

## Appendix: Bluetooth Classic

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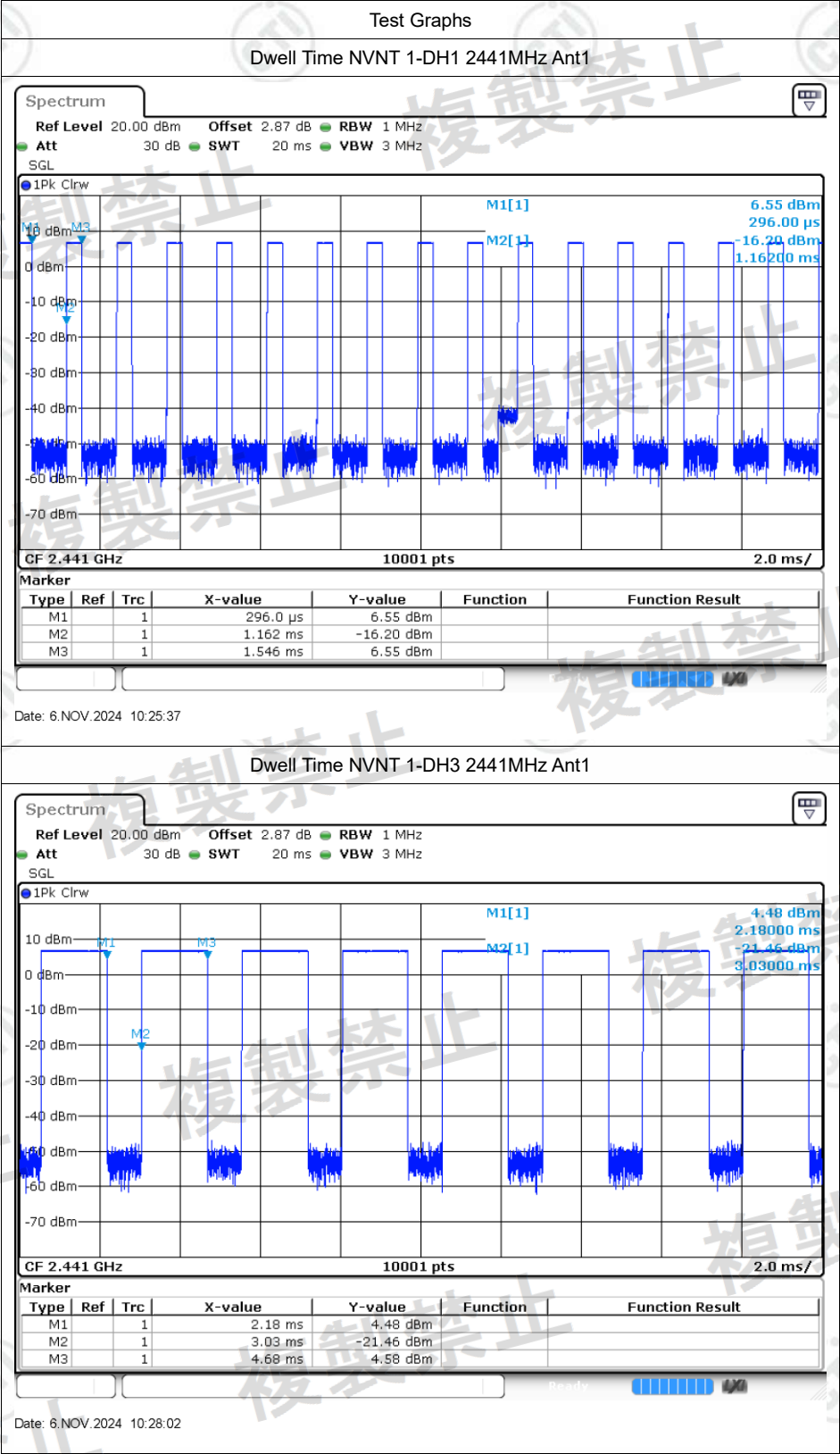
## Dwell Time

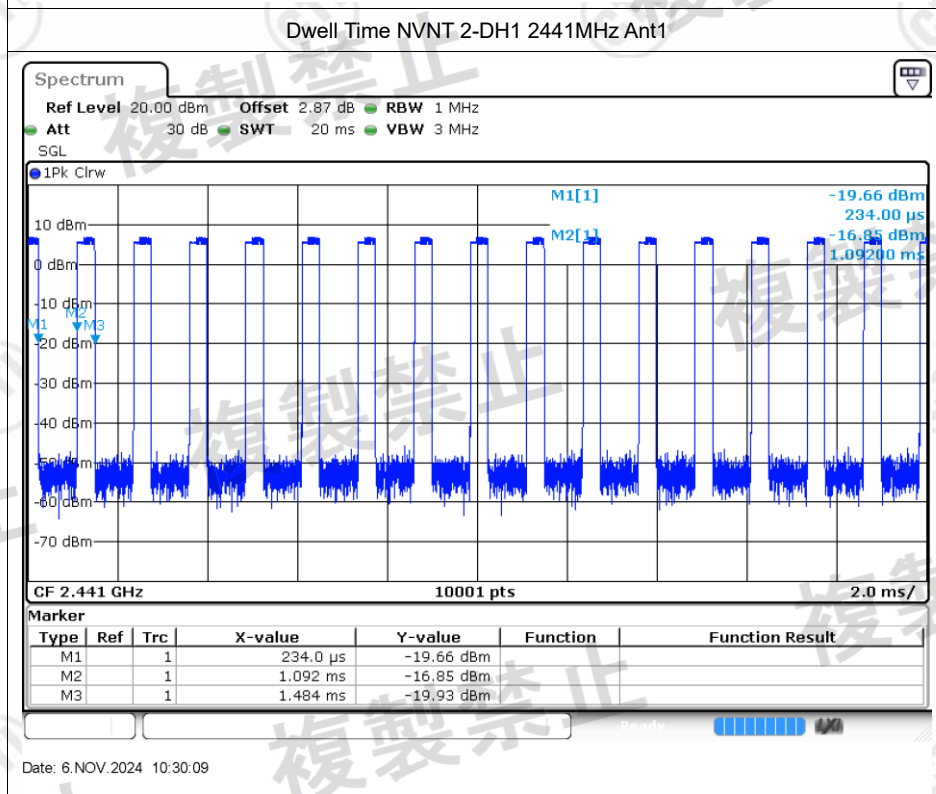
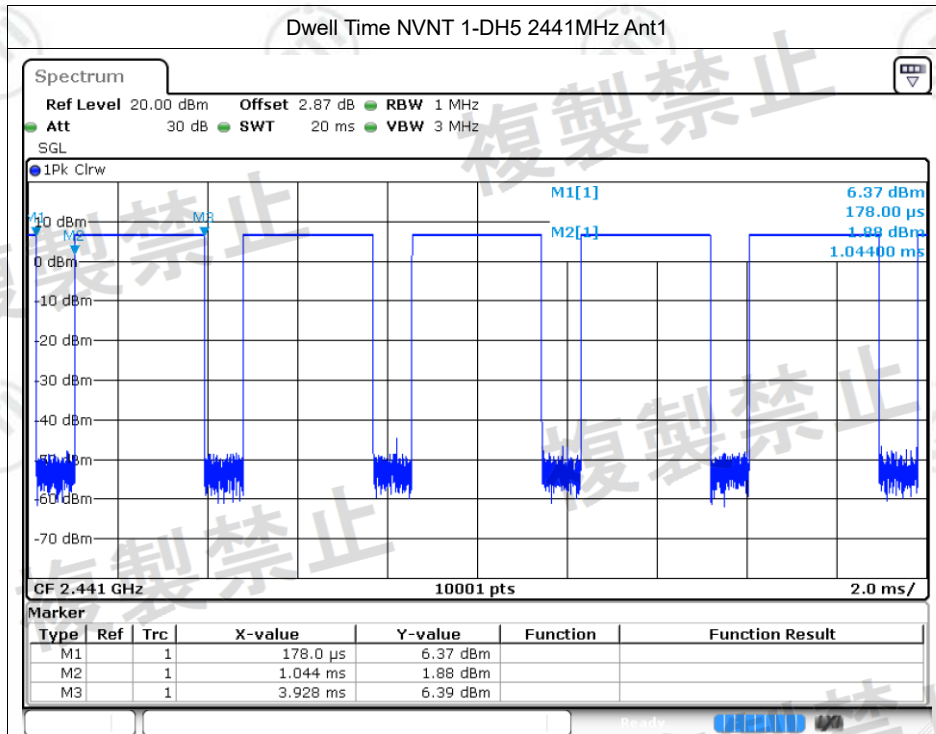
| Condition | Mode  | Frequency (MHz) | Antenna | T_on(ms) | Period(ms) | Spreading Rate | Hop Number | Dwell Time (ms) | Limit (ms) | Verdict | Verdict |
|-----------|-------|-----------------|---------|----------|------------|----------------|------------|-----------------|------------|---------|---------|
| NVNT      | 1-DH1 | 2441            | Ant1    | 0.384    | 1.25       | 70.729         | 79         | 110.01          | 400        | Pass    | Pass    |
| NVNT      | 1-DH3 | 2441            | Ant1    | 1.65     | 2.5        | 70.49          | 79         | 235.56          | 400        | Pass    | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | 2.884    | 3.75       | 71.209         | 79         | 277.29          | 400        | Pass    | Pass    |
| NVNT      | 2-DH1 | 2441            | Ant1    | 0.392    | 1.25       | 71.209         | 79         | 113.07          | 400        | Pass    | Pass    |
| NVNT      | 2-DH3 | 2441            | Ant1    | 1.642    | 2.5        | 71.449         | 79         | 237.61          | 400        | Pass    | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | 2.886    | 3.75       | 71.449         | 79         | 278.42          | 400        | Pass    | Pass    |
| NVNT      | 3-DH1 | 2441            | Ant1    | 0.4      | 1.25       | 71.209         | 79         | 115.38          | 400        | Pass    | Pass    |
| NVNT      | 3-DH3 | 2441            | Ant1    | 1.652    | 2.5        | 71.209         | 79         | 238.25          | 400        | Pass    | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant1    | 2.902    | 3.75       | 71.209         | 79         | 279.02          | 400        | Pass    | Pass    |

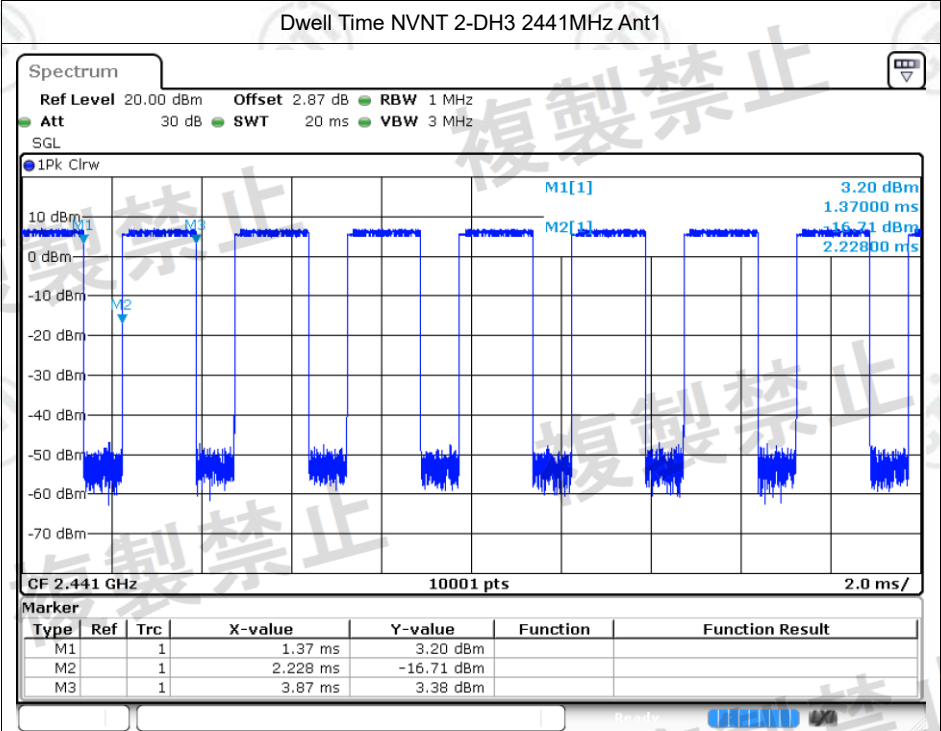
Note:

①Dwell Time  $= (0.4(s) * [\text{Spreading rate}] * [\text{Transmission time of 1 burst}(s)]) / ([\text{Burst cycle}(s)] * [\text{No. of hopping channel}])$ ;

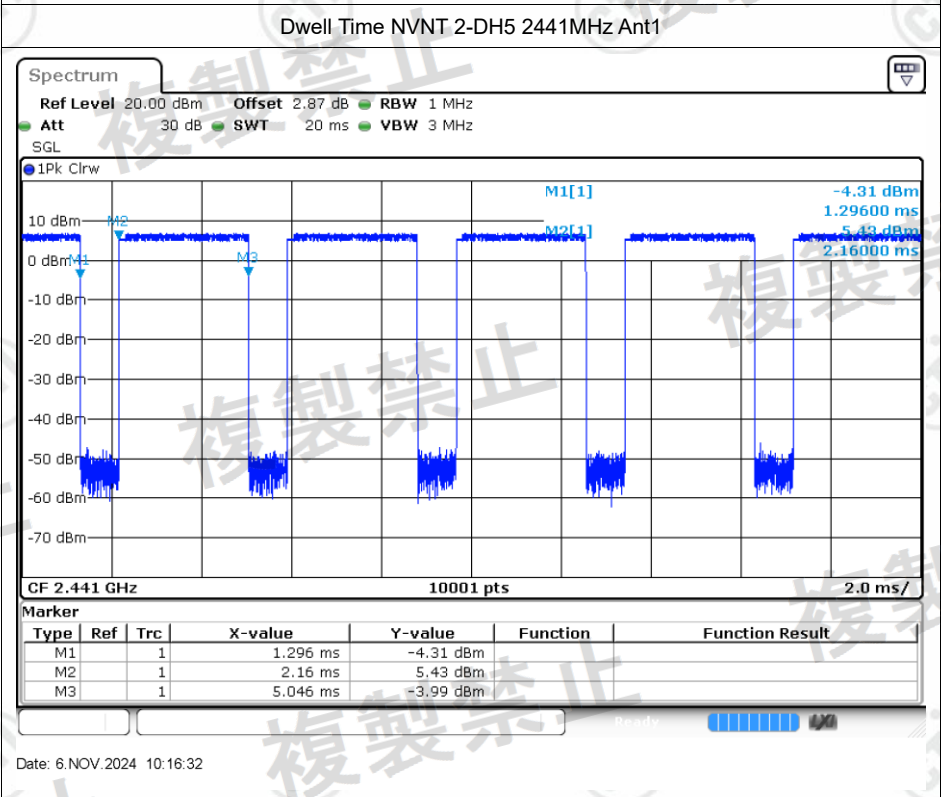
②Spreading rate  $= [\text{Spread bandwidth(actual measurement value)}] / [\text{Transmission rate}]$ ;



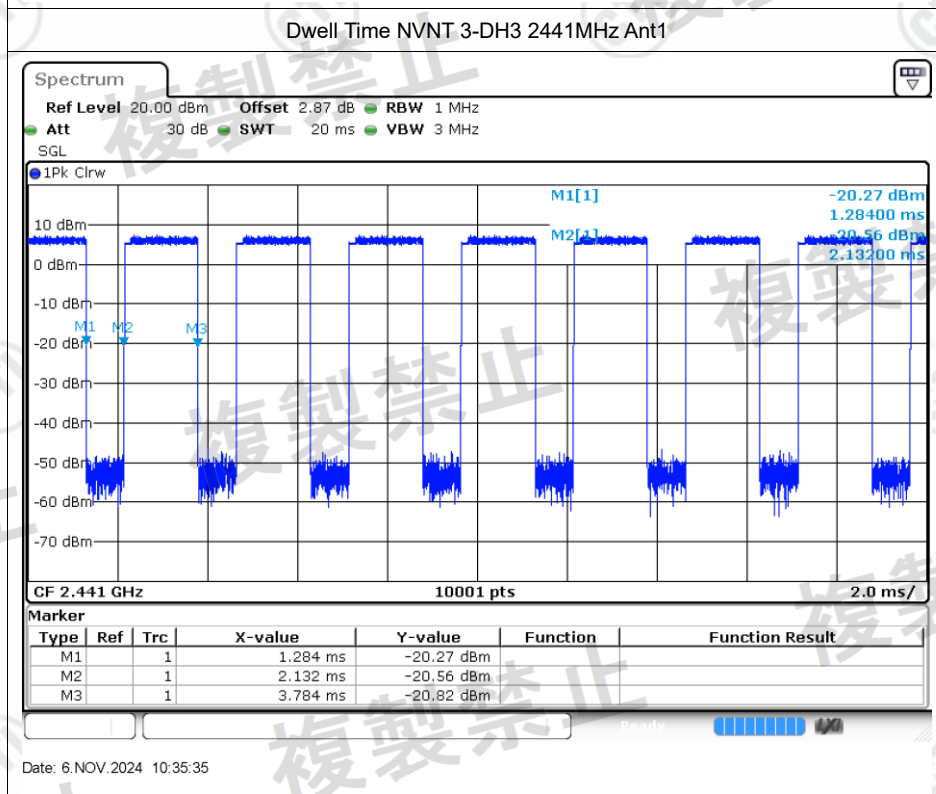
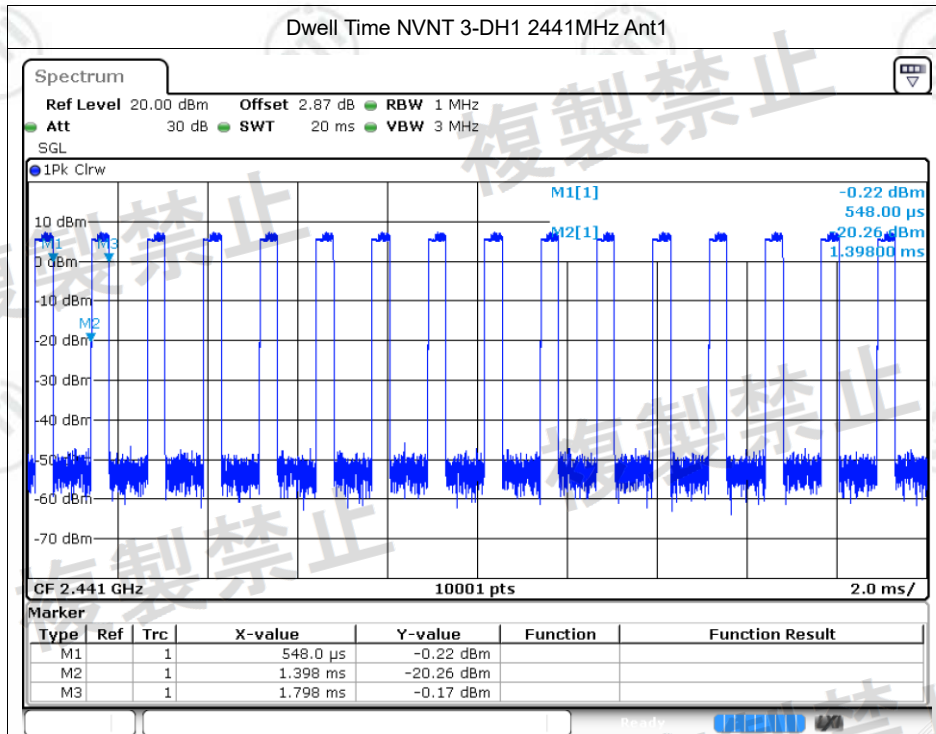


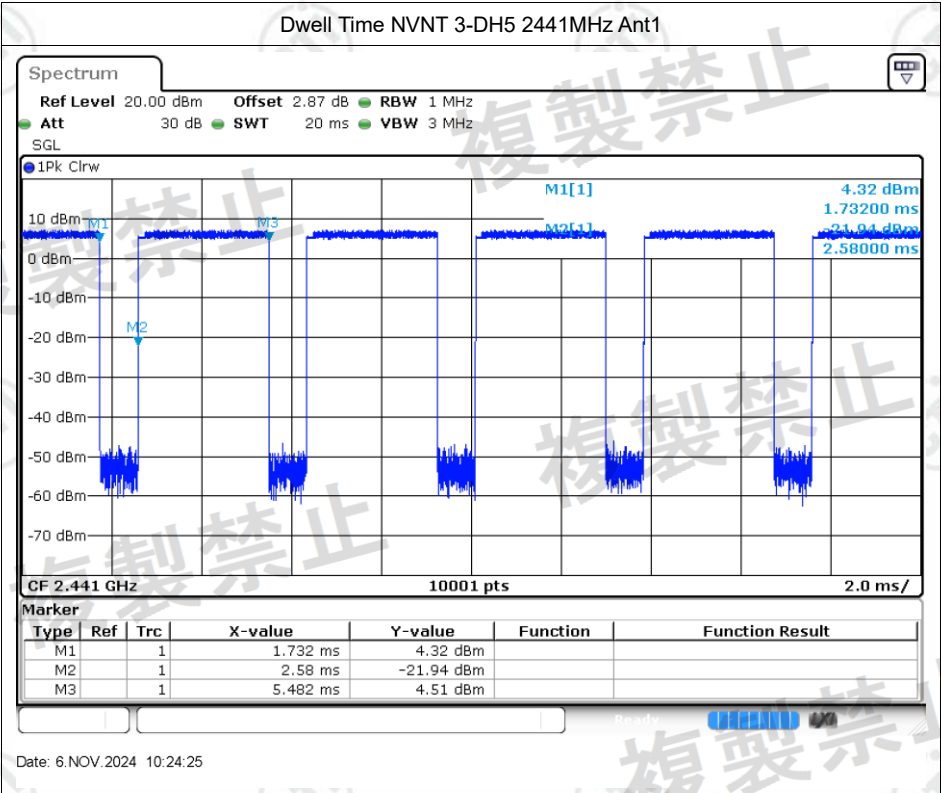


Date: 6.NOV.2024 10:31:45



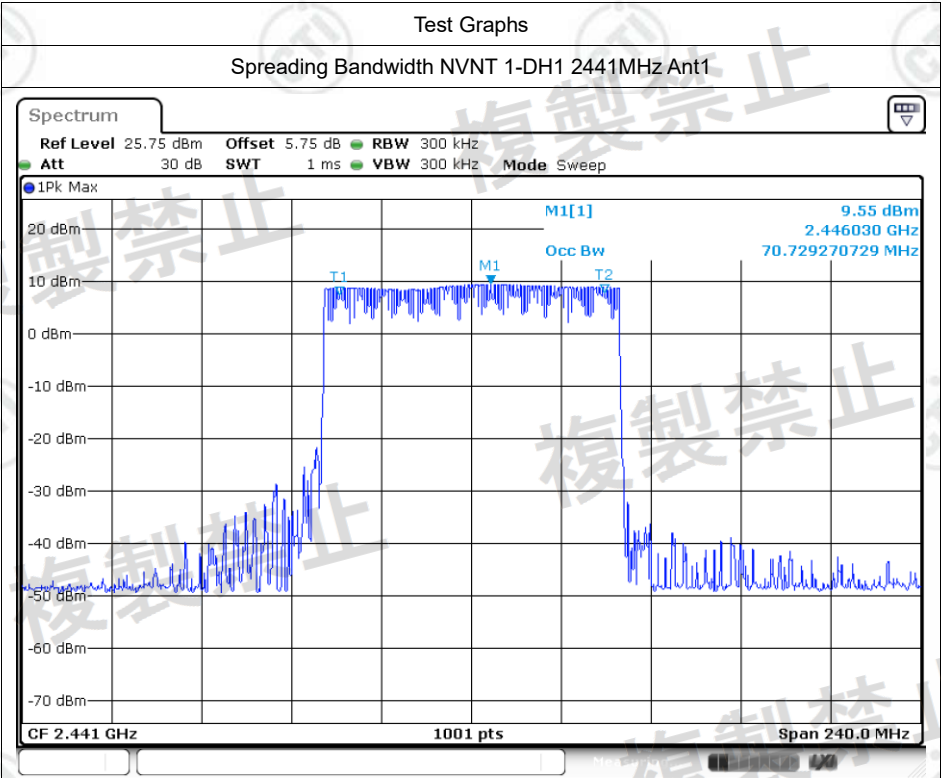
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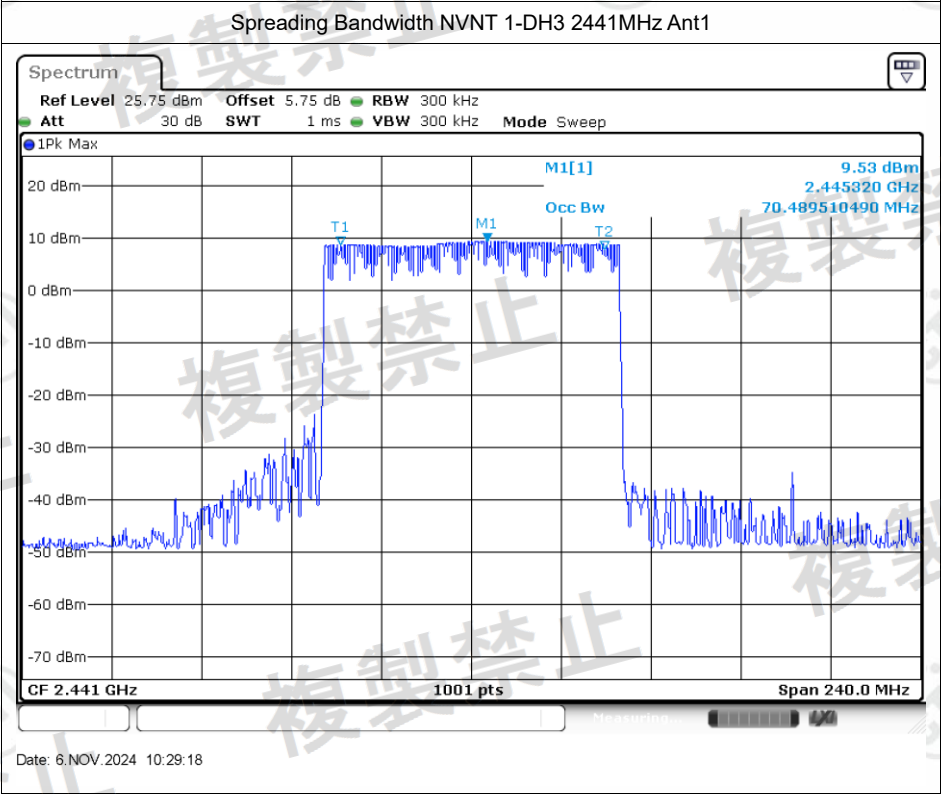


## Spreading Bandwidth

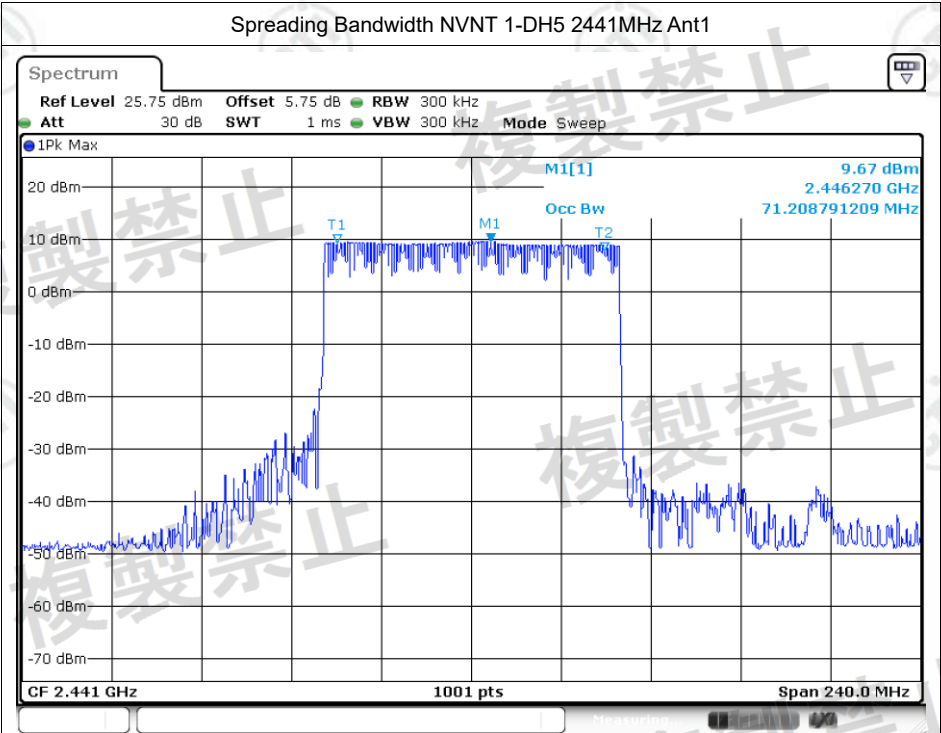
| Condition | Mode  | Frequency (MHz) | Antenna | 90% OBW (MHz) |
|-----------|-------|-----------------|---------|---------------|
| NVNT      | 1-DH1 | 2441            | Ant1    | 70.729        |
| NVNT      | 1-DH3 | 2441            | Ant1    | 70.49         |
| NVNT      | 1-DH5 | 2441            | Ant1    | 71.209        |
| NVNT      | 2-DH1 | 2441            | Ant1    | 71.209        |
| NVNT      | 2-DH3 | 2441            | Ant1    | 71.449        |
| NVNT      | 2-DH5 | 2441            | Ant1    | 71.449        |
| NVNT      | 3-DH1 | 2441            | Ant1    | 71.209        |
| NVNT      | 3-DH3 | 2441            | Ant1    | 71.209        |
| NVNT      | 3-DH5 | 2441            | Ant1    | 71.209        |



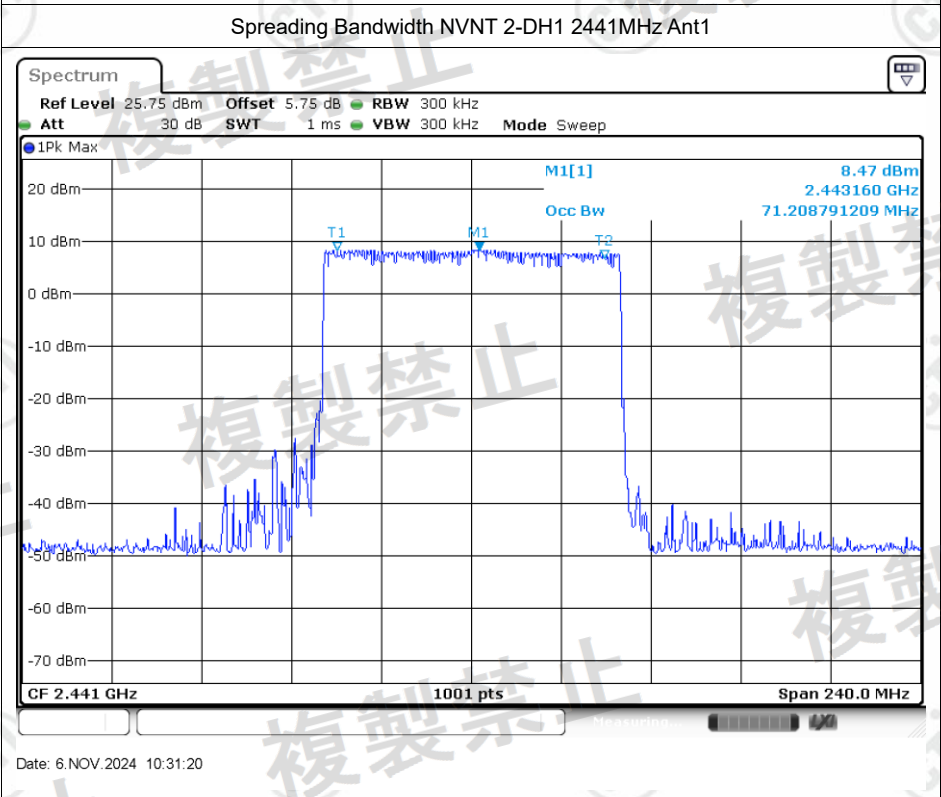
Date: 6.NOV.2024 10:27:28



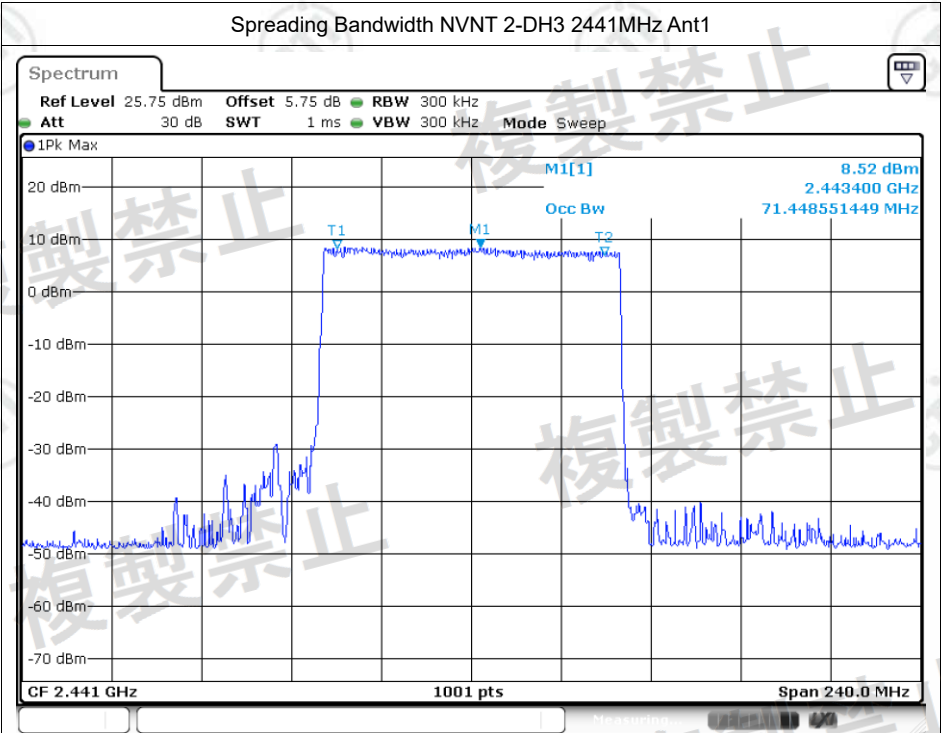
Date: 6.NOV.2024 10:29:18



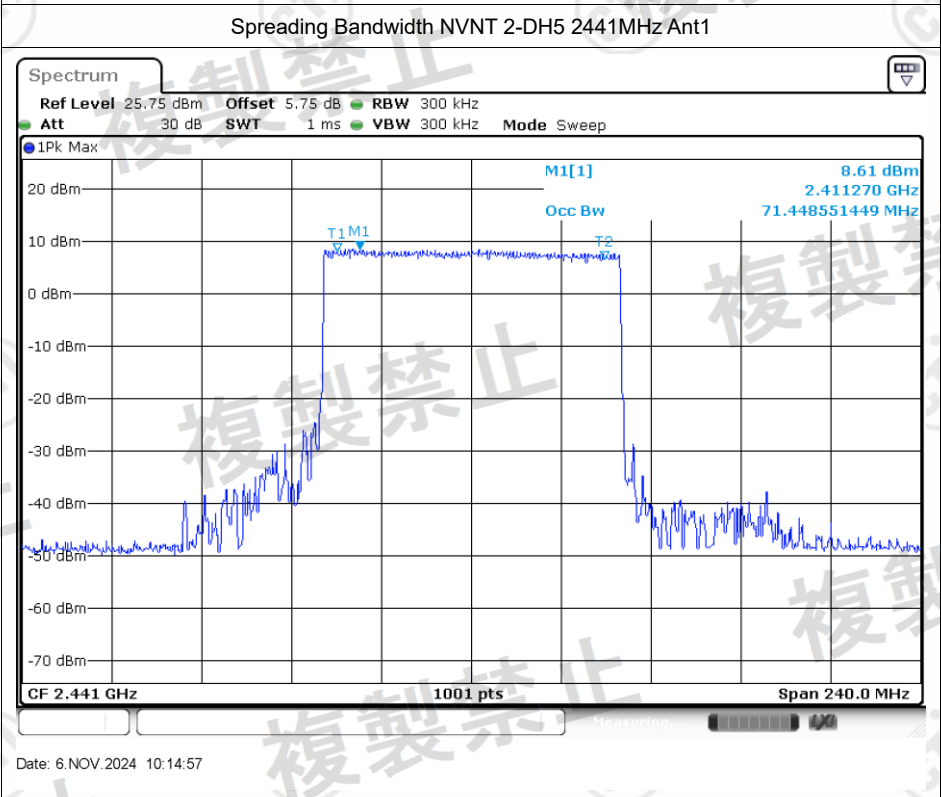
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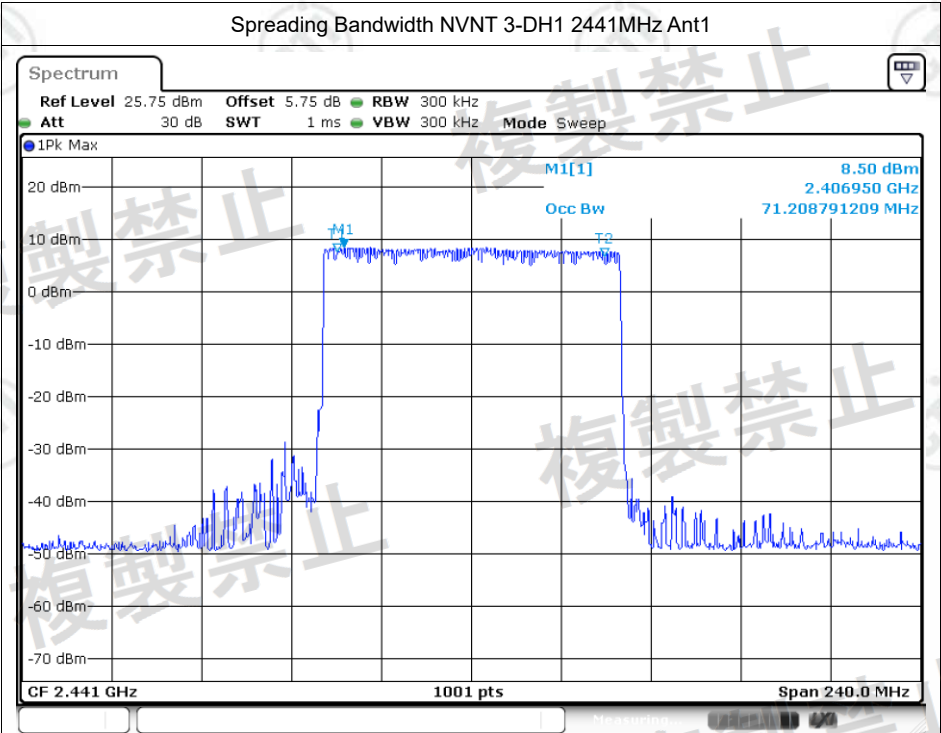
Date: 6.NOV.2024 10:31:20



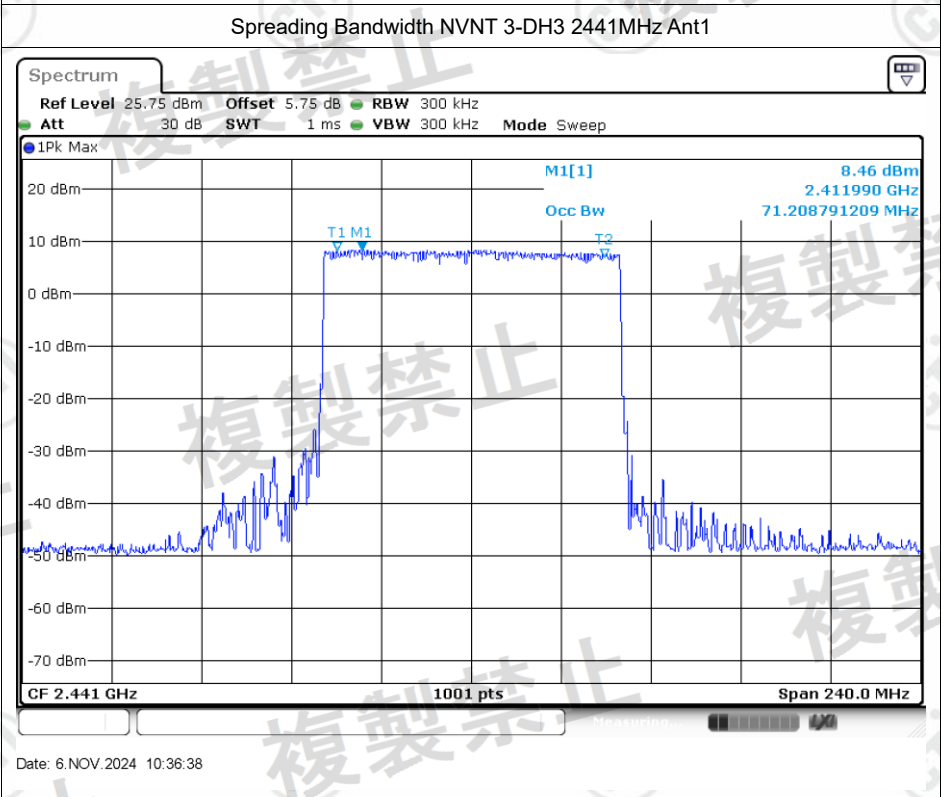
Date: 6.NOV.2024 10:33:27



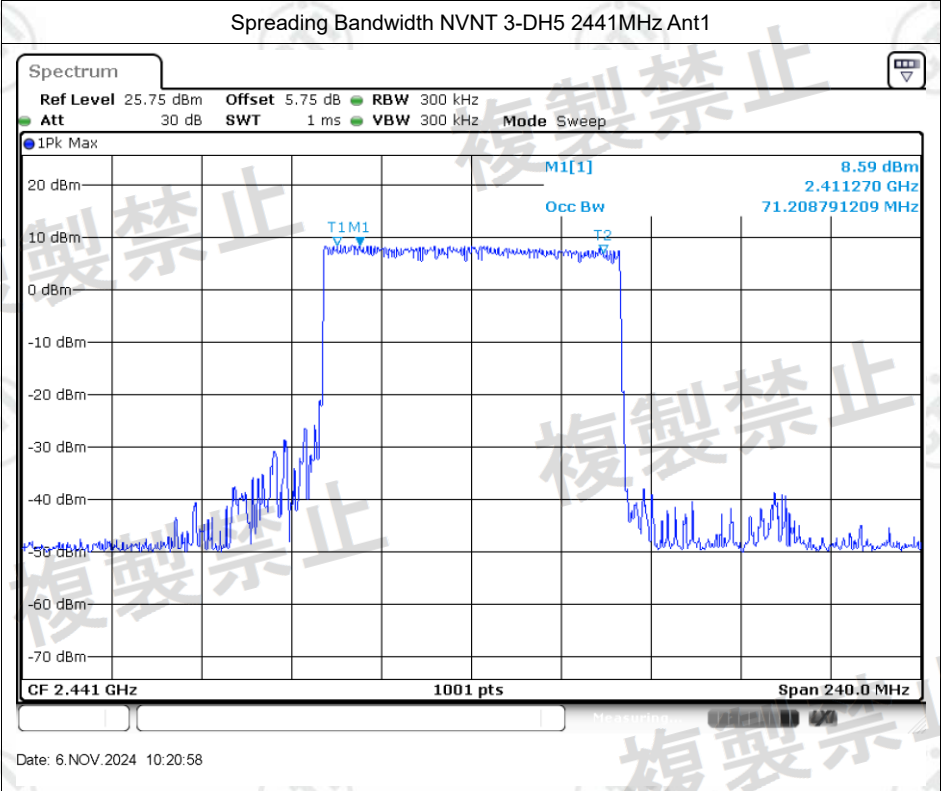
Date: 6.NOV.2024 10:14:57



Date: 6.NOV.2024 10:35:09



Date: 6.NOV.2024 10:36:38



## Antenna Power

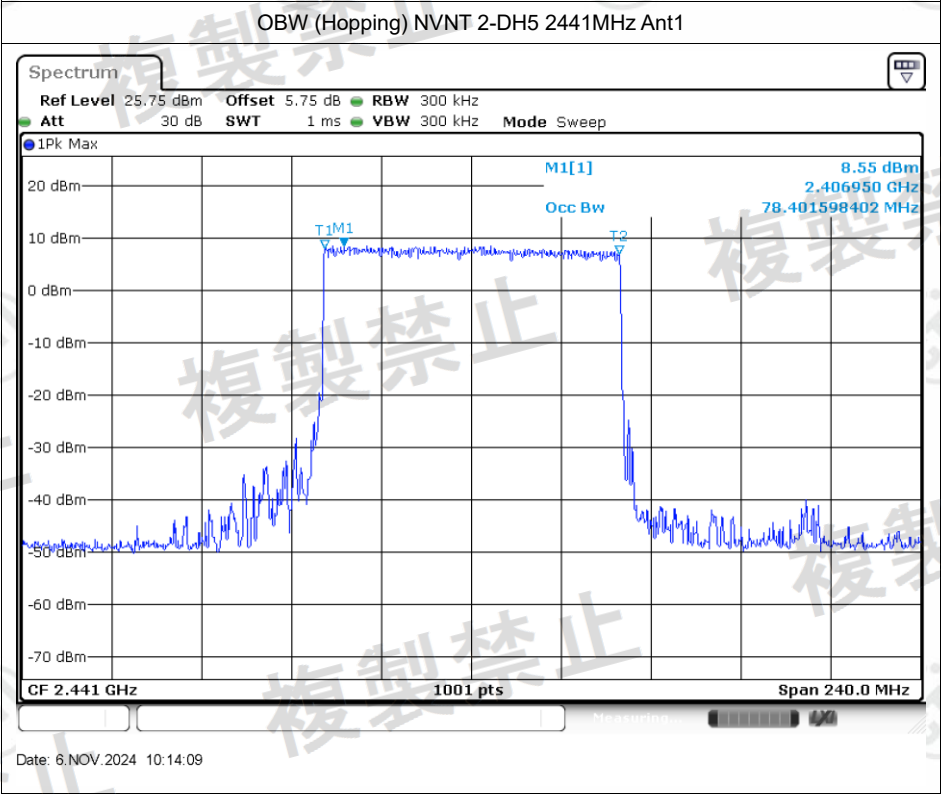
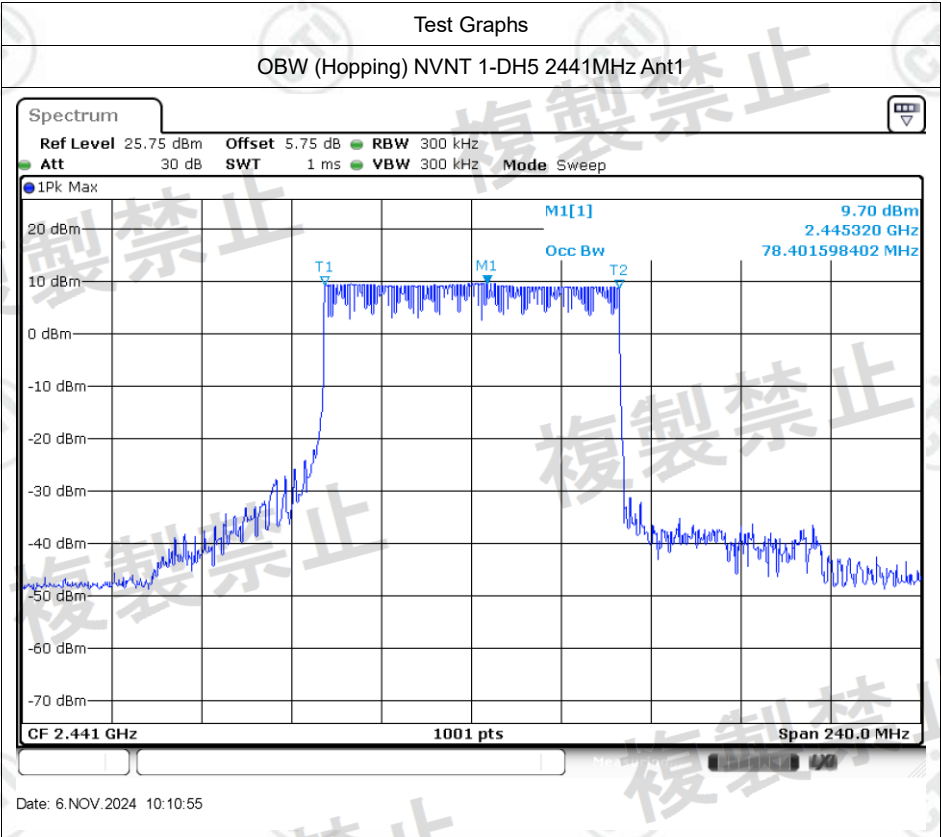
| Condition | Mode  | Frequency (MHz) | Antenna | Power Reading (mw) | Dwell Time (%) | Spread Bandwidth (MHz) | Antenna Power (mW/MHz) | Declared Power (mW/MHz) | Limit (mW/MHz) | Tolerance (%) | Upper Limit (%) | Lower Limit (%) | Verdict |
|-----------|-------|-----------------|---------|--------------------|----------------|------------------------|------------------------|-------------------------|----------------|---------------|-----------------|-----------------|---------|
| NVNT      | 1-DH5 | Hopping         | Ant1    | 4.03               | 77.33          | 71.209                 | 0.07                   | 0.1                     | 3              | -30           | +20             | N/A             | Pass    |
| NVNT      | 2-DH5 | Hopping         | Ant1    | 3.25               | 77.68          | 71.449                 | 0.06                   | 0.1                     | 3              | -40           | +20             | N/A             | Pass    |
| NVNT      | 3-DH5 | Hopping         | Ant1    | 3.2                | 77.44          | 71.209                 | 0.06                   | 0.1                     | 3              | -40           | +20             | N/A             | Pass    |

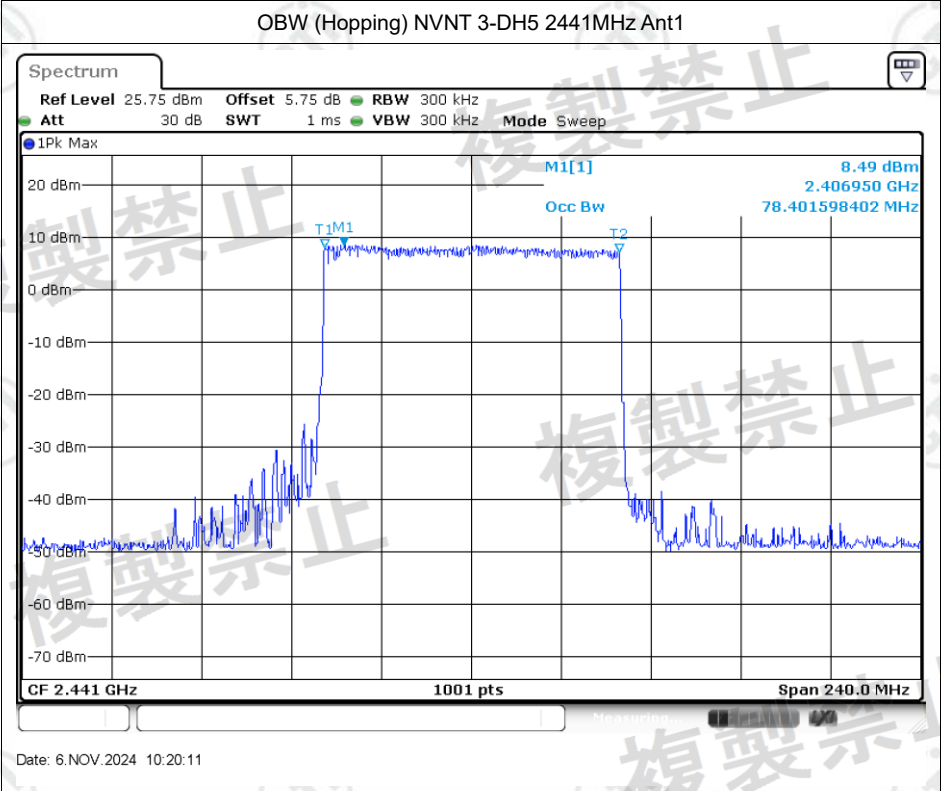
## EIRP Power

| Condition | Mode  | Frequency (MHz) | Antenna | Antenna Power (dBm/MHz) | Gain (dBi) | EIRP Power (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-----------|-------|-----------------|---------|-------------------------|------------|----------------------|-----------------|---------|
| NVNT      | 1-DH5 | 2441            | Ant1    | -11.55                  | 2.88       | -8.54                | 6.91            | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | -12.22                  | 2.88       | -9.59                | 6.91            | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant1    | -12.22                  | 2.88       | -9.59                | 6.91            | Pass    |

## Occupied Channel Bandwidth (Hopping)

| Condition | Mode  | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|-------|-----------------|---------|---------------|
| NVNT      | 1-DH5 | 2441            | Ant1    | 78.402        |
| NVNT      | 2-DH5 | 2441            | Ant1    | 78.402        |
| NVNT      | 3-DH5 | 2441            | Ant1    | 78.402        |

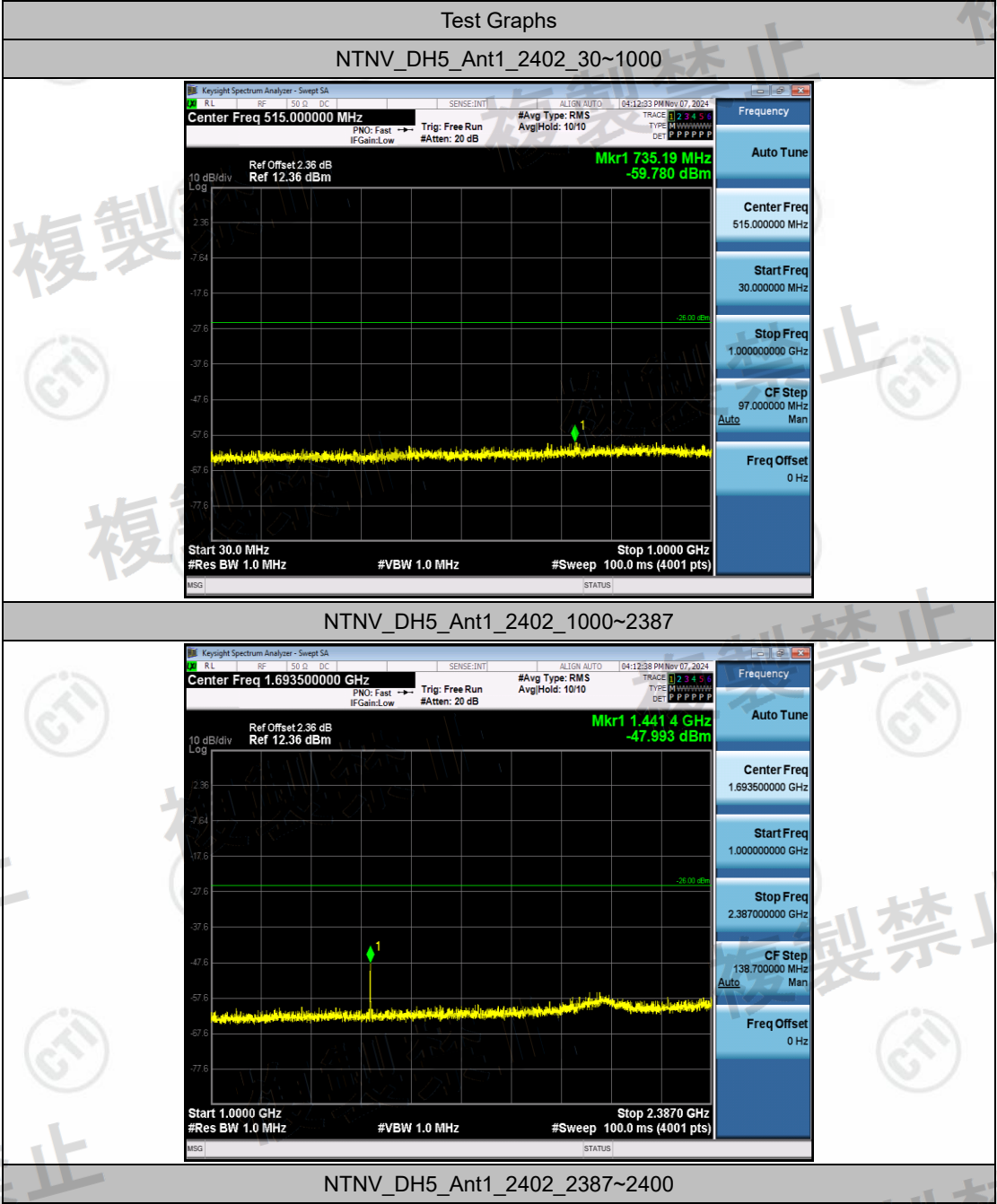


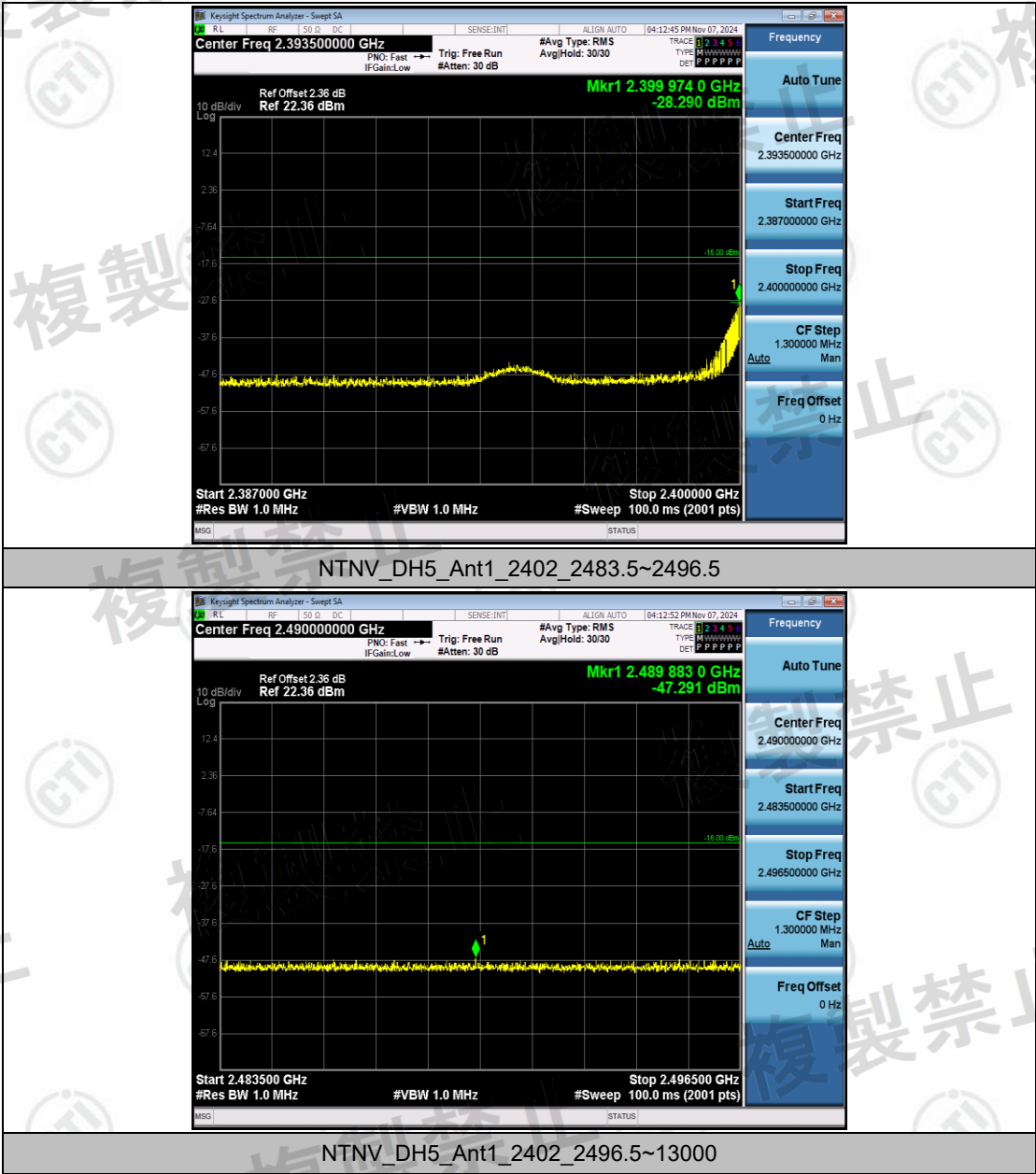


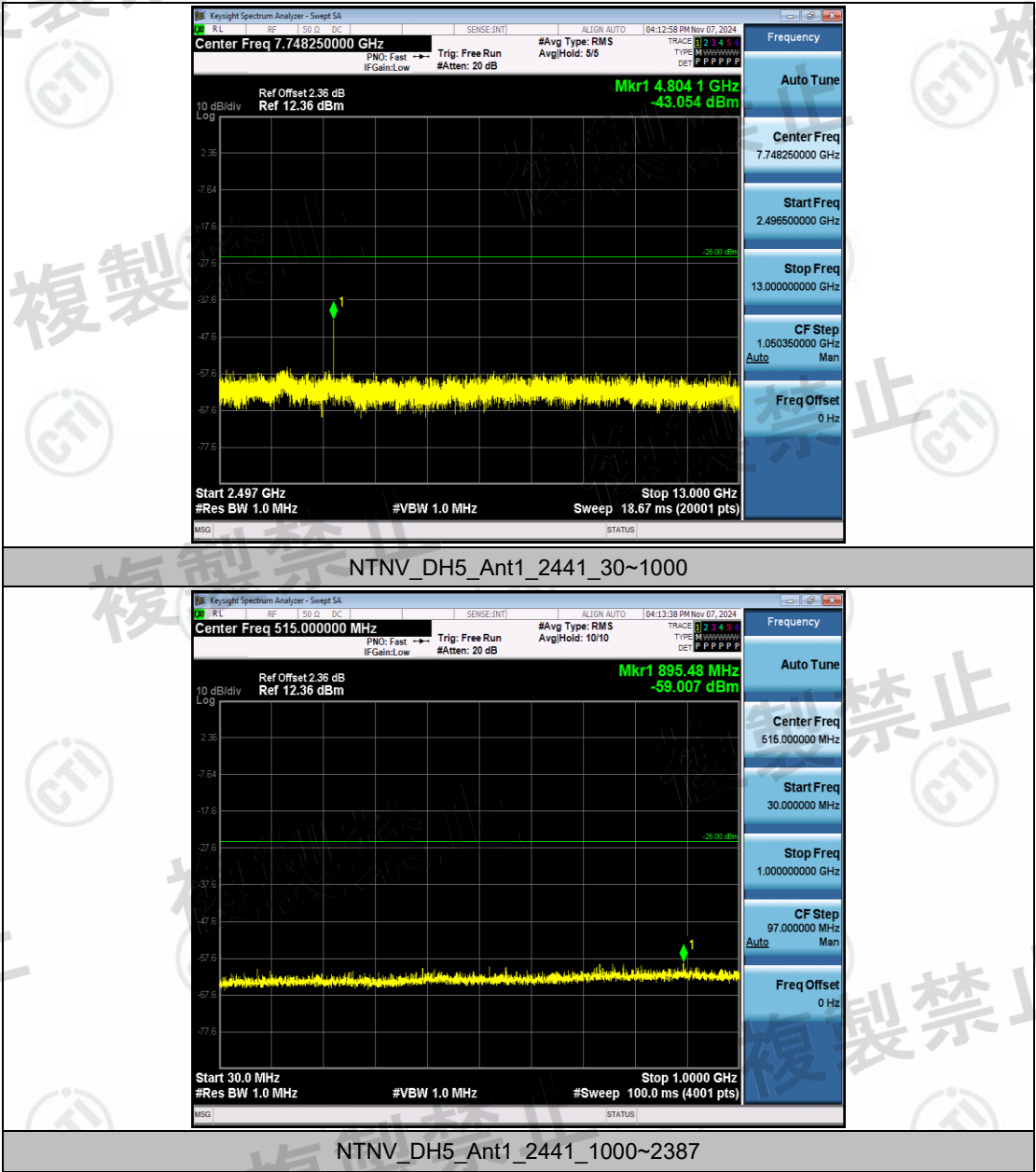
## Spurious Emission of TX

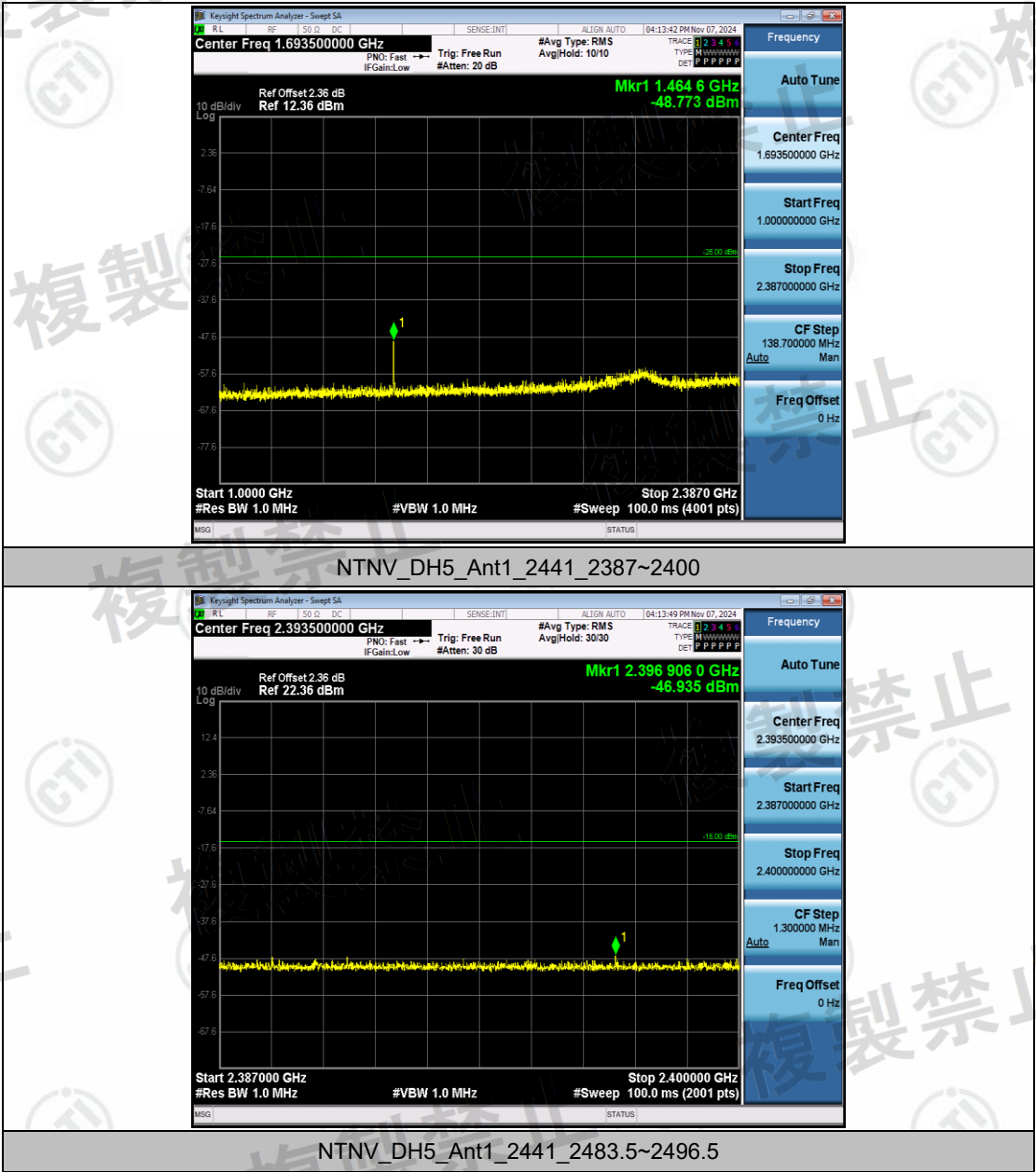
| Test Condition | Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Freq. [MHz] | Result [dBm/MHz] | Result [ $\mu$ W/MHz] | Limit [ $\mu$ W/MHz] | Verdict |
|----------------|-----------|---------|-----------------|-------------------|-------------|------------------|-----------------------|----------------------|---------|
| NTNV           | DH5       | Ant1    | 2402            | 30~1000           | 735.19      | -59.78           | 0.00105               | $\leq 2.5$           | PASS    |
| NTNV           | DH5       | Ant1    | 2402            | 1000~2387         | 1441.41     | -47.99           | 0.01589               | $\leq 2.5$           | PASS    |
| NTNV           | DH5       | Ant1    | 2402            | 2387~2400         | 2399.97     | -28.29           | 1.48252               | $\leq 25$            | PASS    |
| NTNV           | DH5       | Ant1    | 2402            | 2483.5~2496.5     | 2489.88     | -47.29           | 0.01866               | $\leq 25$            | PASS    |
| NTNV           | DH5       | Ant1    | 2402            | 2496.5~13000      | 4804.12     | -43.05           | 0.04955               | $\leq 2.5$           | PASS    |
| NTNV           | DH5       | Ant1    | 2441            | 30~1000           | 895.48      | -59.01           | 0.00126               | $\leq 2.5$           | PASS    |
| NTNV           | DH5       | Ant1    | 2441            | 1000~2387         | 1464.65     | -48.77           | 0.01327               | $\leq 2.5$           | PASS    |
| NTNV           | DH5       | Ant1    | 2441            | 2387~2400         | 2396.91     | -46.94           | 0.02023               | $\leq 25$            | PASS    |
| NTNV           | DH5       | Ant1    | 2441            | 2483.5~2496.5     | 2493.35     | -46.91           | 0.02037               | $\leq 25$            | PASS    |
| NTNV           | DH5       | Ant1    | 2441            | 2496.5~13000      | 4882.37     | -43.68           | 0.04285               | $\leq 2.5$           | PASS    |
| NTNV           | DH5       | Ant1    | 2480            | 30~1000           | 742.22      | -59.66           | 0.00108               | $\leq 2.5$           | PASS    |
| NTNV           | DH5       | Ant1    | 2480            | 1000~2387         | 1488.22     | -49.52           | 0.01117               | $\leq 2.5$           | PASS    |
| NTNV           | DH5       | Ant1    | 2480            | 2387~2400         | 2390.38     | -46.70           | 0.02138               | $\leq 25$            | PASS    |
| NTNV           | DH5       | Ant1    | 2480            | 2483.5~2496.5     | 2483.52     | -44.66           | 0.03420               | $\leq 25$            | PASS    |
| NTNV           | DH5       | Ant1    | 2480            | 2496.5~13000      | 4960.10     | -46.39           | 0.02296               | $\leq 2.5$           | PASS    |
| NTNV           | 2DH5      | Ant1    | 2402            | 30~1000           | 913.67      | -58.35           | 0.00146               | $\leq 2.5$           | PASS    |
| NTNV           | 2DH5      | Ant1    | 2402            | 1000~2387         | 1441.07     | -55.97           | 0.00253               | $\leq 2.5$           | PASS    |
| NTNV           | 2DH5      | Ant1    | 2402            | 2387~2400         | 2399.99     | -29.88           | 1.02802               | $\leq 25$            | PASS    |
| NTNV           | 2DH5      | Ant1    | 2402            | 2483.5~2496.5     | 2486.67     | -47.21           | 0.01901               | $\leq 25$            | PASS    |
| NTNV           | 2DH5      | Ant1    | 2402            | 2496.5~13000      | 4804.12     | -49.43           | 0.01140               | $\leq 2.5$           | PASS    |
| NTNV           | 2DH5      | Ant1    | 2441            | 30~1000           | 783.45      | -59.63           | 0.00109               | $\leq 2.5$           | PASS    |
| NTNV           | 2DH5      | Ant1    | 2441            | 1000~2387         | 1464.65     | -55.60           | 0.00275               | $\leq 2.5$           | PASS    |
| NTNV           | 2DH5      | Ant1    | 2441            | 2387~2400         | 2389.54     | -47.17           | 0.01919               | $\leq 25$            | PASS    |
| NTNV           | 2DH5      | Ant1    | 2441            | 2483.5~2496.5     | 2493.98     | -46.97           | 0.02009               | $\leq 25$            | PASS    |
| NTNV           | 2DH5      | Ant1    | 2441            | 2496.5~13000      | 4881.32     | -52.19           | 0.00604               | $\leq 2.5$           | PASS    |
| NTNV           | 2DH5      | Ant1    | 2480            | 30~1000           | 884.57      | -59.04           | 0.00125               | $\leq 2.5$           | PASS    |
| NTNV           | 2DH5      | Ant1    | 2480            | 1000~2387         | 1487.88     | -55.00           | 0.00316               | $\leq 2.5$           | PASS    |
| NTNV           | 2DH5      | Ant1    | 2480            | 2387~2400         | 2390.41     | -46.72           | 0.02128               | $\leq 25$            | PASS    |
| NTNV           | 2DH5      | Ant1    | 2480            | 2483.5~2496.5     | 2488.75     | -47.21           | 0.01901               | $\leq 25$            | PASS    |
| NTNV           | 2DH5      | Ant1    | 2480            | 2496.5~13000      | 4670.72     | -55.17           | 0.00304               | $\leq 2.5$           | PASS    |
| NTNV           | 3DH5      | Ant1    | 2402            | 30~1000           | 835.10      | -58.57           | 0.00139               | $\leq 2.5$           | PASS    |
| NTNV           | 3DH5      | Ant1    | 2402            | 1000~2387         | 1441.07     | -56.04           | 0.00249               | $\leq 2.5$           | PASS    |
| NTNV           | 3DH5      | Ant1    | 2402            | 2387~2400         | 2400.00     | -29.34           | 1.16413               | $\leq 25$            | PASS    |
| NTNV           | 3DH5      | Ant1    | 2402            | 2483.5~2496.5     | 2492.74     | -47.67           | 0.01710               | $\leq 25$            | PASS    |
| NTNV           | 3DH5      | Ant1    | 2402            | 2496.5~13000      | 4803.59     | -50.87           | 0.00818               | $\leq 2.5$           | PASS    |

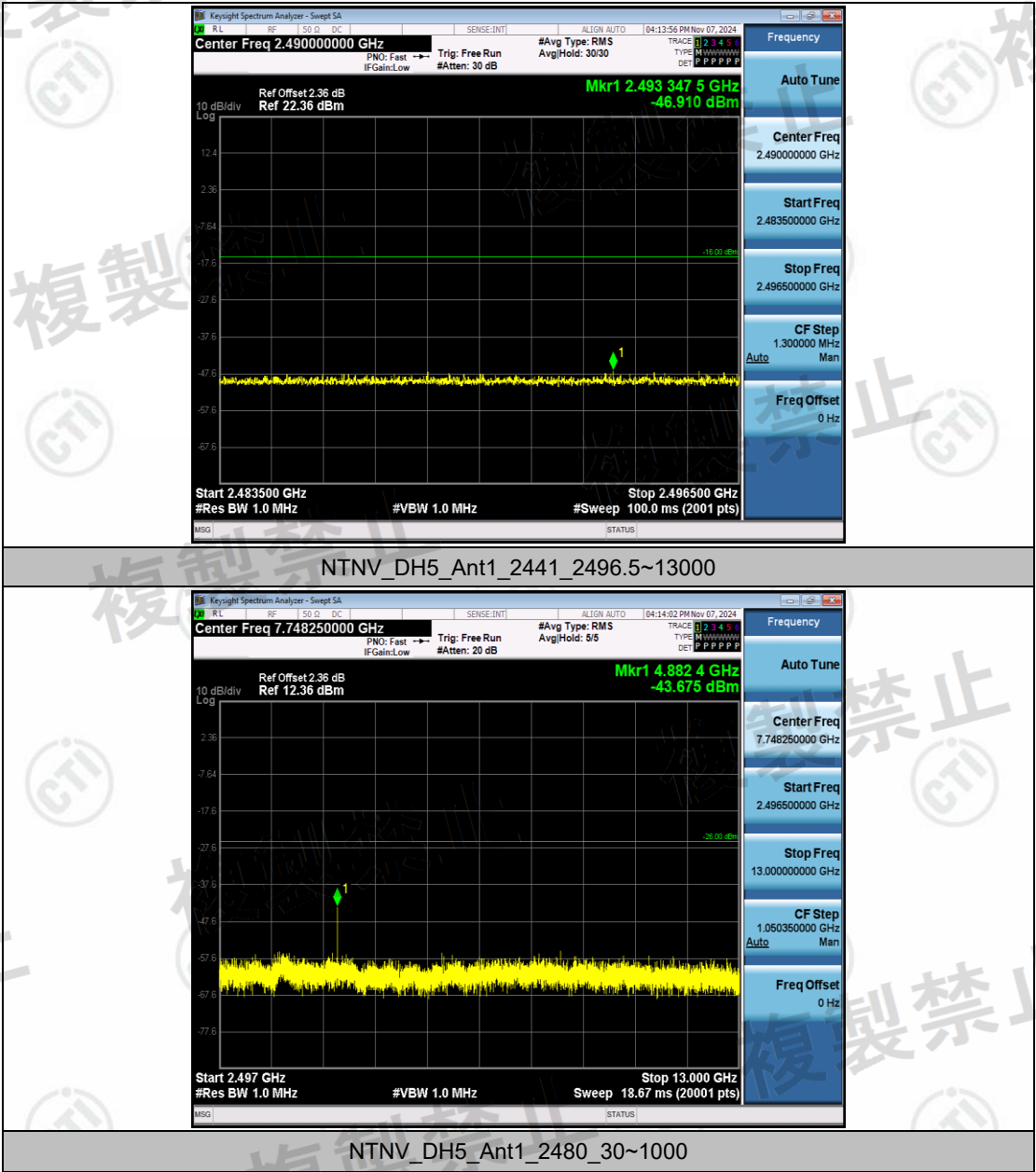
|      |      |      |      |               |         |        |         |      |      |
|------|------|------|------|---------------|---------|--------|---------|------|------|
| NTNV | 3DH5 | Ant1 | 2441 | 30~1000       | 883.36  | -58.95 | 0.00127 | ≤2.5 | PASS |
| NTNV | 3DH5 | Ant1 | 2441 | 1000~2387     | 1464.65 | -55.62 | 0.00274 | ≤2.5 | PASS |
| NTNV | 3DH5 | Ant1 | 2441 | 2387~2400     | 2393.81 | -46.95 | 0.02018 | ≤25  | PASS |
| NTNV | 3DH5 | Ant1 | 2441 | 2483.5~2496.5 | 2493.56 | -47.05 | 0.01972 | ≤25  | PASS |
| NTNV | 3DH5 | Ant1 | 2441 | 2496.5~13000  | 4882.37 | -53.17 | 0.00482 | ≤2.5 | PASS |
| NTNV | 3DH5 | Ant1 | 2480 | 30~1000       | 850.86  | -59.58 | 0.00110 | ≤2.5 | PASS |
| NTNV | 3DH5 | Ant1 | 2480 | 1000~2387     | 1488.22 | -55.94 | 0.00255 | ≤2.5 | PASS |
| NTNV | 3DH5 | Ant1 | 2480 | 2387~2400     | 2393.55 | -46.83 | 0.02075 | ≤25  | PASS |
| NTNV | 3DH5 | Ant1 | 2480 | 2483.5~2496.5 | 2488.45 | -47.02 | 0.01986 | ≤25  | PASS |
| NTNV | 3DH5 | Ant1 | 2480 | 2496.5~13000  | 4960.10 | -52.80 | 0.00525 | ≤2.5 | PASS |

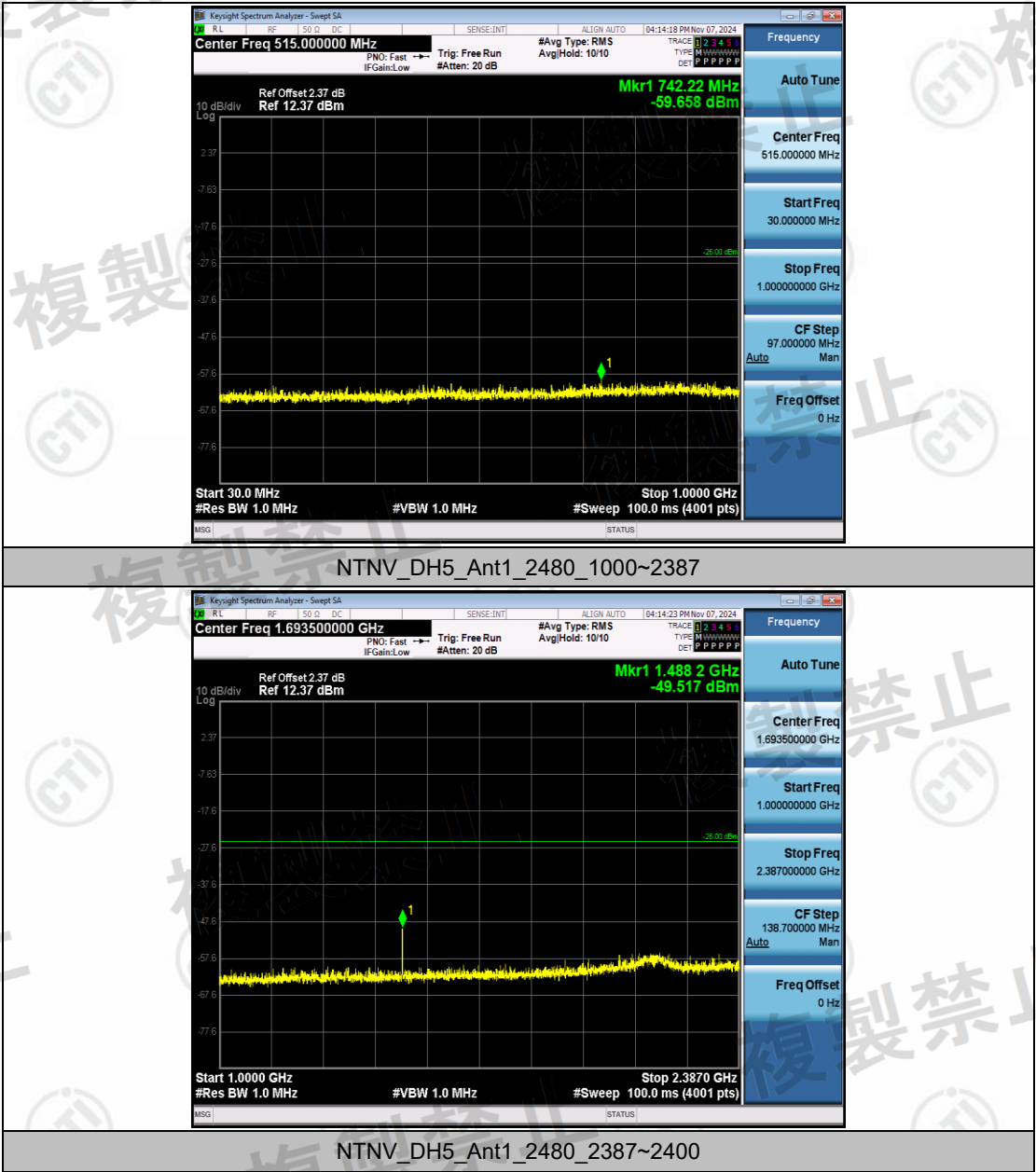


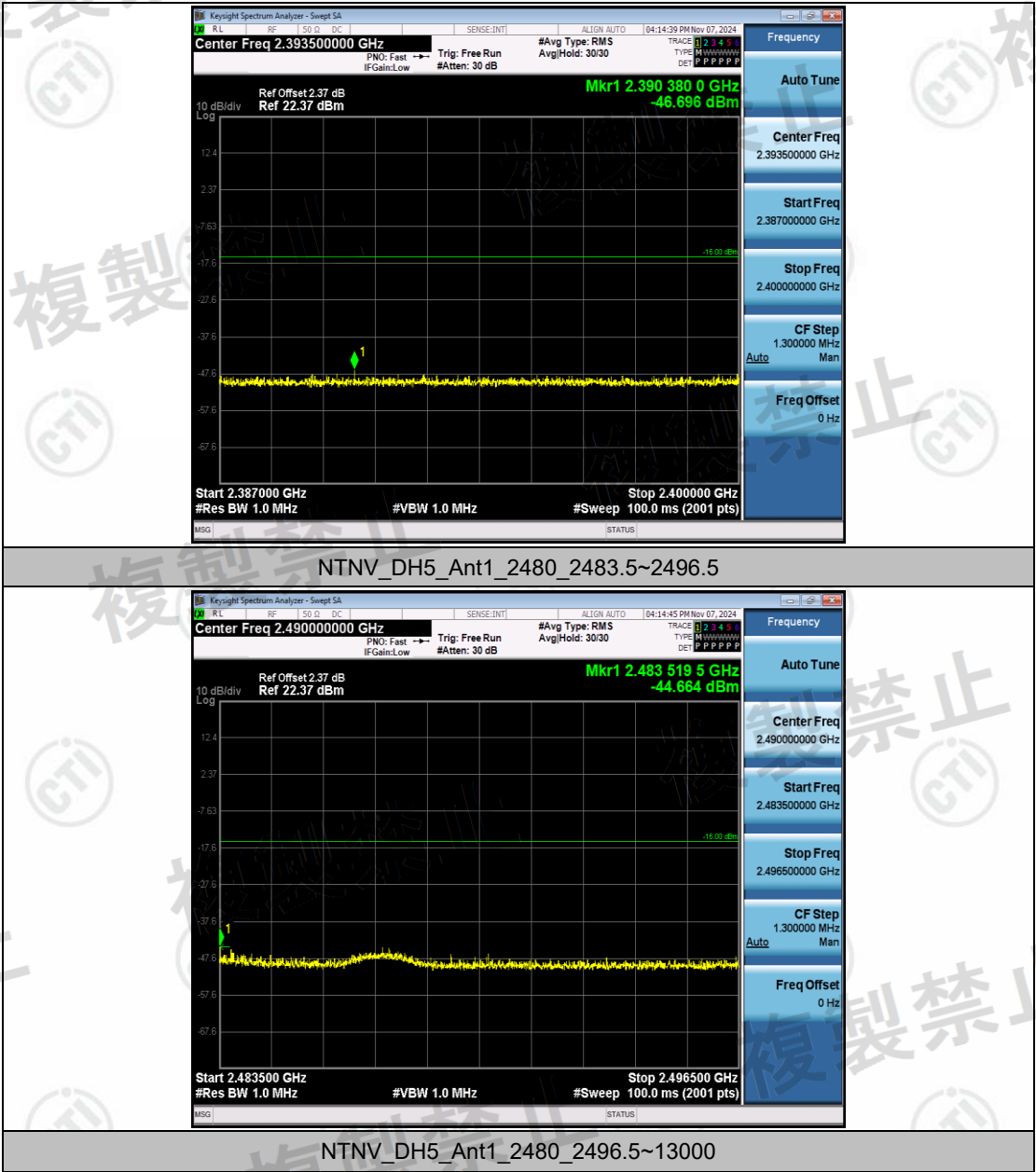


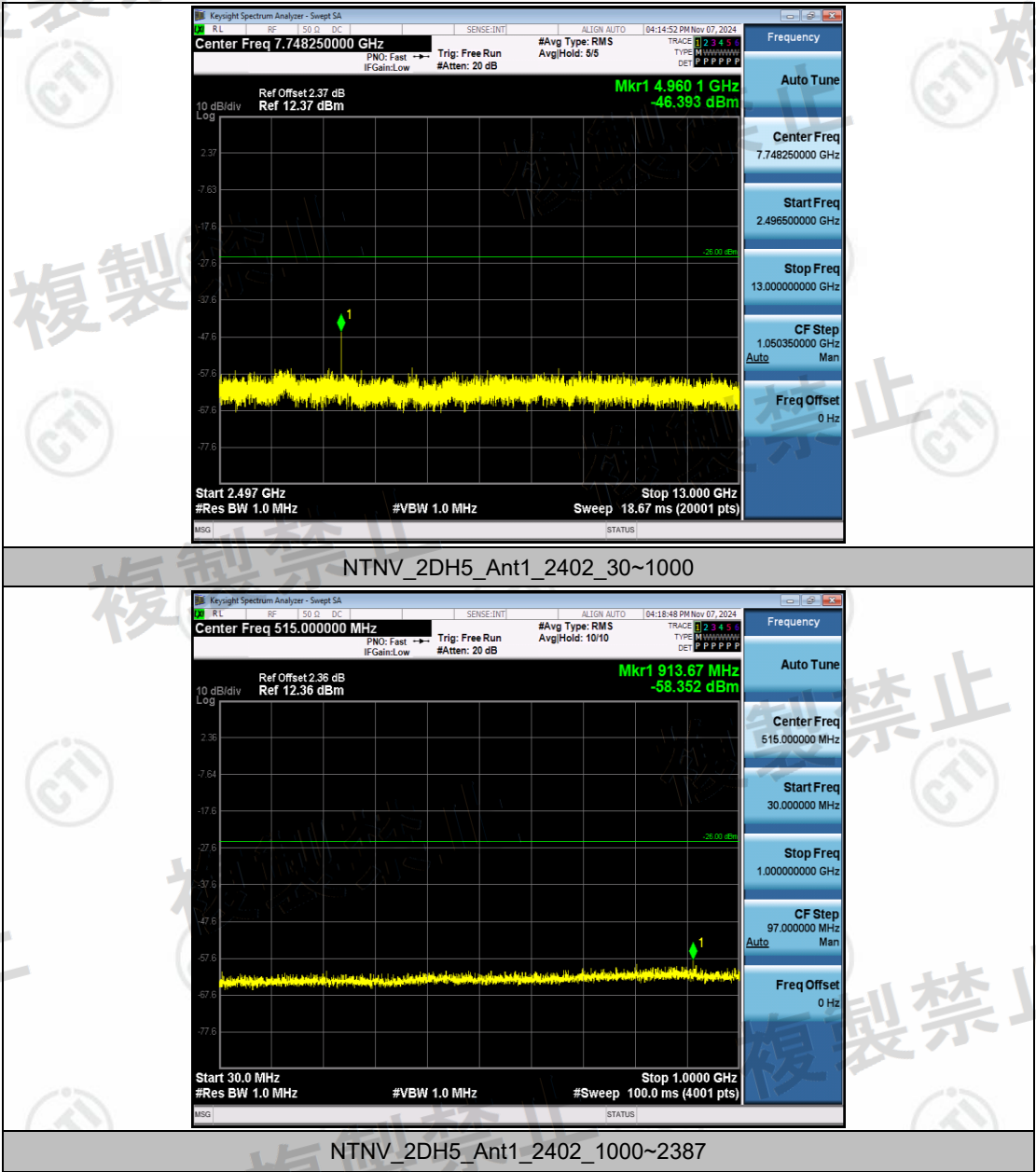


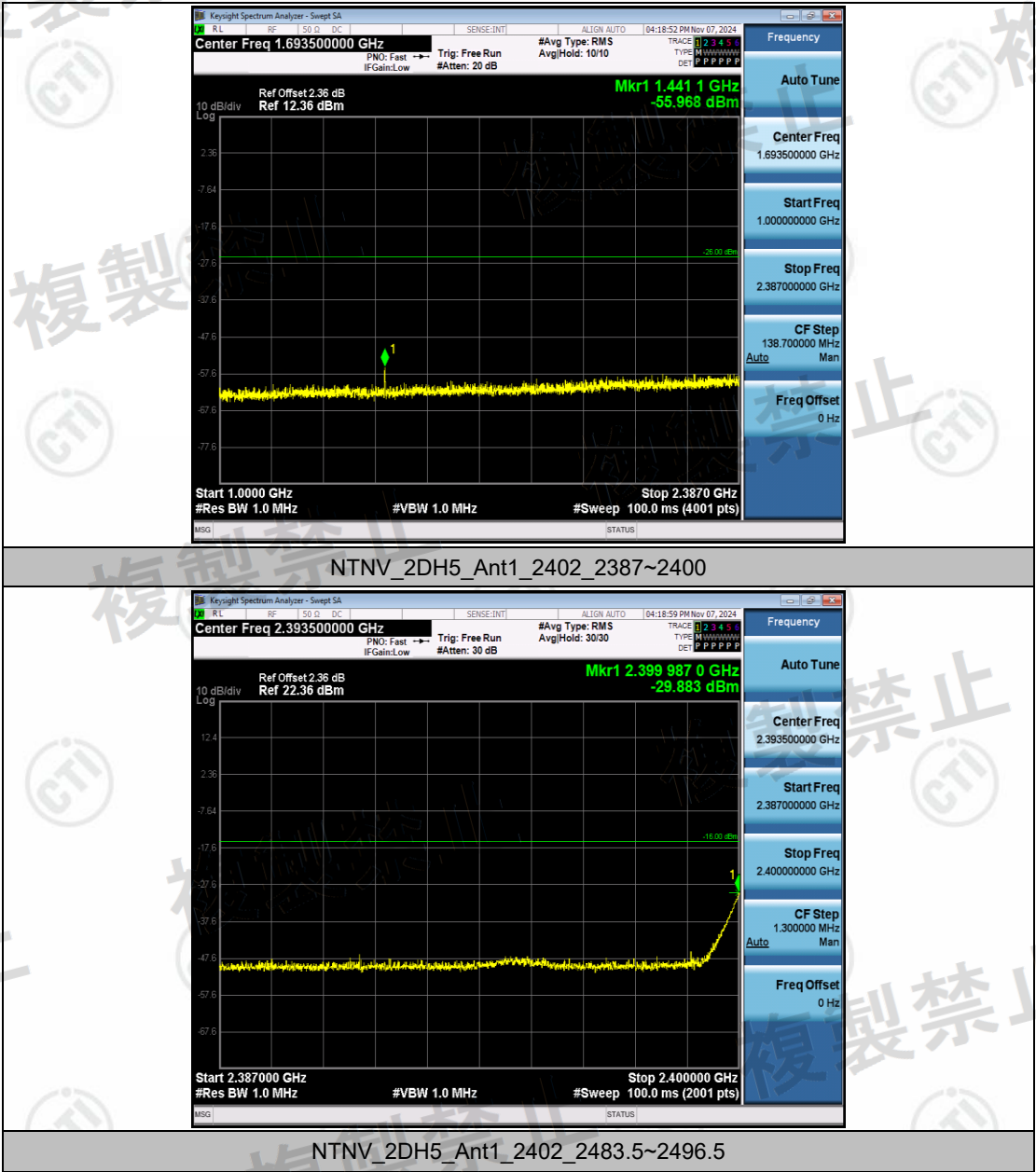


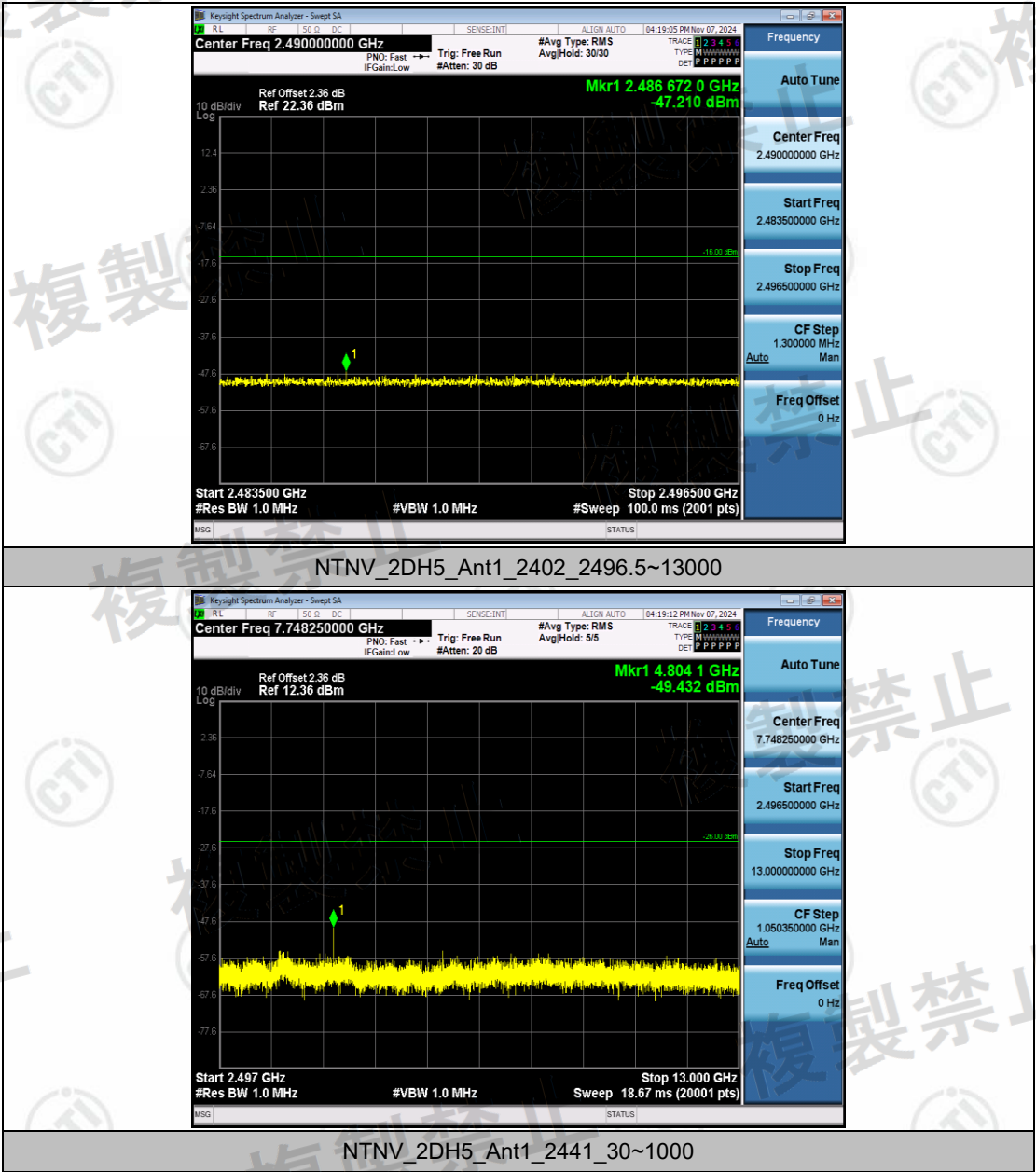


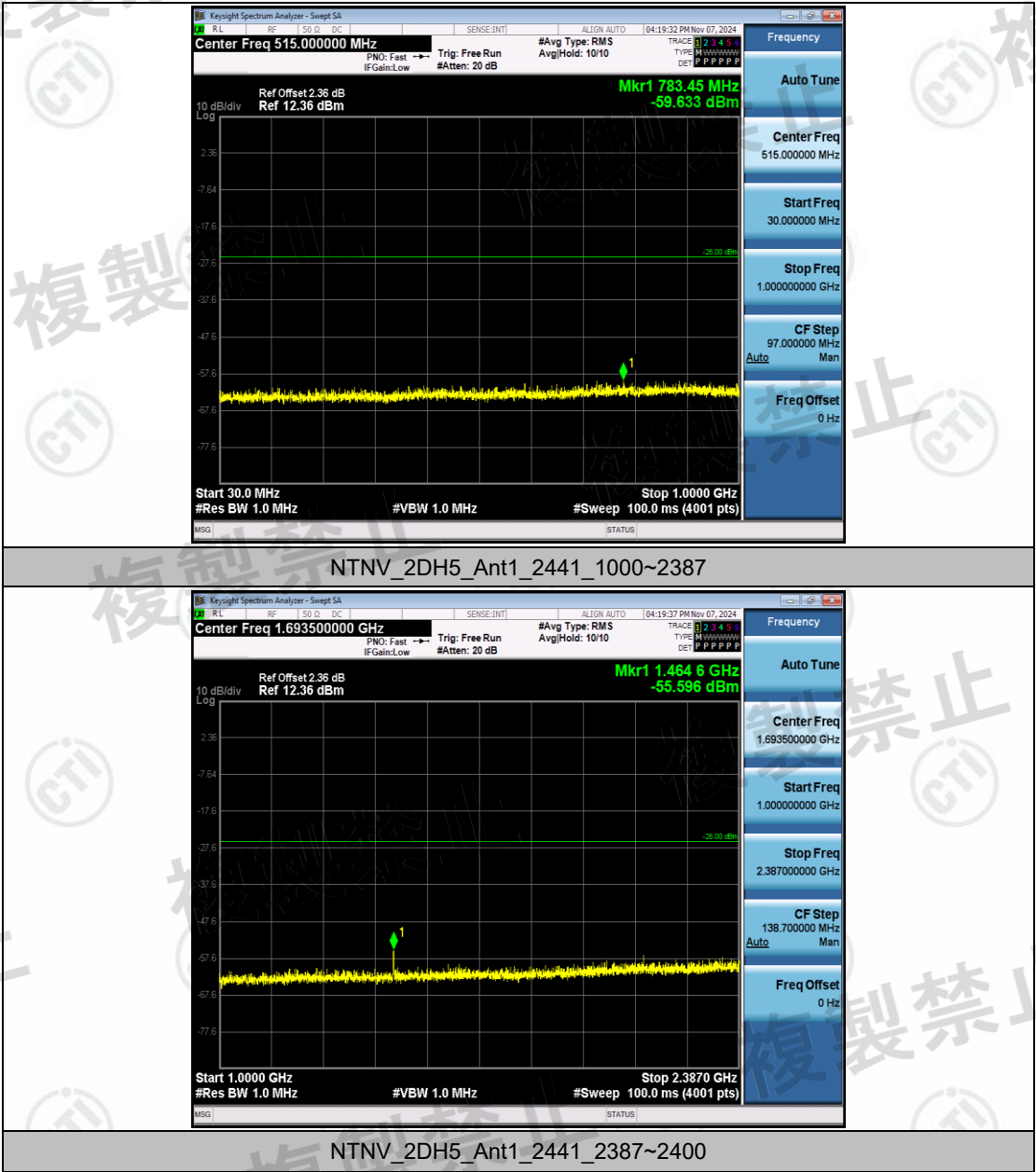


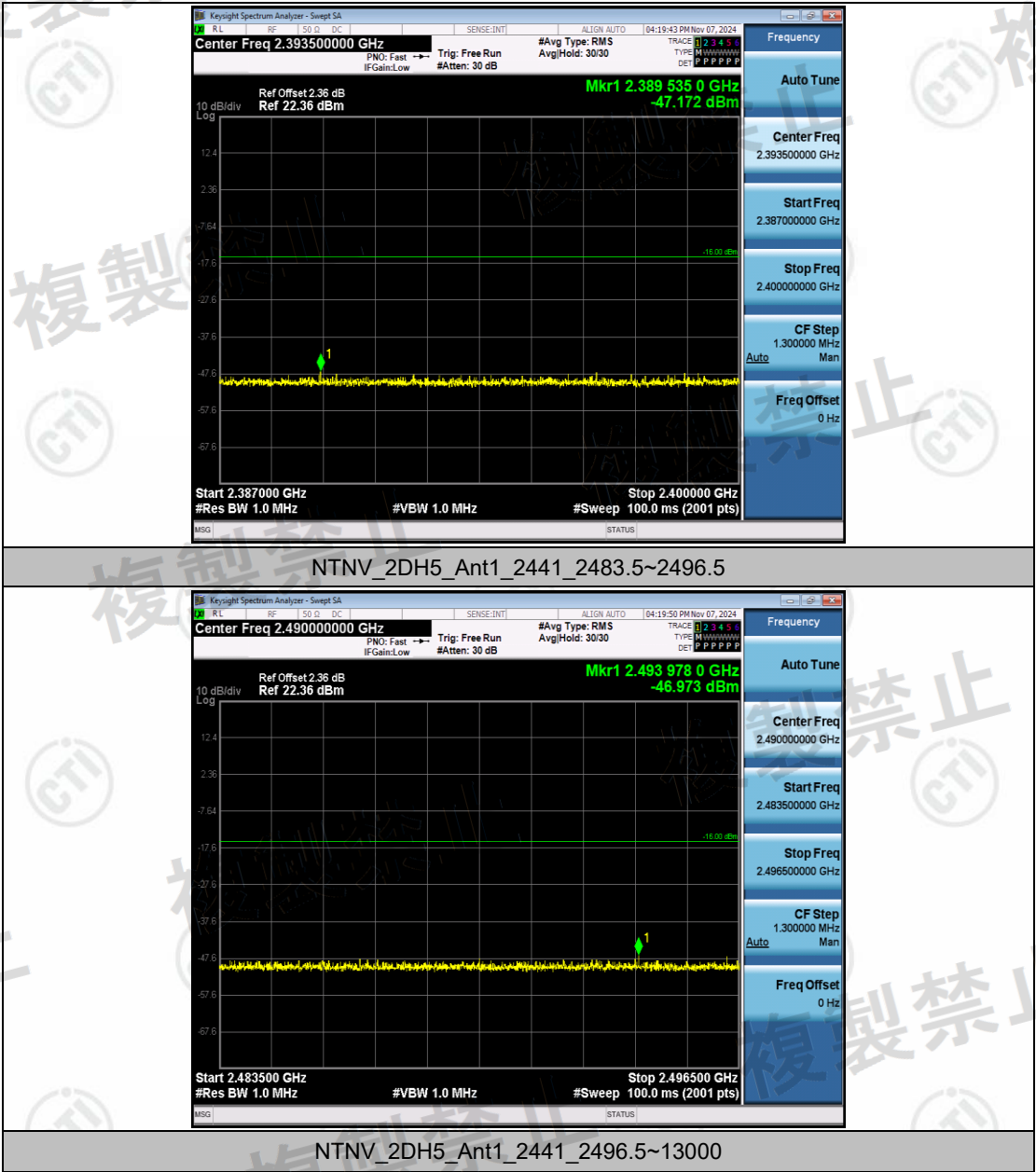


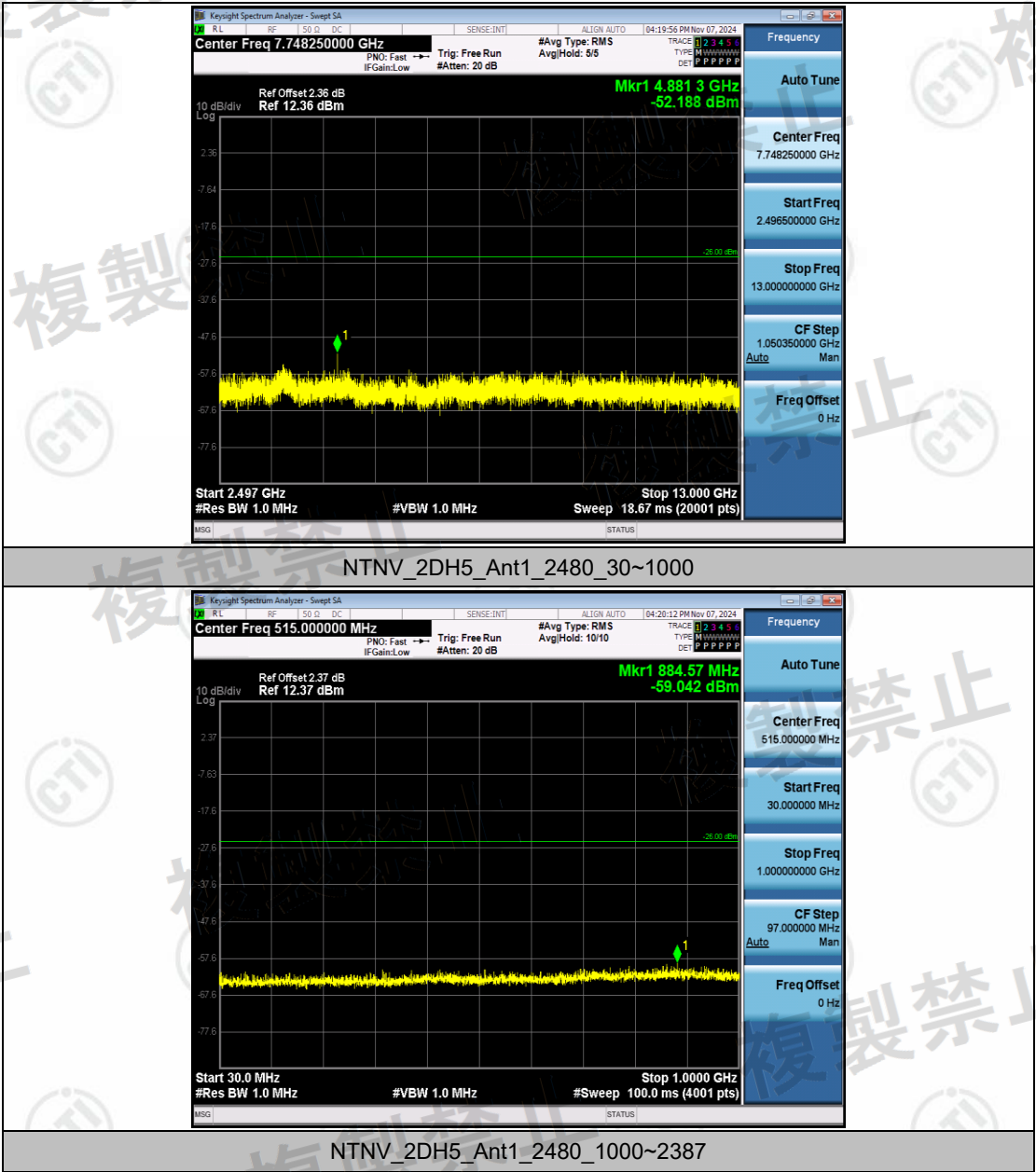


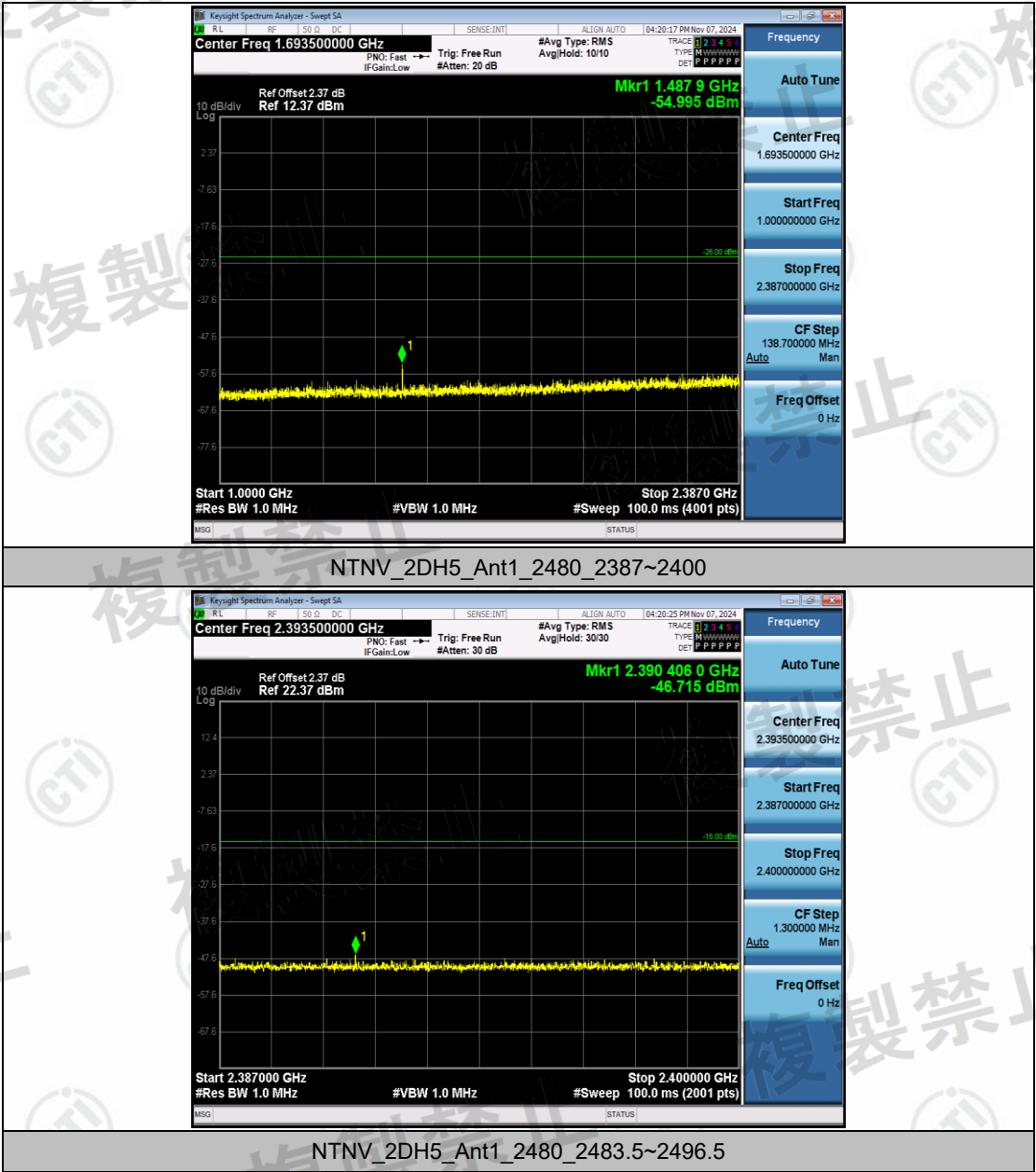


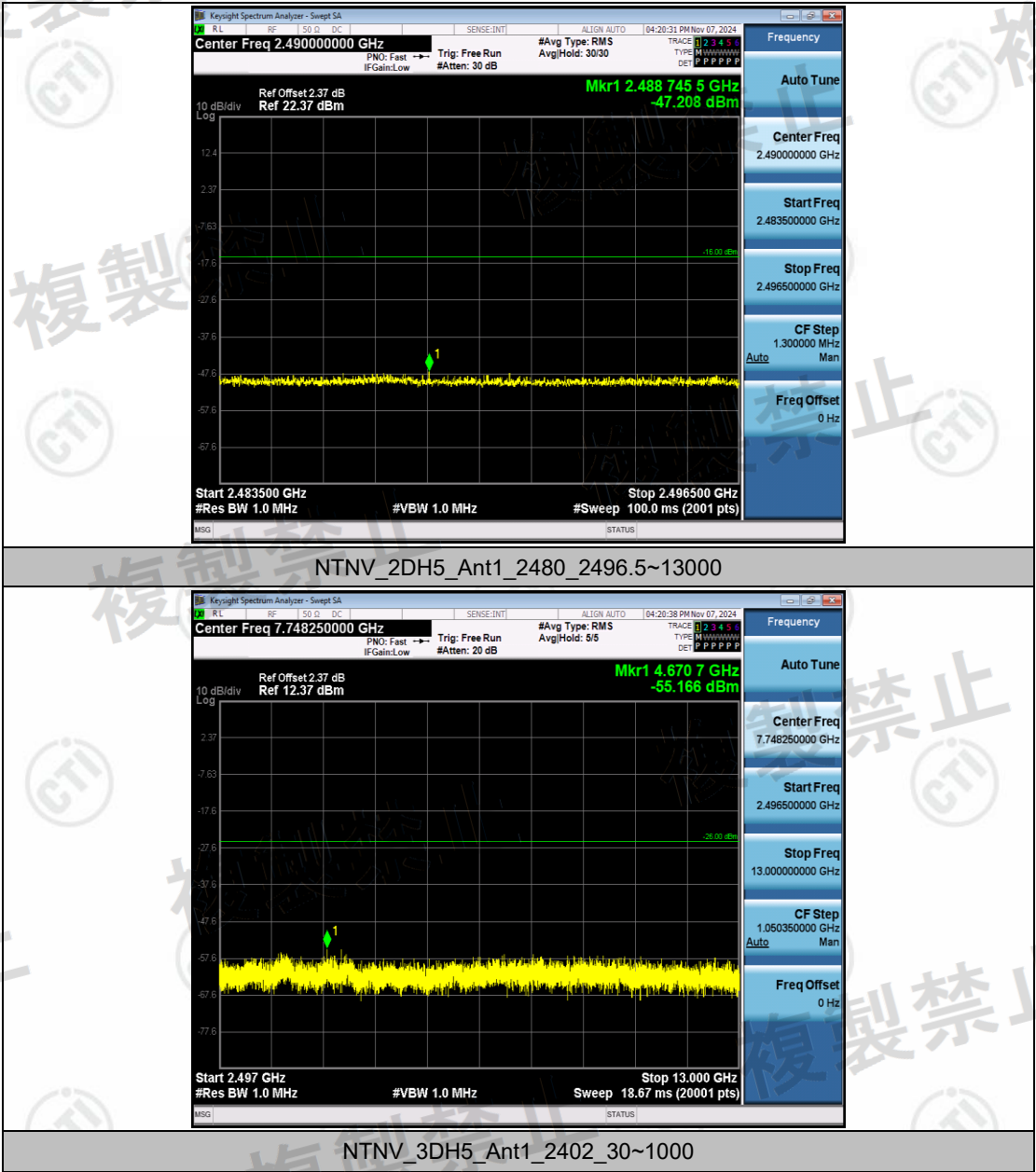


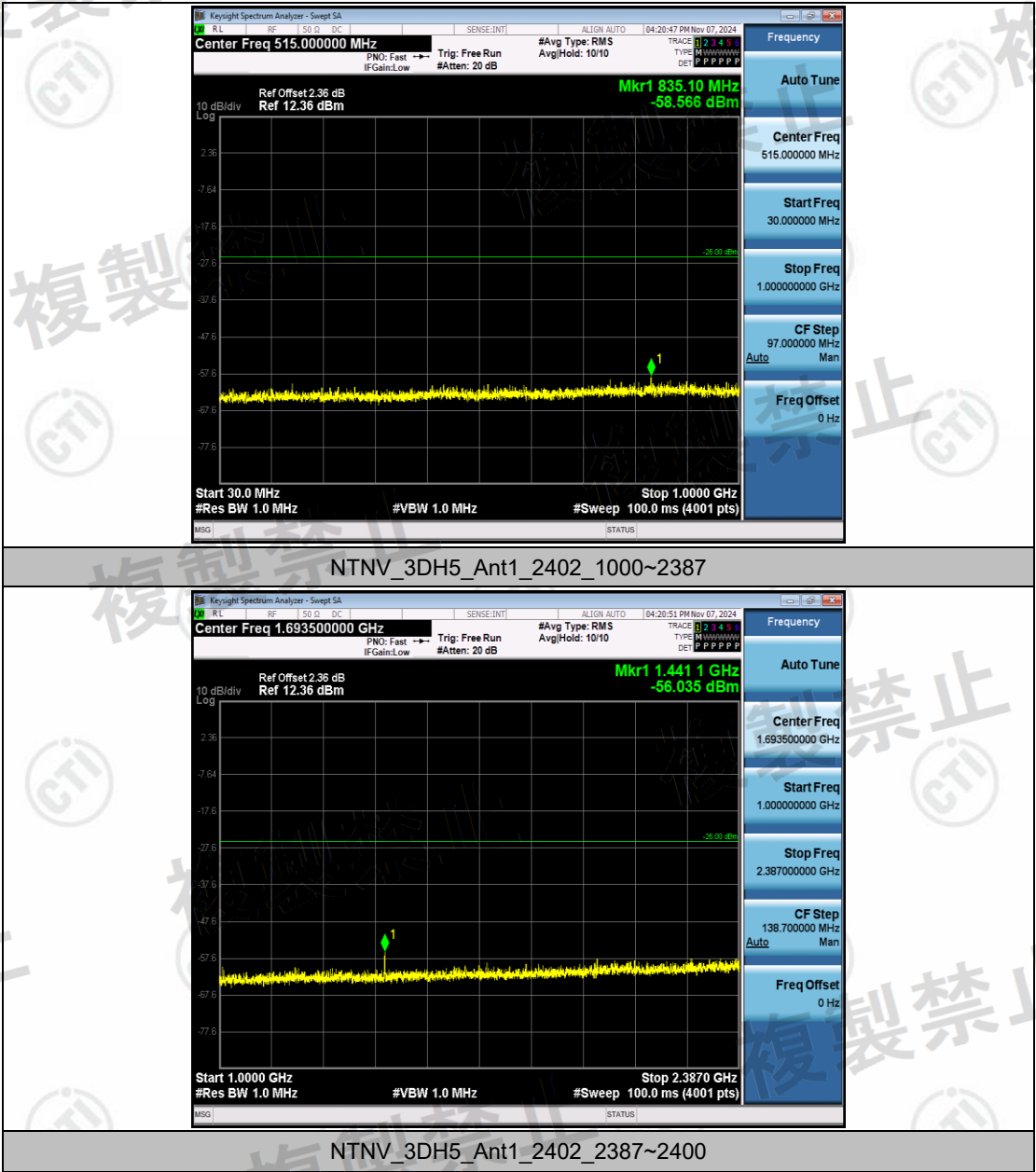


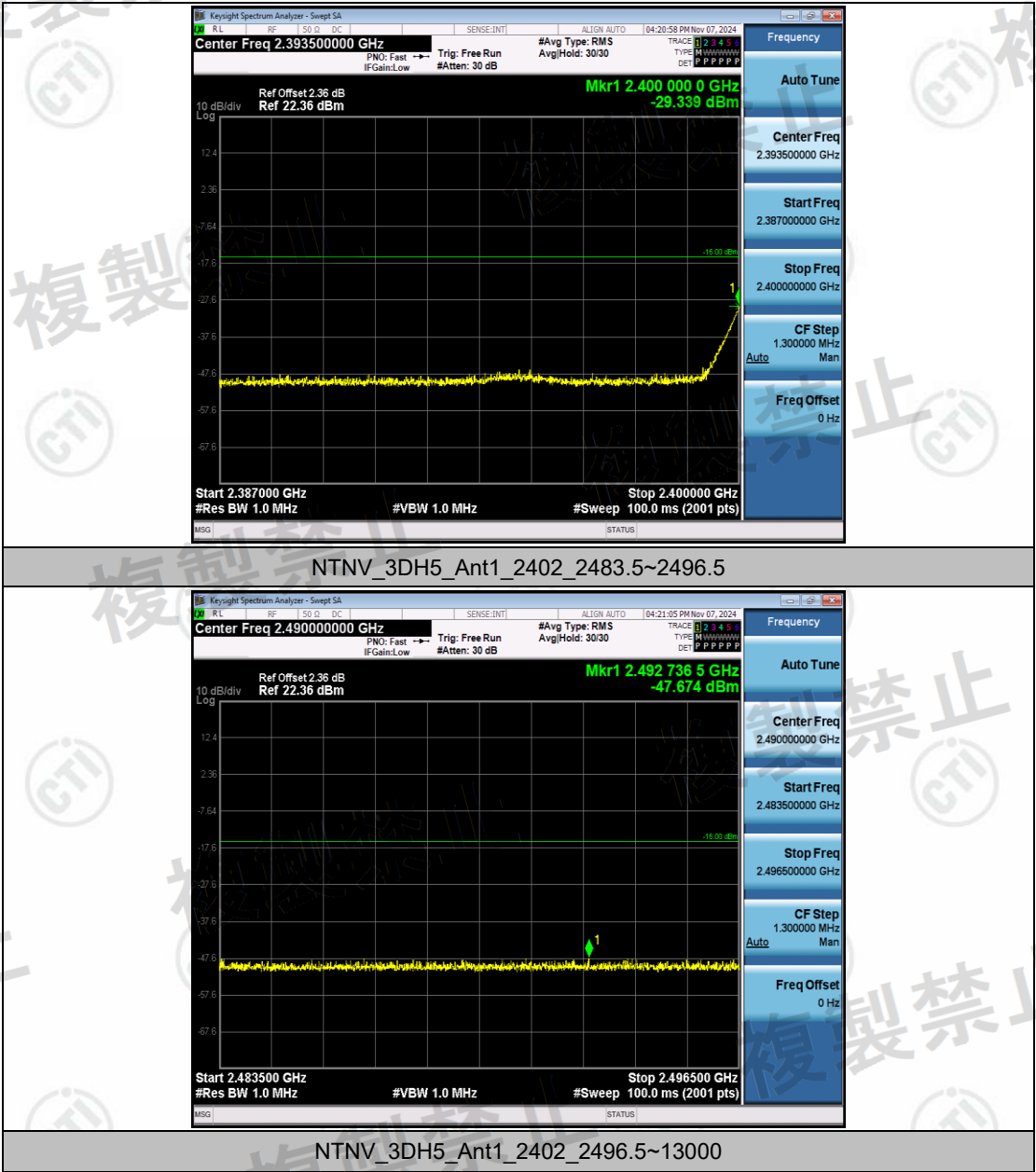


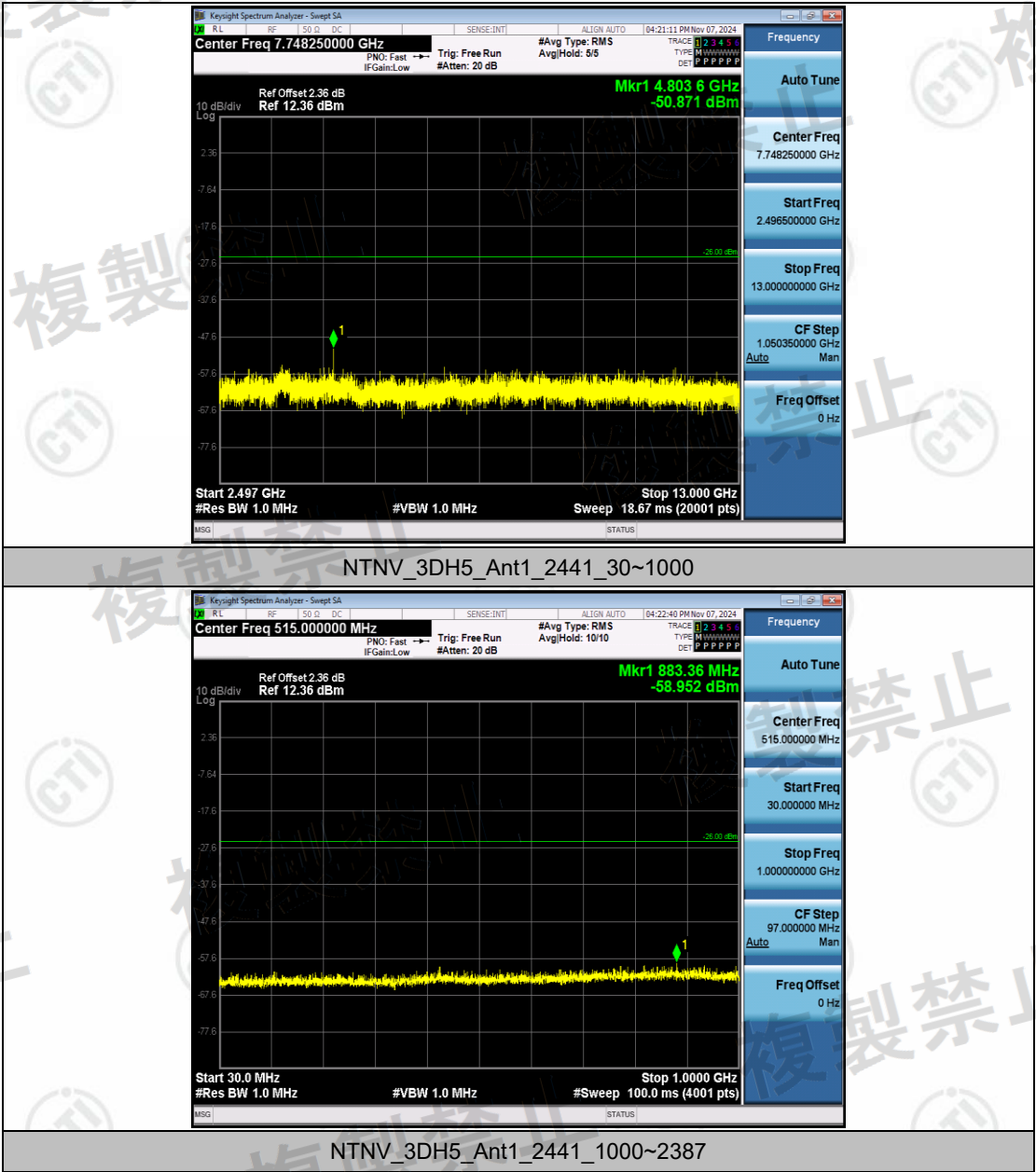


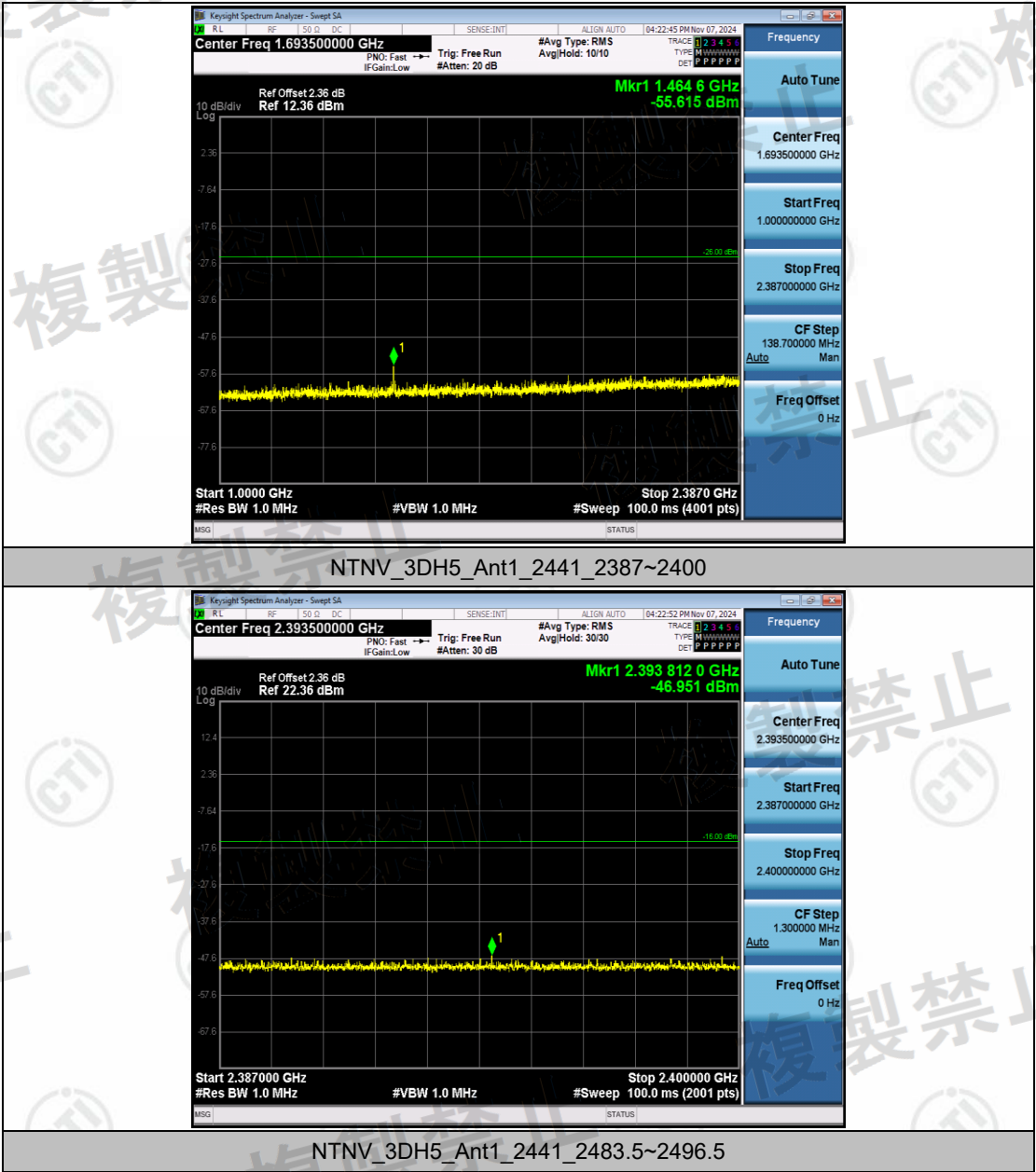


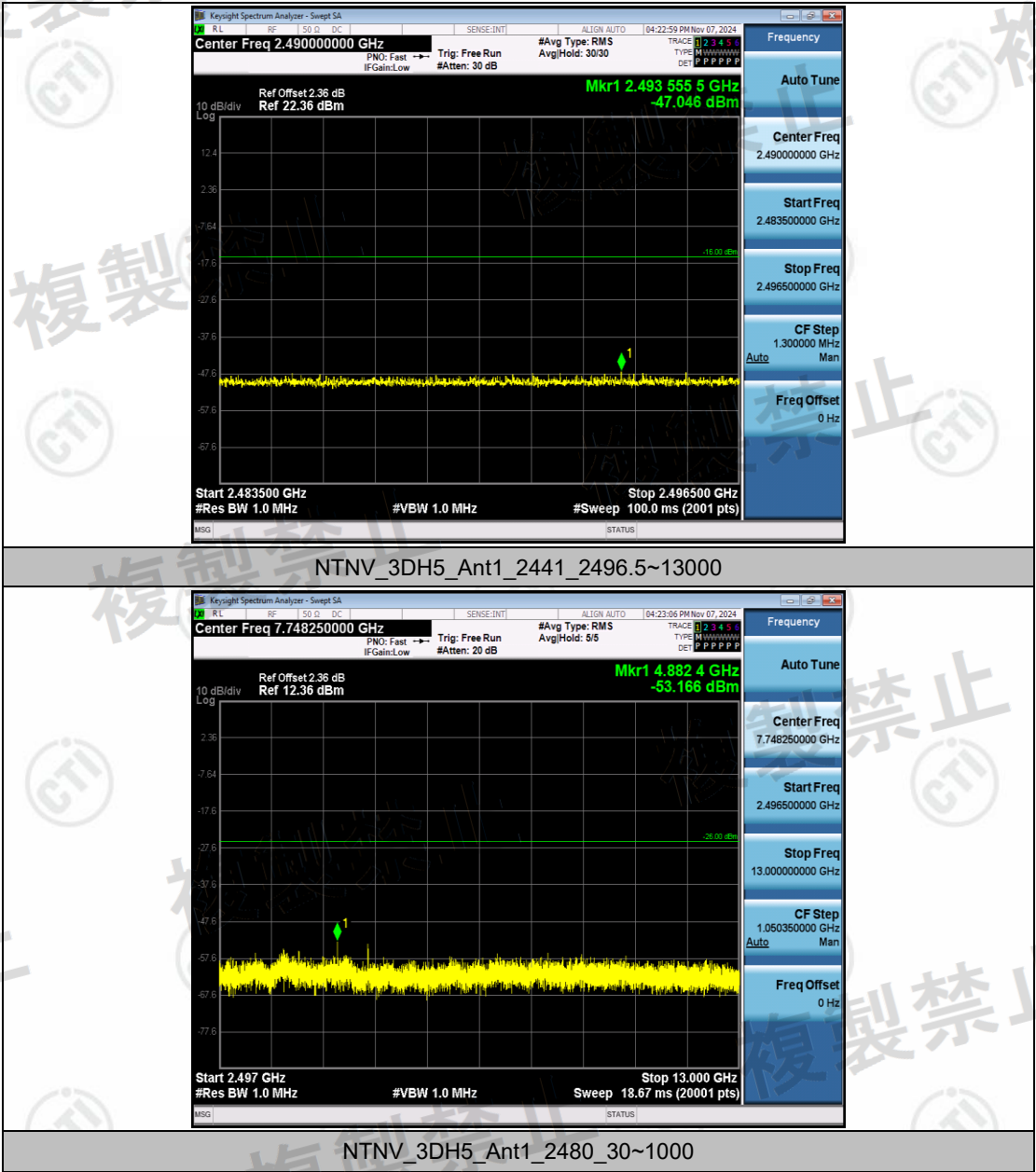


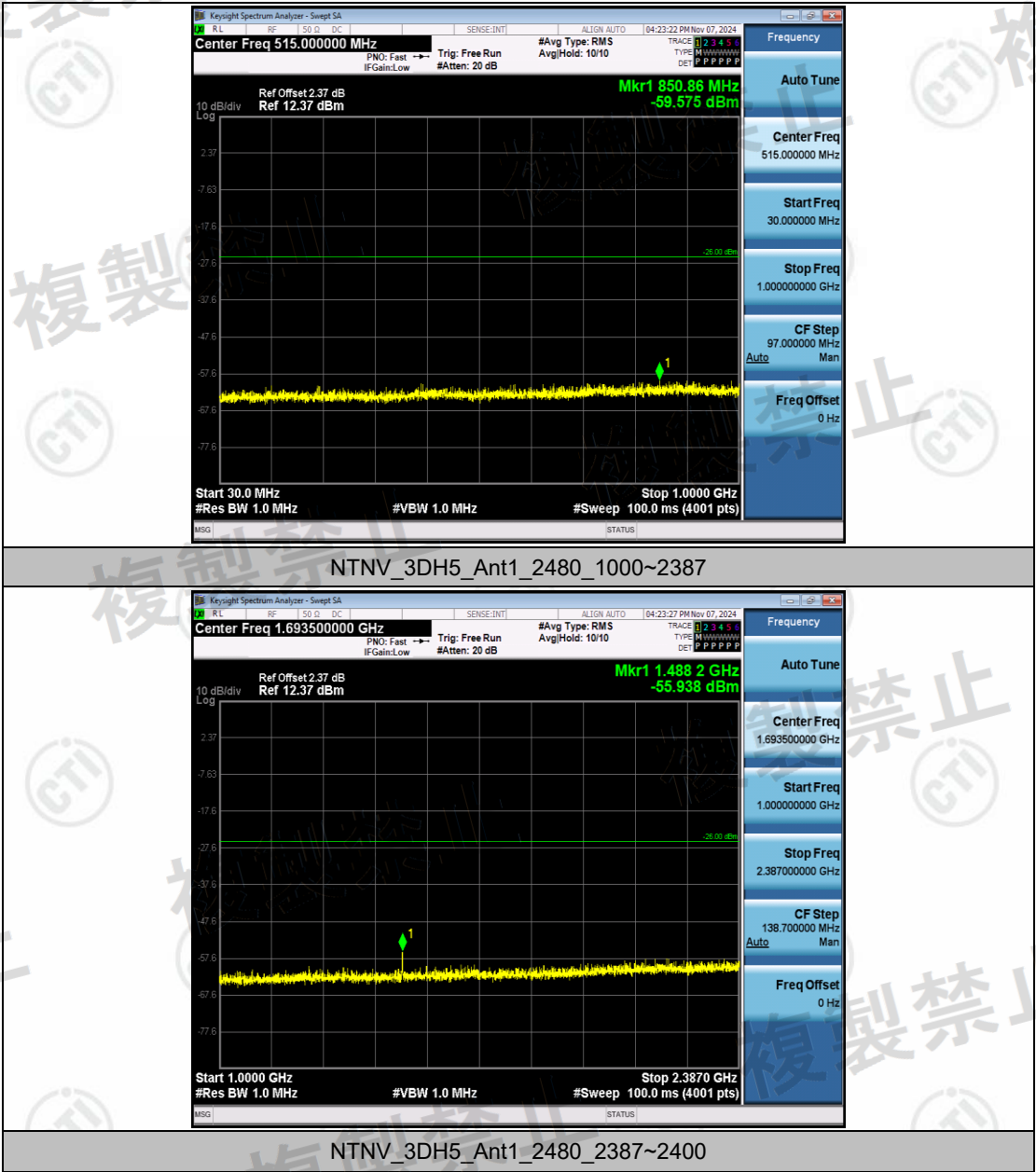


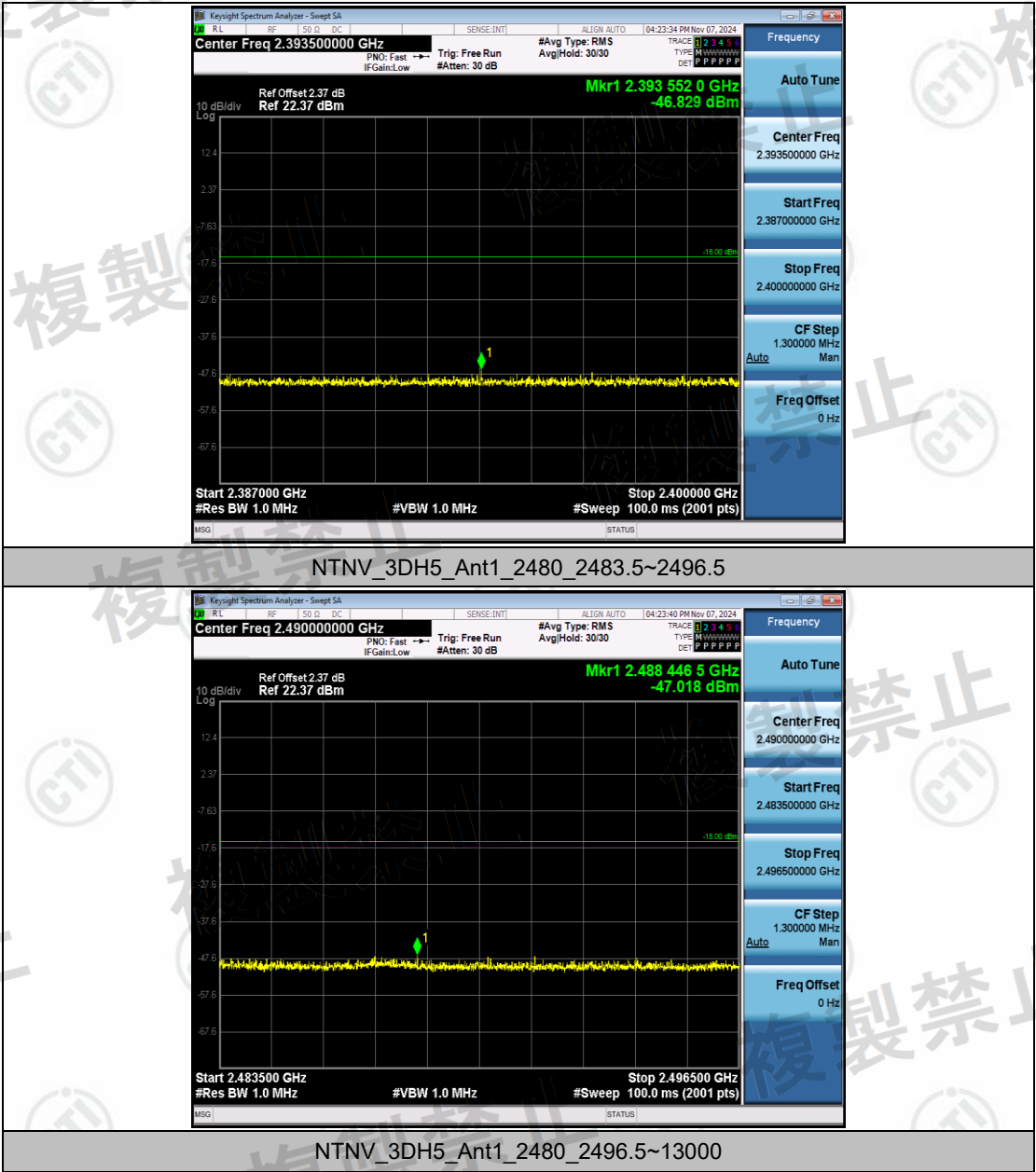


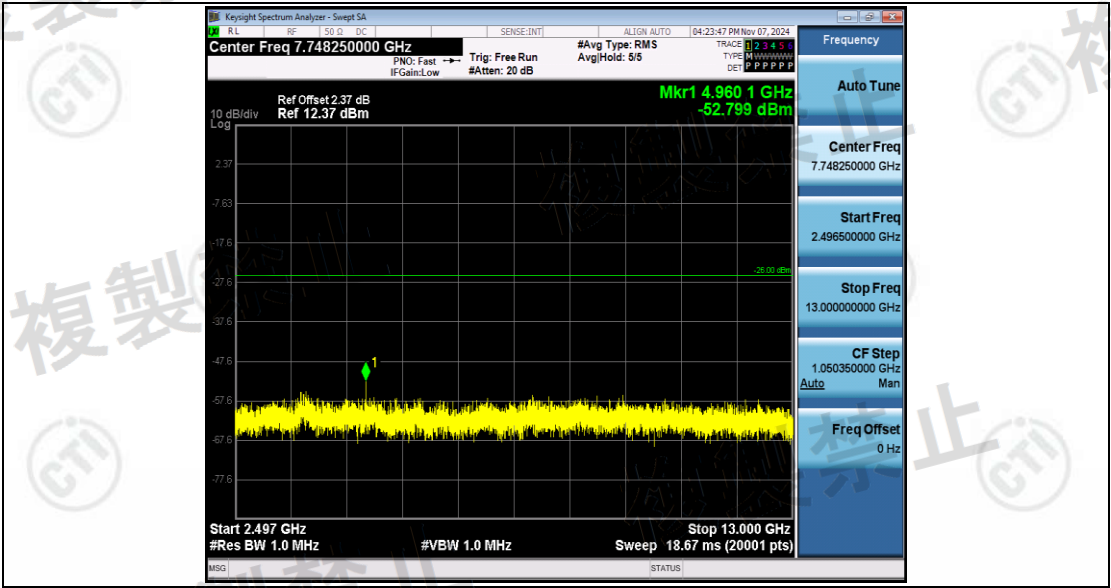






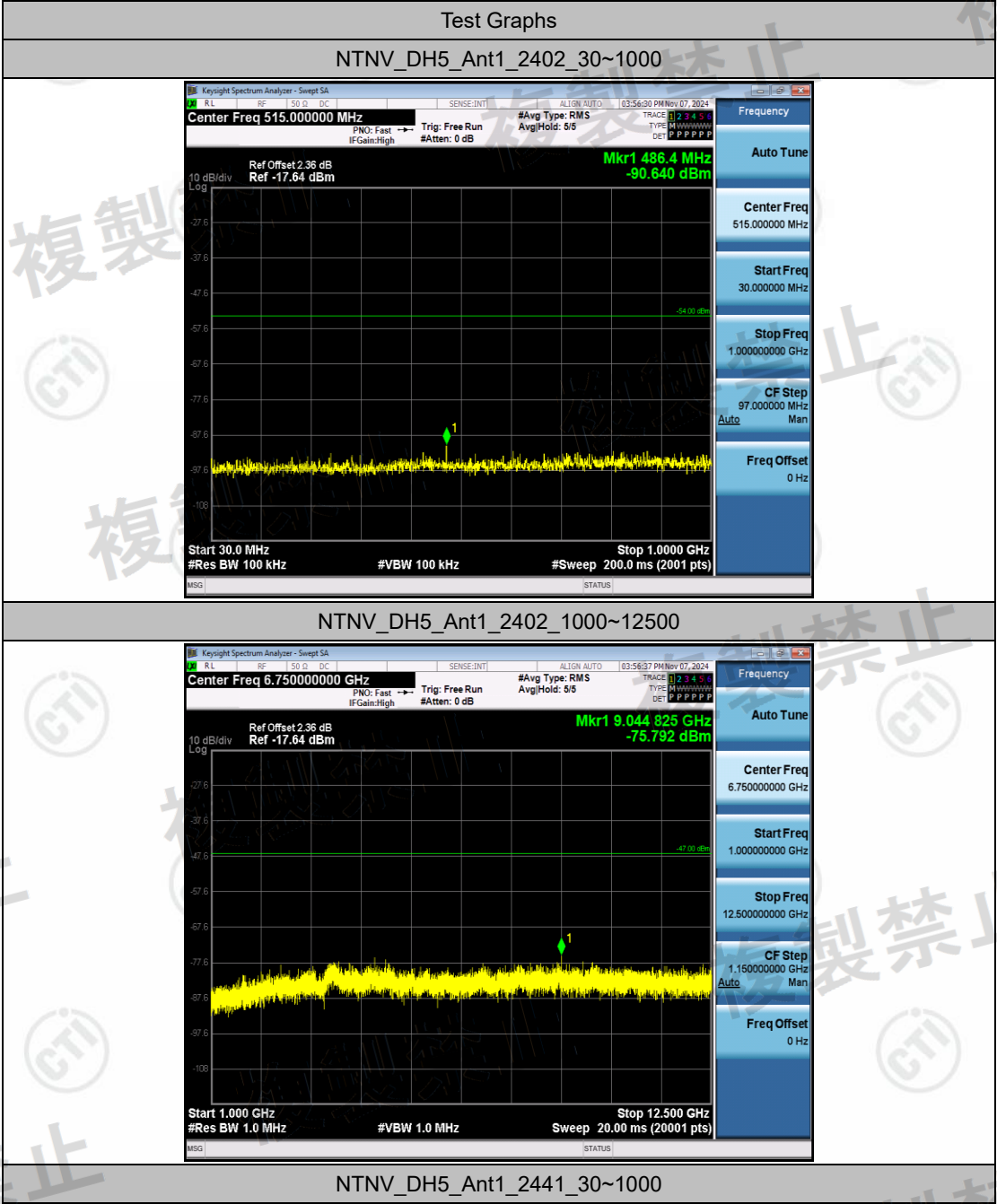


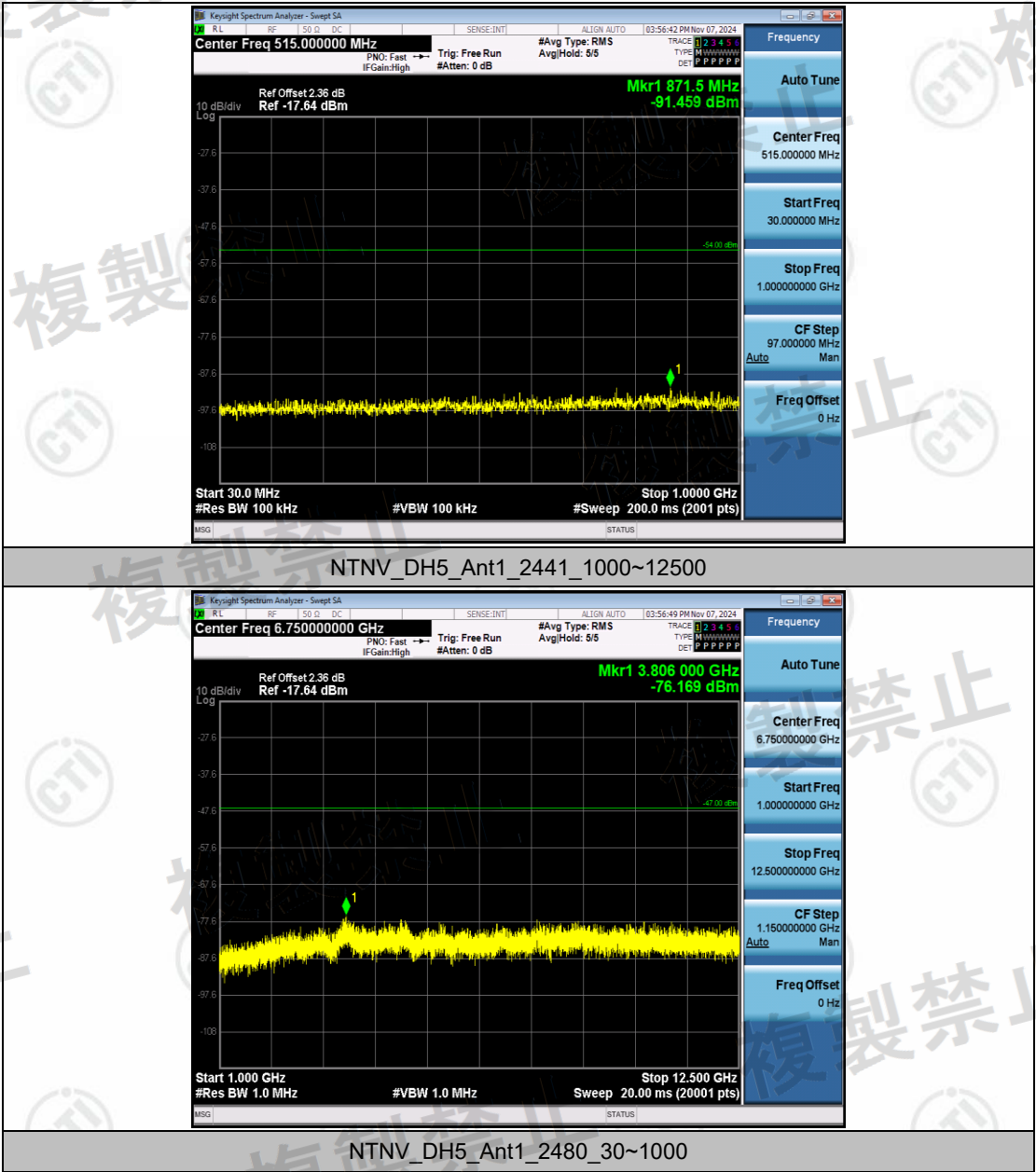


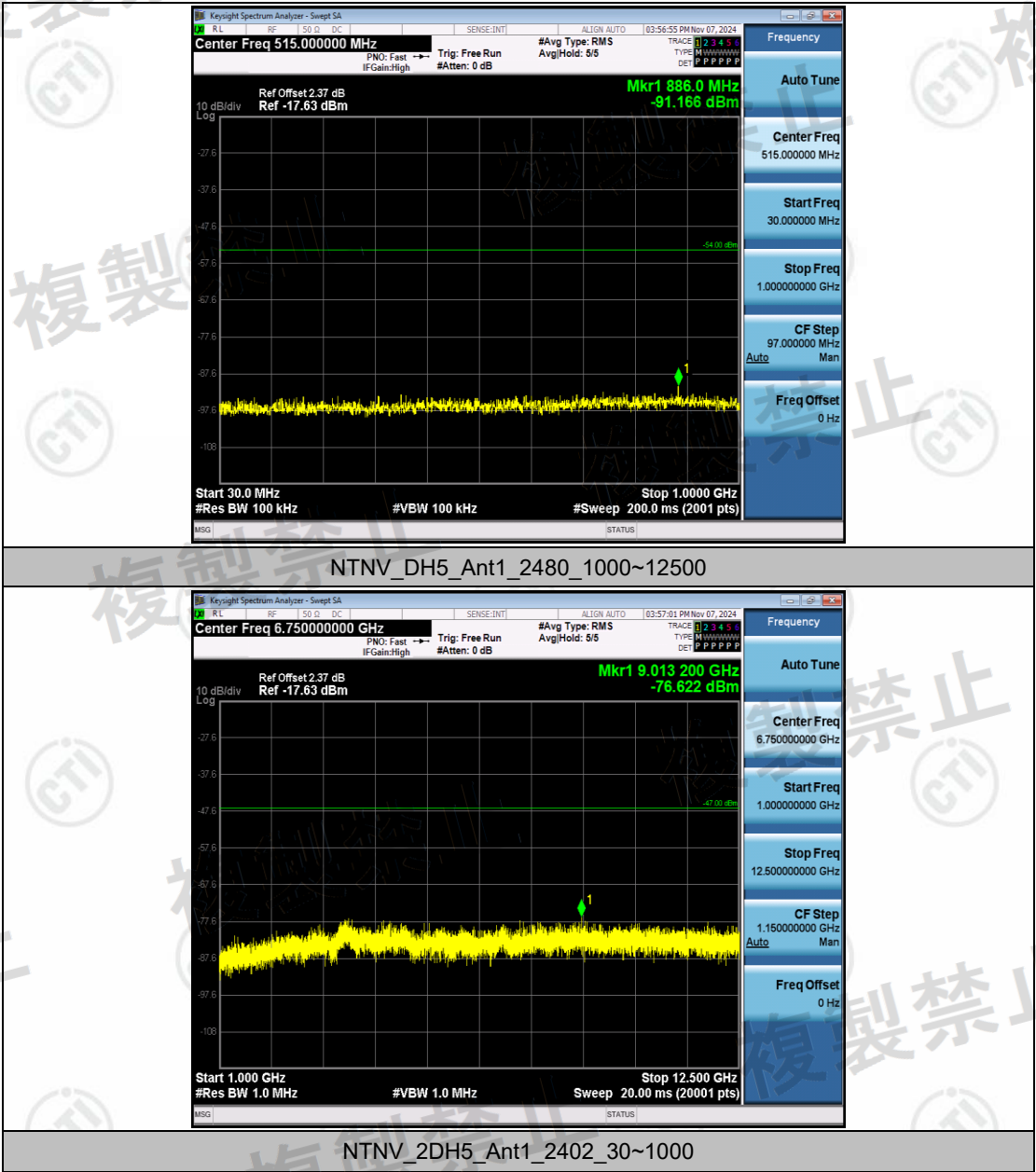


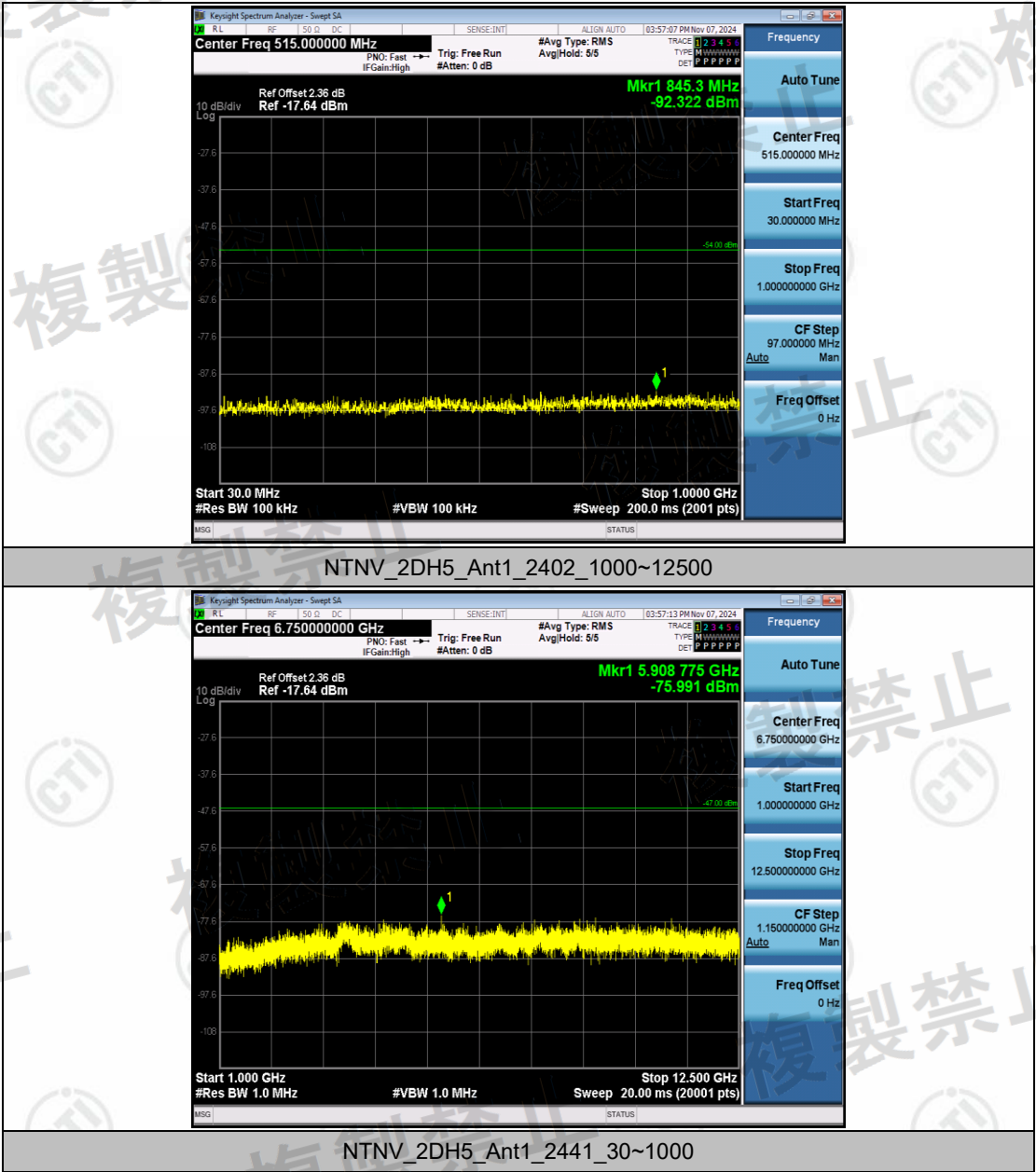
## Spurious Emission of RX

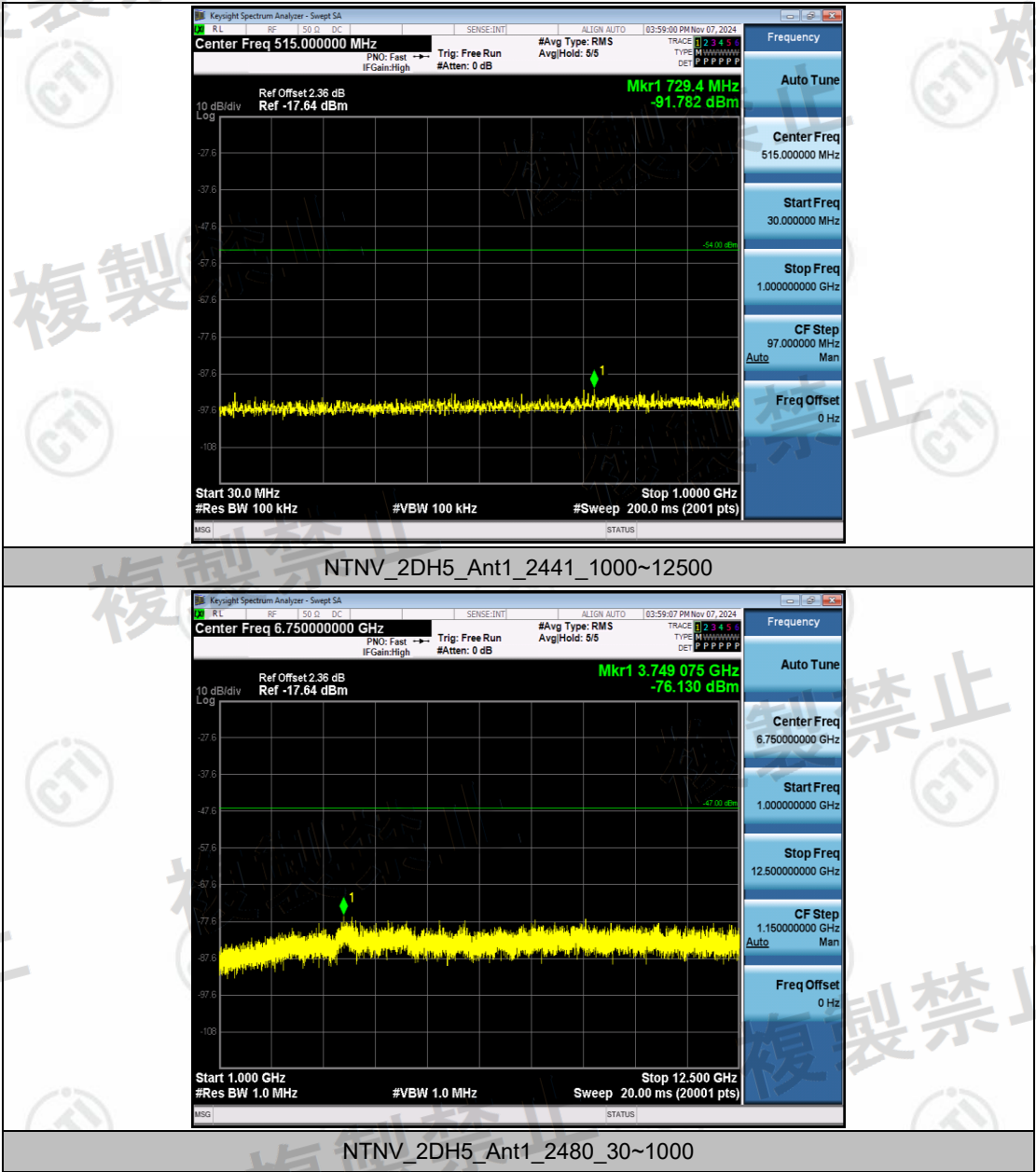
| Test Condition | Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Freq. [MHz] | Result [dBm] | Result [nW] | Limit [nW] | Verdict |
|----------------|-----------|---------|-----------------|-------------------|-------------|--------------|-------------|------------|---------|
| NTNV           | DH5       | Ant1    | 2402            | 30~1000           | 486.39      | -90.64       | 0.00086     | ≤4         | PASS    |
| NTNV           | DH5       | Ant1    | 2402            | 1000~12500        | 9044.83     | -75.79       | 0.02636     | ≤20        | PASS    |
| NTNV           | DH5       | Ant1    | 2441            | 30~1000           | 871.48      | -91.46       | 0.00071     | ≤4         | PASS    |
| NTNV           | DH5       | Ant1    | 2441            | 1000~12500        | 3806.00     | -76.17       | 0.02415     | ≤20        | PASS    |
| NTNV           | DH5       | Ant1    | 2480            | 30~1000           | 886.03      | -91.17       | 0.00076     | ≤4         | PASS    |
| NTNV           | DH5       | Ant1    | 2480            | 1000~12500        | 9013.20     | -76.62       | 0.02178     | ≤20        | PASS    |
| NTNV           | 2DH5      | Ant1    | 2402            | 30~1000           | 845.29      | -92.32       | 0.00059     | ≤4         | PASS    |
| NTNV           | 2DH5      | Ant1    | 2402            | 1000~12500        | 5908.78     | -75.99       | 0.02518     | ≤20        | PASS    |
| NTNV           | 2DH5      | Ant1    | 2441            | 30~1000           | 729.37      | -91.78       | 0.00066     | ≤4         | PASS    |
| NTNV           | 2DH5      | Ant1    | 2441            | 1000~12500        | 3749.08     | -76.13       | 0.02438     | ≤20        | PASS    |
| NTNV           | 2DH5      | Ant1    | 2480            | 30~1000           | 883.60      | -91.94       | 0.00064     | ≤4         | PASS    |
| NTNV           | 2DH5      | Ant1    | 2480            | 1000~12500        | 3807.15     | -75.16       | 0.03048     | ≤20        | PASS    |
| NTNV           | 3DH5      | Ant1    | 2402            | 30~1000           | 881.66      | -92.44       | 0.00057     | ≤4         | PASS    |
| NTNV           | 3DH5      | Ant1    | 2402            | 1000~12500        | 3774.95     | -76.72       | 0.02128     | ≤20        | PASS    |
| NTNV           | 3DH5      | Ant1    | 2441            | 30~1000           | 848.20      | -92.13       | 0.00061     | ≤4         | PASS    |
| NTNV           | 3DH5      | Ant1    | 2441            | 1000~12500        | 2480.63     | -70.30       | 0.09333     | ≤20        | PASS    |
| NTNV           | 3DH5      | Ant1    | 2480            | 30~1000           | 899.61      | -90.72       | 0.00085     | ≤4         | PASS    |
| NTNV           | 3DH5      | Ant1    | 2480            | 1000~12500        | 3823.83     | -76.30       | 0.02344     | ≤20        | PASS    |

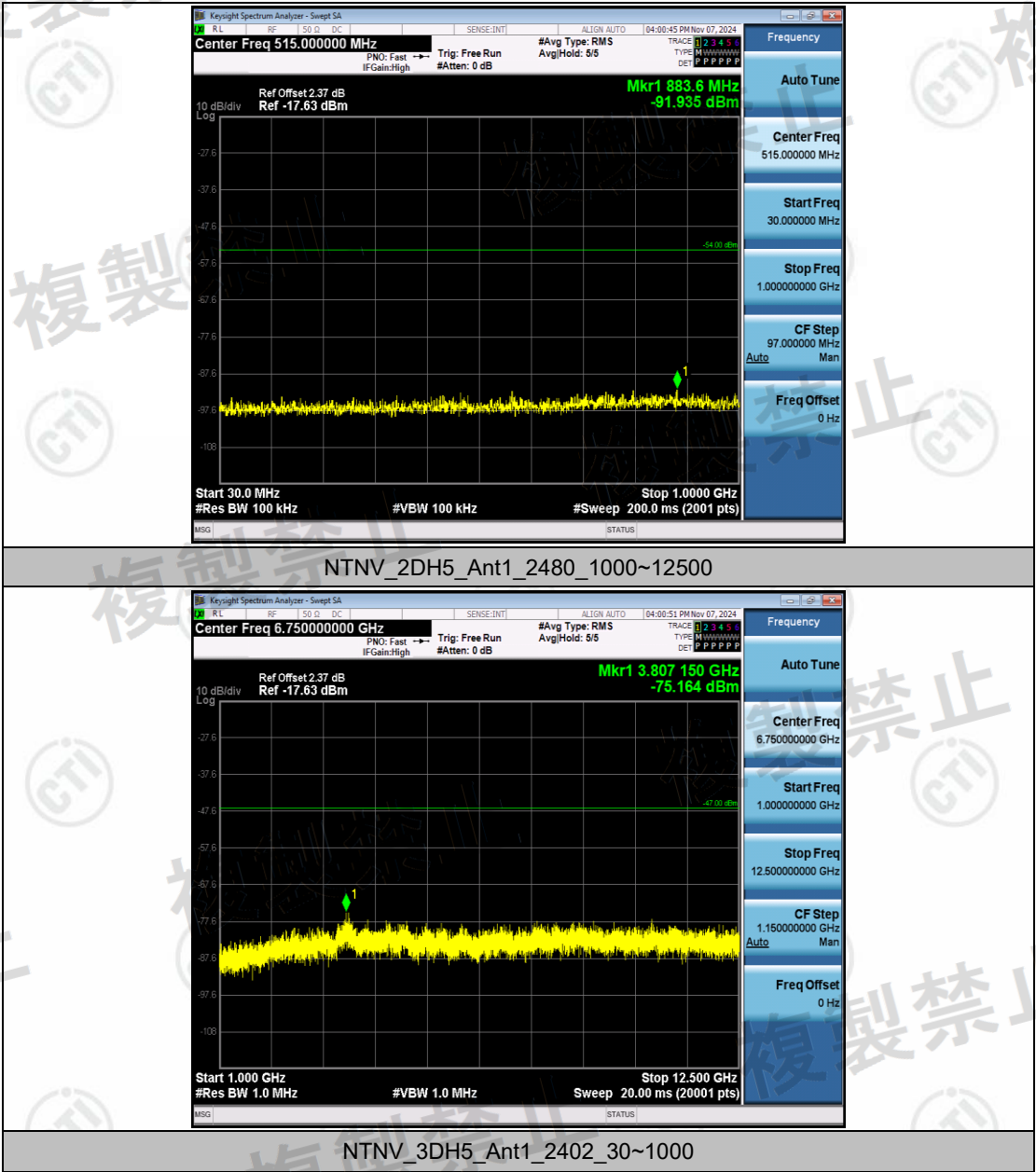


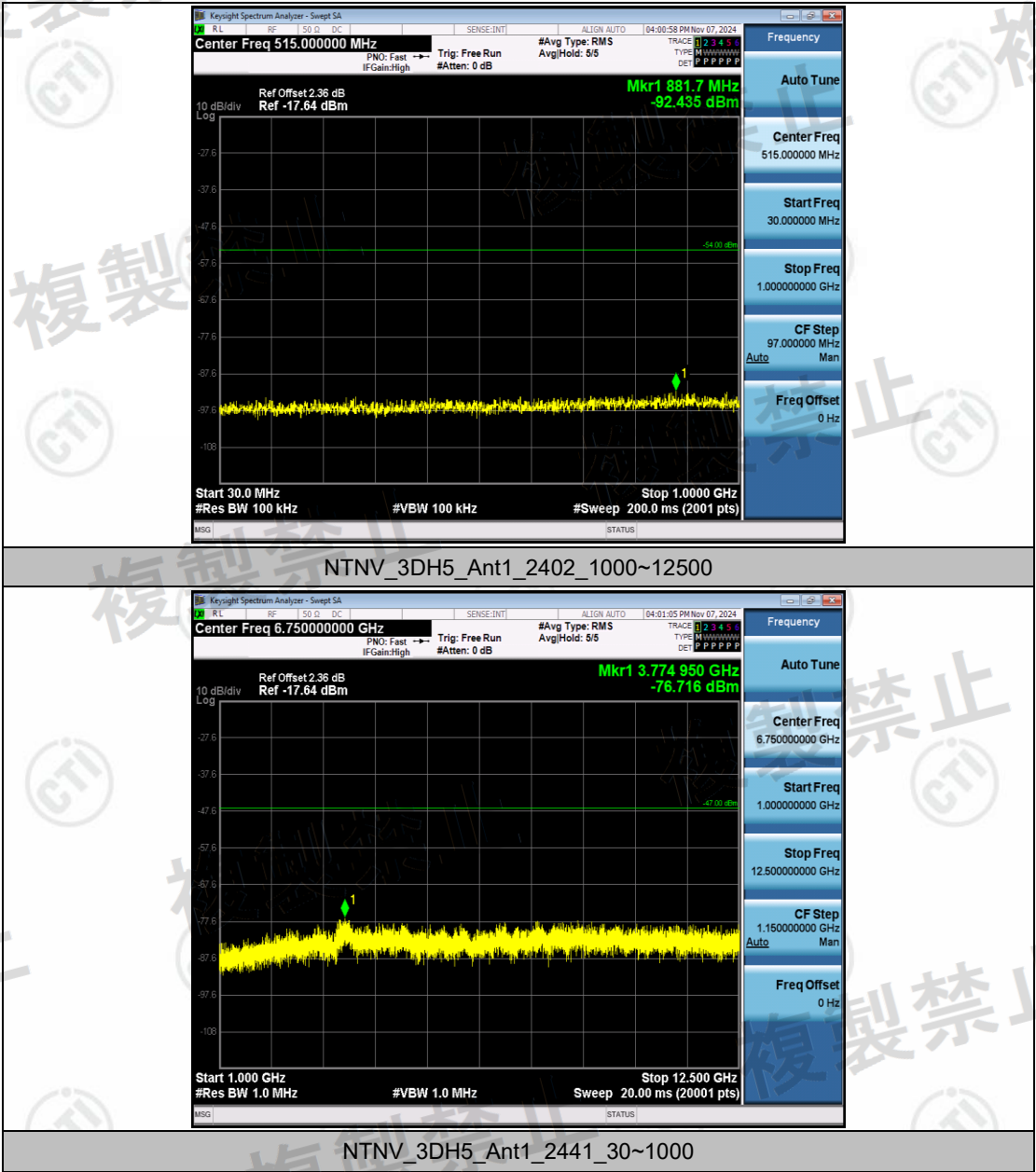


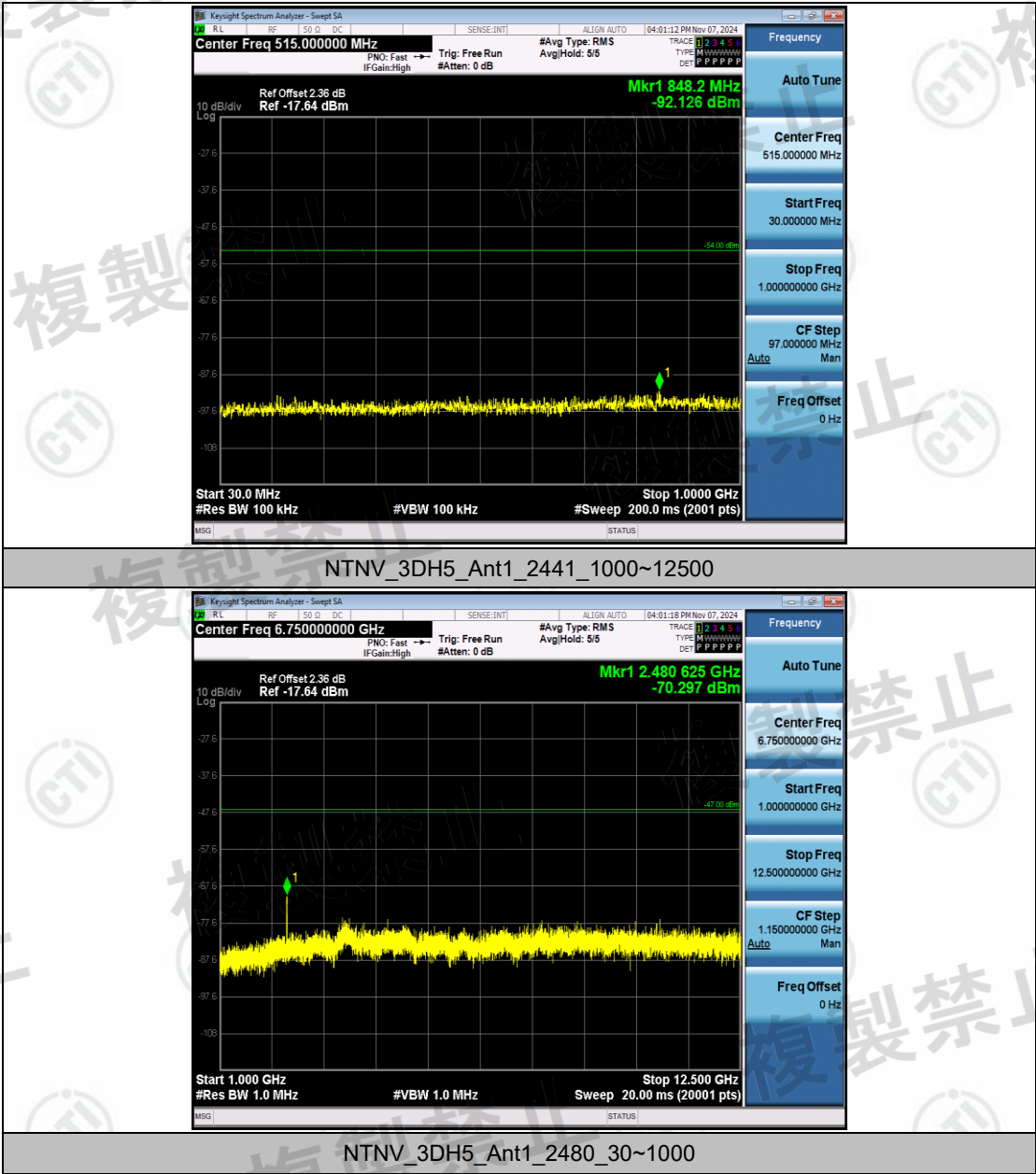


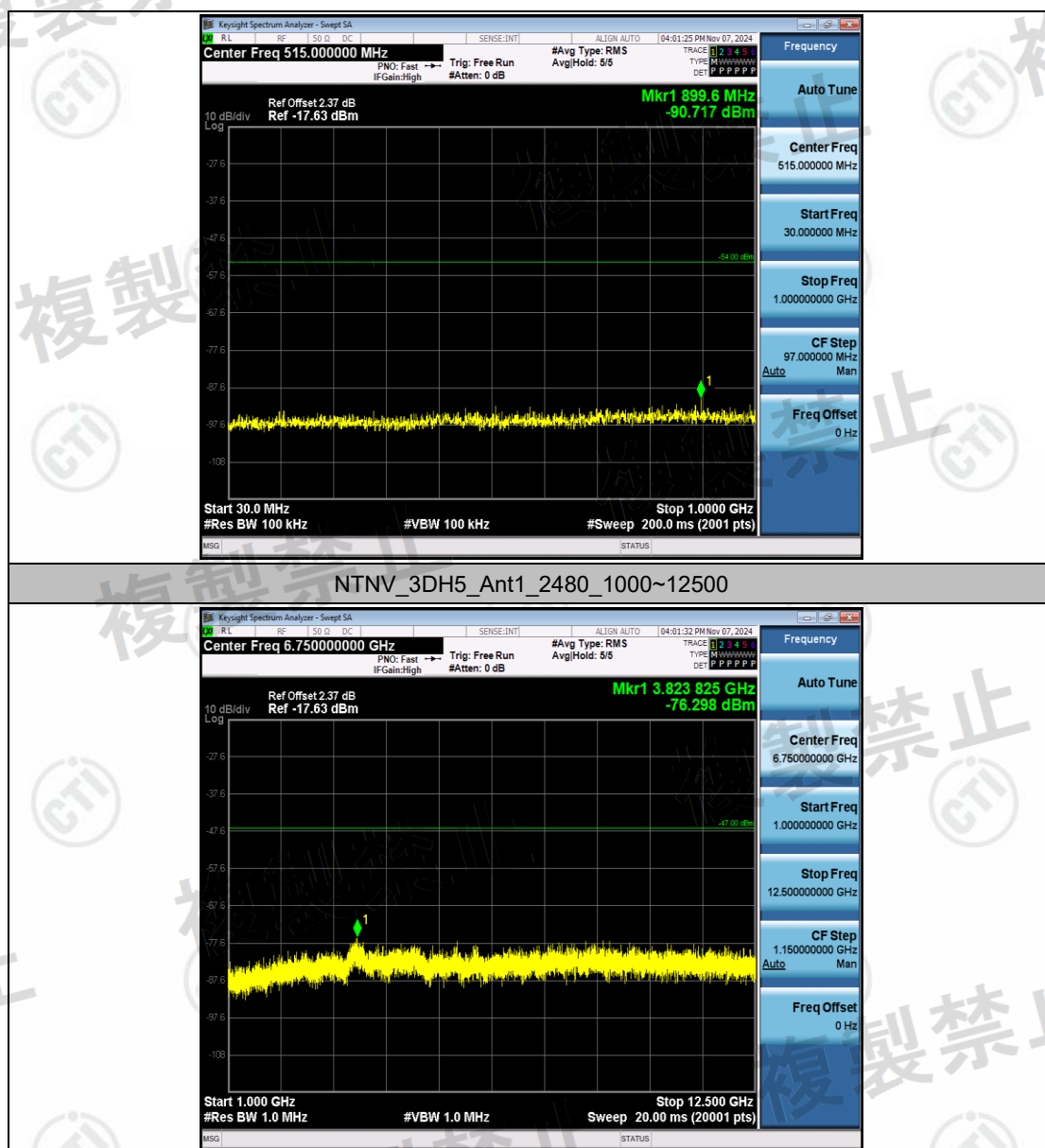






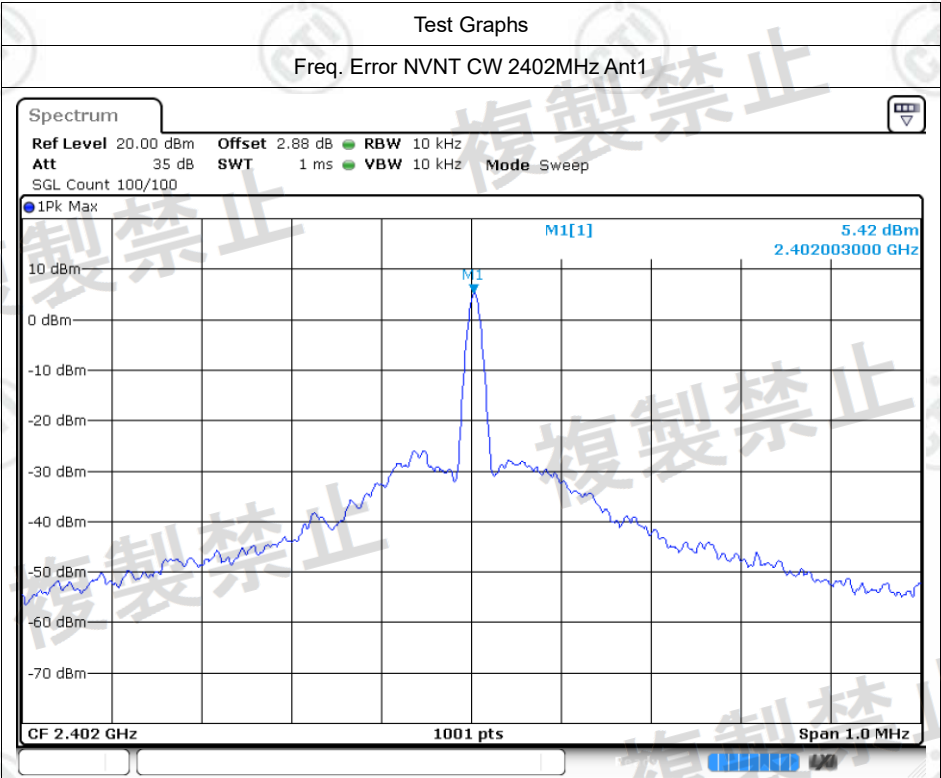




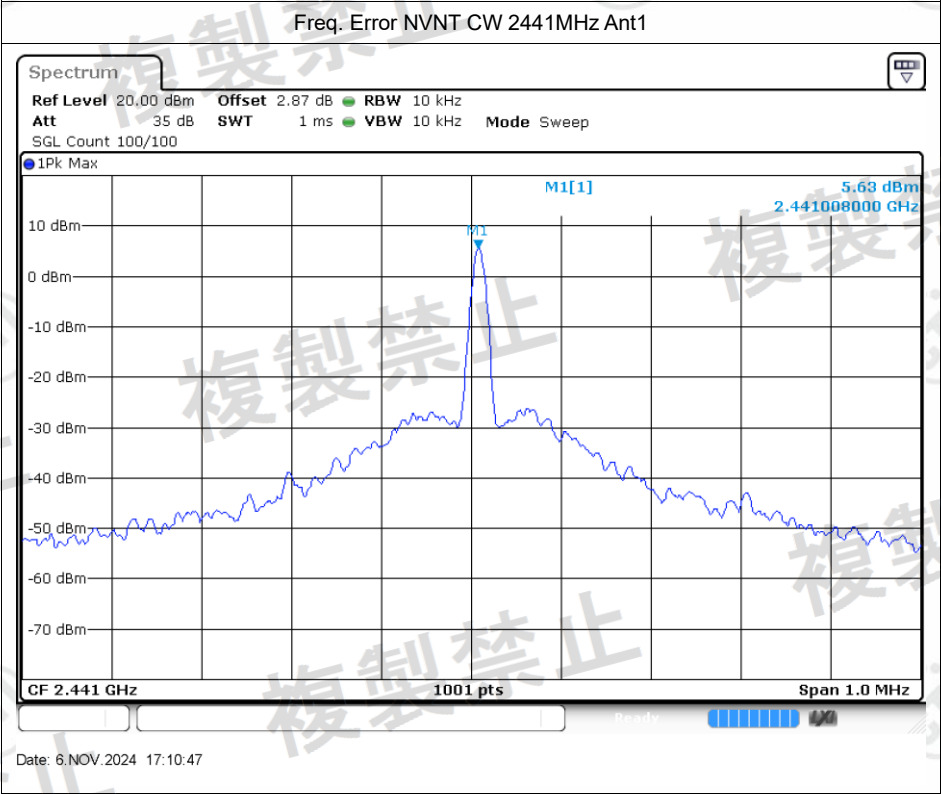


## Frequency Error

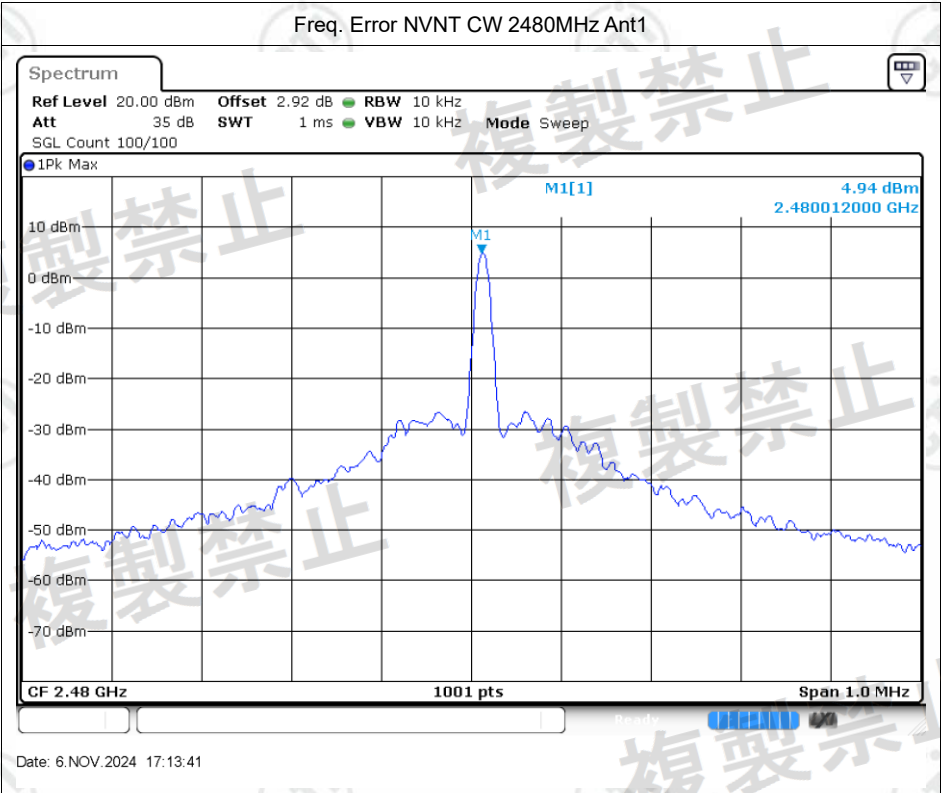
| Condition | Mode | Frequency<br>(MHz) | Antenna | Measured Frequency<br>(MHz) | Frequency Error<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
|-----------|------|--------------------|---------|-----------------------------|-------------------------|--------------------|----------------|---------|
| NVNT      | CW   | 2402               | Ant1    | 2402.003                    | 3000                    | 1.25               | 50             | Pass    |
| NVNT      | CW   | 2441               | Ant1    | 2441.008                    | 8000                    | 3.28               | 50             | Pass    |
| NVNT      | CW   | 2480               | Ant1    | 2480.012                    | 12000                   | 4.84               | 50             | Pass    |



Date: 6.NOV.2024 17:08:22



Date: 6.NOV.2024 17:10:47



\*\*\*END OF REPORT\*\*\*