

## Appendix RF Test Data for BR-EDR

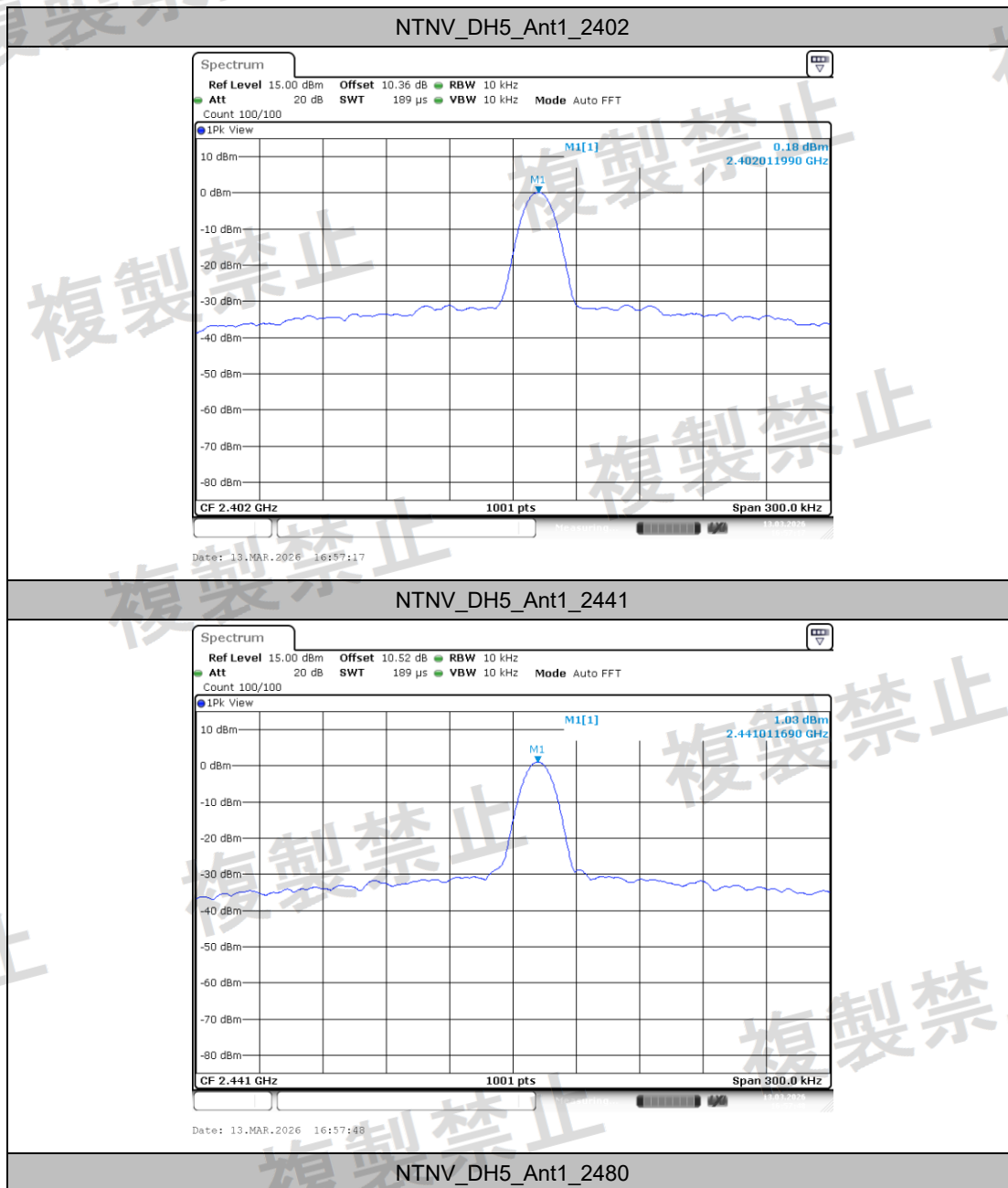
Company : Monomam,inc  
EUT : SmartWatch  
Model Number : Rotondo2  
Report No. : CTA26022600202  
Reviewed By : Eric Wang

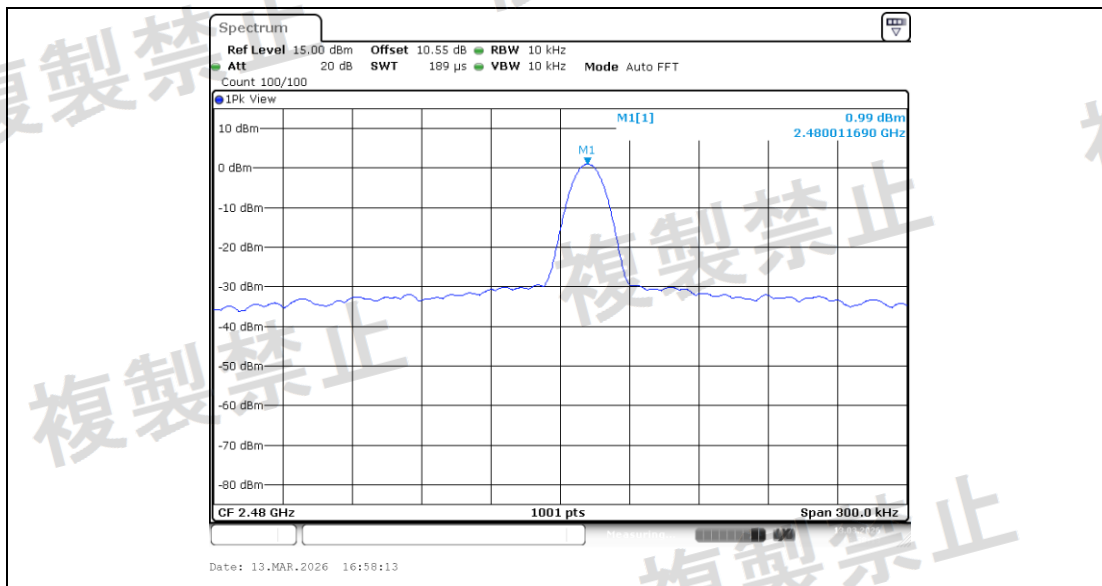
## Appendix A: Frequency\_Error

### Test Result

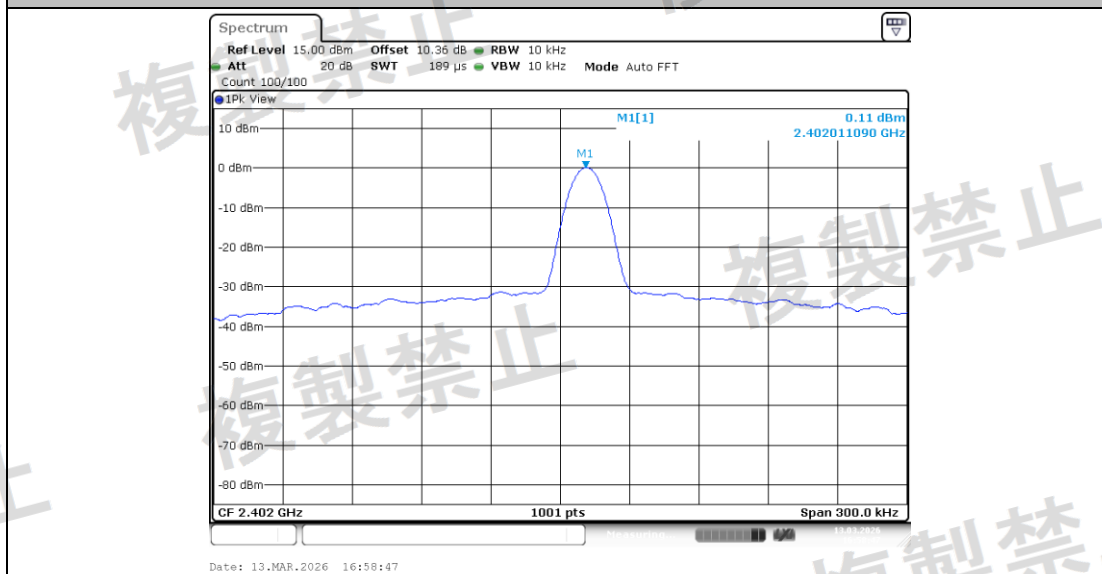
| Test Condition | Test Mode | Antenna | Freq(MHz) | Result[ppm] | Limit[ppm] | Verdict |
|----------------|-----------|---------|-----------|-------------|------------|---------|
| NTNV           | DH5       | Ant1    | 2402      | 4.99167     | ±50        | PASS    |
|                |           |         | 2441      | 4.78902     | ±50        | PASS    |
|                |           |         | 2480      | 4.71371     | ±50        | PASS    |
|                | 2DH5      | Ant1    | 2402      | 4.61699     | ±50        | PASS    |
|                |           |         | 2441      | 4.66612     | ±50        | PASS    |
|                |           |         | 2480      | 4.71371     | ±50        | PASS    |

## Test Graphs

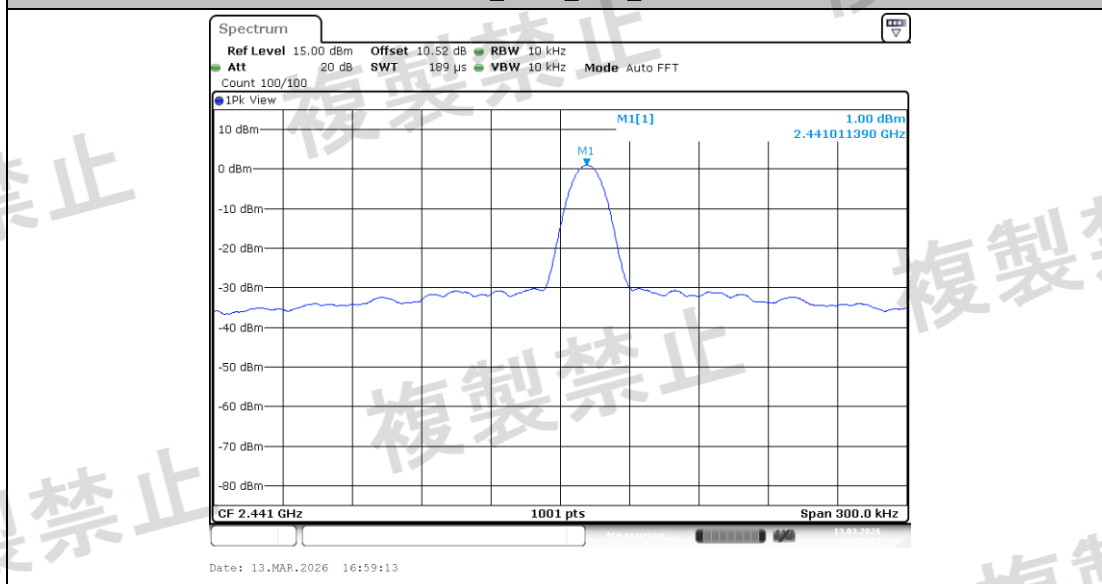


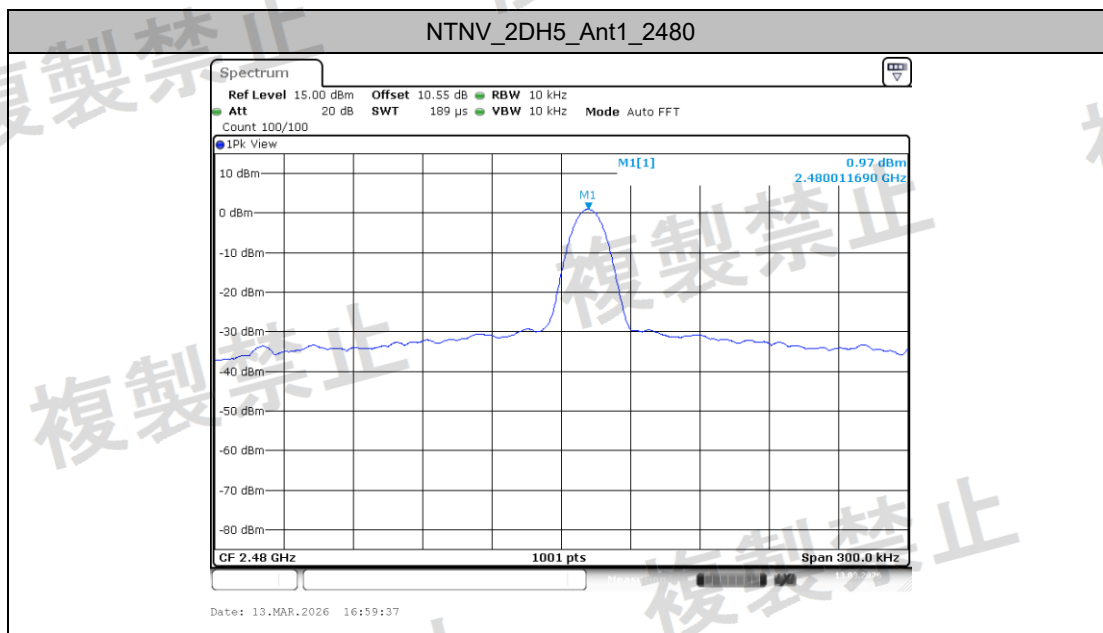


NTNV\_2DH5\_Ant1\_2402



NTNV\_2DH5\_Ant1\_2441



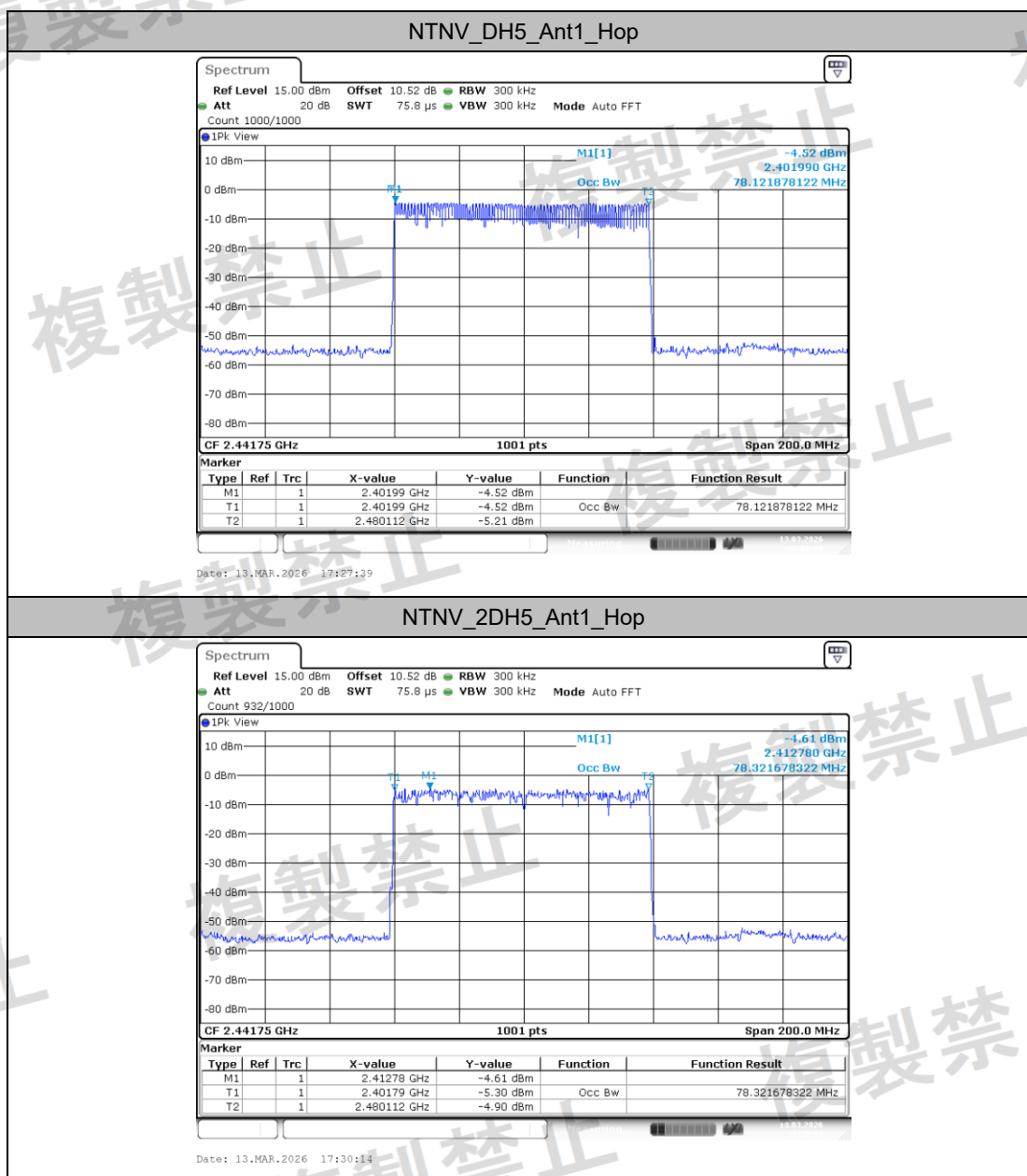


## Appendix B: Occupied Bandwidth

### Test Result

| Test Condition | Test Mode | Antenna | Freq(MHz) | Result [MHz] | Limit [MHz] | Verdict |
|----------------|-----------|---------|-----------|--------------|-------------|---------|
| NTNV           | DH5       | Ant1    | Hop       | 78.122       | ≤83.5       | PASS    |
|                | 2DH5      | Ant1    | Hop       | 78.322       | ≤83.5       | PASS    |

## Test Graphs

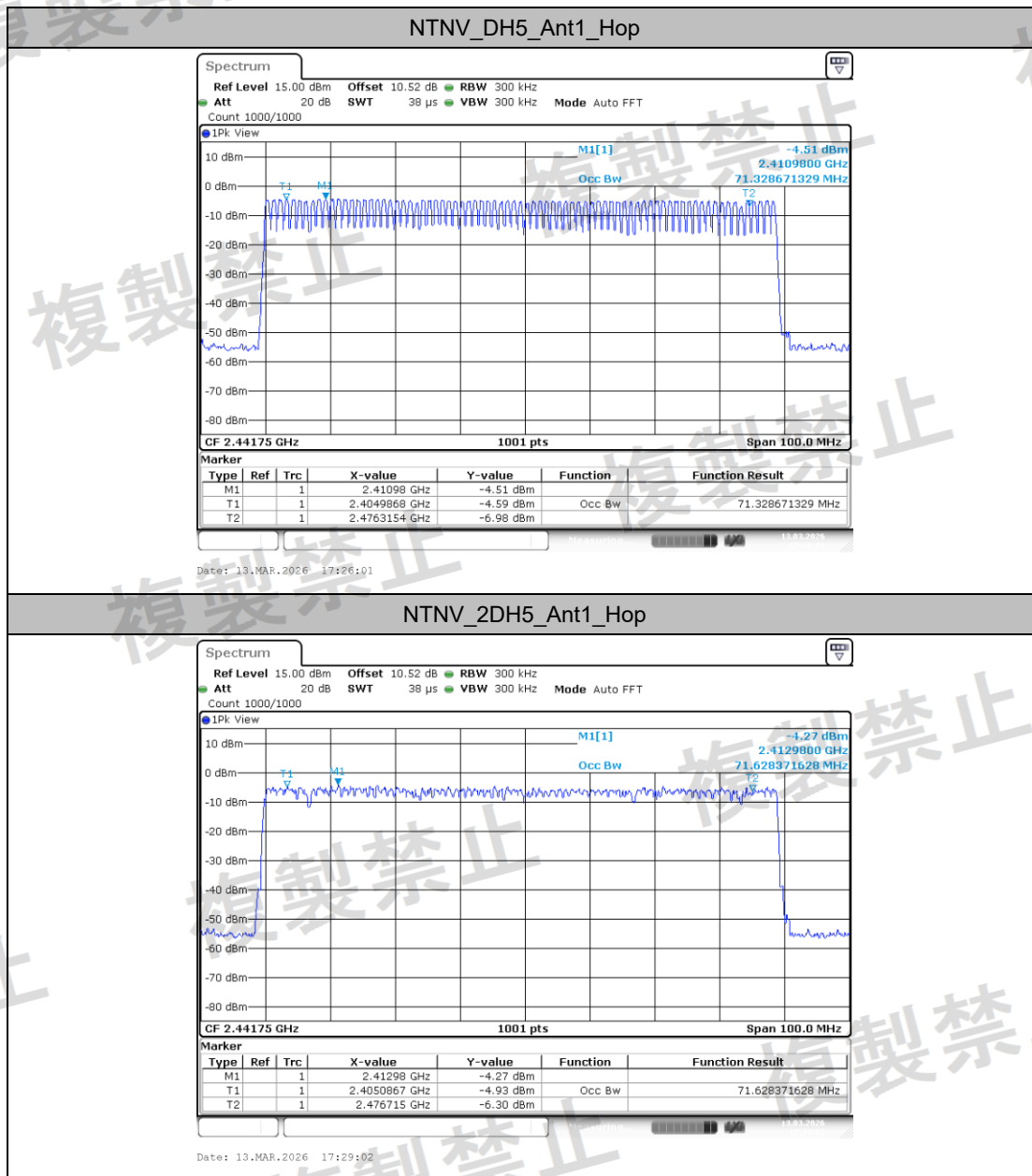


## Appendix C: Spread Bandwidth

### Test Result

| Test Condition | Test Mode | Antenna | Freq(MHz) | Result [MHz] | Limit [MHz] | Spread Factor | Limit | Verdict |
|----------------|-----------|---------|-----------|--------------|-------------|---------------|-------|---------|
| NTNV           | DH5       | Ant1    | Hop       | 71.329       | $\geq 0.5$  | 71.329        | >5    | PASS    |
|                | 2DH5      | Ant1    | Hop       | 71.628       | $\geq 0.5$  | 71.628        | >5    | PASS    |

## Test Graphs

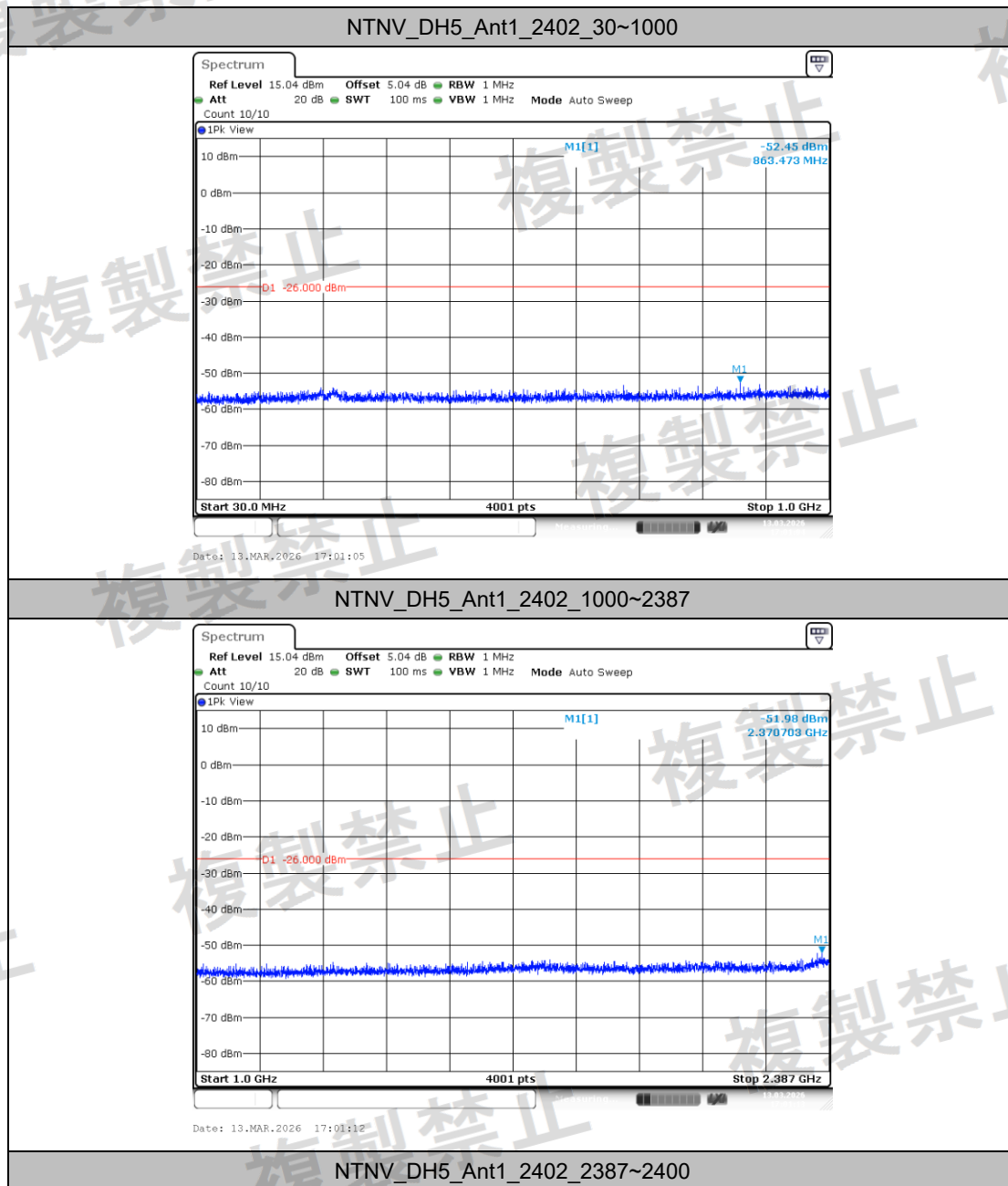


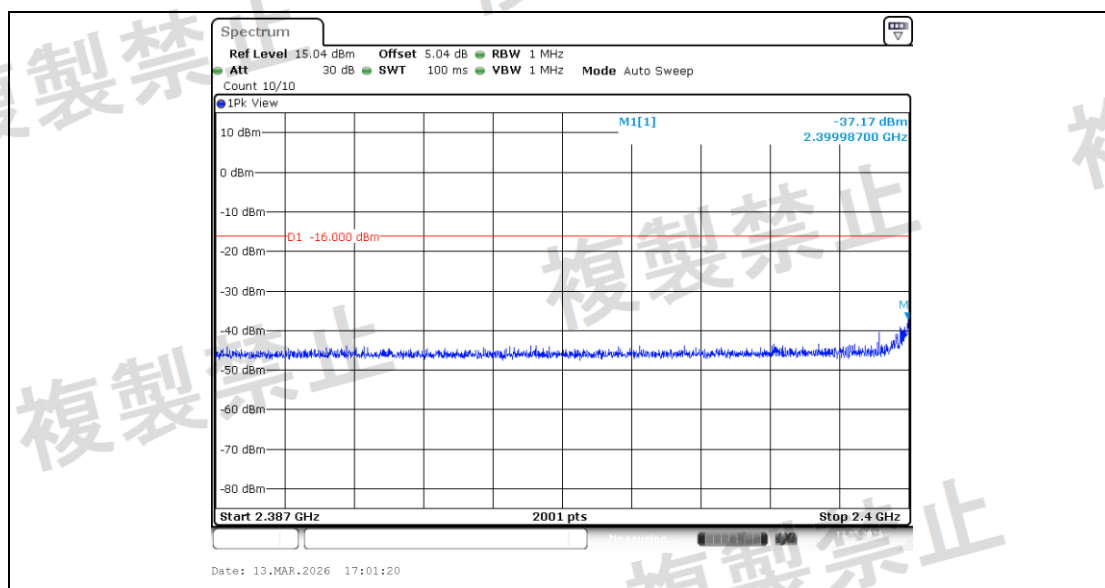
## Appendix D: Spurious Emission of TX

### Test Result

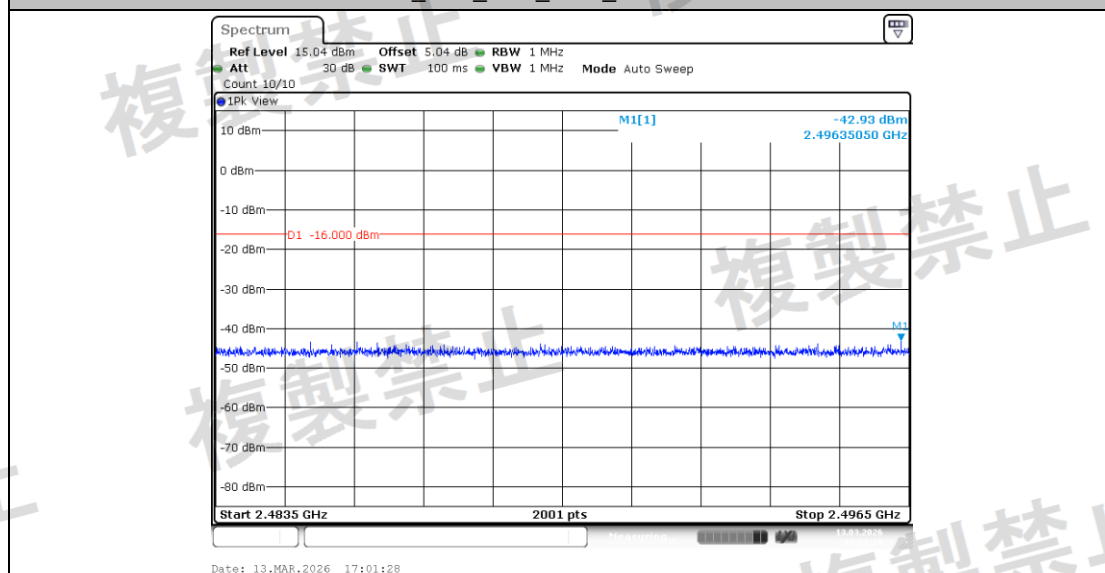
| Test Condition | Test Mode | Antenna | Freq(M Hz) | Freq.Range [MHz] | Freq. [MHz] | Result [dBm] | Limit [dBm] | Result [μW] | Limit [μW] | Verdict |
|----------------|-----------|---------|------------|------------------|-------------|--------------|-------------|-------------|------------|---------|
| NTNV           | DH5       | Ant1    | 2402       | 30~1000          | 863.47      | -52.45       | ≤-26        | 0.00569     | ≤2.5       | PASS    |
|                |           |         |            | 1000~2387        | 2370.70     | -51.98       | ≤-26        | 0.00634     | ≤2.5       | PASS    |
|                |           |         |            | 2387~2400        | 2399.99     | -37.17       | ≤-16        | 0.19187     | ≤25        | PASS    |
|                |           |         |            | 2483.5~2496.5    | 2496.35     | -42.93       | ≤-16        | 0.05093     | ≤25        | PASS    |
|                |           |         |            | 2496.5~13000     | 5219.53     | -44.13       | ≤-26        | 0.03864     | ≤2.5       | PASS    |
|                |           |         | 2441       | 30~1000          | 980.60      | -52.96       | ≤-26        | 0.00506     | ≤2.5       | PASS    |
|                |           |         |            | 1000~2387        | 2228.88     | -53.50       | ≤-26        | 0.00447     | ≤2.5       | PASS    |
|                |           |         |            | 2387~2400        | 2388.14     | -43.31       | ≤-16        | 0.04667     | ≤25        | PASS    |
|                |           |         |            | 2483.5~2496.5    | 2494.11     | -43.35       | ≤-16        | 0.04624     | ≤25        | PASS    |
|                |           |         |            | 2496.5~13000     | 4881.84     | -45.16       | ≤-26        | 0.03048     | ≤2.5       | PASS    |
|                |           |         | 2480       | 30~1000          | 861.78      | -53.14       | ≤-26        | 0.00485     | ≤2.5       | PASS    |
|                |           |         |            | 1000~2387        | 1752.79     | -54.11       | ≤-26        | 0.00388     | ≤2.5       | PASS    |
|                |           |         |            | 2387~2400        | 2393.62     | -43.74       | ≤-16        | 0.04227     | ≤25        | PASS    |
|                |           |         |            | 2483.5~2496.5    | 2485.69     | -42.88       | ≤-16        | 0.05152     | ≤25        | PASS    |
|                |           |         |            | 2496.5~13000     | 4959.57     | -45.21       | ≤-26        | 0.03013     | ≤2.5       | PASS    |
|                | 2DH5      | Ant1    | 2402       | 30~1000          | 238.07      | -52.58       | ≤-26        | 0.00552     | ≤2.5       | PASS    |
|                |           |         |            | 1000~2387        | 2355.79     | -52.71       | ≤-26        | 0.00536     | ≤2.5       | PASS    |
|                |           |         |            | 2387~2400        | 2400.00     | -30.62       | ≤-16        | 0.86696     | ≤25        | PASS    |
|                |           |         |            | 2483.5~2496.5    | 2484.33     | -43.31       | ≤-16        | 0.04667     | ≤25        | PASS    |
|                |           |         |            | 2496.5~13000     | 4803.59     | -45.28       | ≤-26        | 0.02965     | ≤2.5       | PASS    |
|                |           |         | 2441       | 30~1000          | 239.04      | -52.52       | ≤-26        | 0.00560     | ≤2.5       | PASS    |
|                |           |         |            | 1000~2387        | 2386.31     | -53.38       | ≤-26        | 0.00459     | ≤2.5       | PASS    |
|                |           |         |            | 2387~2400        | 2387.12     | -43.21       | ≤-16        | 0.04775     | ≤25        | PASS    |
|                |           |         |            | 2483.5~2496.5    | 2491.27     | -43.39       | ≤-16        | 0.04581     | ≤25        | PASS    |
|                |           |         |            | 2496.5~13000     | 4881.84     | -44.91       | ≤-26        | 0.03228     | ≤2.5       | PASS    |
|                |           |         | 2480       | 30~1000          | 898.88      | -53.13       | ≤-26        | 0.00486     | ≤2.5       | PASS    |
|                |           |         |            | 1000~2387        | 1917.15     | -53.56       | ≤-26        | 0.00441     | ≤2.5       | PASS    |
|                |           |         |            | 2387~2400        | 2398.63     | -42.95       | ≤-16        | 0.05070     | ≤25        | PASS    |
|                |           |         |            | 2483.5~2496.5    | 2484.42     | -43.06       | ≤-16        | 0.04943     | ≤25        | PASS    |
|                |           |         |            | 2496.5~13000     | 5217.43     | -41.88       | ≤-26        | 0.06486     | ≤2.5       | PASS    |

## Test Graphs

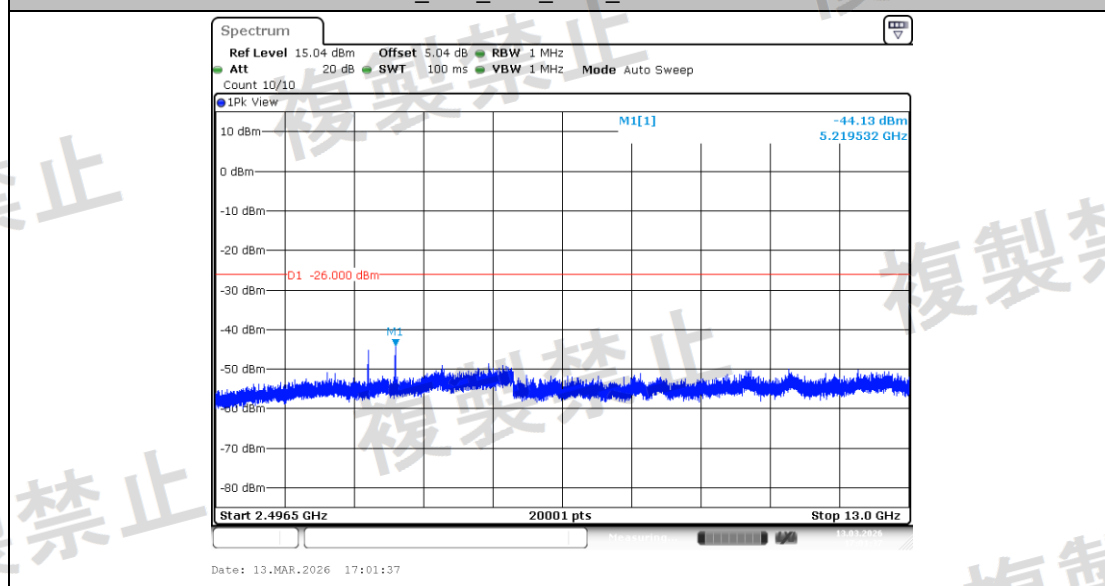


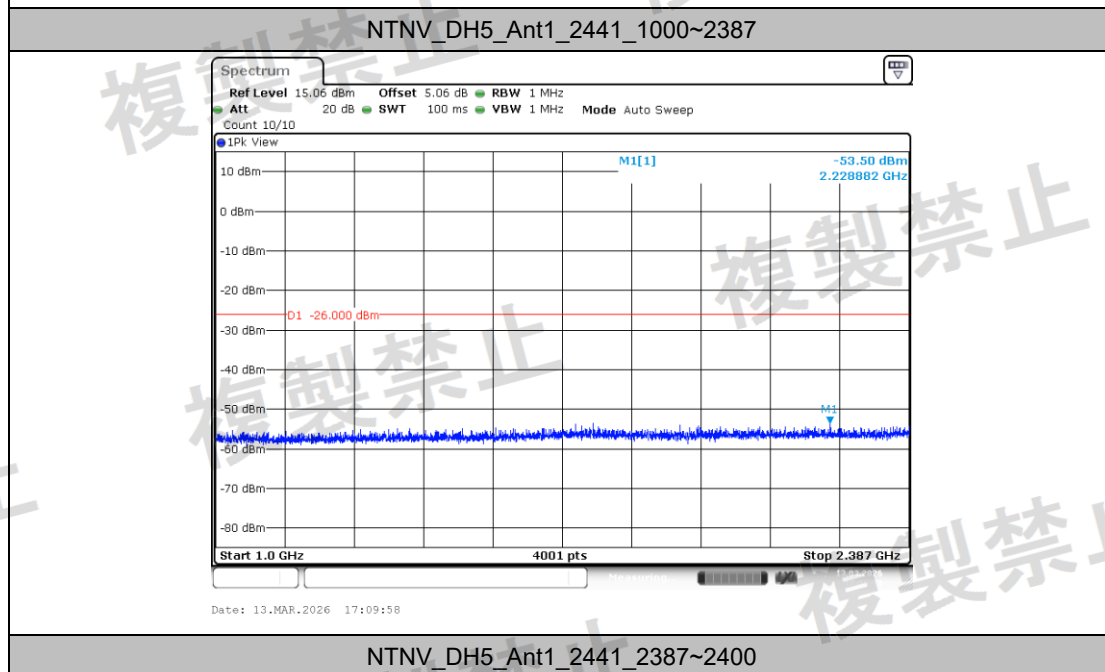
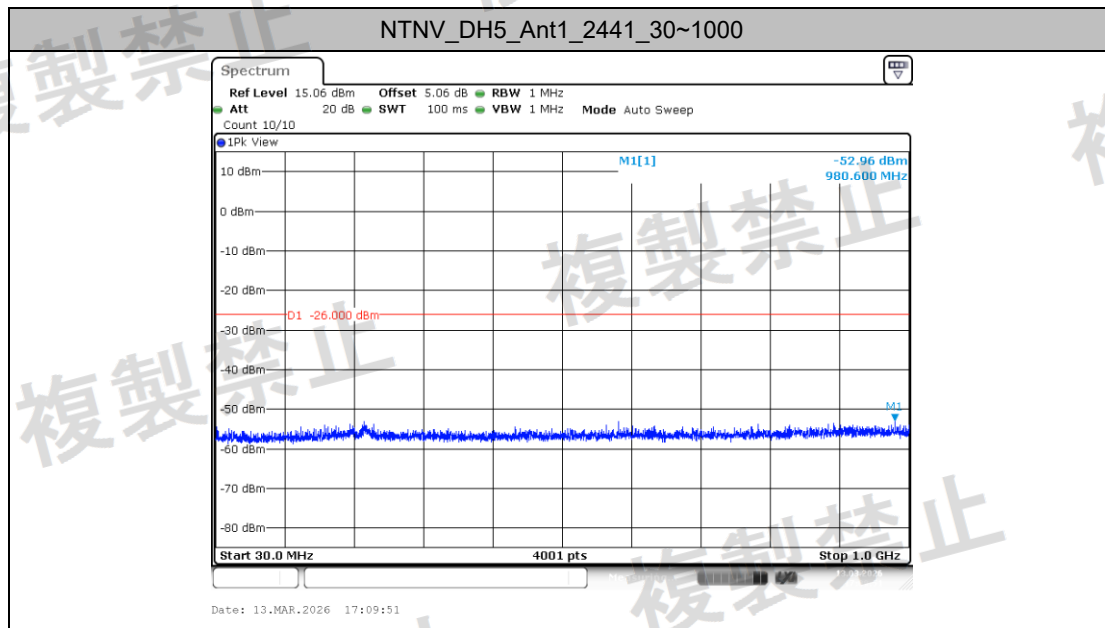


NTNV\_DH5\_Ant1\_2402\_2483.5~2496.5

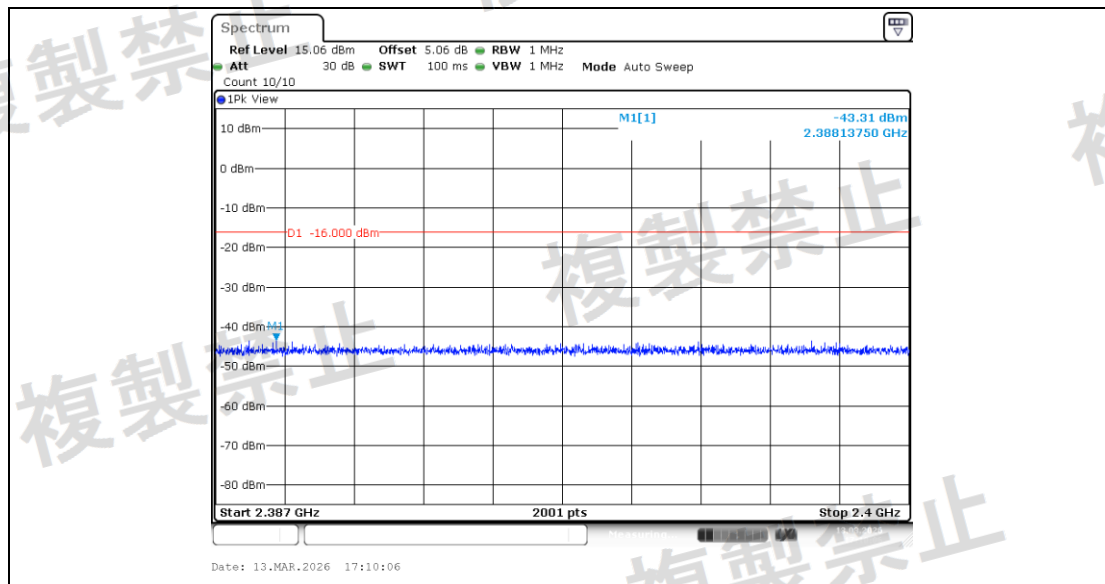


NTNV\_DH5\_Ant1\_2402\_2496.5~13000

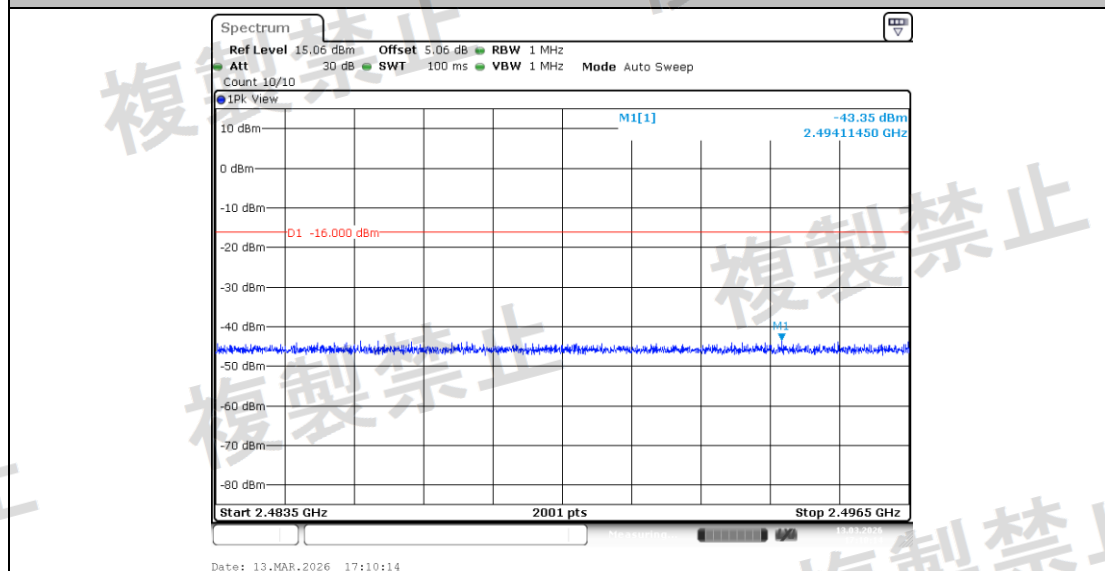




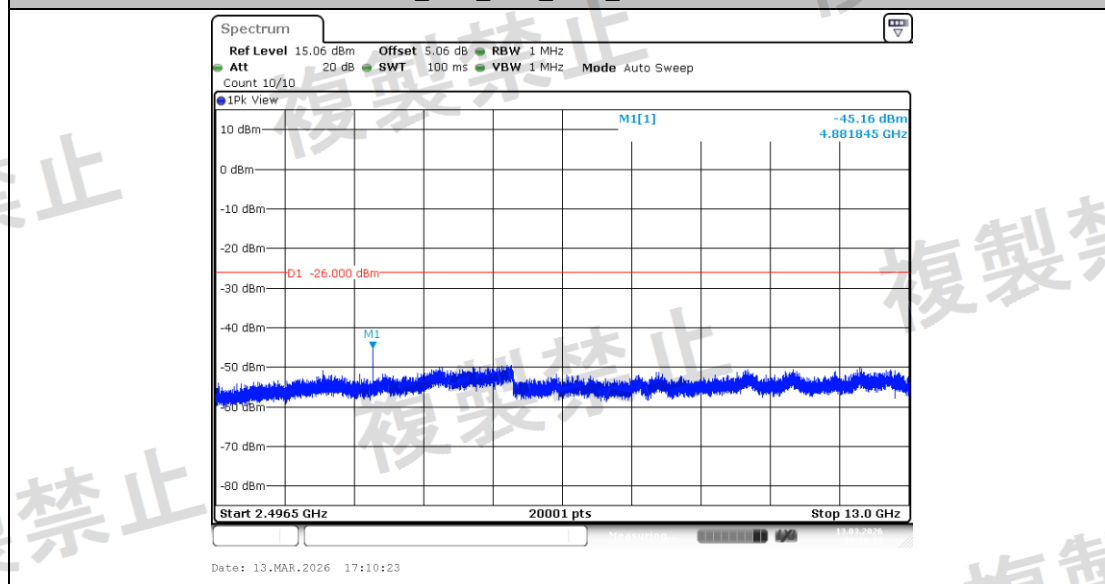
NTNV\_DH5\_Ant1\_2441\_2387~2400

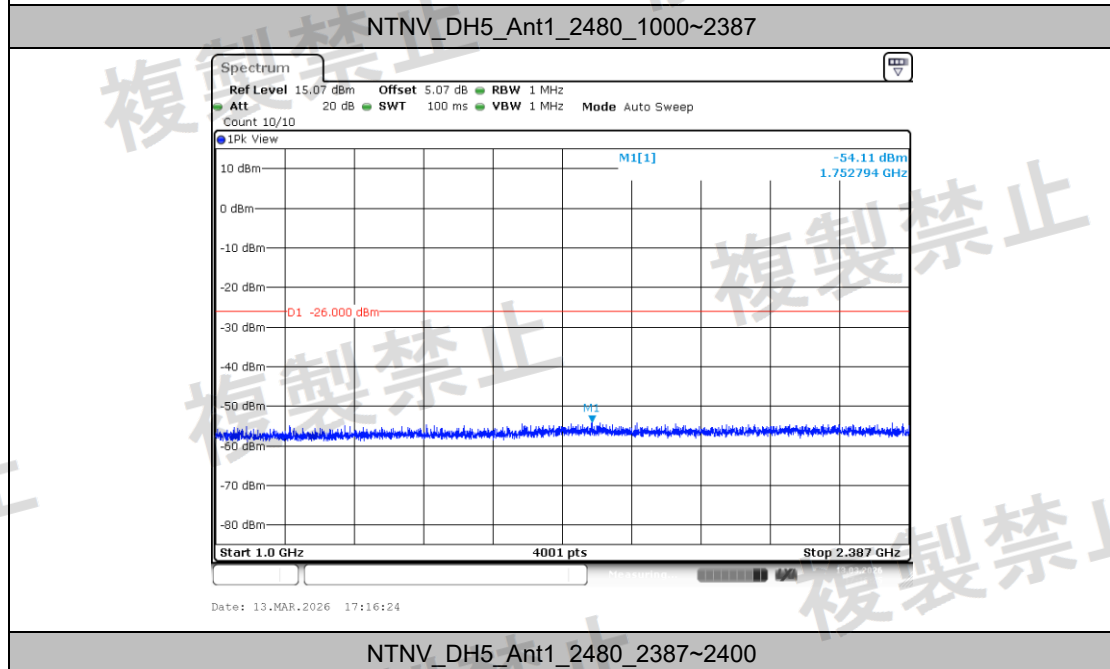
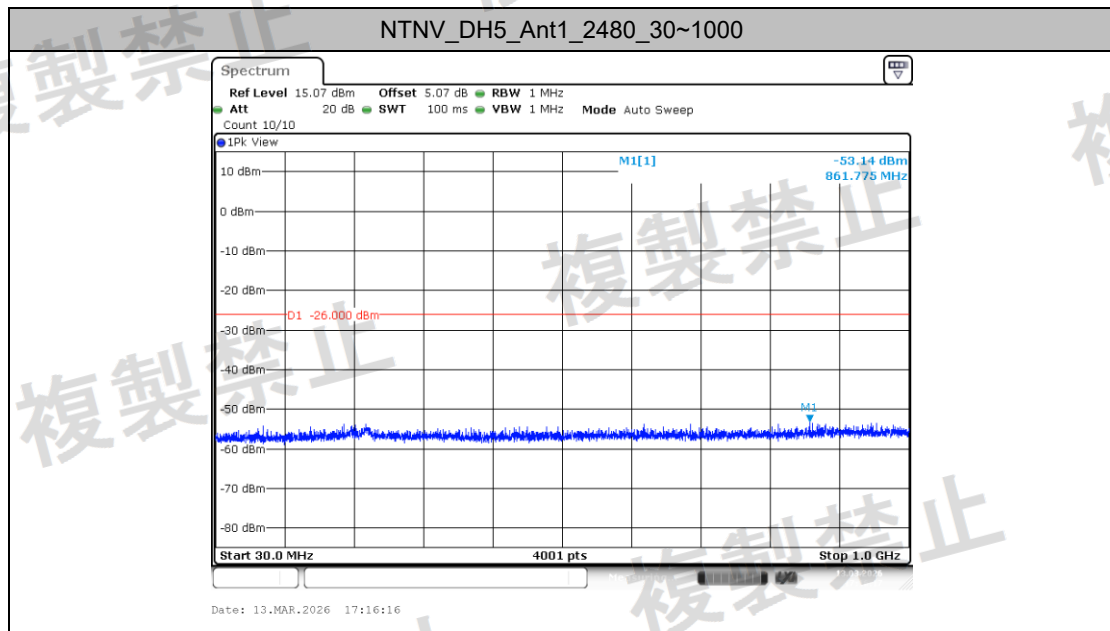


NTNV\_DH5\_Ant1\_2441\_2483.5~2496.5

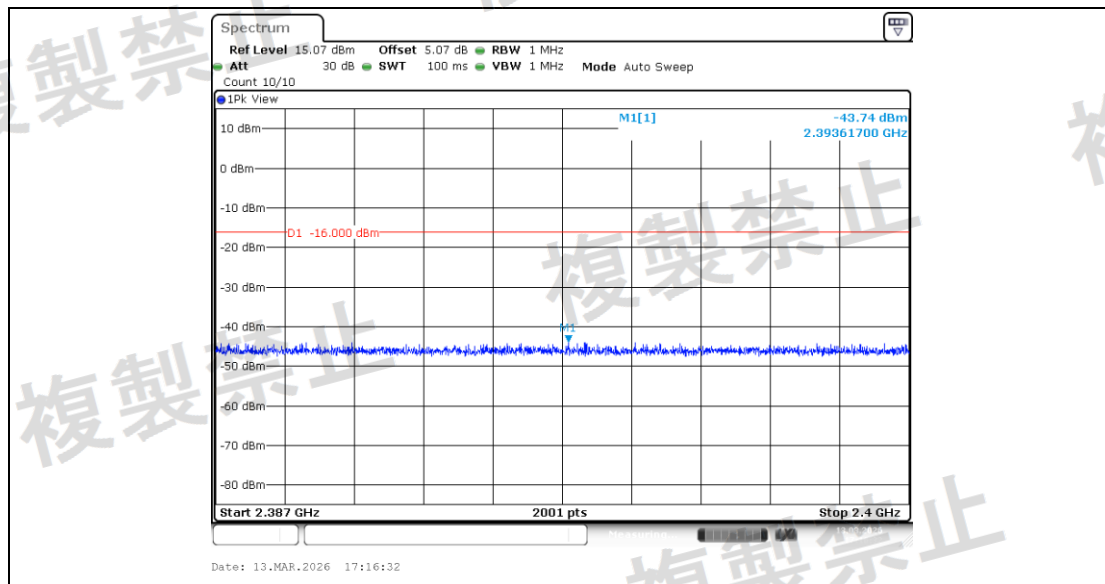


NTNV\_DH5\_Ant1\_2441\_2496.5~13000

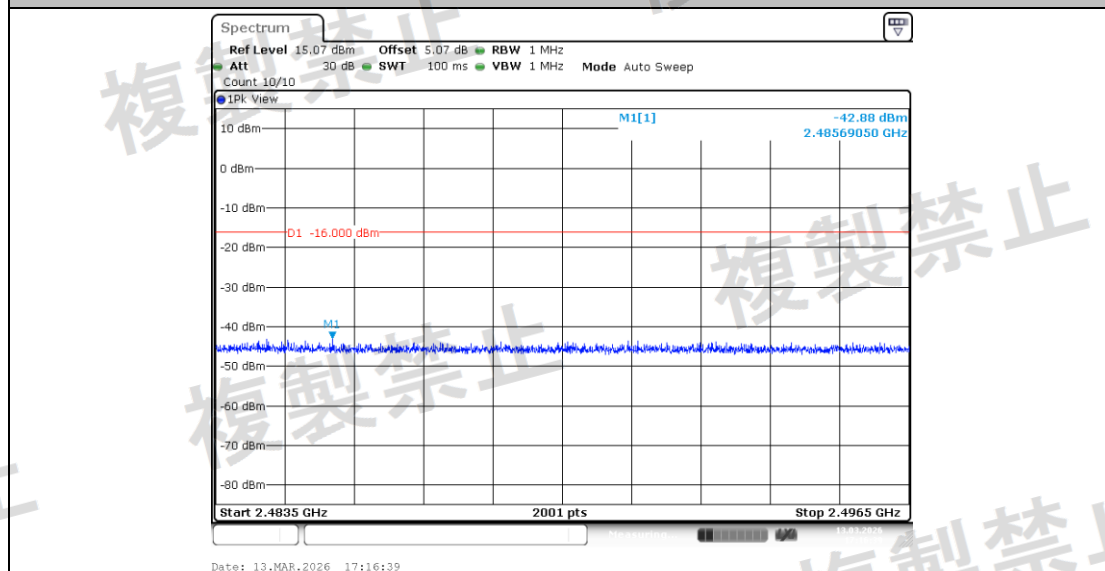




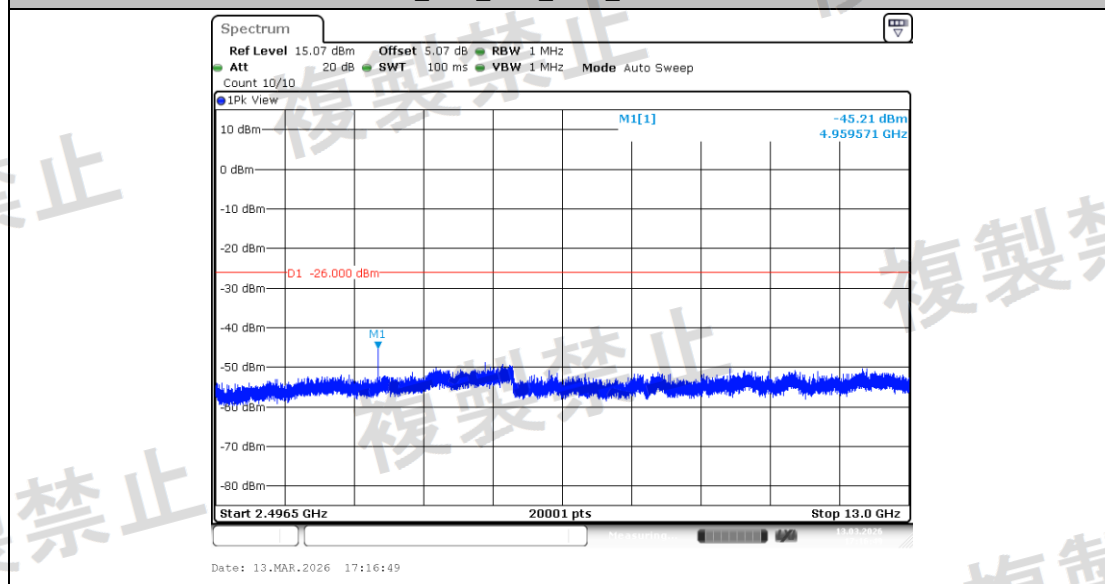
NTNV\_DH5\_Ant1\_2480\_2387~2400

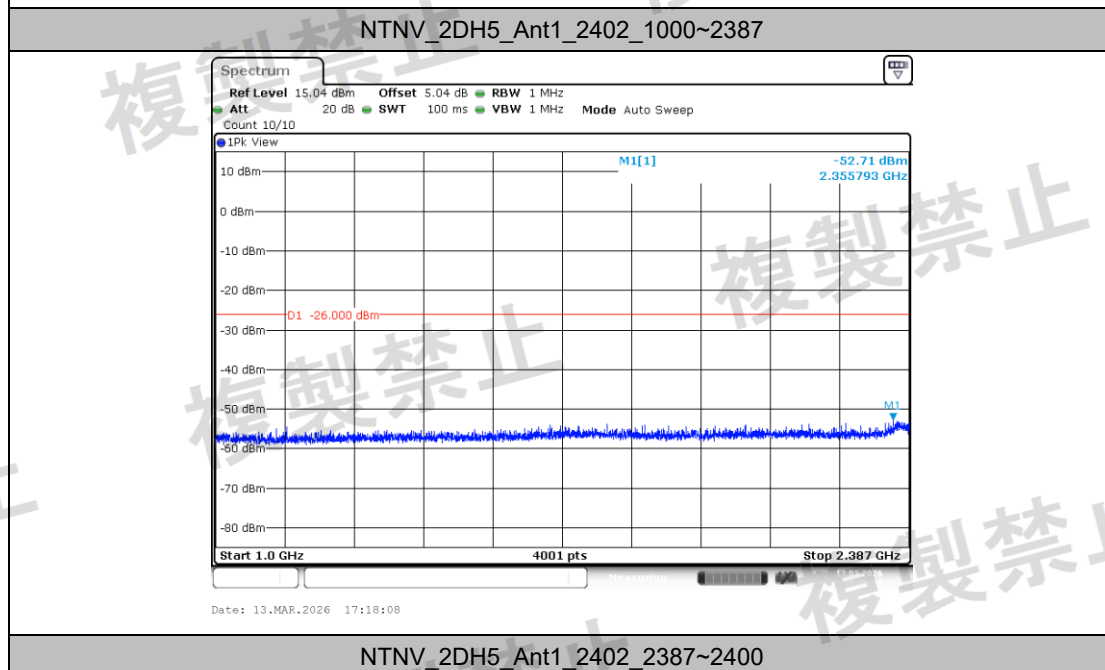
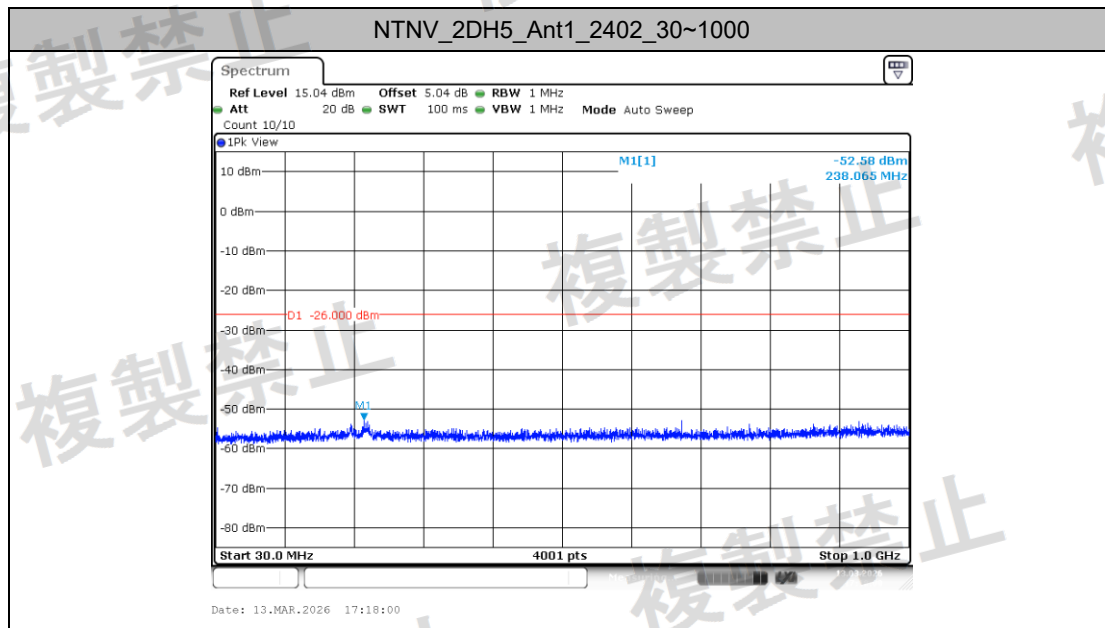


NTNV\_DH5\_Ant1\_2480\_2483.5~2496.5

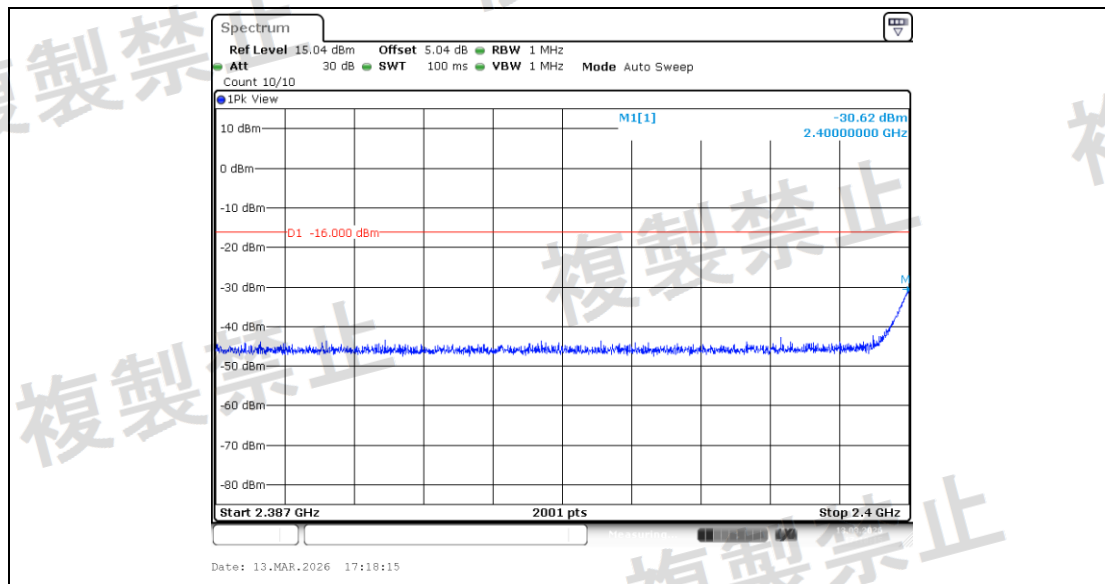


NTNV\_DH5\_Ant1\_2480\_2496.5~13000

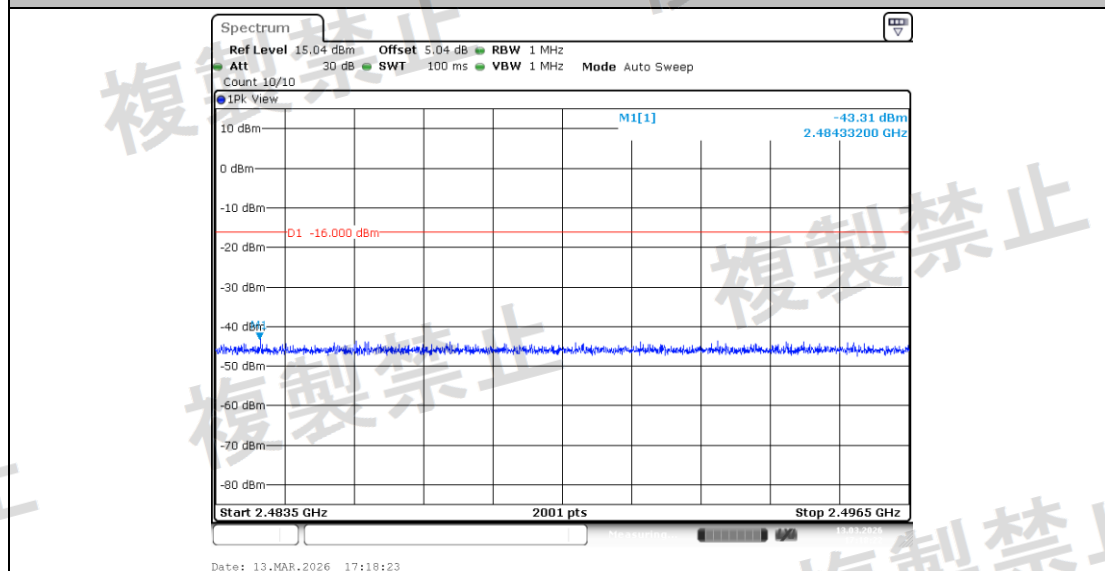




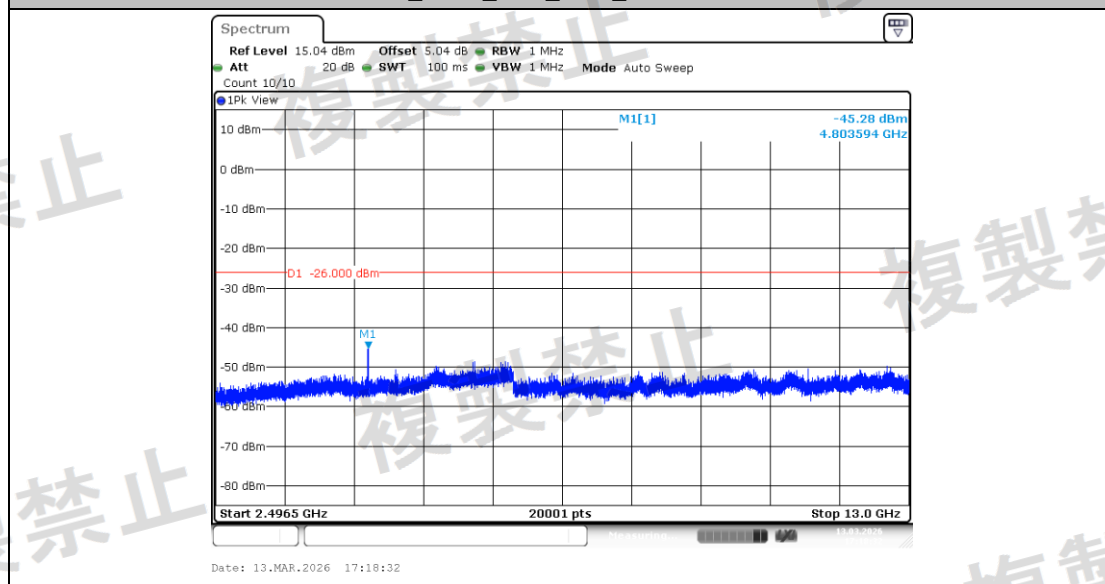
NTNV\_2DH5\_Ant1\_2402\_2387~2400

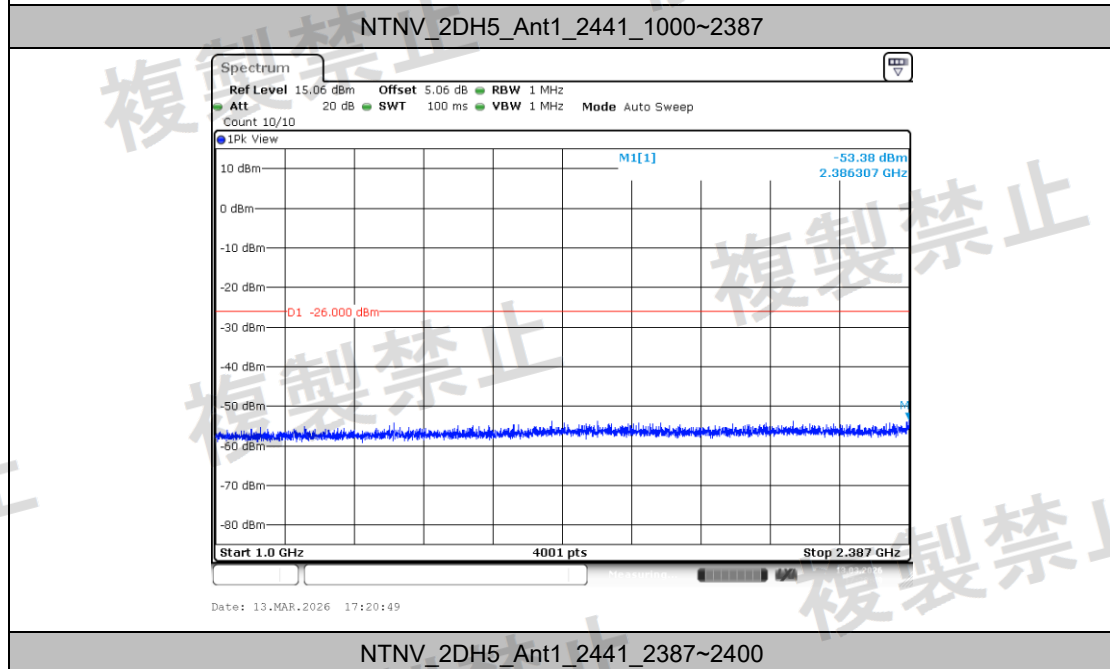
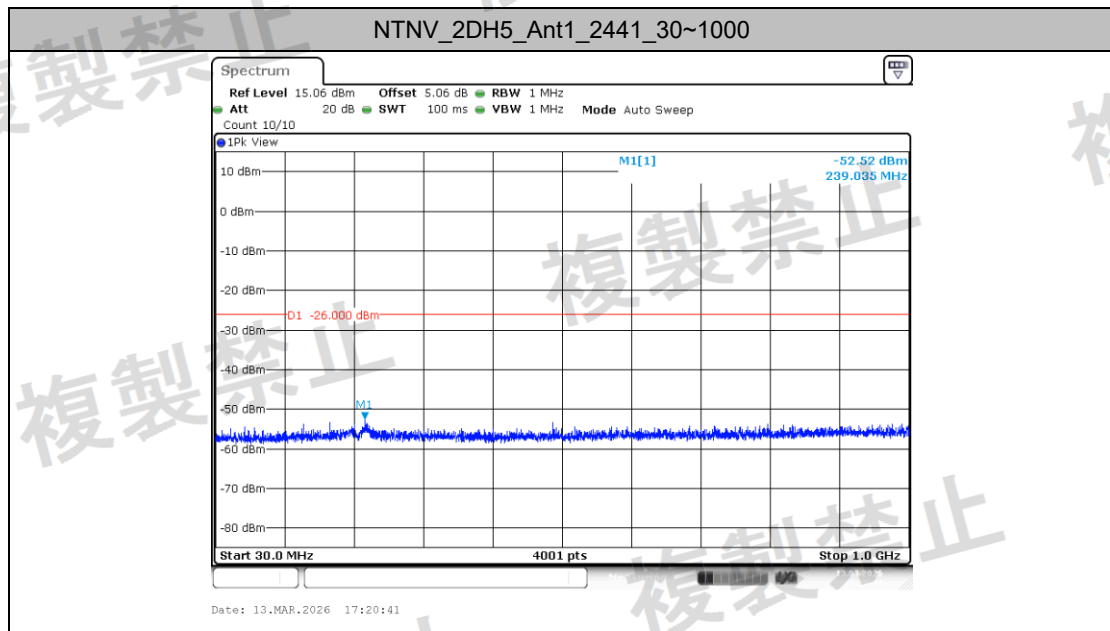


NTNV\_2DH5\_Ant1\_2402\_2483.5~2496.5

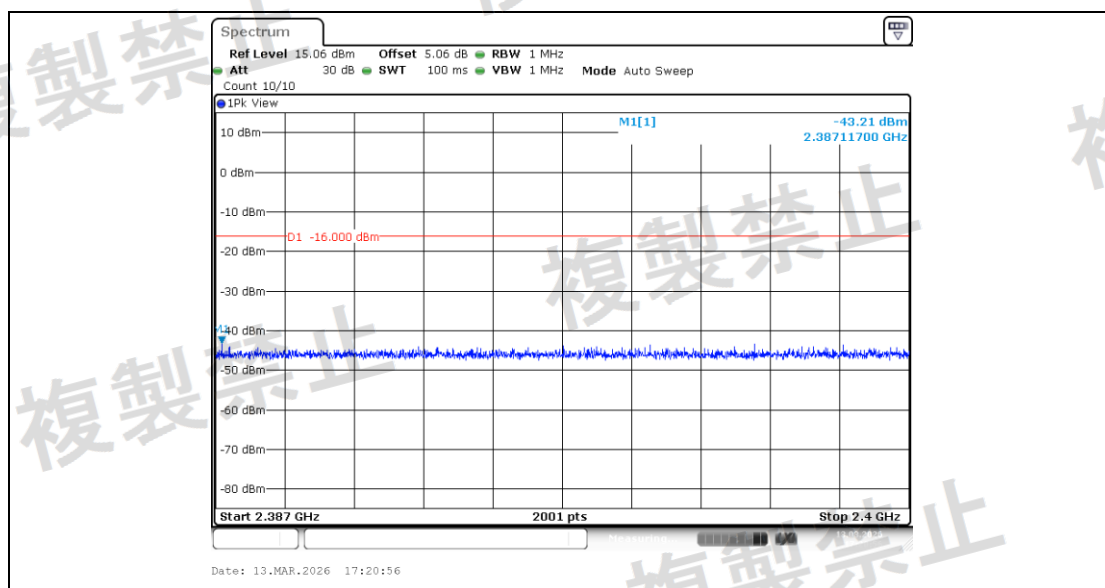


NTNV\_2DH5\_Ant1\_2402\_2496.5~13000

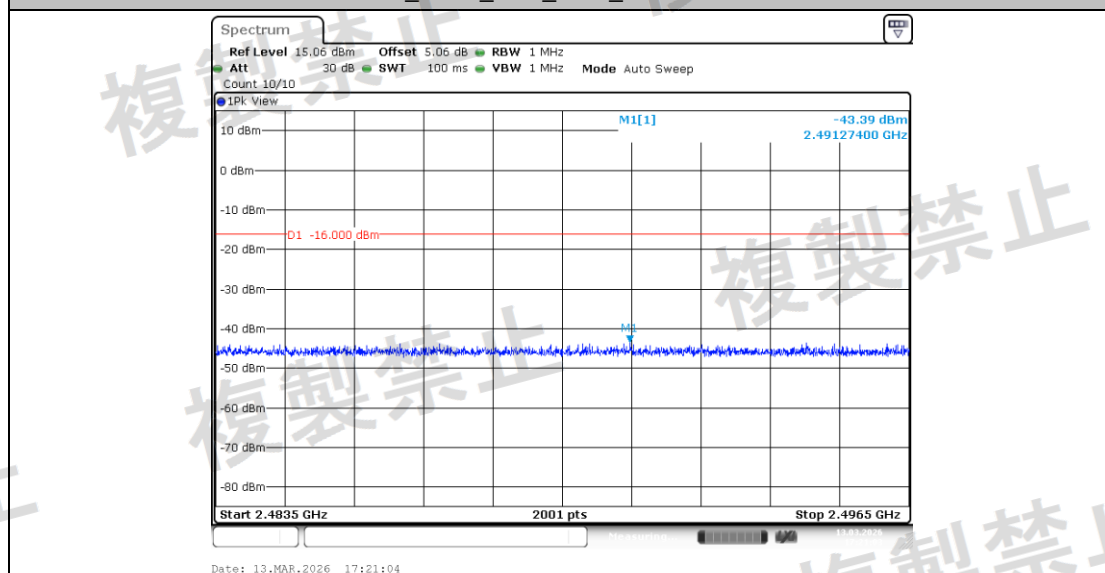




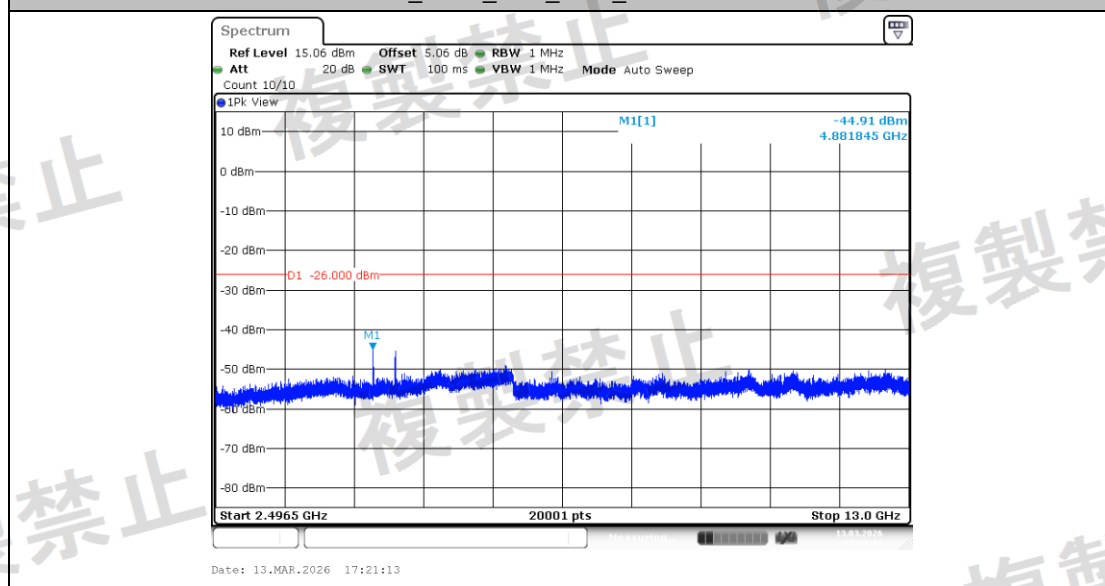
NTNV\_2DH5\_Ant1\_2441\_2387~2400

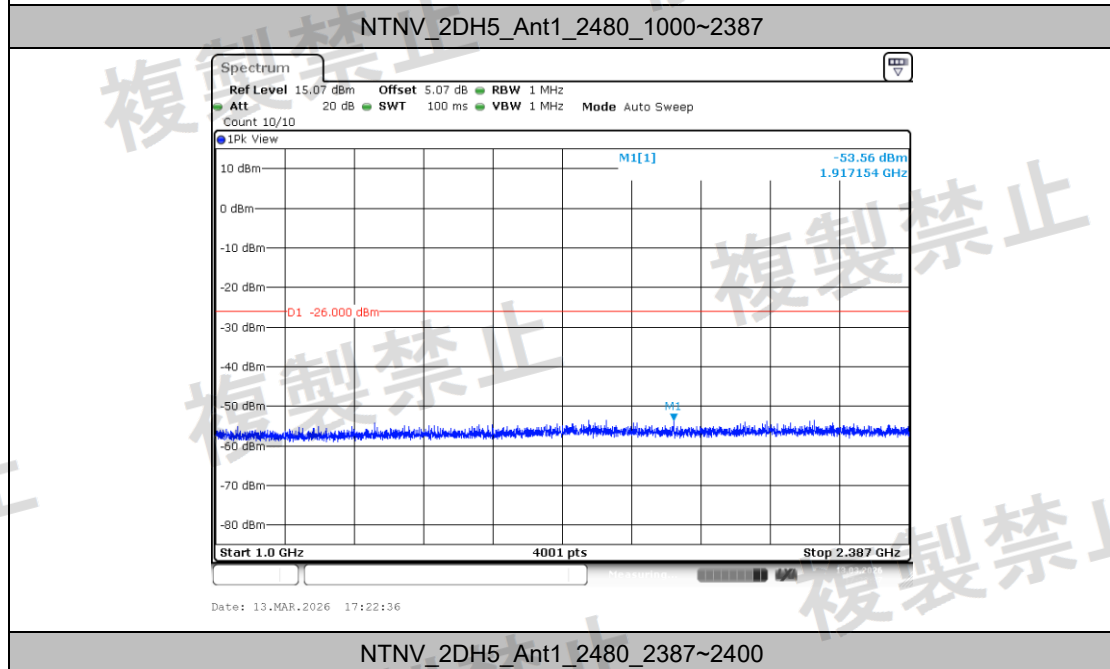
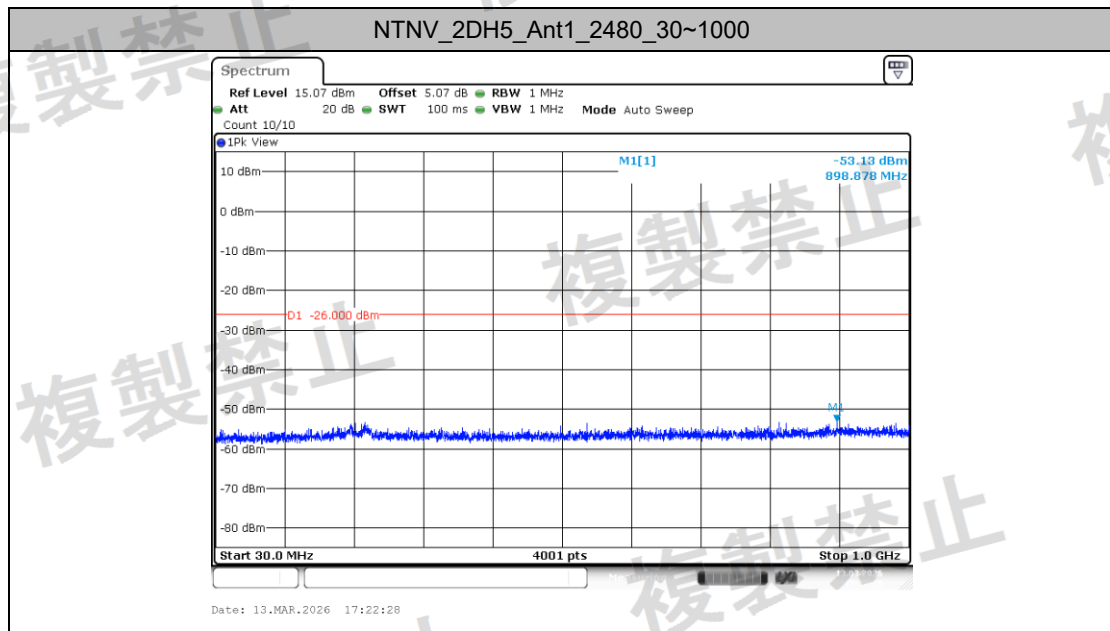


NTVN\_2DH5\_Ant1\_2441\_2483.5~2496.5

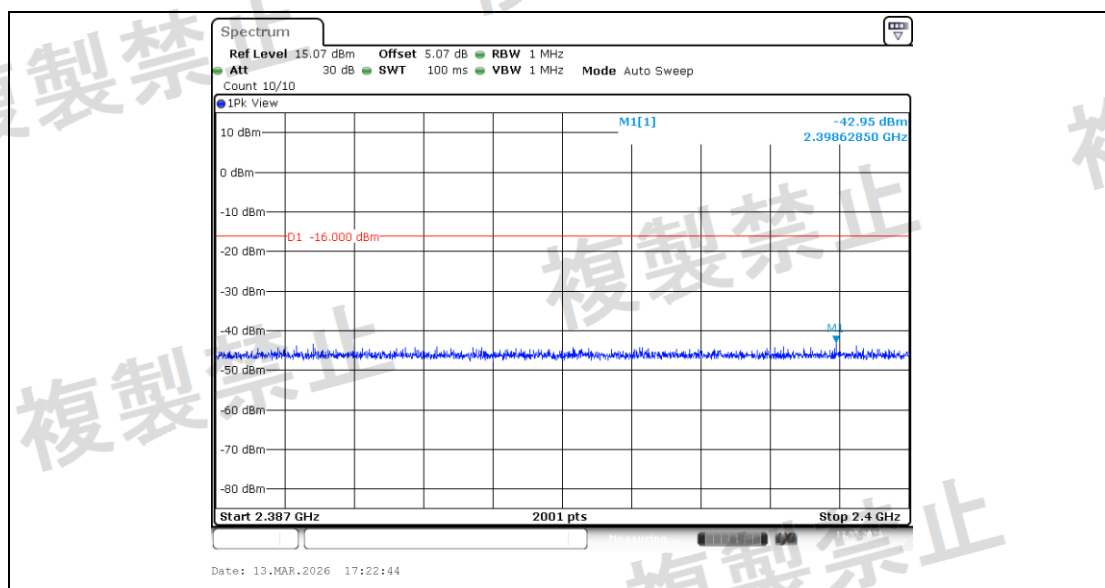


NTVN\_2DH5\_Ant1\_2441\_2496.5~13000

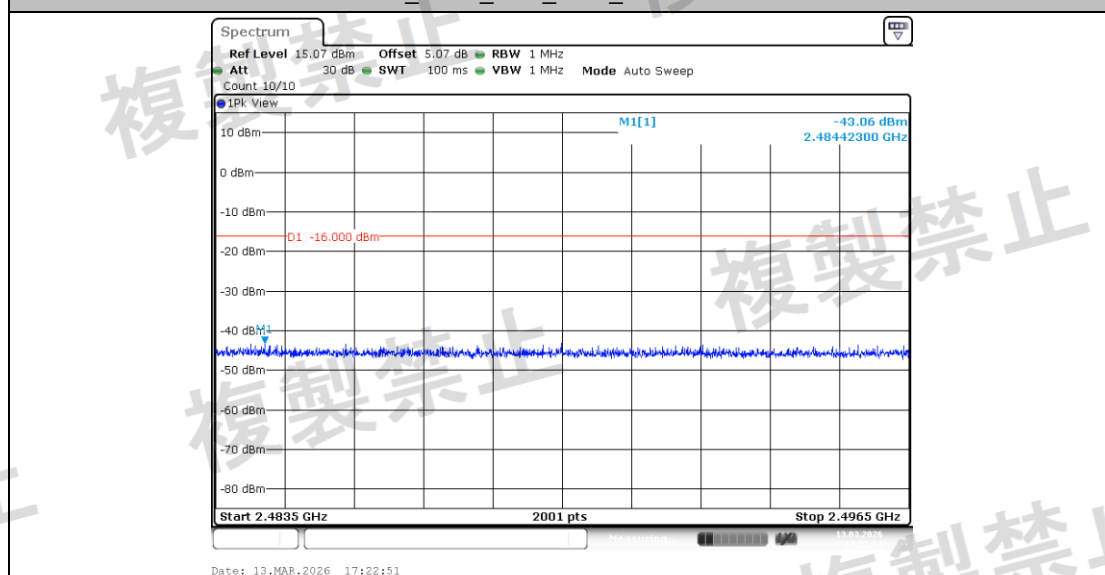




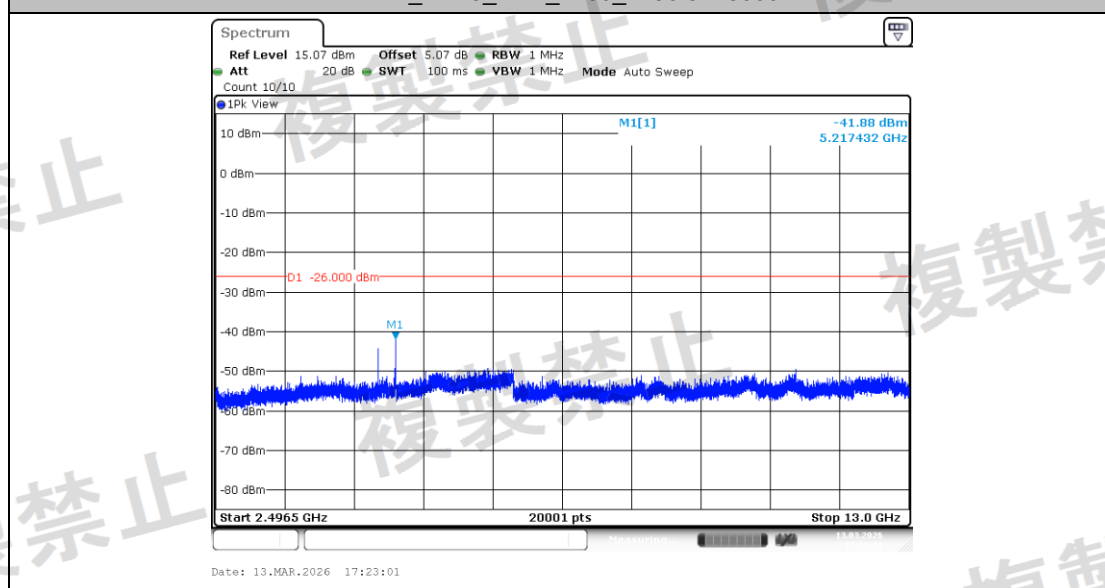
NTNV\_2DH5\_Ant1\_2480\_2387~2400



NTVN\_2DH5\_Ant1\_2480\_2483.5~2496.5



NTVN\_2DH5\_Ant1\_2480\_2496.5~13000

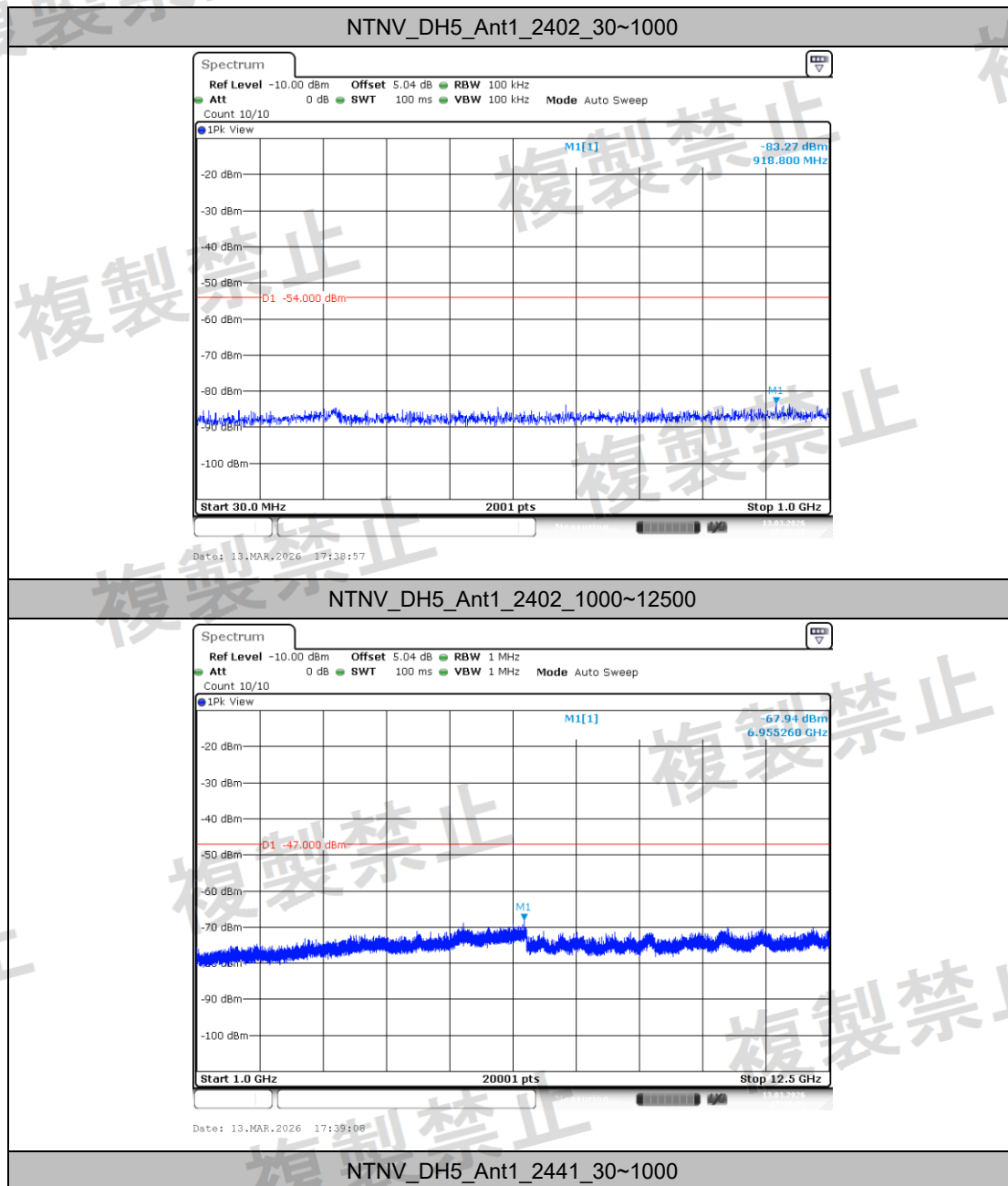


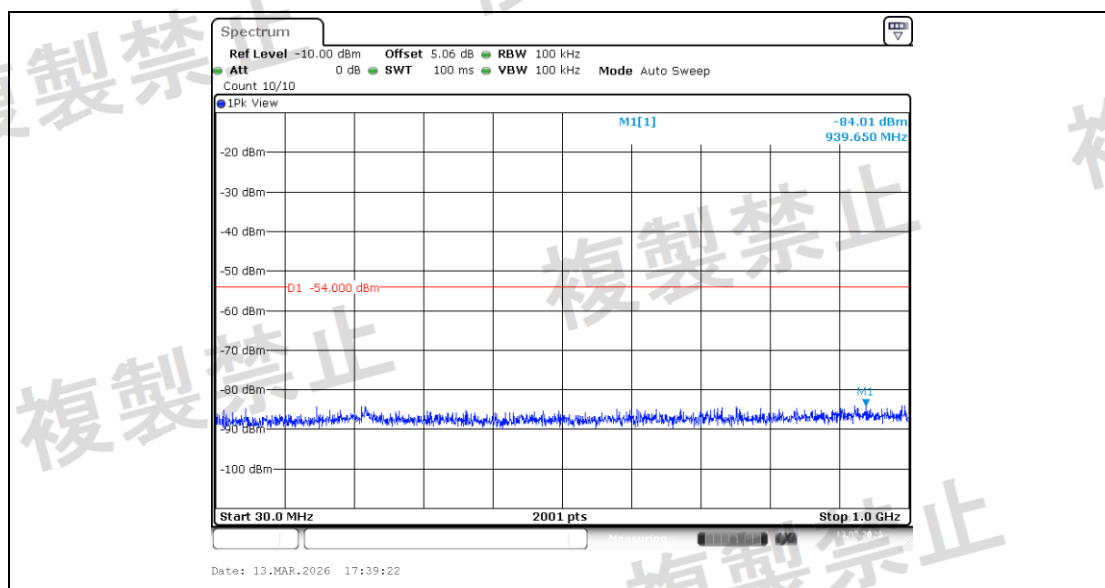
## Appendix E: Spurious Emission of RX

### Test Result

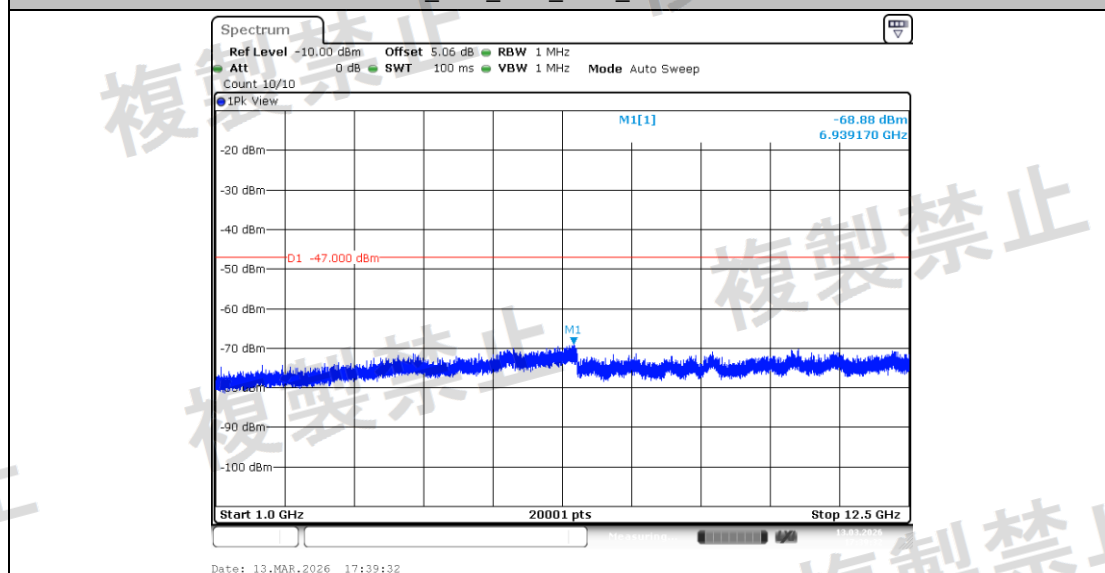
| Test Condition | Test Mode | Antenna | Freq(M Hz) | Freq.Range [MHz] | Freq. [MHz] | Result [dBm] | Limit [dBm] | Result [nW] | Limit [nW] | Verdict |
|----------------|-----------|---------|------------|------------------|-------------|--------------|-------------|-------------|------------|---------|
| NTNV           | DH5       | Ant1    | 2402       | 30~1000          | 918.80      | -83.27       | ≤-54        | 0.0047<br>1 | ≤4         | PASS    |
|                |           |         |            | 1000~12500       | 6955.2<br>6 | -67.94       | ≤-47        | 0.1606<br>9 | ≤20        | PASS    |
|                |           |         | 2441       | 30~1000          | 939.65      | -84.01       | ≤-54        | 0.0039<br>7 | ≤4         | PASS    |
|                |           |         |            | 1000~12500       | 6939.1<br>7 | -68.88       | ≤-47        | 0.1294<br>2 | ≤20        | PASS    |
|                |           |         | 2480       | 30~1000          | 786.46      | -83.97       | ≤-54        | 0.0040<br>1 | ≤4         | PASS    |
|                |           |         |            | 1000~12500       | 6599.9<br>3 | -69.28       | ≤-47        | 0.11803     | ≤20        | PASS    |
|                | 2DH5      | Ant1    | 2402       | 30~1000          | 234.33      | -83.05       | ≤-54        | 0.0049<br>5 | ≤4         | PASS    |
|                |           |         |            | 1000~12500       | 6891.4<br>4 | -69.24       | ≤-47        | 0.11912     | ≤20        | PASS    |
|                |           |         | 2441       | 30~1000          | 920.74      | -84.17       | ≤-54        | 0.0038<br>3 | ≤4         | PASS    |
|                |           |         |            | 1000~12500       | 6980.5<br>6 | -69.10       | ≤-47        | 0.1230<br>3 | ≤20        | PASS    |
|                |           |         | 2480       | 30~1000          | 959.04      | -82.93       | ≤-54        | 0.0050<br>9 | ≤4         | PASS    |
|                |           |         |            | 1000~12500       | 6814.9<br>7 | -68.67       | ≤-47        | 0.1358<br>3 | ≤20        | PASS    |

## Test Graphs

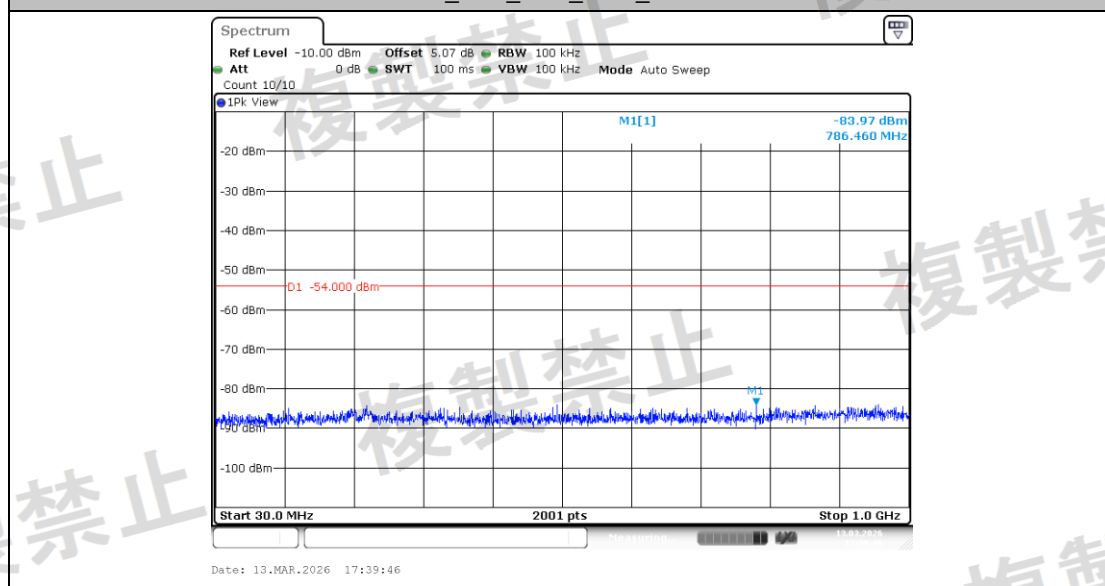


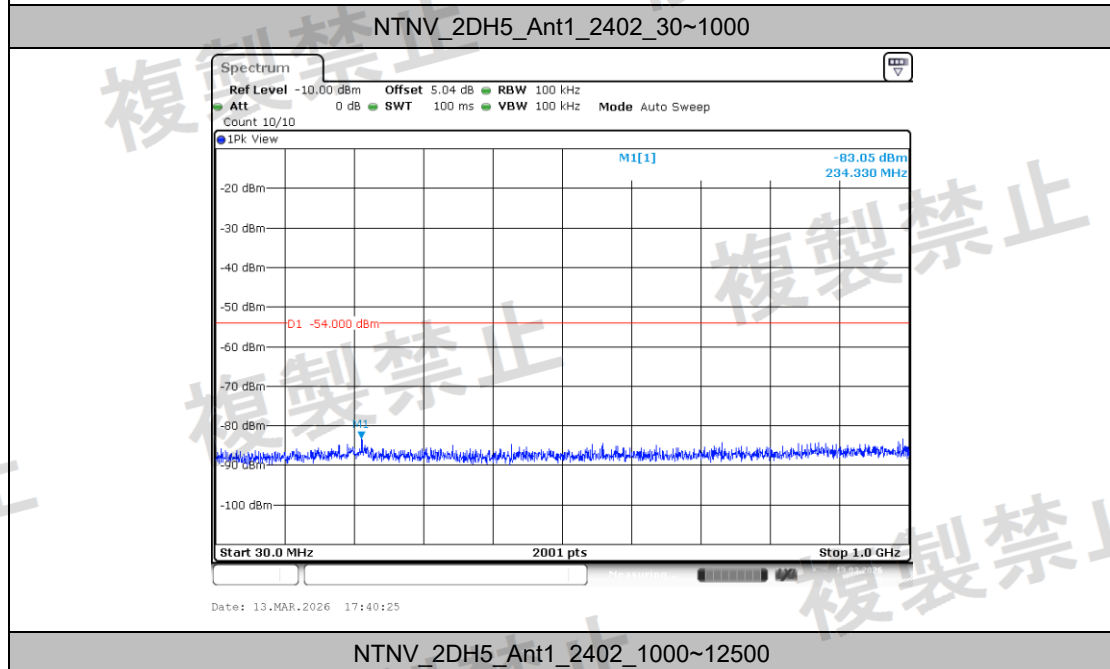
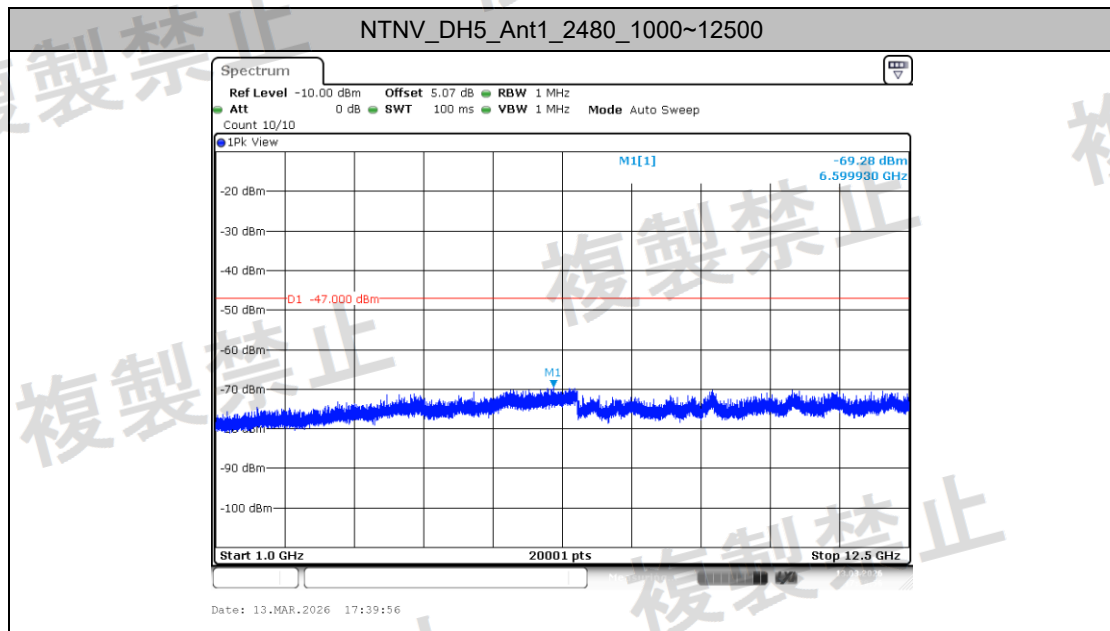


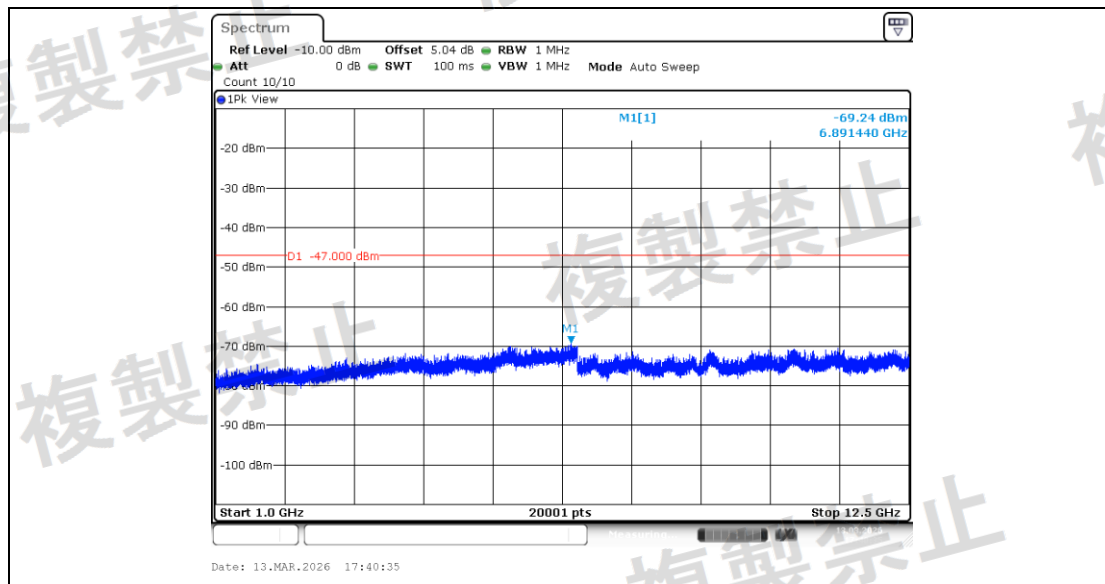
NTNV\_DH5\_Ant1\_2441\_1000~12500



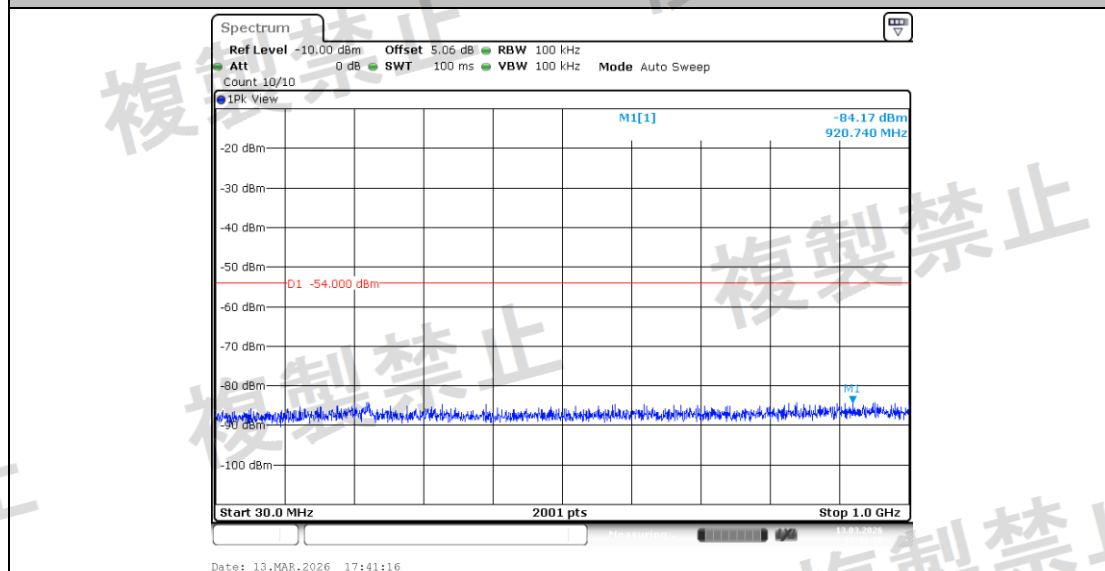
NTNV\_DH5\_Ant1\_2480\_30~1000



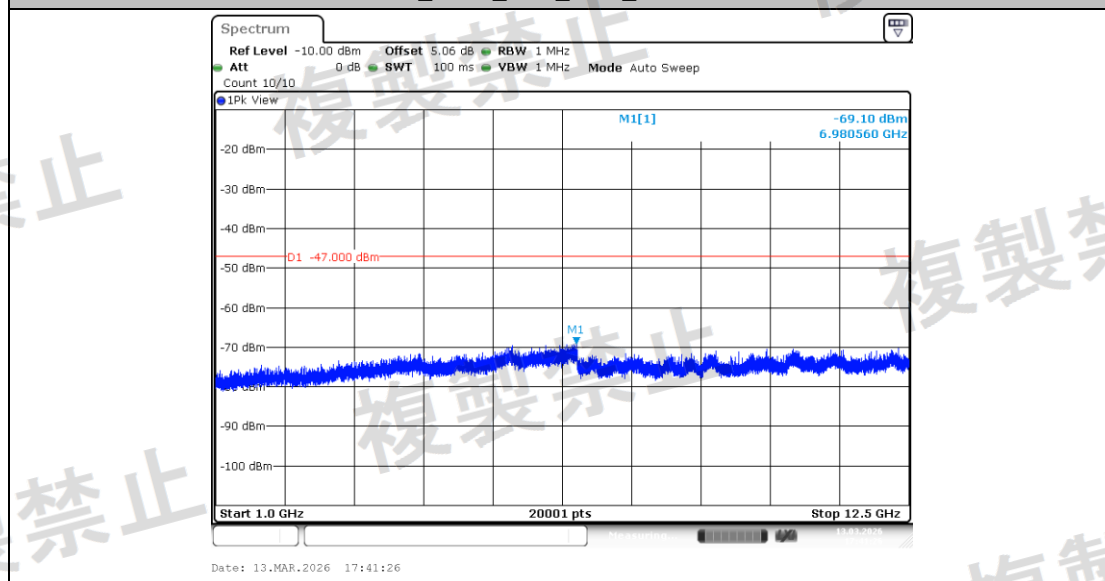


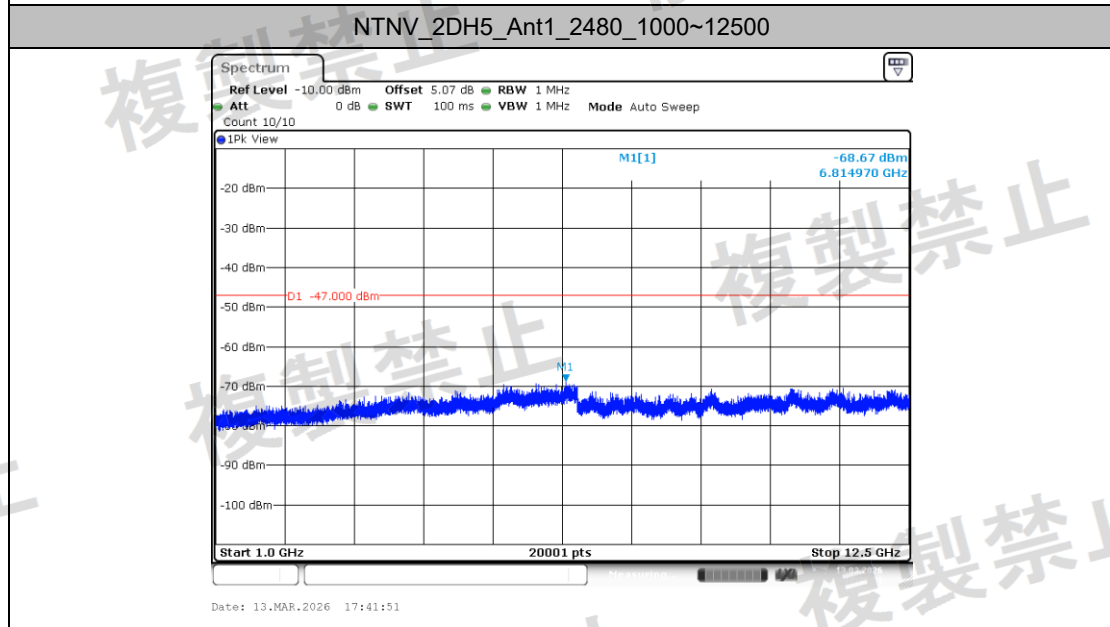
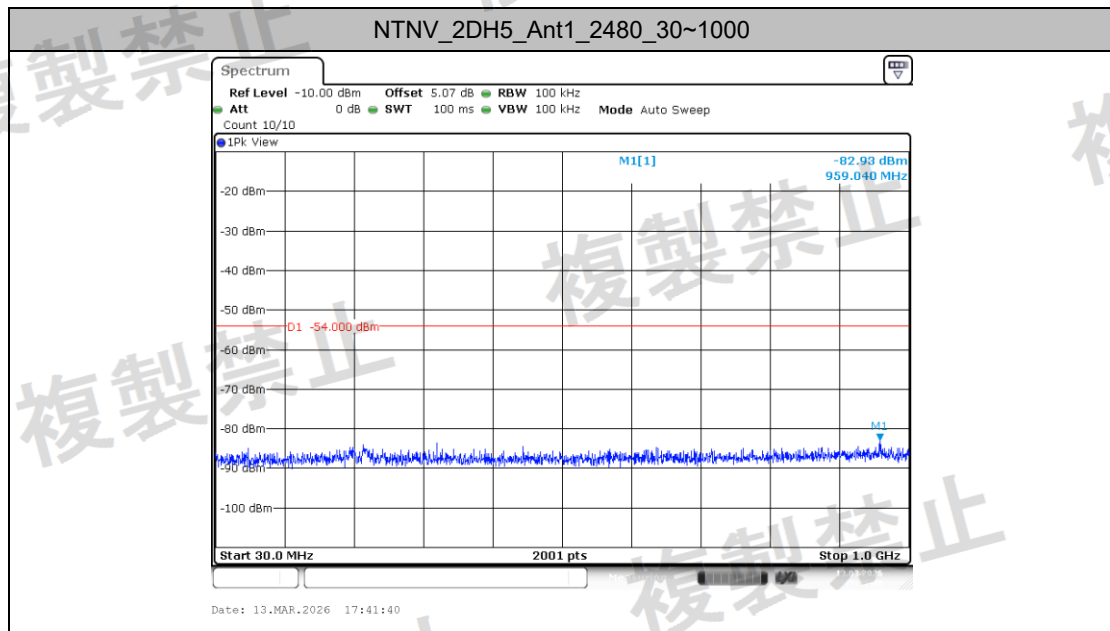


NTNV\_2DH5\_Ant1\_2441\_30~1000



NTNV\_2DH5\_Ant1\_2441\_1000~12500



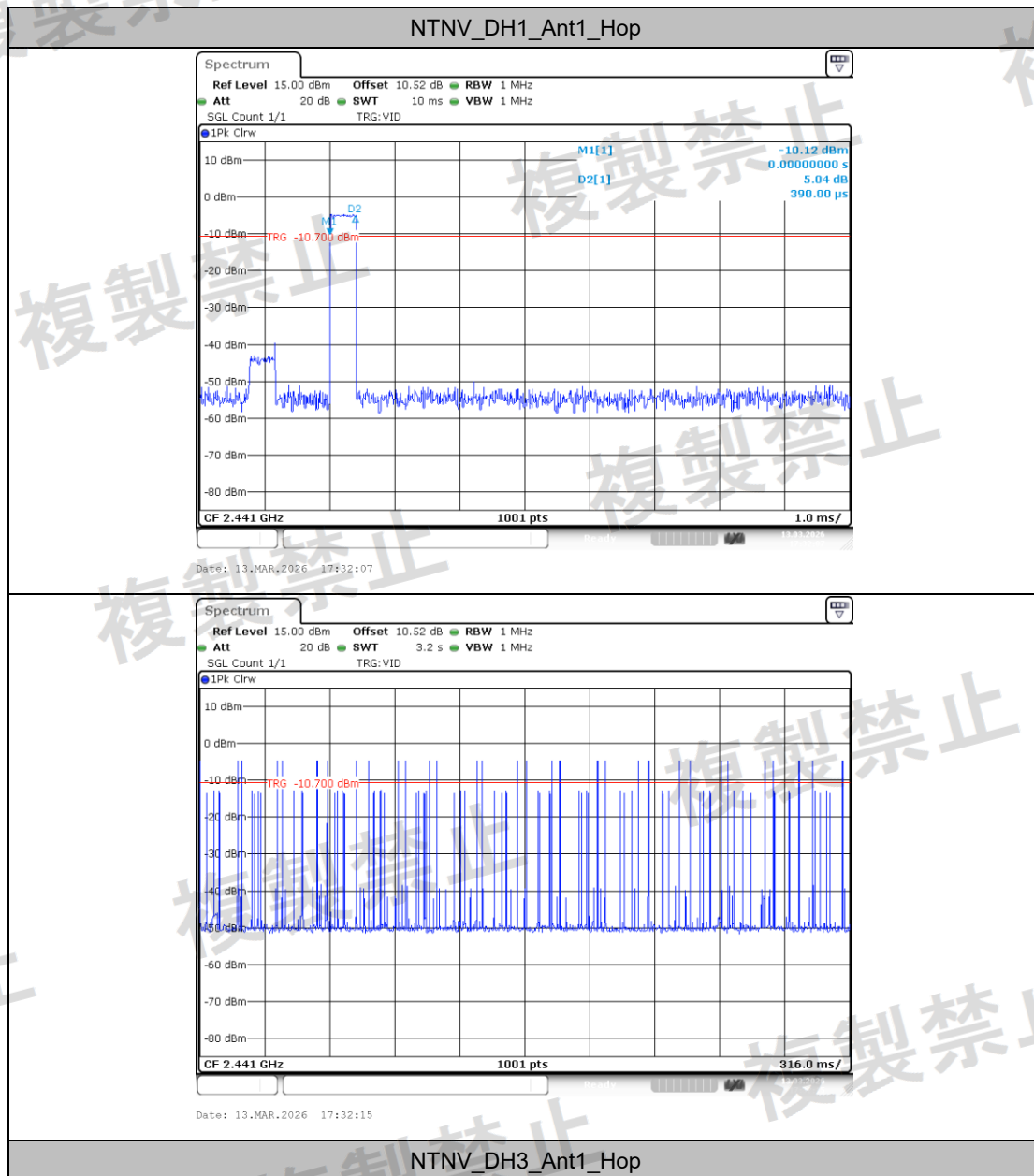


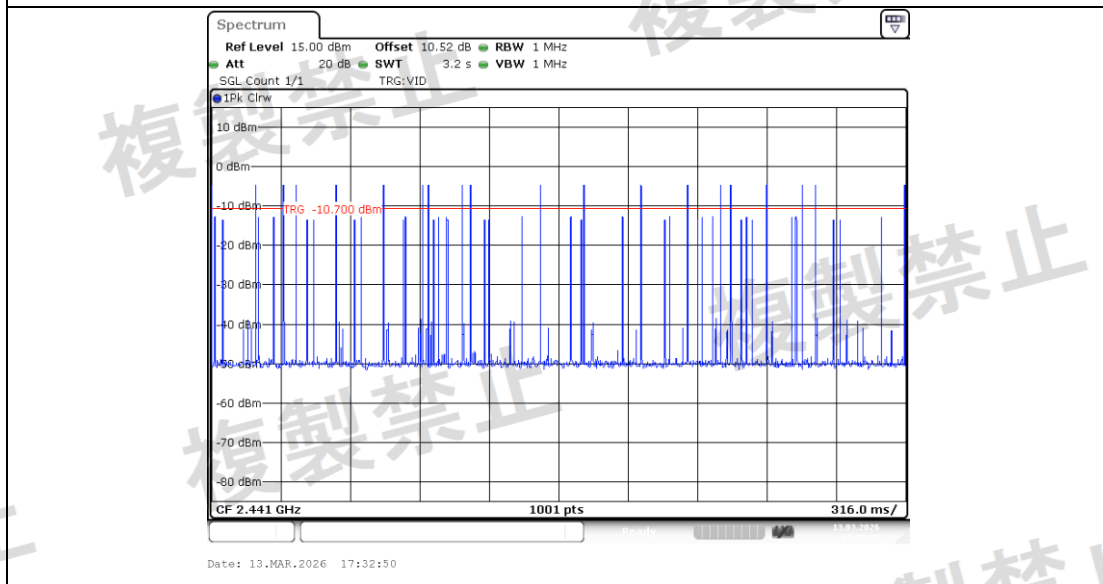
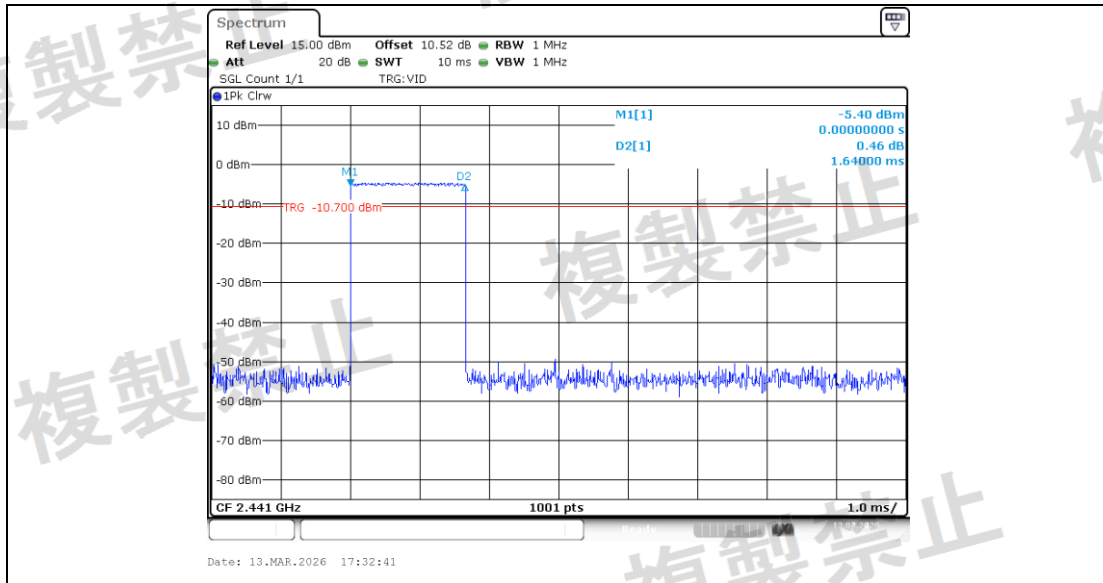
## Appendix F: Dwell Time

### Test Result

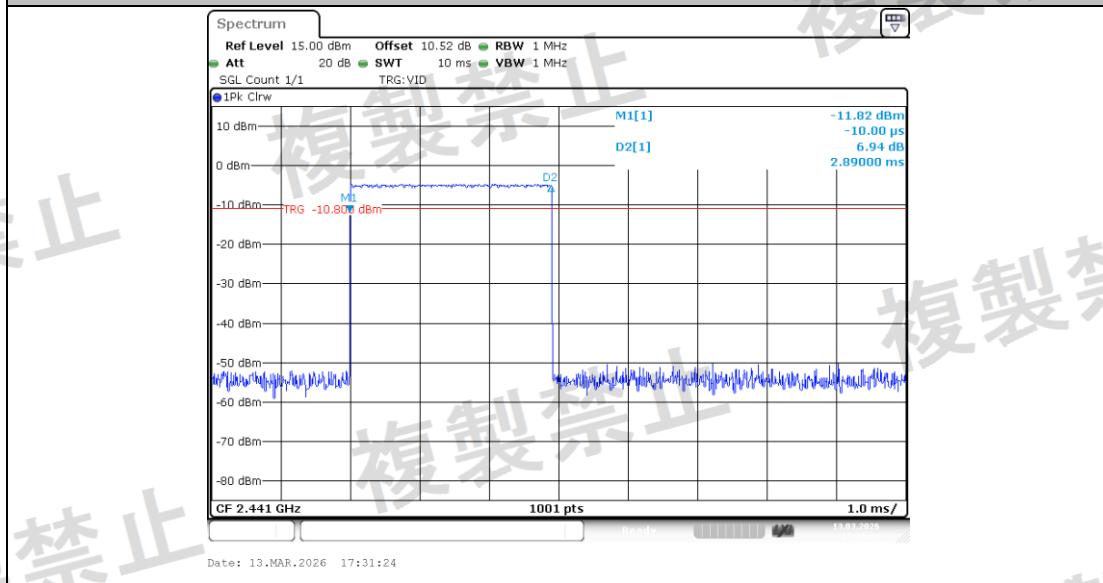
| Test Condition | Test Mode | Antenna | Freq(MHz) | BurstWidth [ms] | Result[s] | Limit [s] | Verdict |
|----------------|-----------|---------|-----------|-----------------|-----------|-----------|---------|
| NTNV           | DH1       | Ant1    | Hop       | 0.39            | 0.125     | ≤0.4      | PASS    |
|                | DH3       | Ant1    | Hop       | 1.64            | 0.312     | ≤0.4      | PASS    |
|                | DH5       | Ant1    | Hop       | 2.89            | 0.26      | ≤0.4      | PASS    |
|                | 2DH1      | Ant1    | Hop       | 0.39            | 0.125     | ≤0.4      | PASS    |
|                | 2DH3      | Ant1    | Hop       | 1.65            | 0.248     | ≤0.4      | PASS    |
|                | 2DH5      | Ant1    | Hop       | 2.90            | 0.232     | ≤0.4      | PASS    |

## Test Graphs



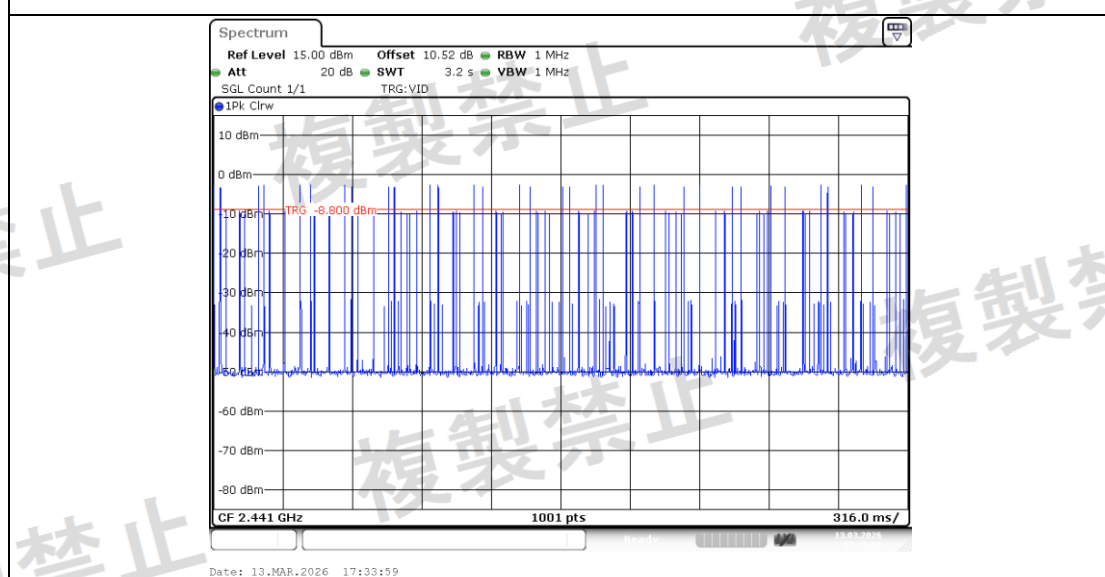
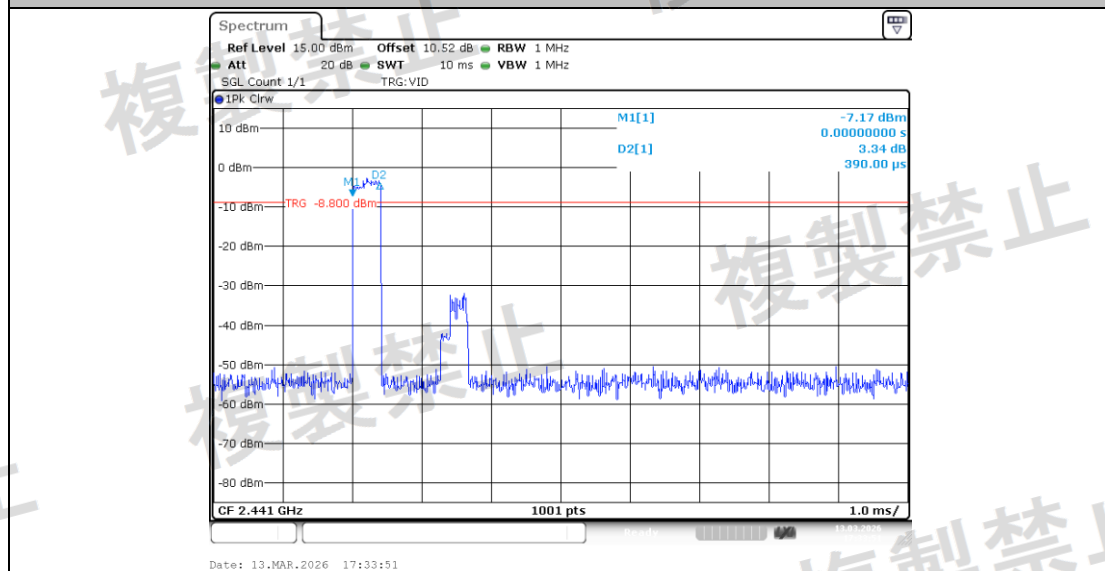


### NTNV\_DH5\_Ant1\_Hop

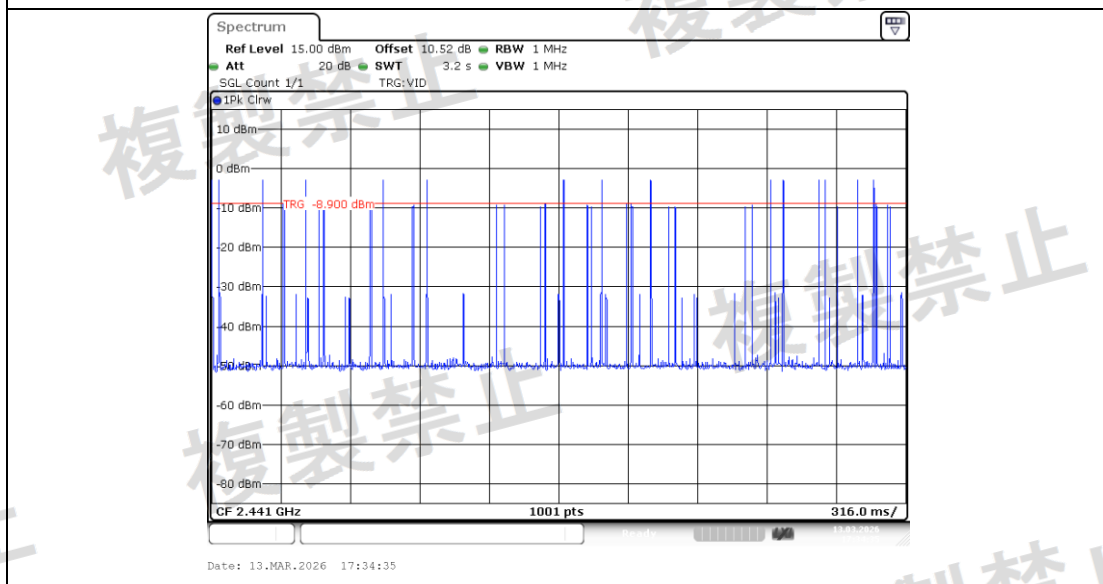
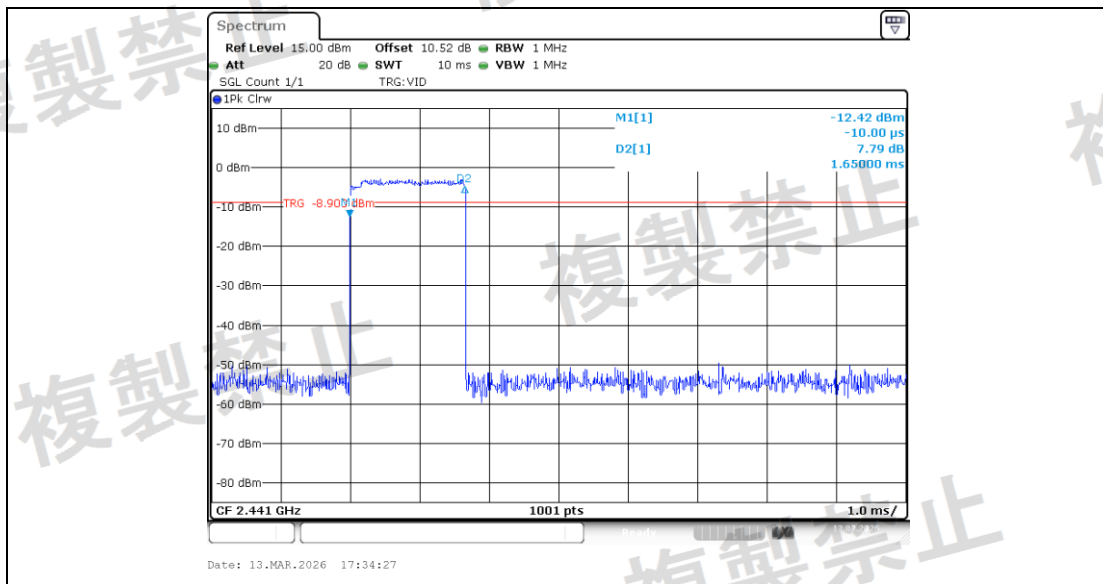




NTNV\_2DH1\_Ant1\_Hop



NTNV\_2DH3\_Ant1\_Hop



# NTNV\_2DH5\_Ant1\_Hop

