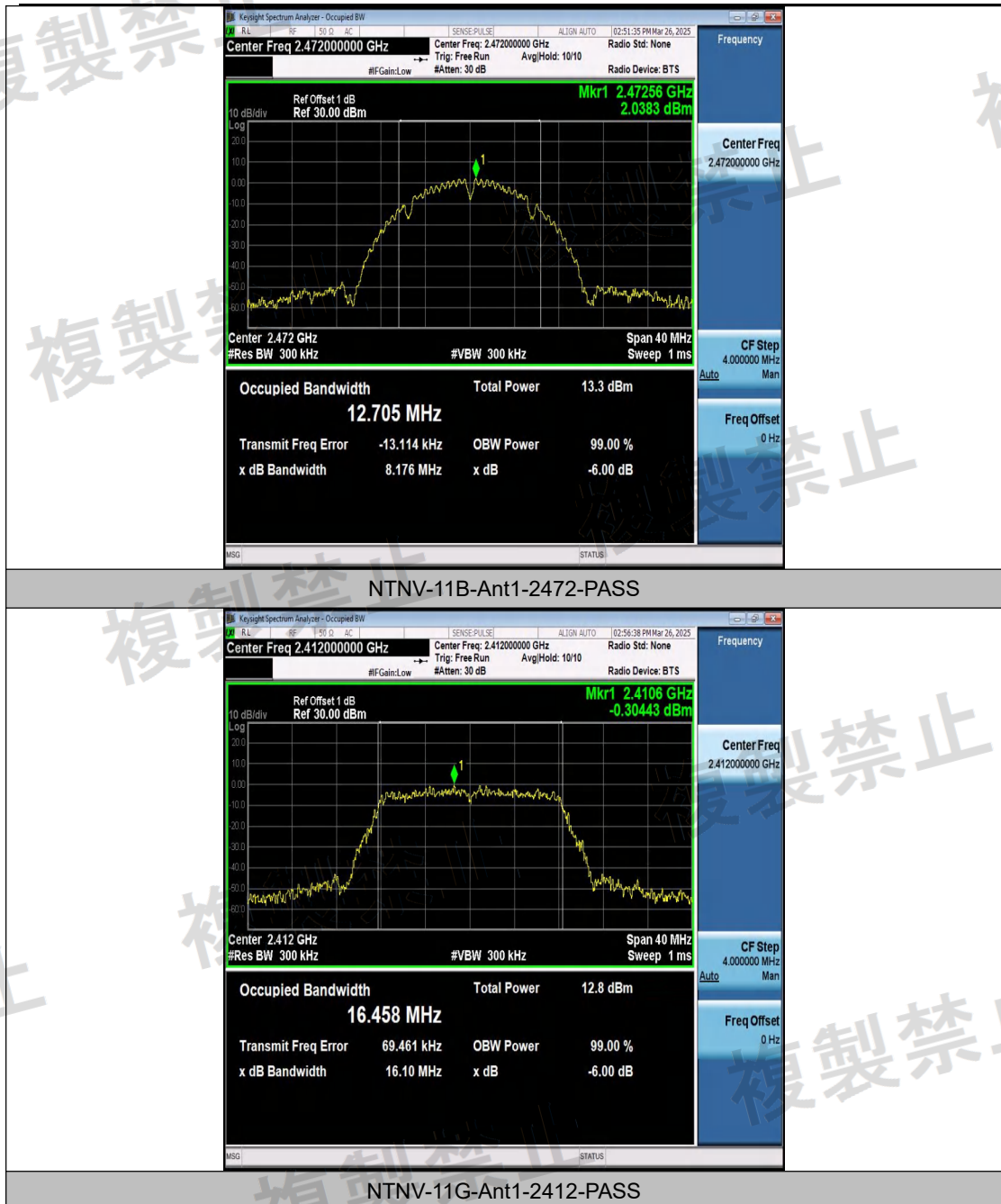


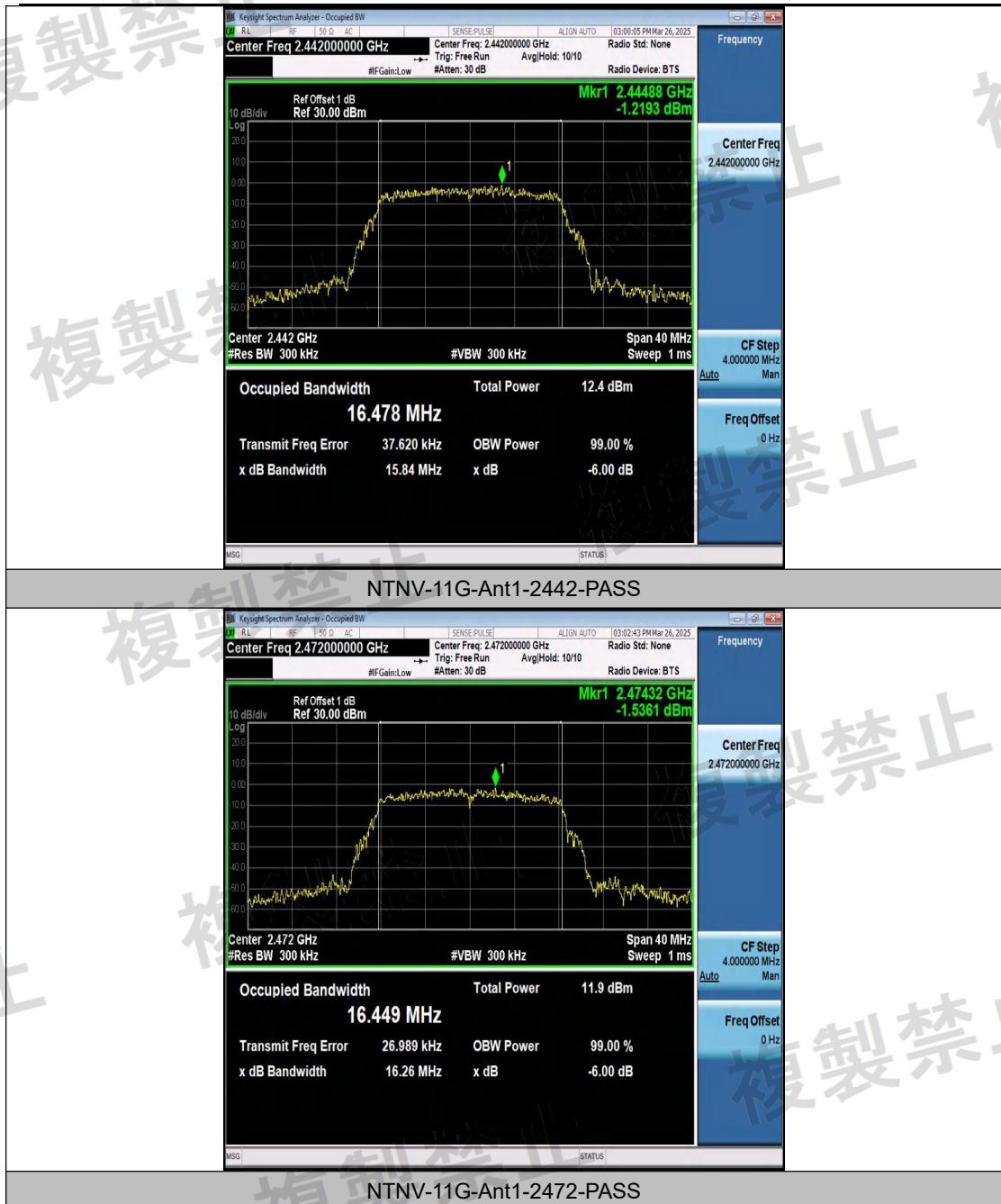
NTNV-11B-Ant1-2412-PASS

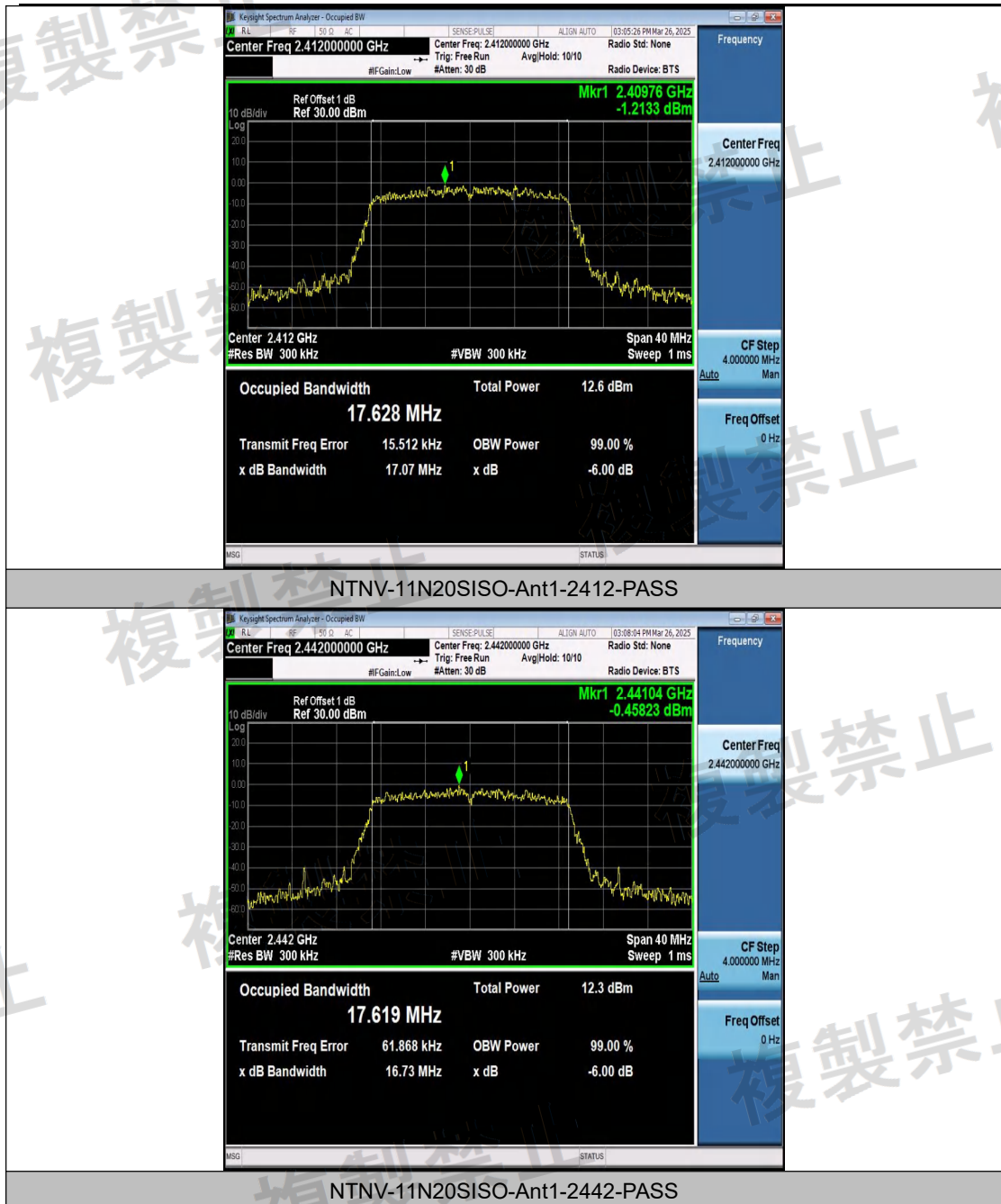


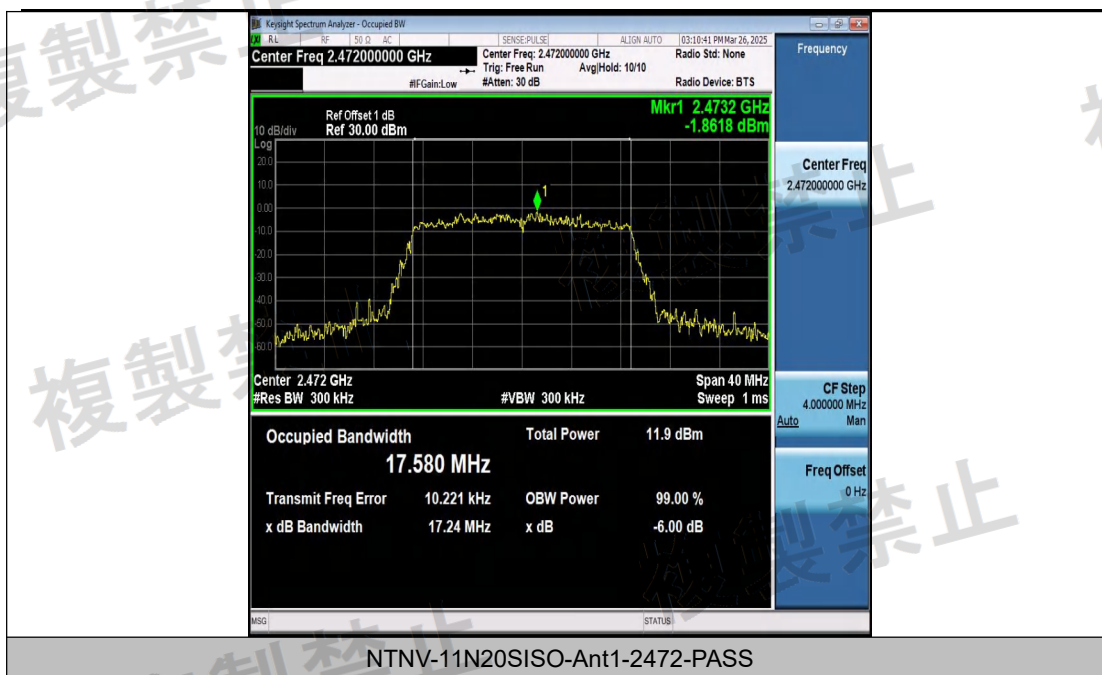
NTNV-11B-Ant1-2442-PASS











## Appendix D: Spurious Emission of TX

### Test Result

| Test Condition | Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Freq. [MHz] | Result [dBm/MHz] | Limit [dBm/MHz] | Result [μW/MHz] | Limit [μW/MHz] | Verdict |
|----------------|-----------|---------|-----------------|-------------------|-------------|------------------|-----------------|-----------------|----------------|---------|
| NTNV           | 11B       | Ant1    | 2412            | 30~1000           | 217.21      | -58.29           | ≤-26            | 0.00148         | ≤2.5           | PASS    |
| NTNV           | 11B       | Ant1    | 2412            | 1000~2387         | 2385.61     | -51.74           | ≤-26            | 0.00670         | ≤2.5           | PASS    |
| NTNV           | 11B       | Ant1    | 2412            | 2387~2400         | 2387.26     | -34.03           | ≤-16            | 0.39537         | ≤25            | PASS    |
| NTNV           | 11B       | Ant1    | 2412            | 2483.5~2496.5     | 2494.81     | -32.66           | ≤-16            | 0.54200         | ≤25            | PASS    |
| NTNV           | 11B       | Ant1    | 2412            | 2496.5~13000      | 4824.08     | -49.40           | ≤-26            | 0.01148         | ≤2.5           | PASS    |
| NTNV           | 11B       | Ant1    | 2442            | 30~1000           | 763.81      | -58.67           | ≤-26            | 0.00136         | ≤2.5           | PASS    |
| NTNV           | 11B       | Ant1    | 2442            | 1000~2387         | 2340.88     | -53.54           | ≤-26            | 0.00443         | ≤2.5           | PASS    |
| NTNV           | 11B       | Ant1    | 2442            | 2387~2400         | 2396.18     | -52.69           | ≤-16            | 0.00538         | ≤25            | PASS    |
| NTNV           | 11B       | Ant1    | 2442            | 2483.5~2496.5     | 2484.59     | -49.01           | ≤-16            | 0.01256         | ≤25            | PASS    |
| NTNV           | 11B       | Ant1    | 2442            | 2496.5~13000      | 4883.95     | -50.06           | ≤-26            | 0.00986         | ≤2.5           | PASS    |
| NTNV           | 11B       | Ant1    | 2472            | 30~1000           | 428.91      | -58.34           | ≤-26            | 0.00147         | ≤2.5           | PASS    |
| NTNV           | 11B       | Ant1    | 2472            | 1000~2387         | 2308.29     | -54.99           | ≤-26            | 0.00317         | ≤2.5           | PASS    |
| NTNV           | 11B       | Ant1    | 2472            | 2387~2400         | 2392.53     | -53.92           | ≤-16            | 0.00406         | ≤25            | PASS    |
| NTNV           | 11B       | Ant1    | 2472            | 2483.5~2496.5     | 2483.71     | -43.76           | ≤-16            | 0.04207         | ≤25            | PASS    |
| NTNV           | 11B       | Ant1    | 2472            | 2496.5~13000      | 2496.50     | -52.61           | ≤-26            | 0.00548         | ≤2.5           | PASS    |
| NTNV           | 11G       | Ant1    | 2412            | 30~1000           | 212.60      | -58.40           | ≤-26            | 0.00145         | ≤2.5           | PASS    |
| NTNV           | 11G       | Ant1    | 2412            | 1000~2387         | 2385.61     | -49.28           | ≤-26            | 0.01180         | ≤2.5           | PASS    |
| NTNV           | 11G       | Ant1    | 2412            | 2387~2400         | 2399.47     | -28.74           | ≤-16            | 1.33660         | ≤25            | PASS    |
| NTNV           | 11G       | Ant1    | 2412            | 2483.5~2496.5     | 2490.51     | -43.72           | ≤-16            | 0.04246         | ≤25            | PASS    |
| NTNV           | 11G       | Ant1    | 2412            | 2496.5~13000      | 2498.60     | -47.29           | ≤-26            | 0.01866         | ≤2.5           | PASS    |
| NTNV           | 11G       | Ant1    | 2442            | 30~1000           | 190.29      | -58.65           | ≤-26            | 0.00136         | ≤2.5           | PASS    |
| NTNV           | 11G       | Ant1    | 2442            | 1000~2387         | 2362.73     | -52.54           | ≤-26            | 0.00557         | ≤2.5           | PASS    |
| NTNV           | 11G       | Ant1    | 2442            | 2387~2400         | 2393.01     | -51.19           | ≤-16            | 0.00760         | ≤25            | PASS    |
| NTNV           | 11G       | Ant1    | 2442            | 2483.5~2496.5     | 2491.06     | -46.28           | ≤-16            | 0.02355         | ≤25            | PASS    |
| NTNV           | 11G       | Ant1    | 2442            | 2496.5~13000      | 2499.65     | -50.00           | ≤-26            | 0.01000         | ≤2.5           | PASS    |
| NTNV           | 11G       | Ant1    | 2472            | 30~1000           | 413.15      | -58.51           | ≤-26            | 0.00141         | ≤2.5           | PASS    |
| NTNV           | 11G       | Ant1    | 2472            | 1000~2387         | 2387.00     | -54.54           | ≤-26            | 0.00352         | ≤2.5           | PASS    |
| NTNV           | 11G       | Ant1    | 2472            | 2387~2400         | 2397.54     | -52.86           | ≤-16            | 0.00518         | ≤25            | PASS    |
| NTNV           | 11G       | Ant1    | 2472            | 2483.5~2496.5     | 2483.51     | -24.51           | ≤-16            | 3.53997         | ≤25            | PASS    |
| NTNV           | 11G       | Ant1    | 2472            | 2496.5~13000      | 2503.33     | -49.60           | ≤-26            | 0.01096         | ≤2.5           | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2412            | 30~1000           | 195.14      | -58.70           | ≤-26            | 0.00135         | ≤2.5           | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2412            | 1000~2387         | 2380.07     | -48.42           | ≤-26            | 0.01439         | ≤2.5           | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2412            | 2387~2400         | 2398.46     | -28.67           | ≤-16            | 1.35831         | ≤25            | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2412            | 2483.5~2496.5     | 2488.81     | -44.17           | ≤-16            | 0.03828         | ≤25            | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2412            | 2496.5~13000      | 2499.65     | -49.15           | ≤-26            | 0.01216         | ≤2.5           | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2442            | 30~1000           | 841.41      | -58.48           | ≤-26            | 0.00142         | ≤2.5           | PASS    |

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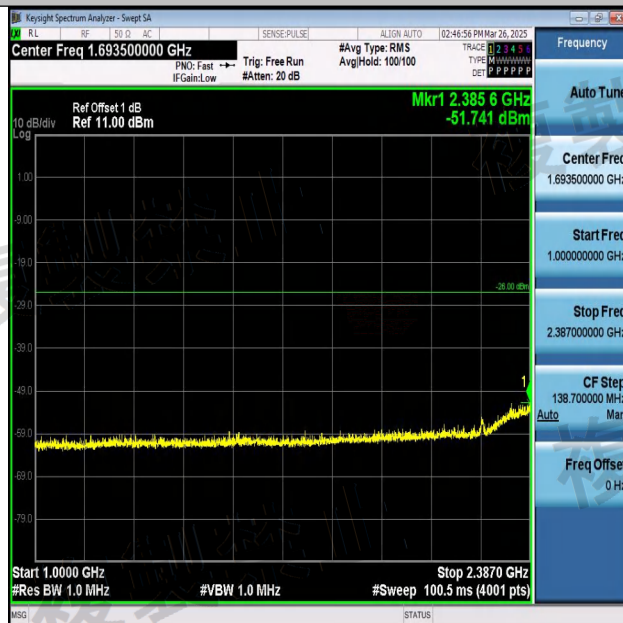
|      |           |      |      |               |         |        |      |         |      |      |
|------|-----------|------|------|---------------|---------|--------|------|---------|------|------|
| NTNV | 11N20SISO | Ant1 | 2442 | 1000~2387     | 2382.84 | -52.44 | ≤-26 | 0.00570 | ≤2.5 | PASS |
| NTNV | 11N20SISO | Ant1 | 2442 | 2387~2400     | 2398.95 | -50.64 | ≤-16 | 0.00863 | ≤25  | PASS |
| NTNV | 11N20SISO | Ant1 | 2442 | 2483.5~2496.5 | 2489.08 | -46.32 | ≤-16 | 0.02333 | ≤25  | PASS |
| NTNV | 11N20SISO | Ant1 | 2442 | 2496.5~13000  | 2496.50 | -50.05 | ≤-26 | 0.00989 | ≤2.5 | PASS |
| NTNV | 11N20SISO | Ant1 | 2472 | 30~1000       | 889.91  | -55.81 | ≤-26 | 0.00262 | ≤2.5 | PASS |
| NTNV | 11N20SISO | Ant1 | 2472 | 1000~2387     | 2372.44 | -53.92 | ≤-26 | 0.00406 | ≤2.5 | PASS |
| NTNV | 11N20SISO | Ant1 | 2472 | 2387~2400     | 2396.48 | -52.04 | ≤-16 | 0.00625 | ≤25  | PASS |
| NTNV | 11N20SISO | Ant1 | 2472 | 2483.5~2496.5 | 2486.20 | -25.24 | ≤-16 | 2.99226 | ≤25  | PASS |
| NTNV | 11N20SISO | Ant1 | 2472 | 2496.5~13000  | 2504.90 | -48.59 | ≤-26 | 0.01384 | ≤2.5 | PASS |



## Test Graphs

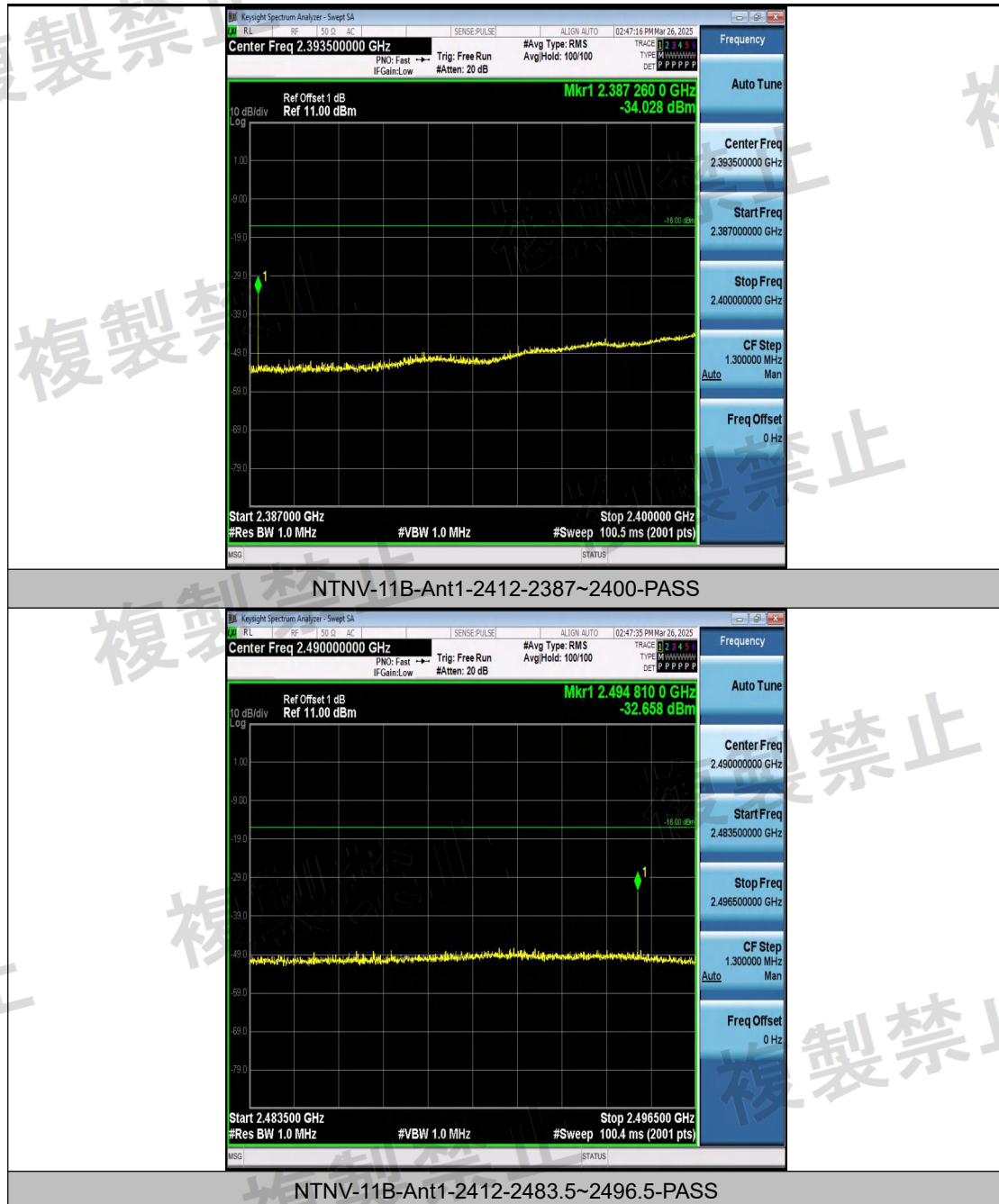


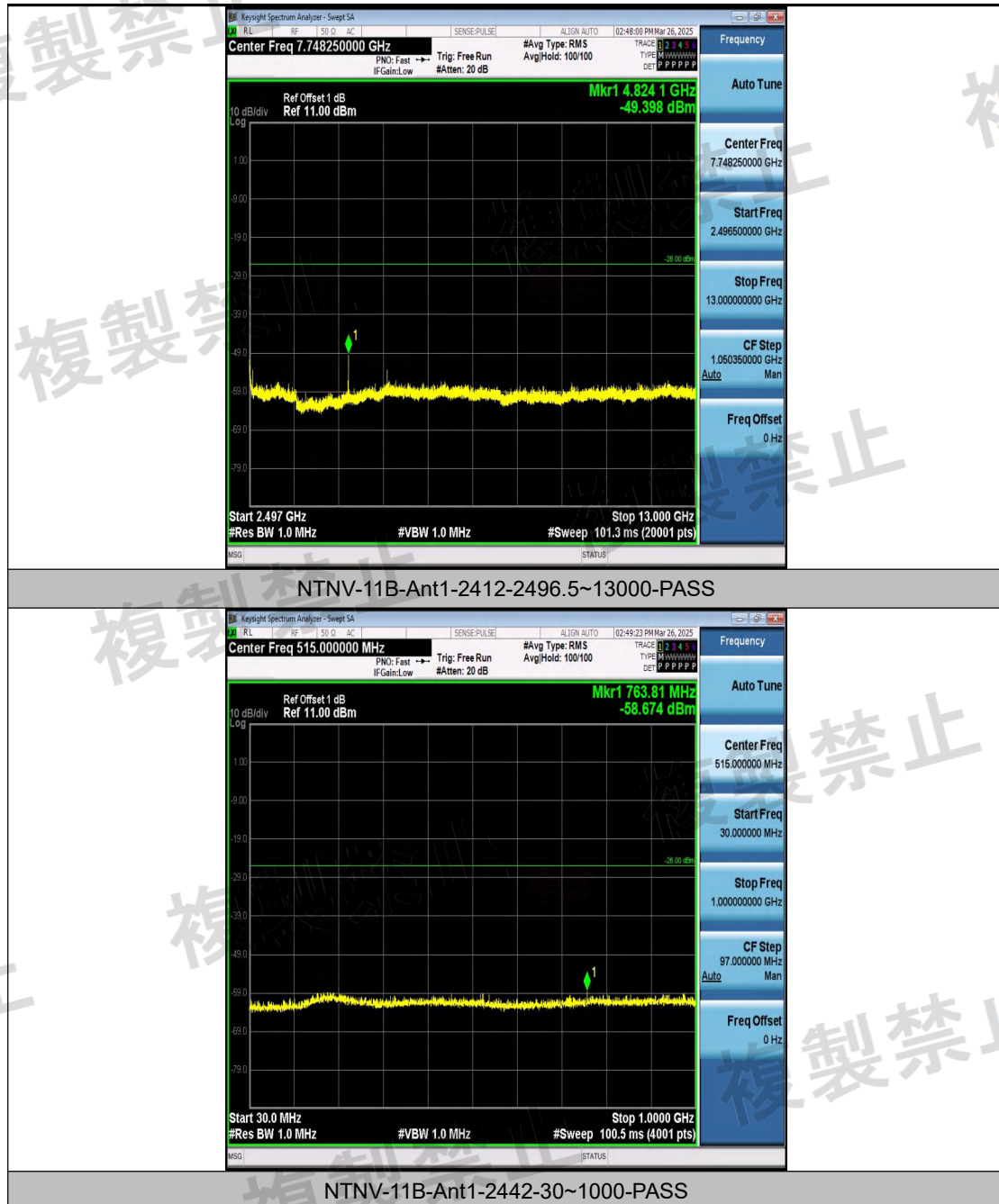
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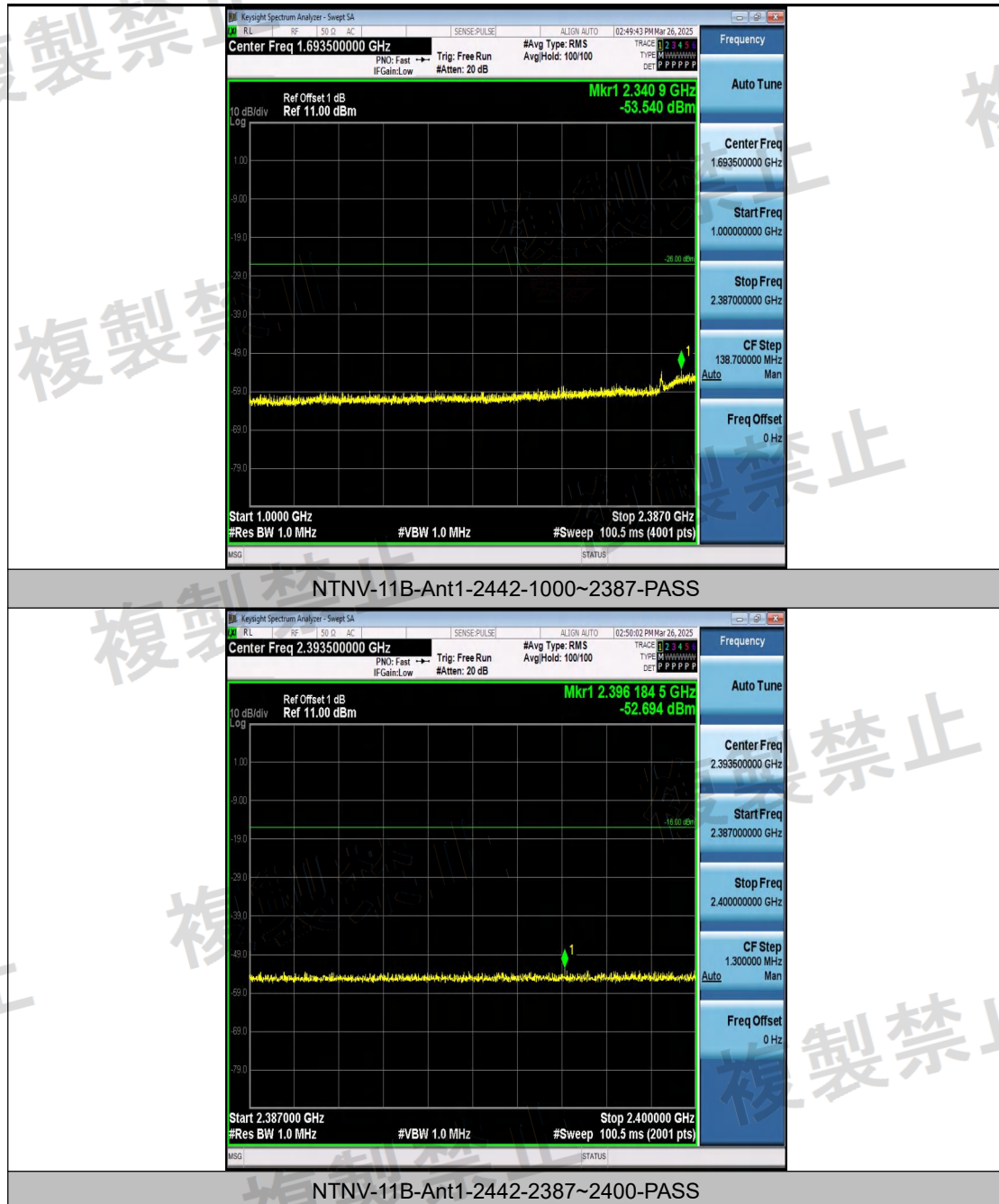


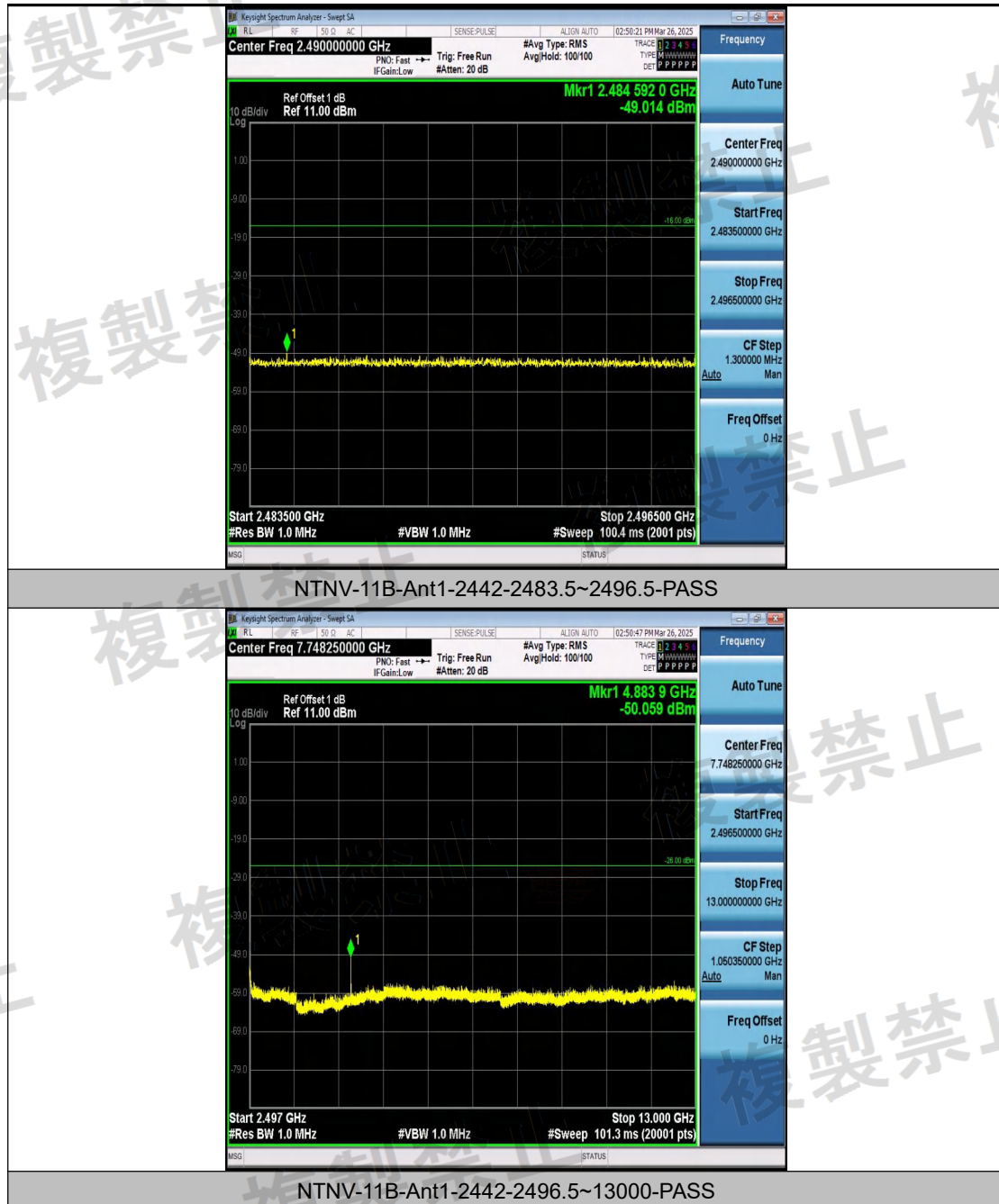
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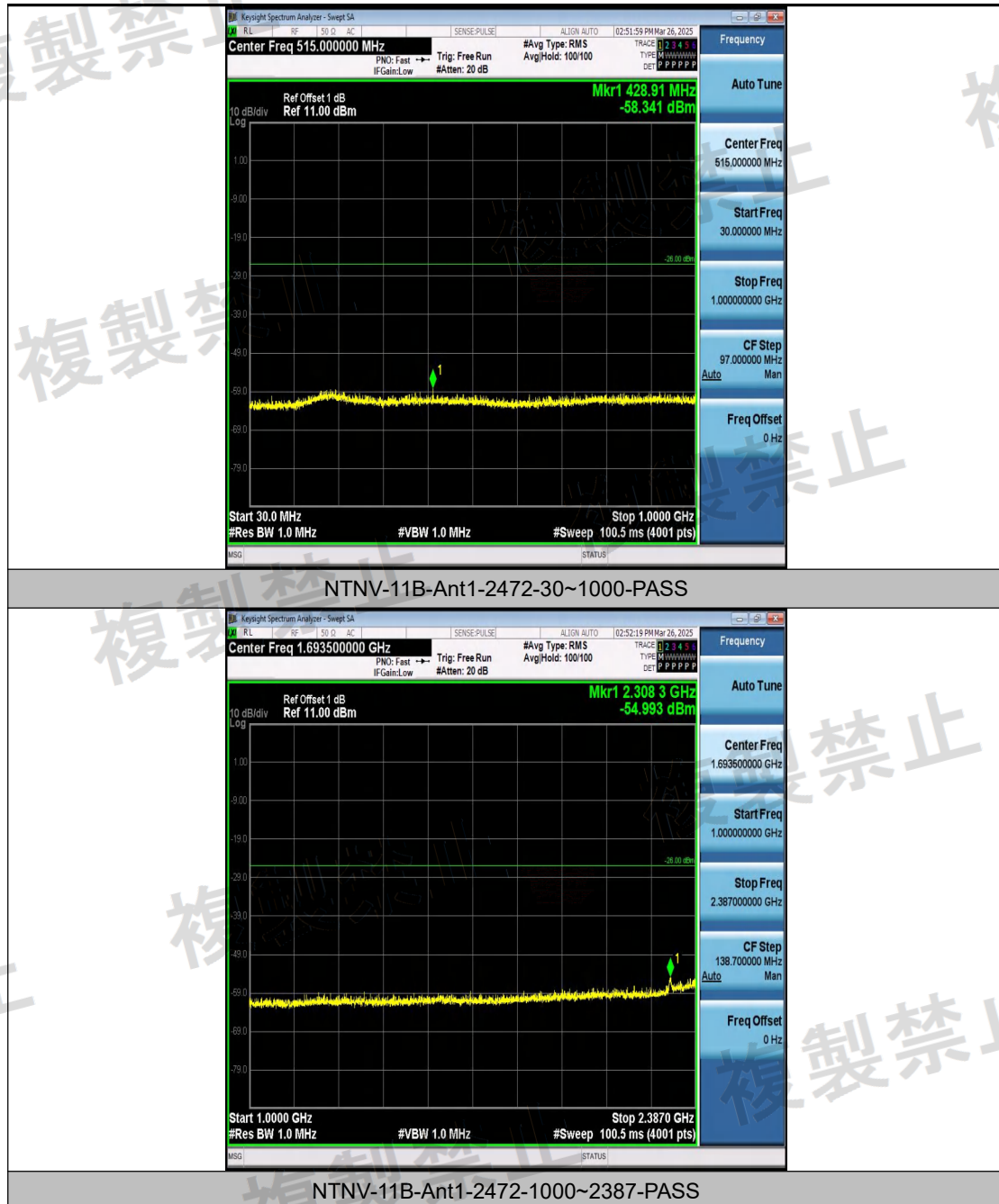


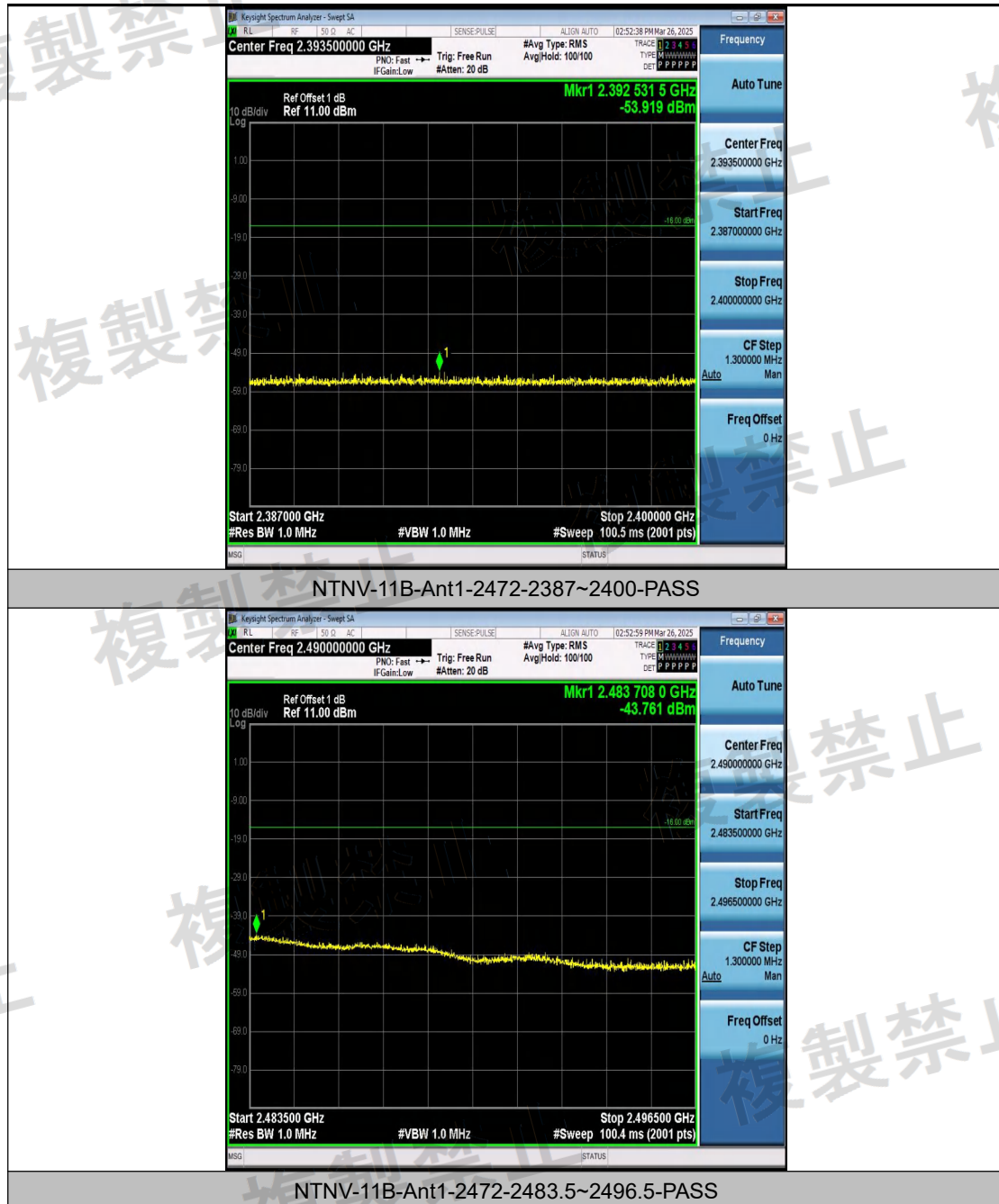


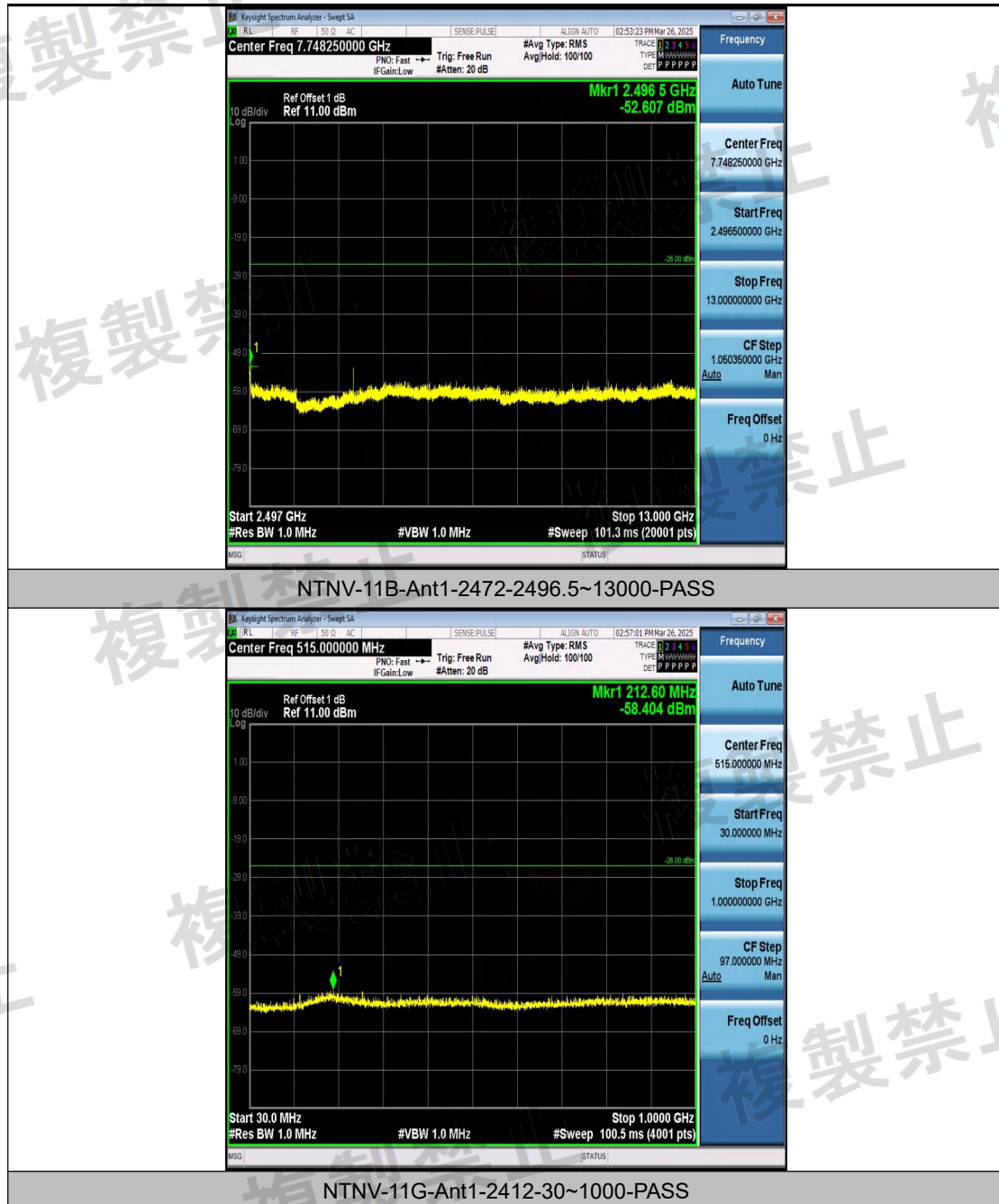


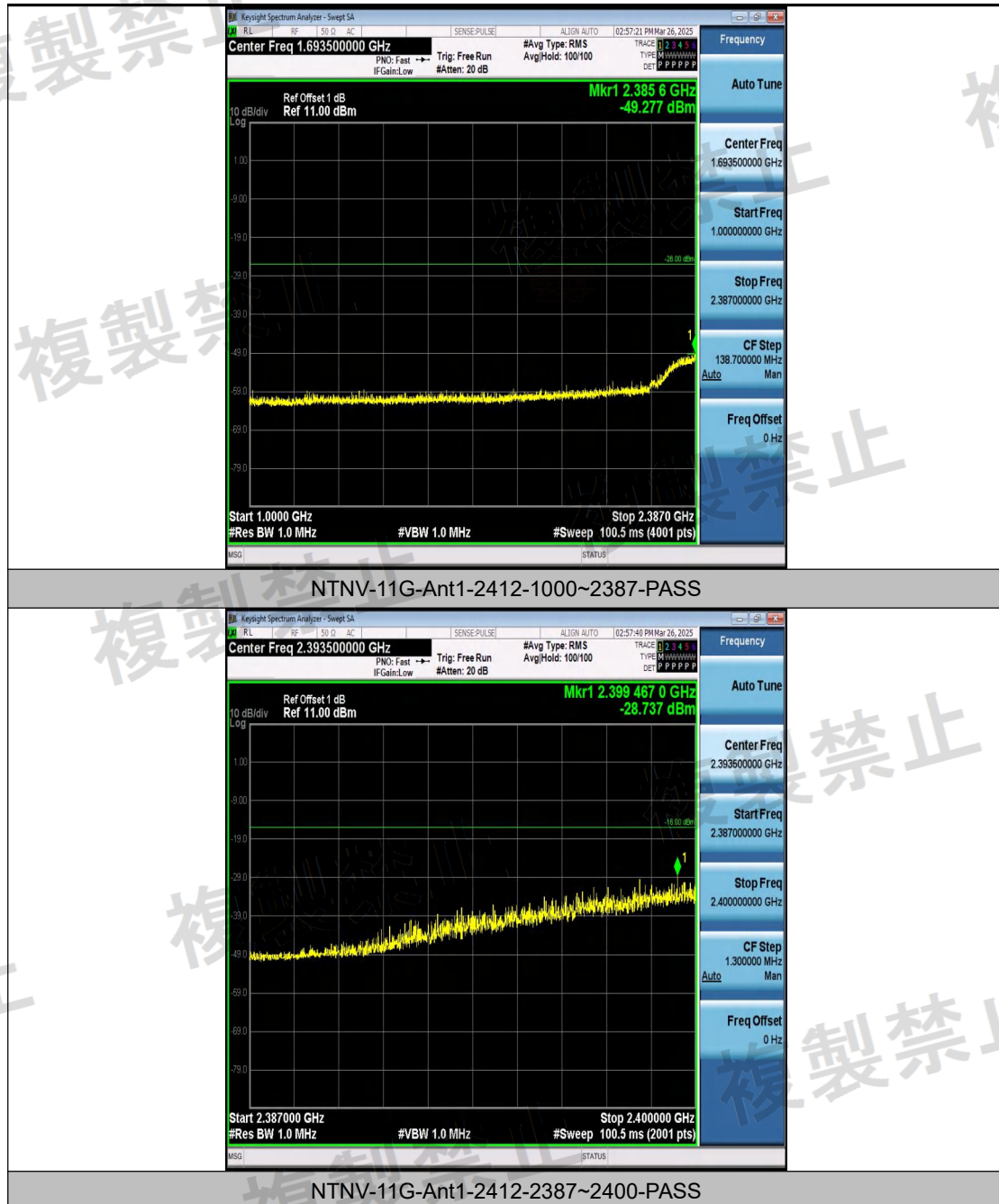


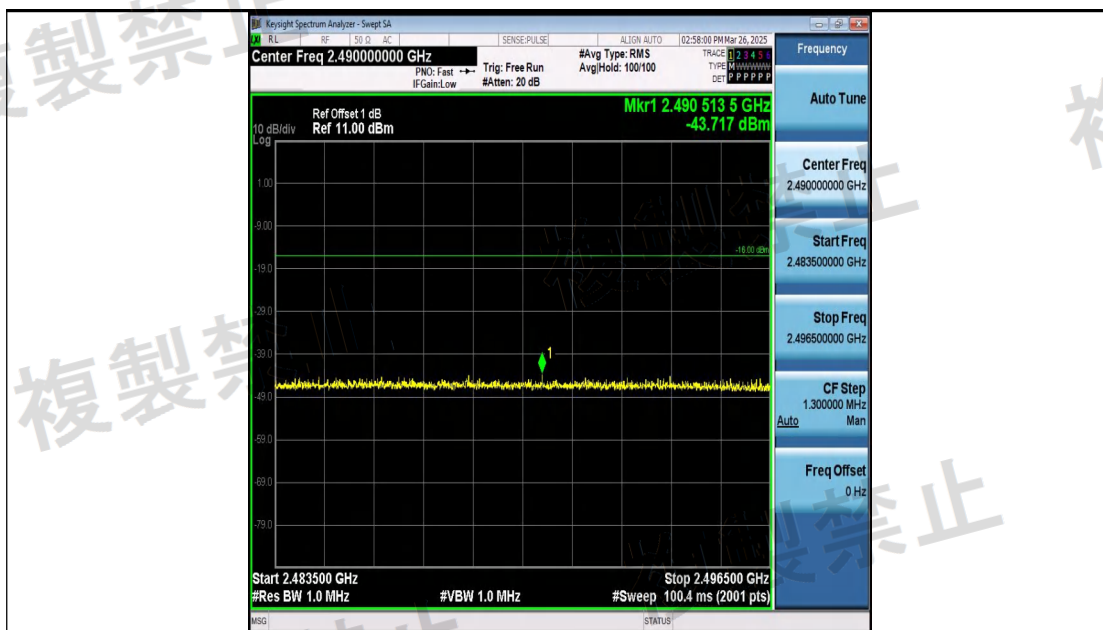




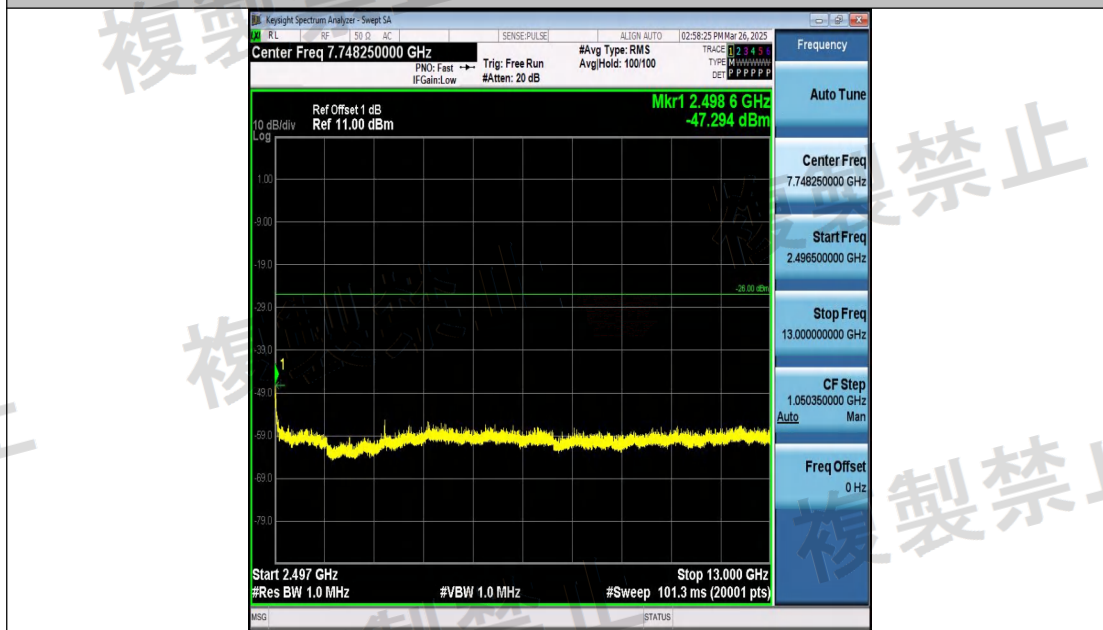






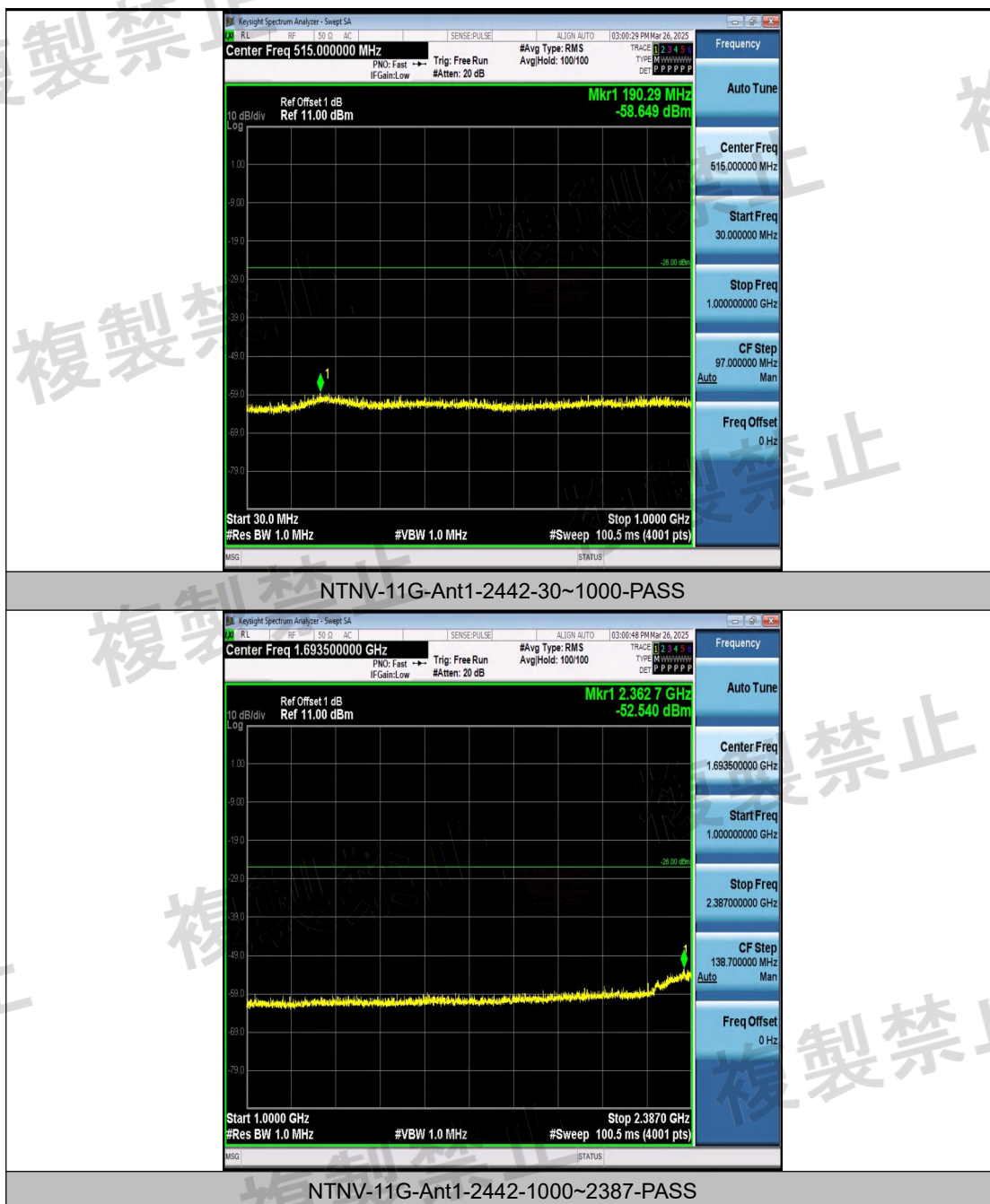


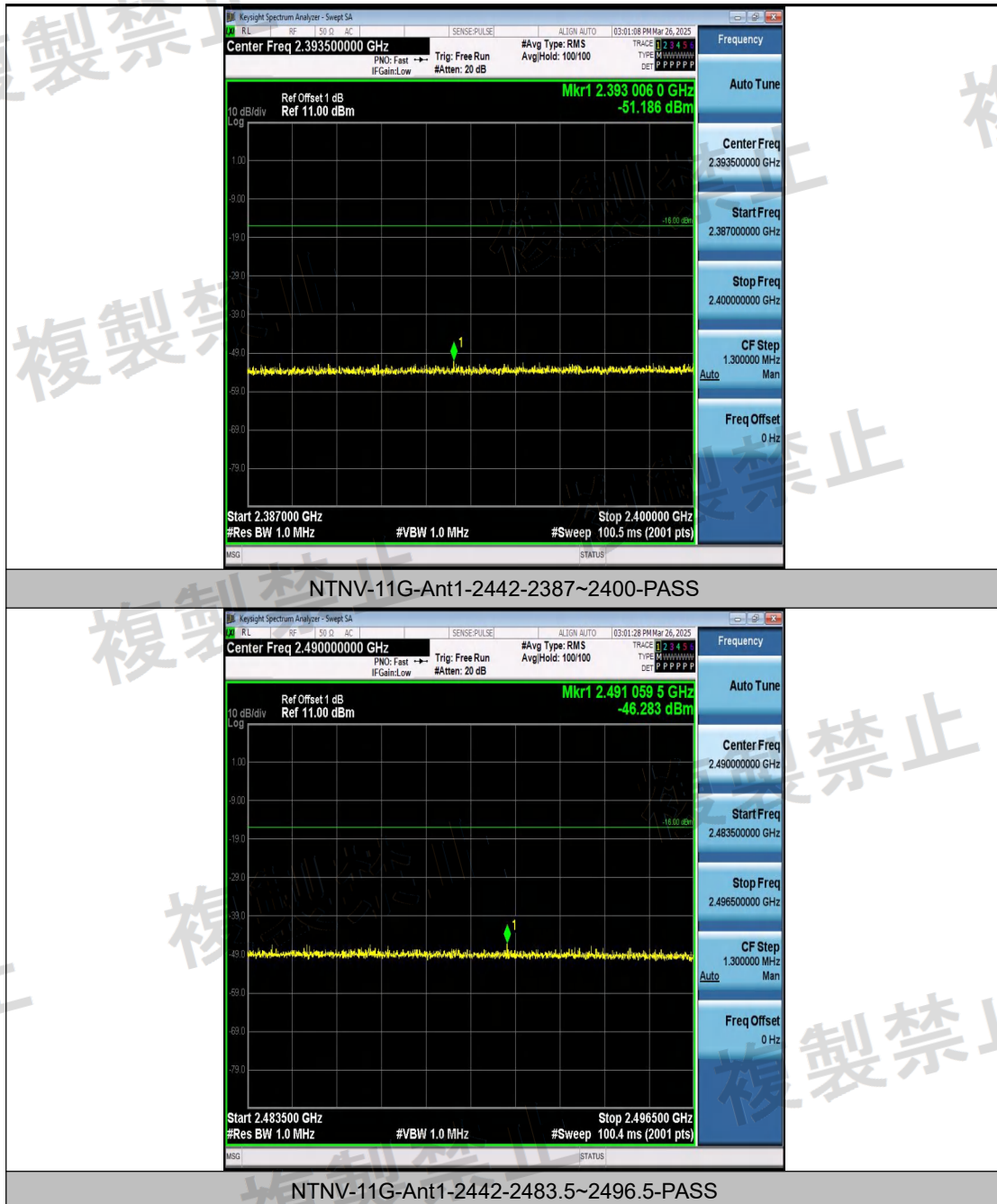
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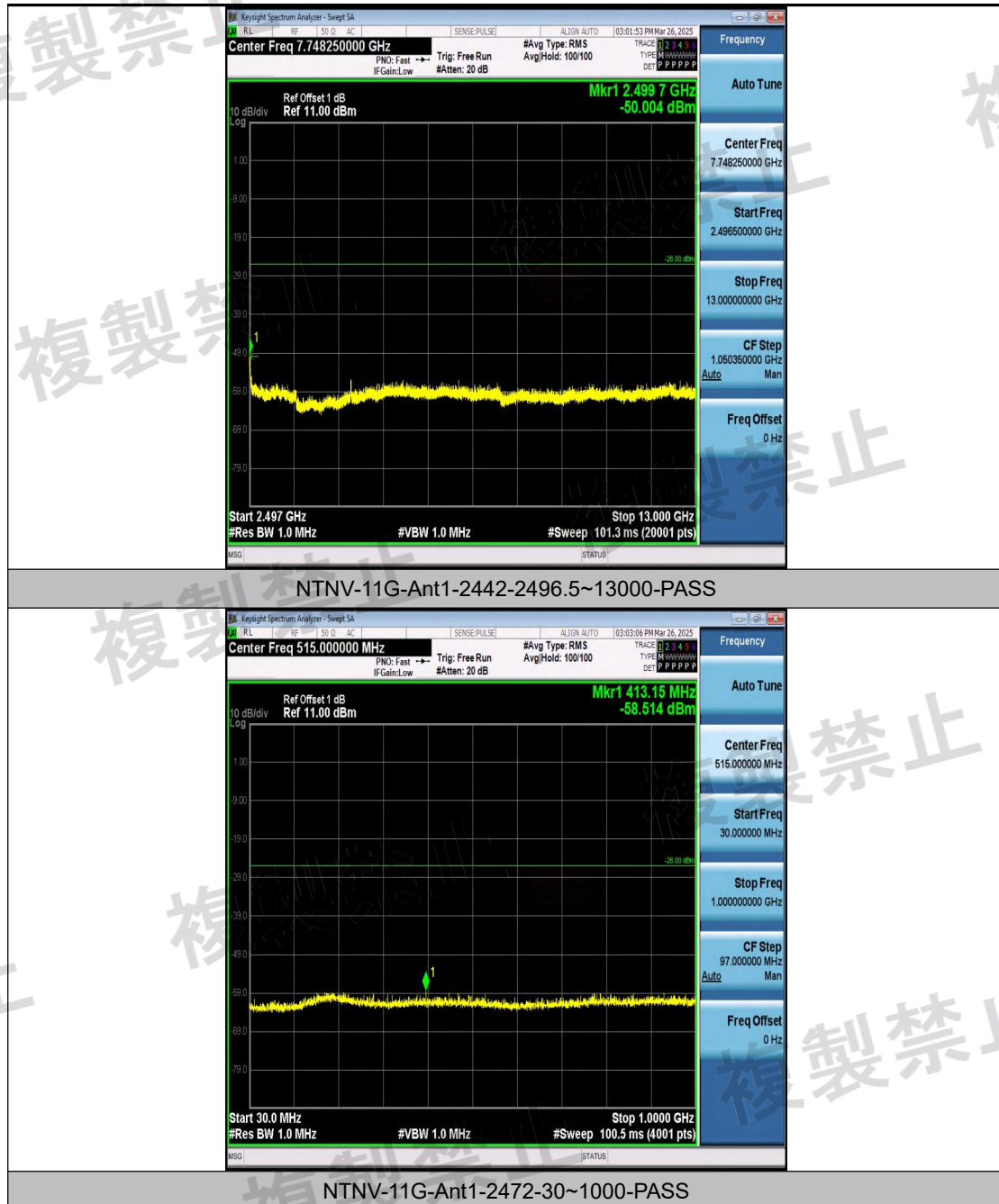


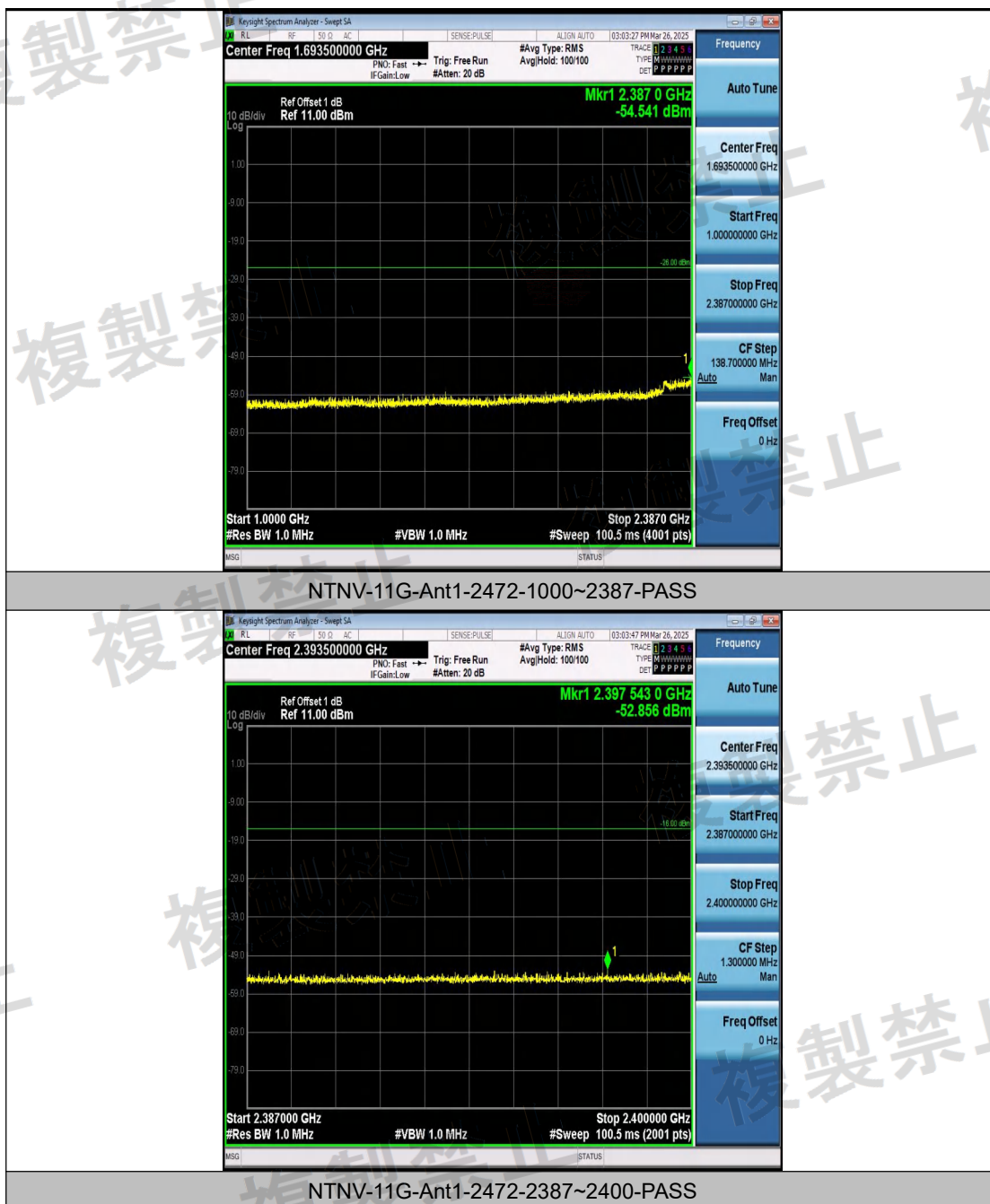
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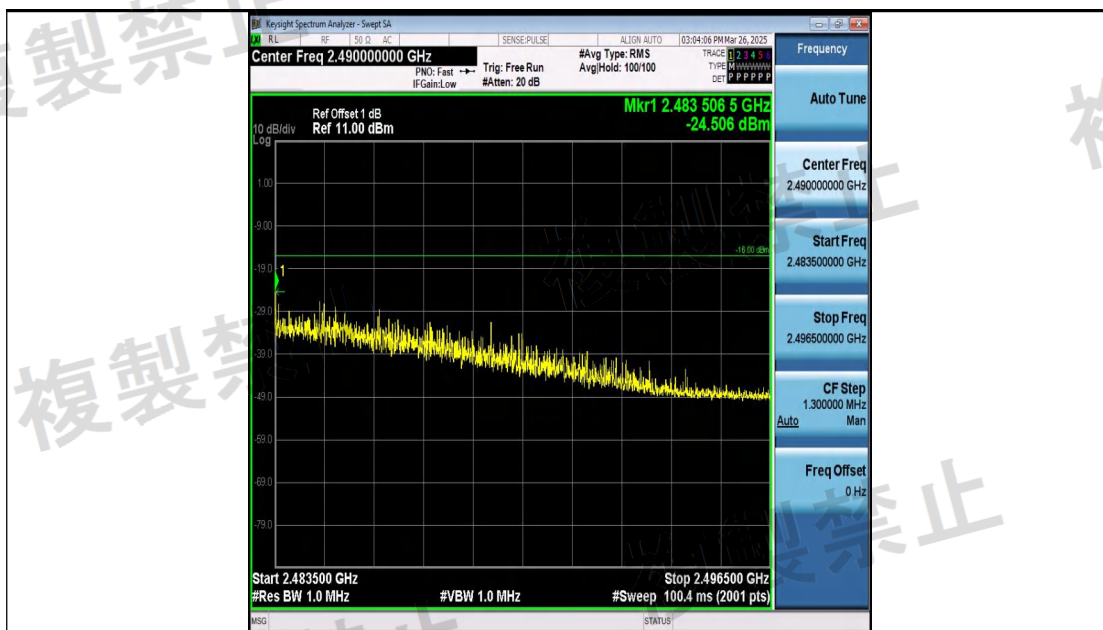




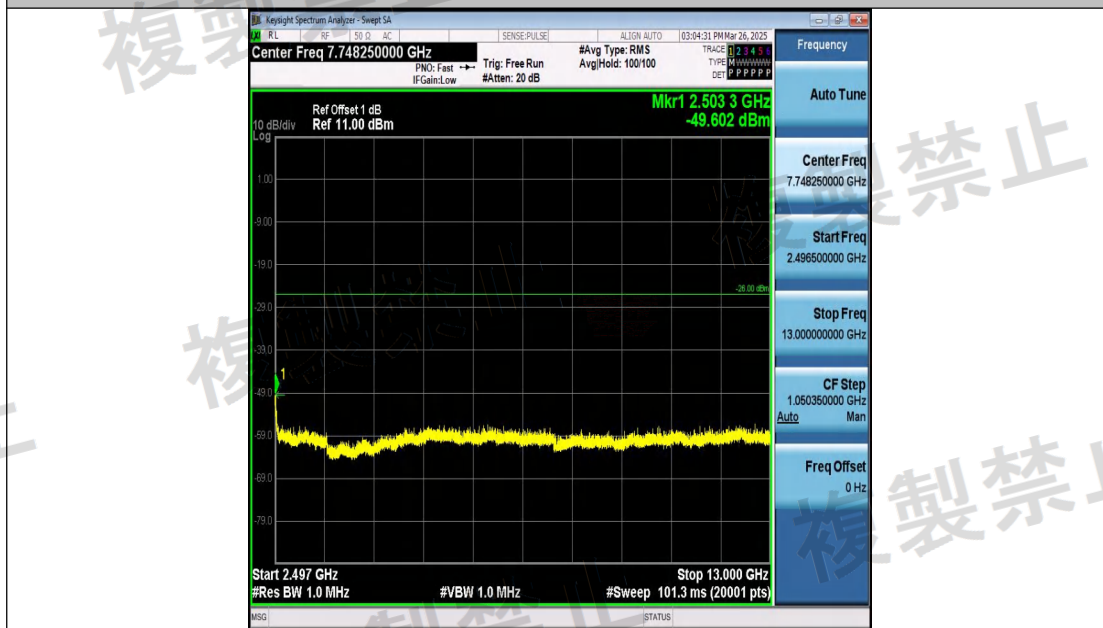






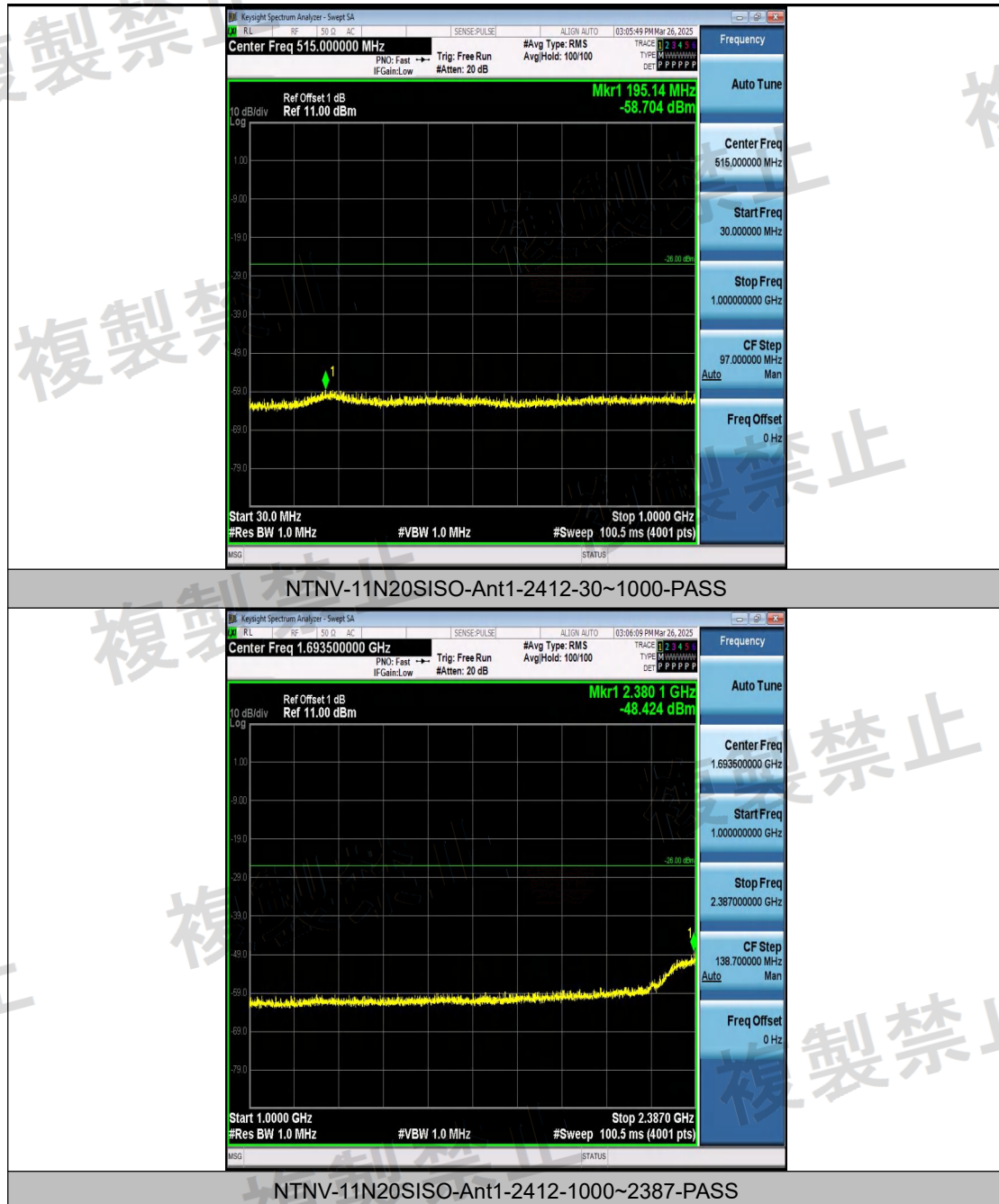


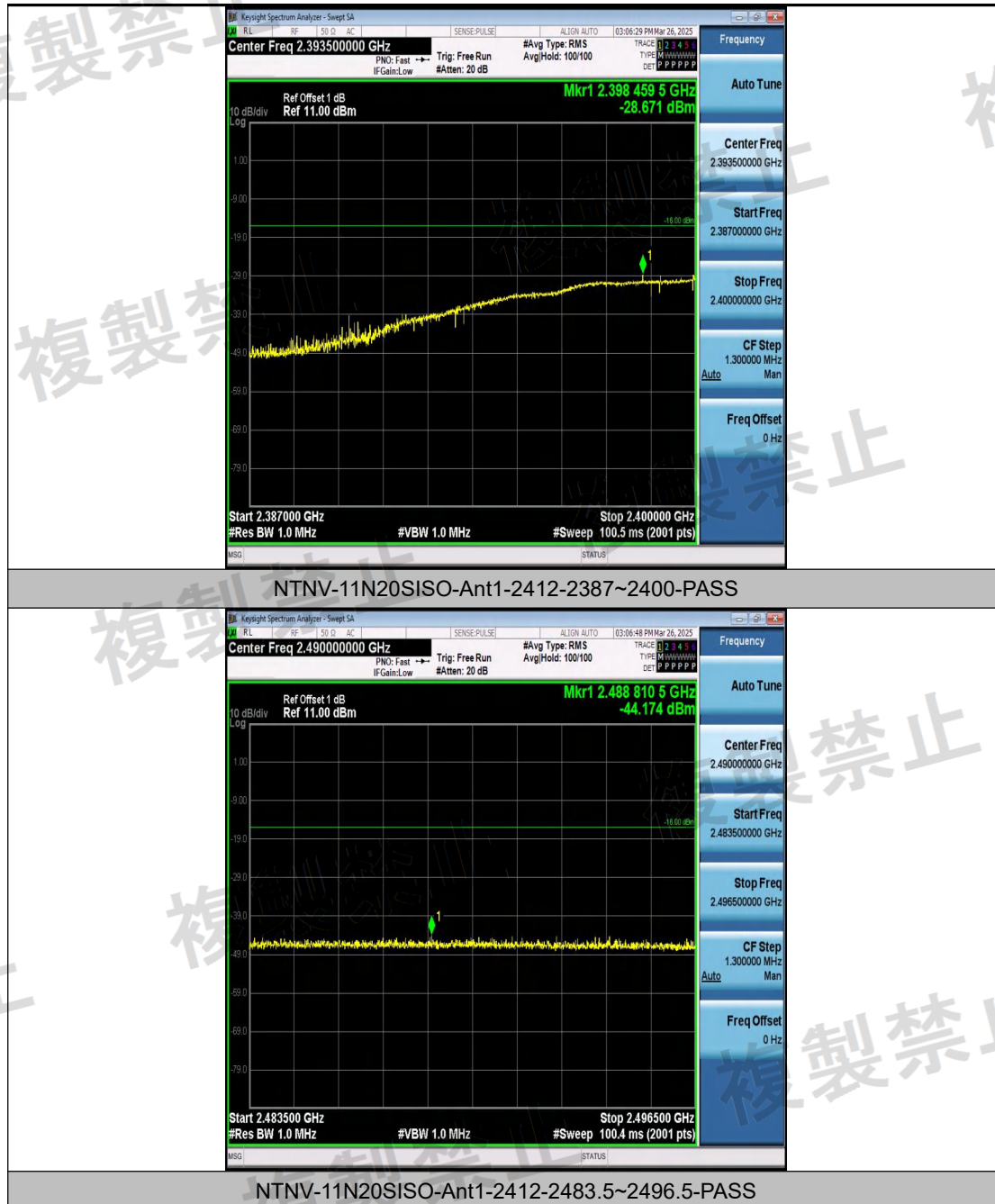
NTNV-11G-Ant1-2472-2483.5~2496.5-PASS

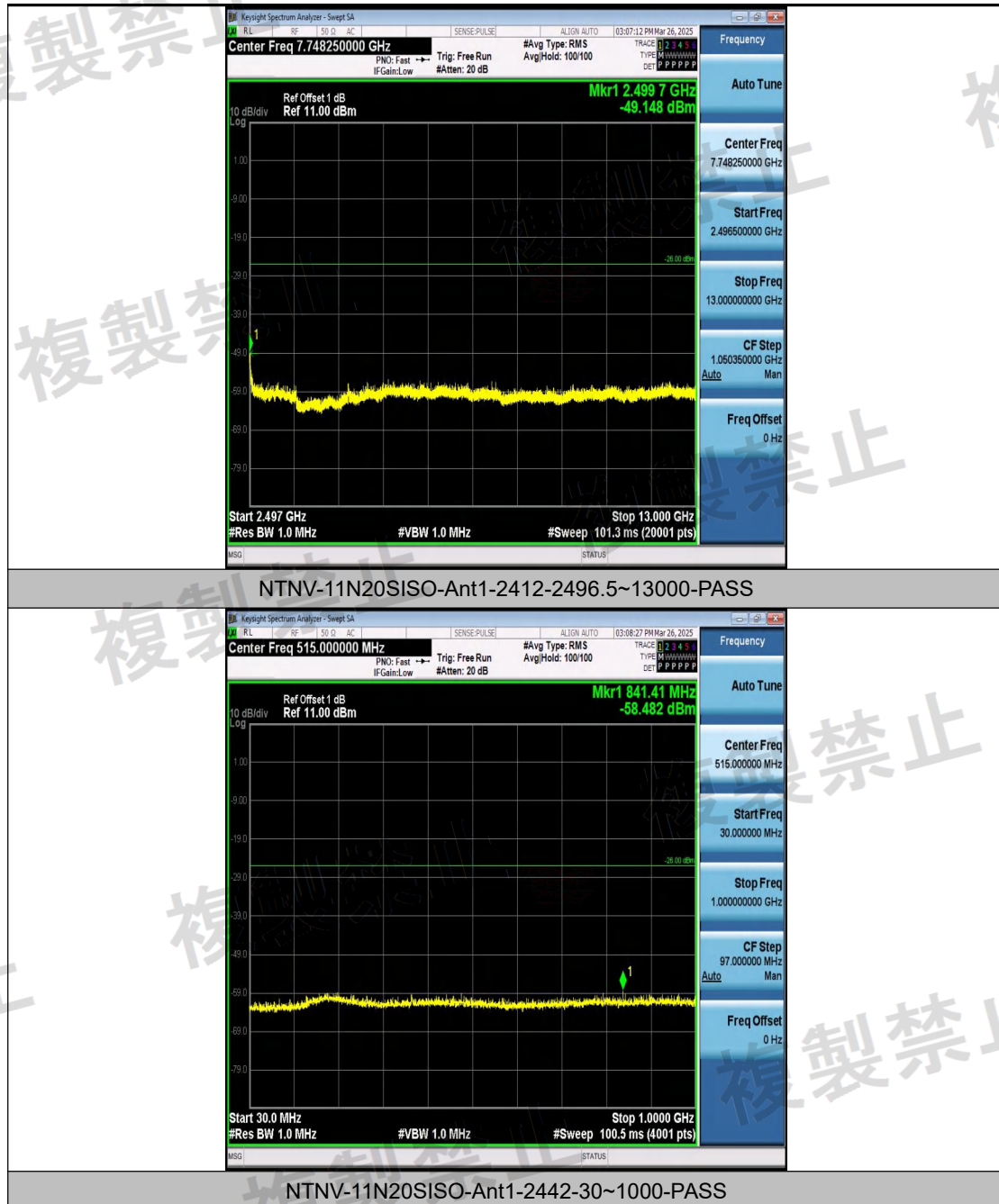


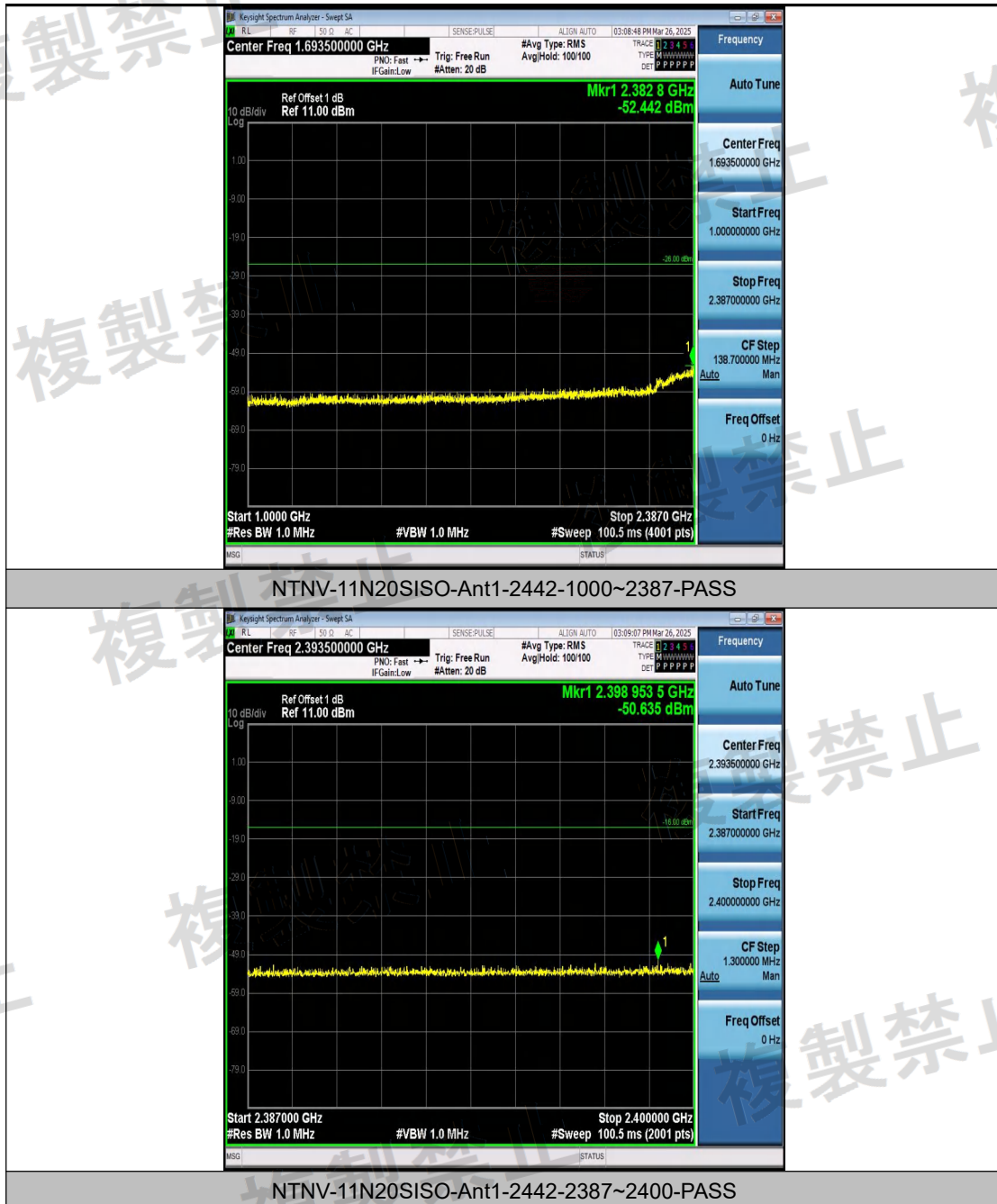
NTNV-11G-Ant1-2472-2496.5~13000-PASS

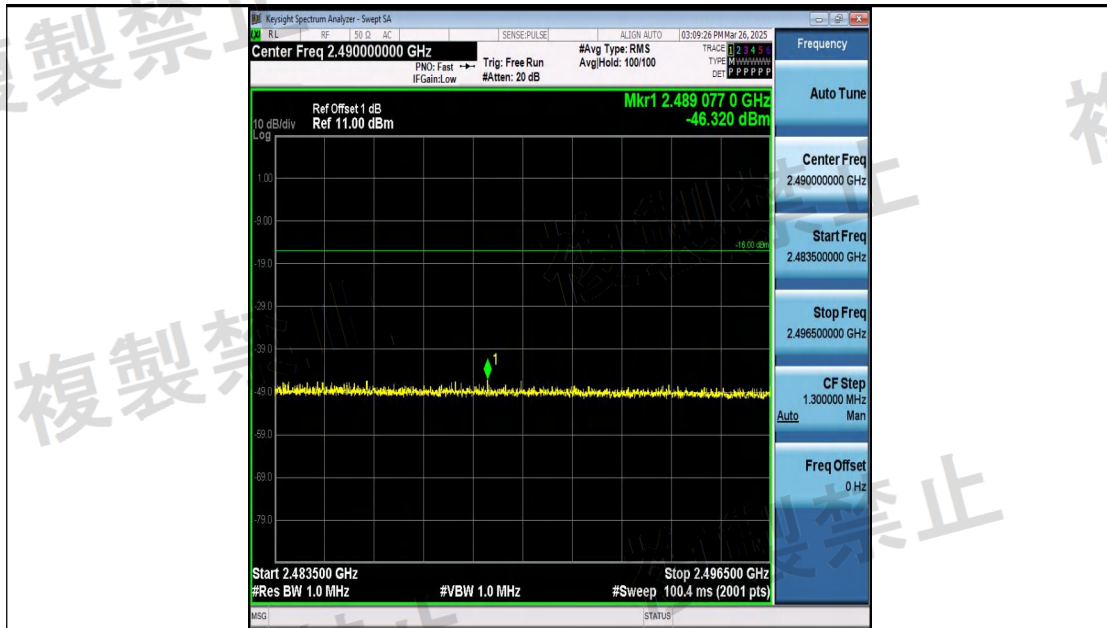










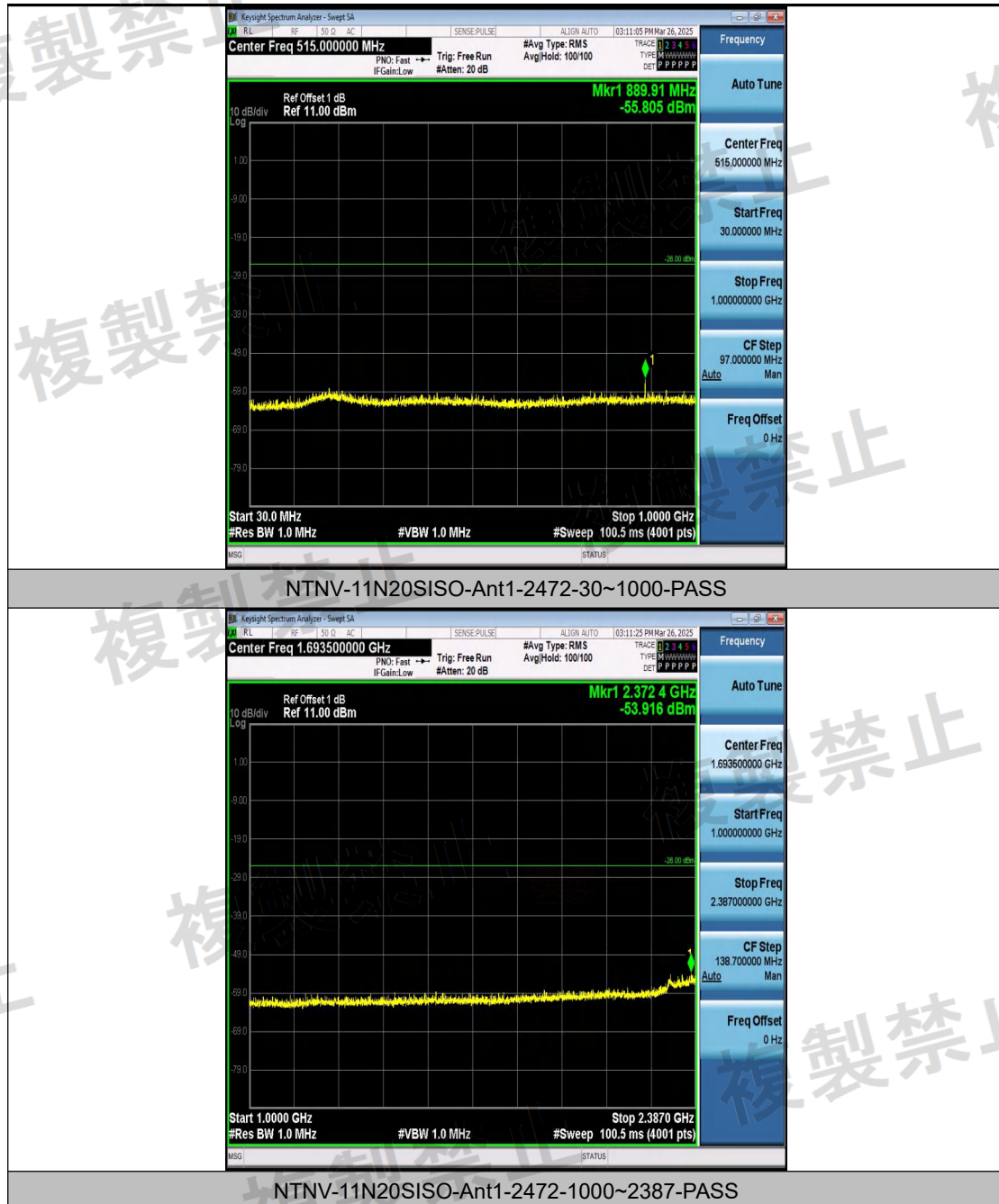


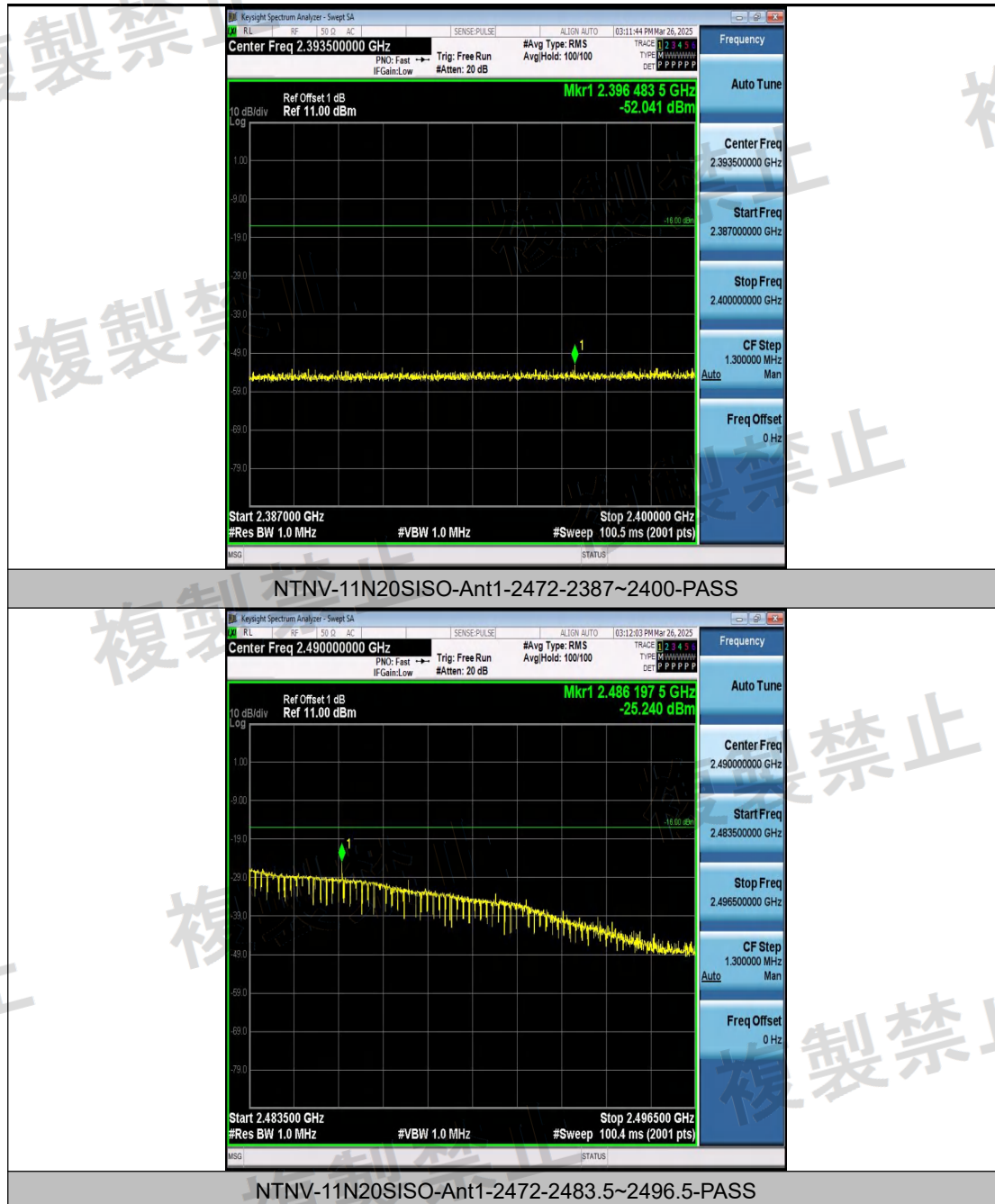
NTNV-11N20SISO-Ant1-2442-2483.5~2496.5-PASS

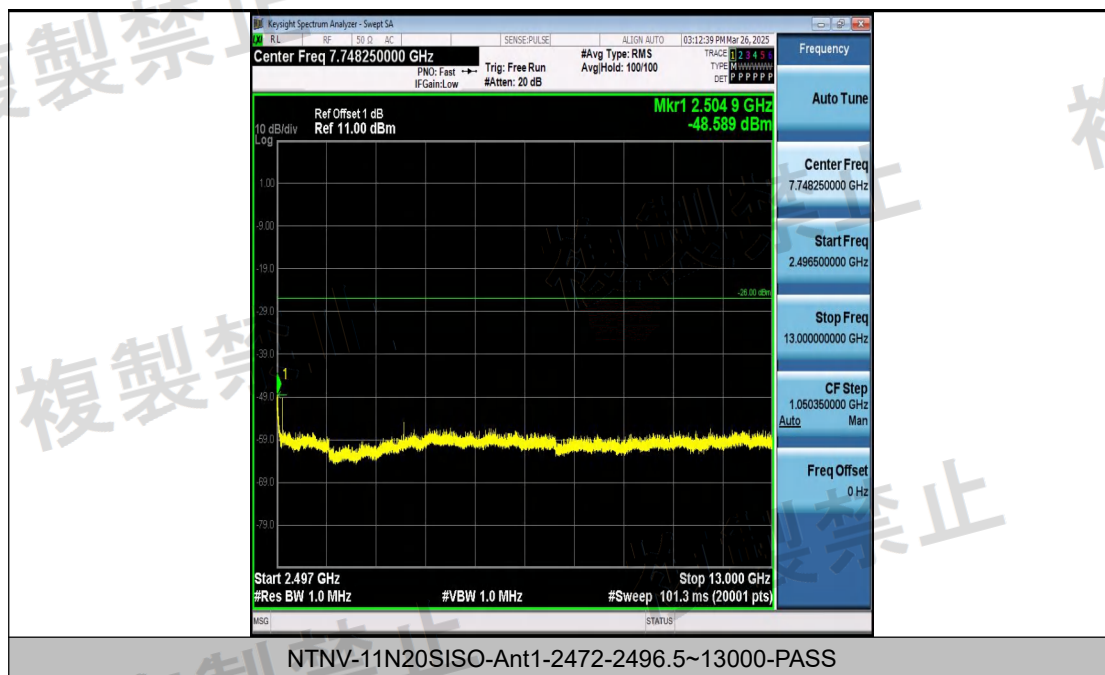


NTNV-11N20SISO-Ant1-2442-2496.5~13000-PASS









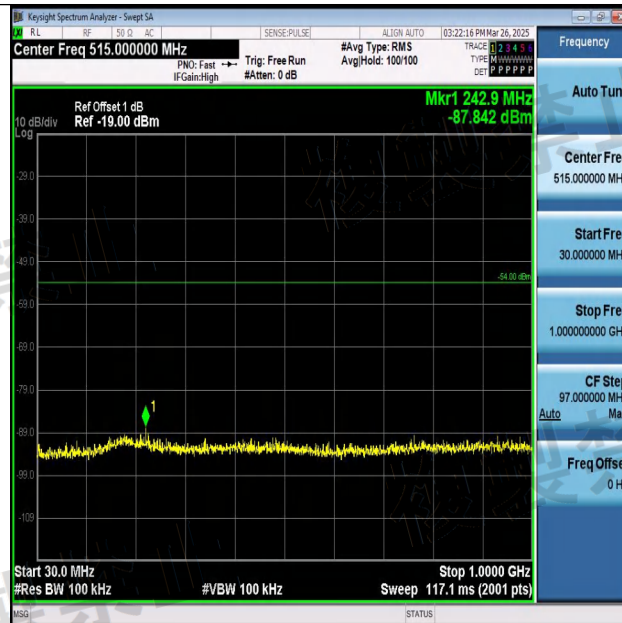
## Appendix E: Spurious Emission of RX

## Test Result

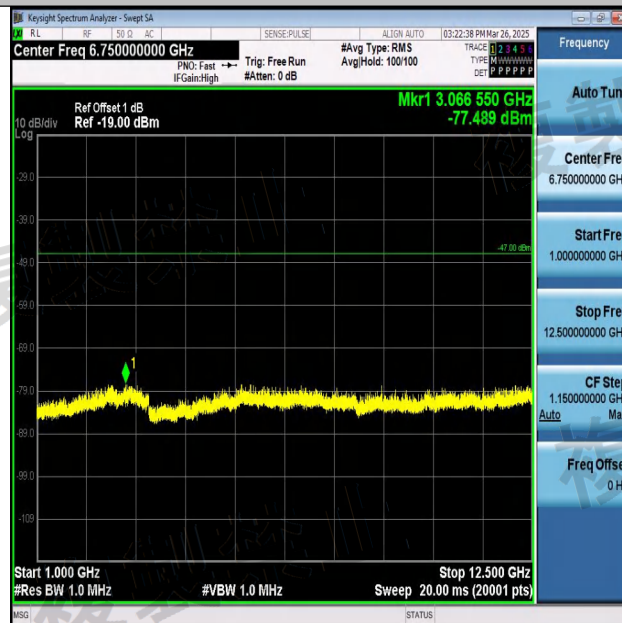
| Test Condition | Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Freq. [MHz] | Result [dBm] | Limit [dBm] | Result [nW] | Limit [nW] | Verdict |
|----------------|-----------|---------|-----------------|-------------------|-------------|--------------|-------------|-------------|------------|---------|
| NTNV           | 11B       | Ant1    | 2412            | 30~1000           | 242.92      | -87.84       | ≤-54        | 0.00164     | ≤4         | PASS    |
| NTNV           | 11B       | Ant1    | 2412            | 1000~12500        | 3066.55     | -77.49       | ≤-47        | 0.01782     | ≤20        | PASS    |
| NTNV           | 11B       | Ant1    | 2442            | 30~1000           | 186.17      | -88.26       | ≤-54        | 0.00149     | ≤4         | PASS    |
| NTNV           | 11B       | Ant1    | 2442            | 1000~12500        | 6936.88     | -77.60       | ≤-47        | 0.01738     | ≤20        | PASS    |
| NTNV           | 11B       | Ant1    | 2472            | 30~1000           | 198.78      | -88.74       | ≤-54        | 0.00134     | ≤4         | PASS    |
| NTNV           | 11B       | Ant1    | 2472            | 1000~12500        | 12339.00    | -77.14       | ≤-47        | 0.01932     | ≤20        | PASS    |
| NTNV           | 11G       | Ant1    | 2412            | 30~1000           | 818.61      | -89.41       | ≤-54        | 0.00115     | ≤4         | PASS    |
| NTNV           | 11G       | Ant1    | 2412            | 1000~12500        | 6355.55     | -76.79       | ≤-47        | 0.02094     | ≤20        | PASS    |
| NTNV           | 11G       | Ant1    | 2442            | 30~1000           | 213.82      | -88.97       | ≤-54        | 0.00127     | ≤4         | PASS    |
| NTNV           | 11G       | Ant1    | 2442            | 1000~12500        | 3183.85     | -76.96       | ≤-47        | 0.02014     | ≤20        | PASS    |
| NTNV           | 11G       | Ant1    | 2472            | 30~1000           | 208.97      | -88.37       | ≤-54        | 0.00146     | ≤4         | PASS    |
| NTNV           | 11G       | Ant1    | 2472            | 1000~12500        | 2634.15     | -76.97       | ≤-47        | 0.02009     | ≤20        | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2412            | 30~1000           | 207.03      | -89.09       | ≤-54        | 0.00123     | ≤4         | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2412            | 1000~12500        | 3015.38     | -76.92       | ≤-47        | 0.02032     | ≤20        | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2442            | 30~1000           | 183.26      | -88.89       | ≤-54        | 0.00129     | ≤4         | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2442            | 1000~12500        | 3147.63     | -77.05       | ≤-47        | 0.01972     | ≤20        | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2472            | 30~1000           | 198.78      | -88.92       | ≤-54        | 0.00128     | ≤4         | PASS    |
| NTNV           | 11N20SISO | Ant1    | 2472            | 1000~12500        | 12242.98    | -76.58       | ≤-47        | 0.02198     | ≤20        | PASS    |



## Test Graphs

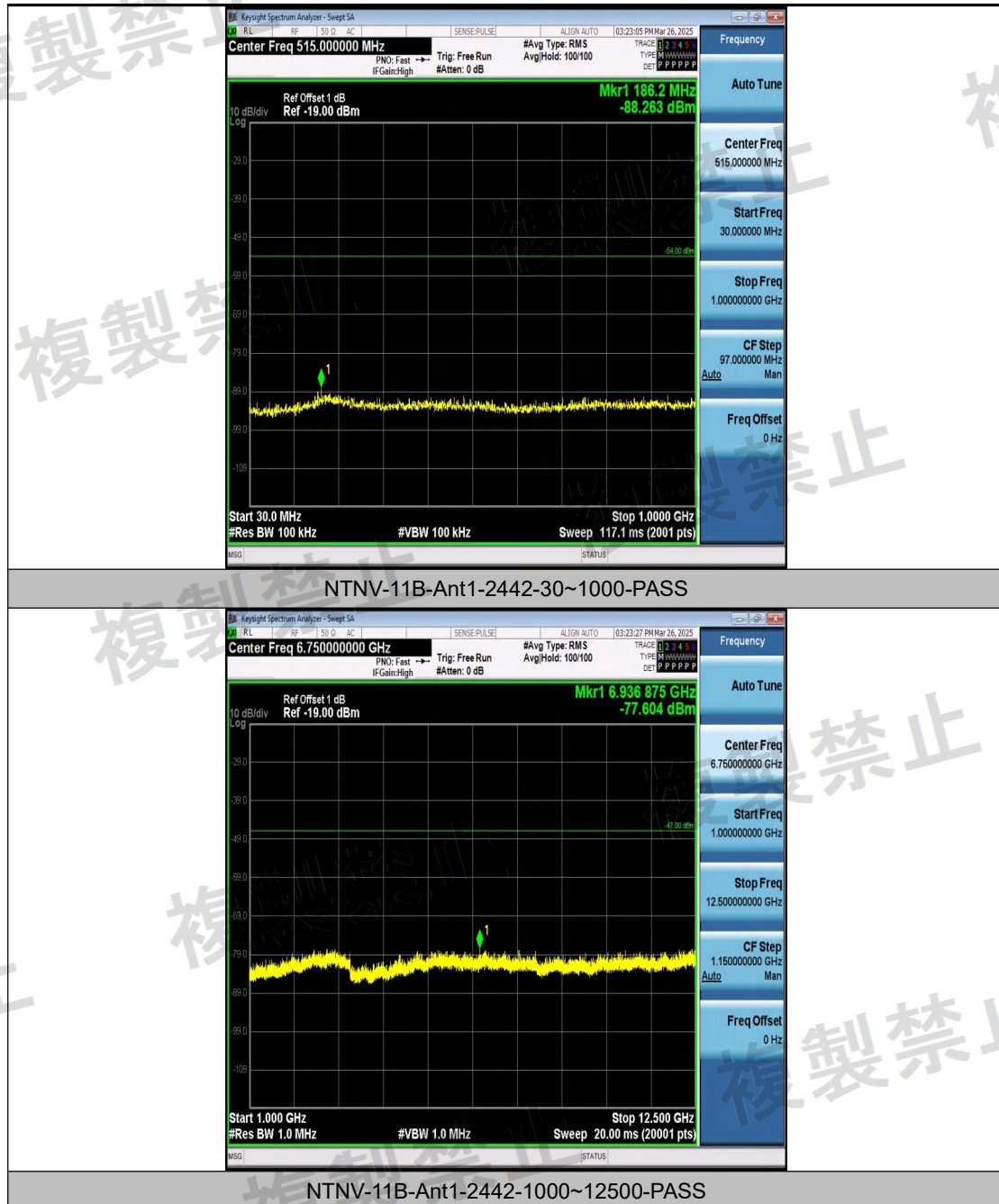


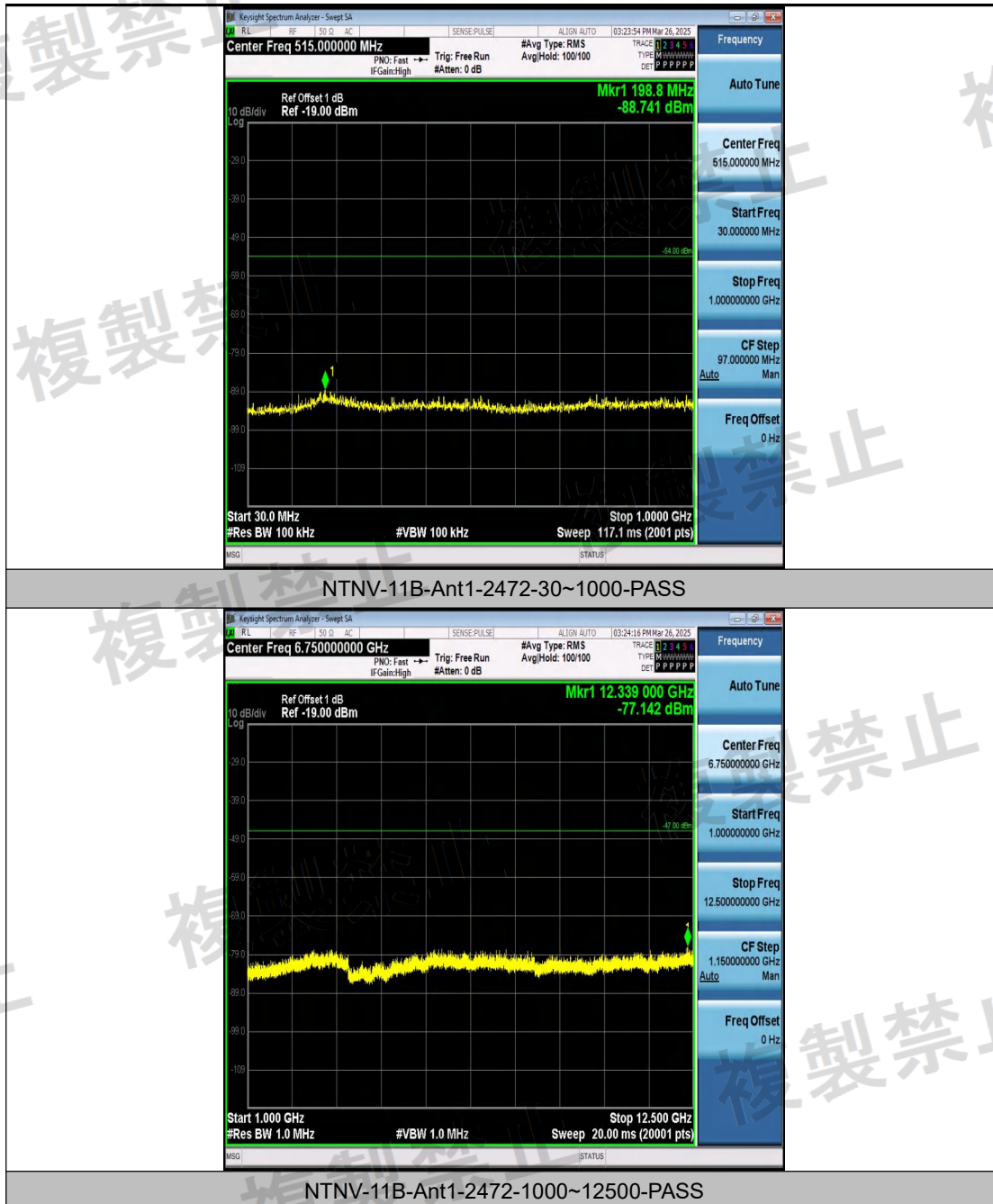
NTNV-11B-Ant1-2412-30~1000-PASS

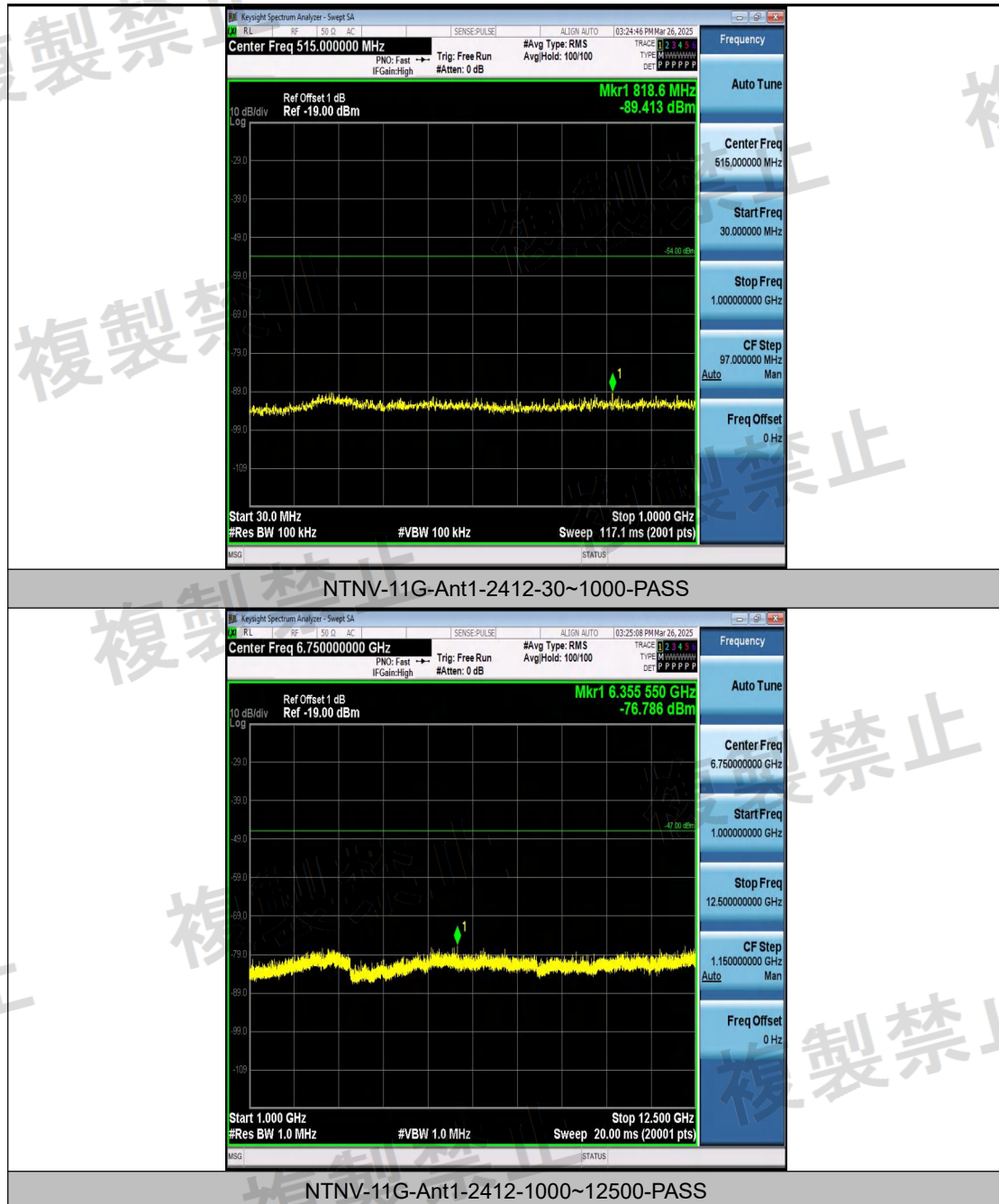


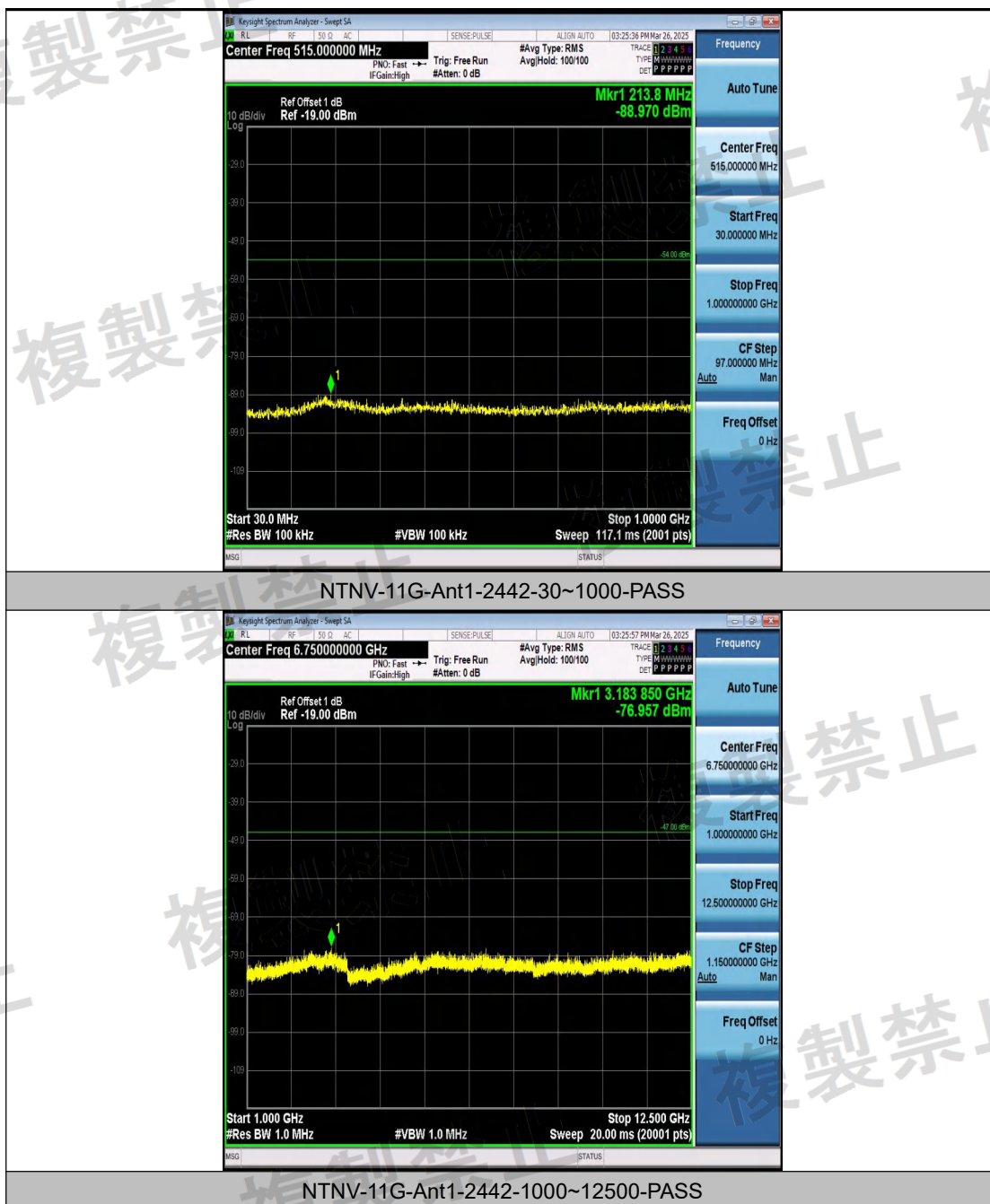
NTNV-11B-Ant1-2412-1000~12500-PASS

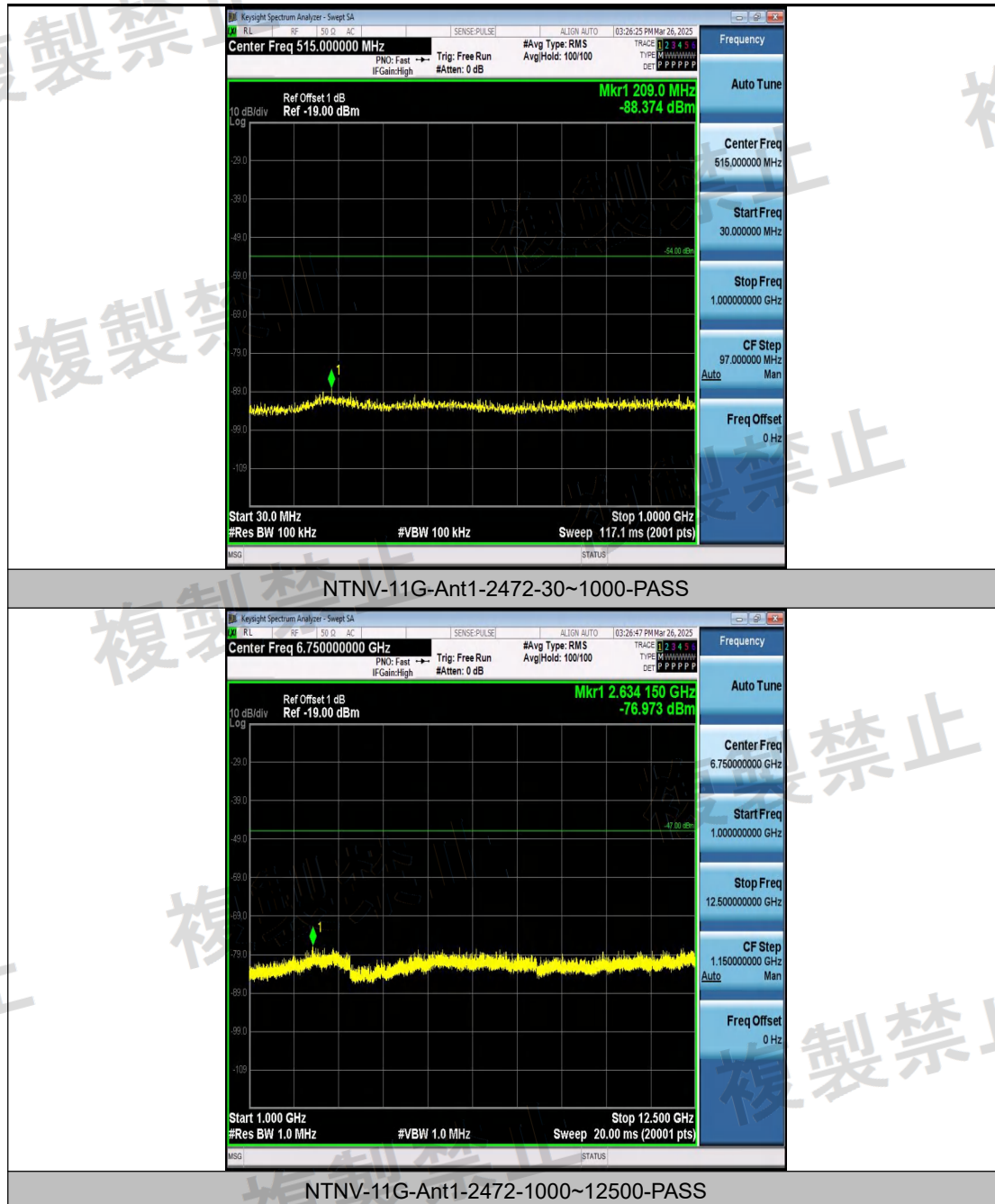


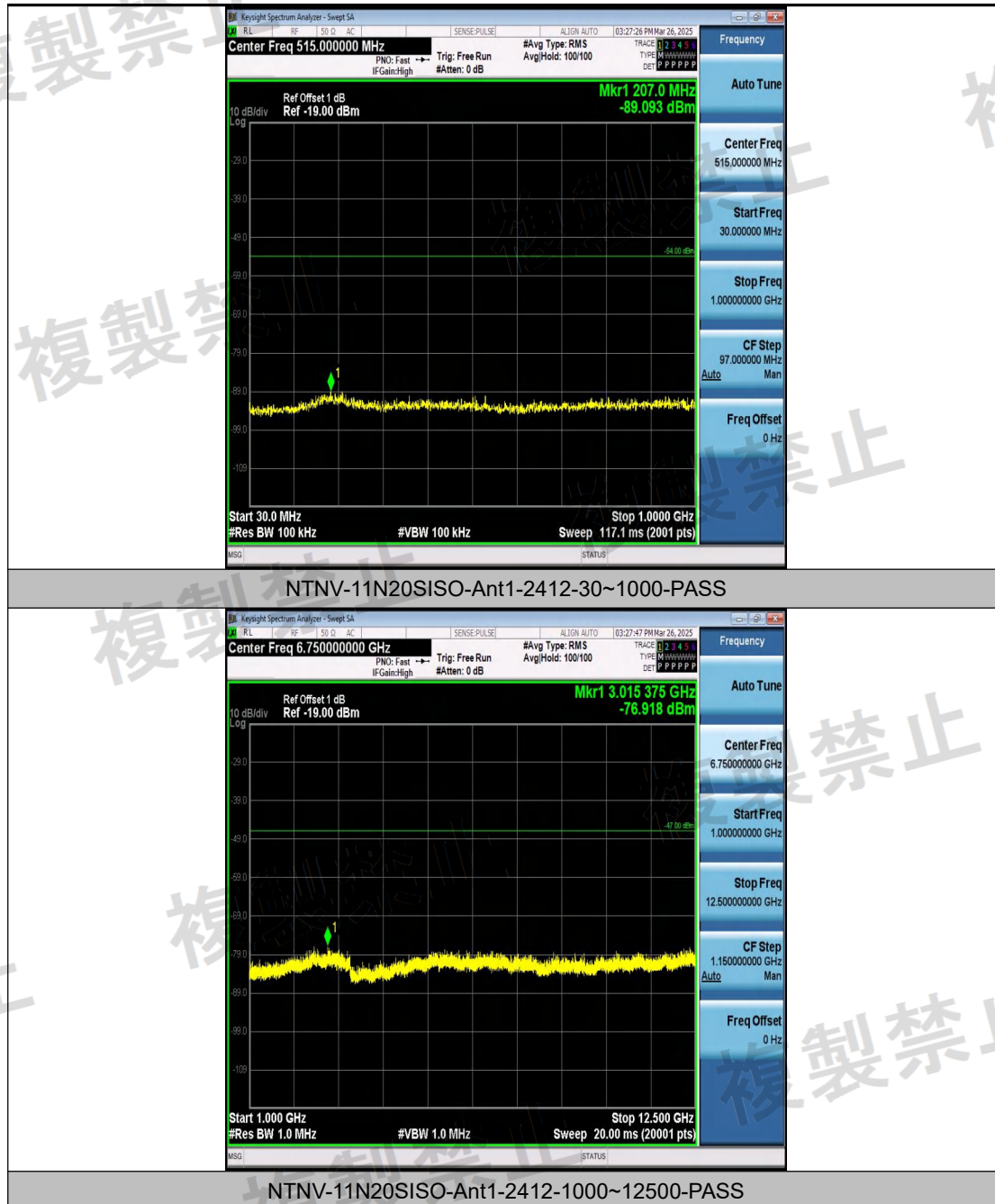


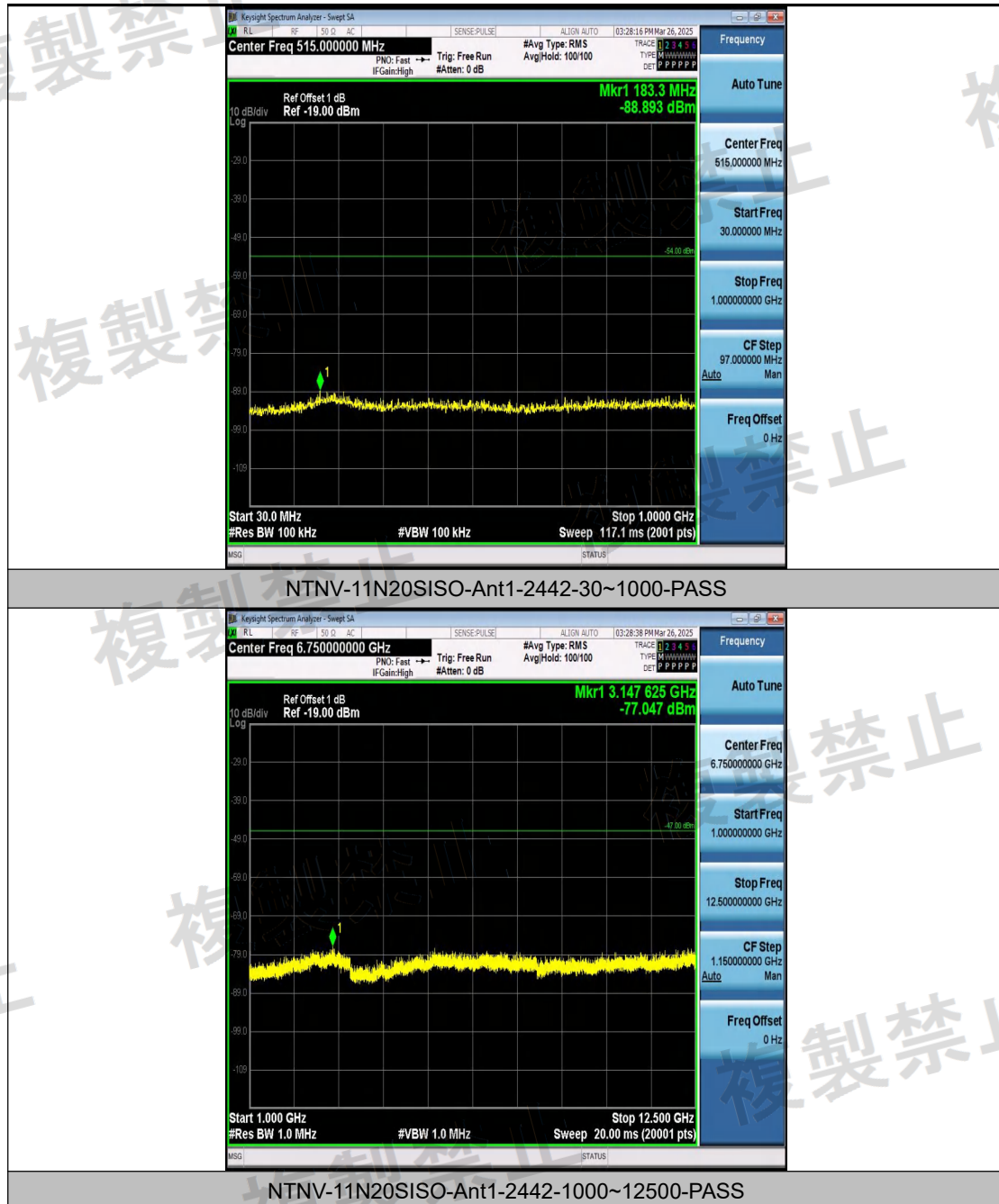


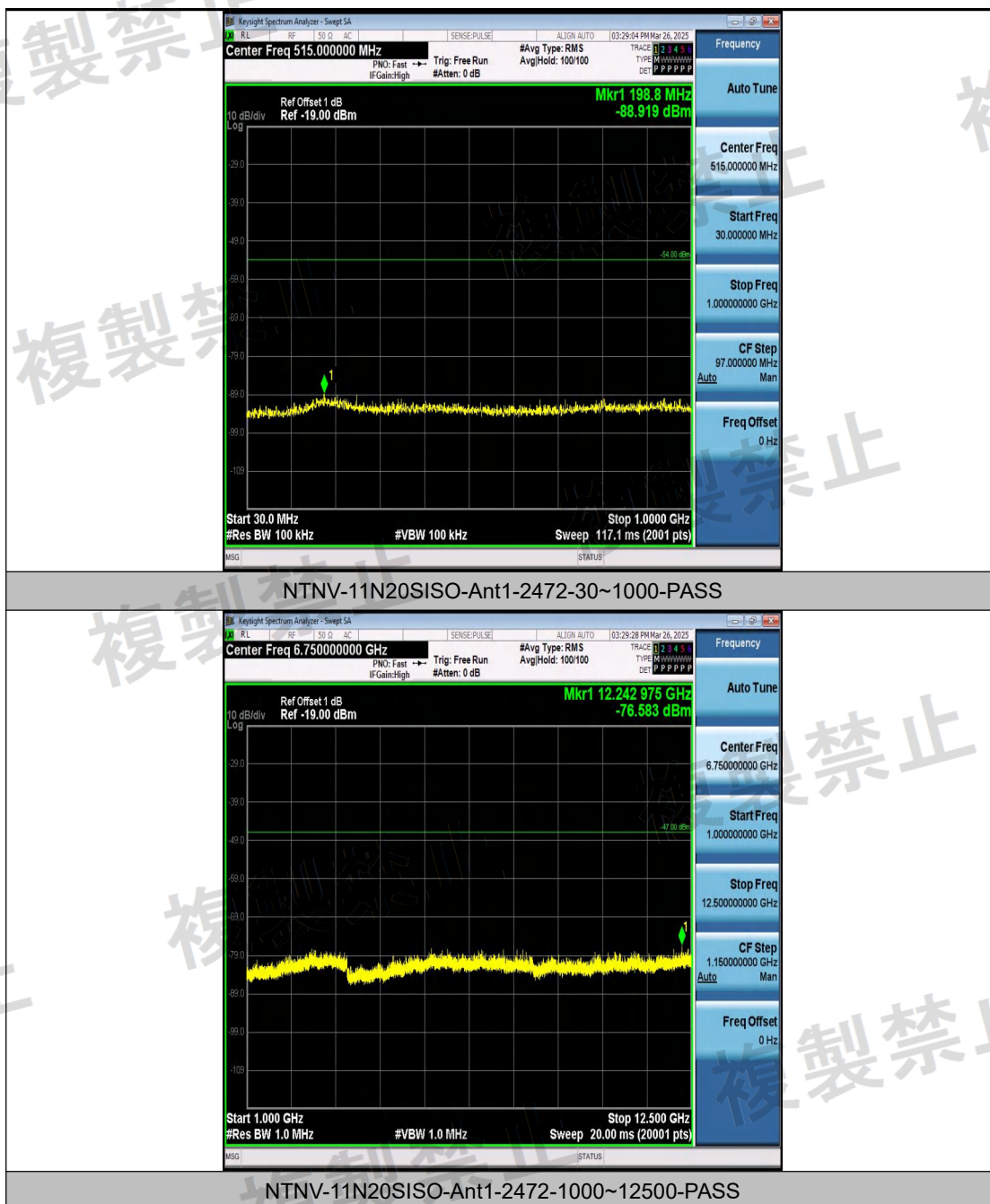












---End---

