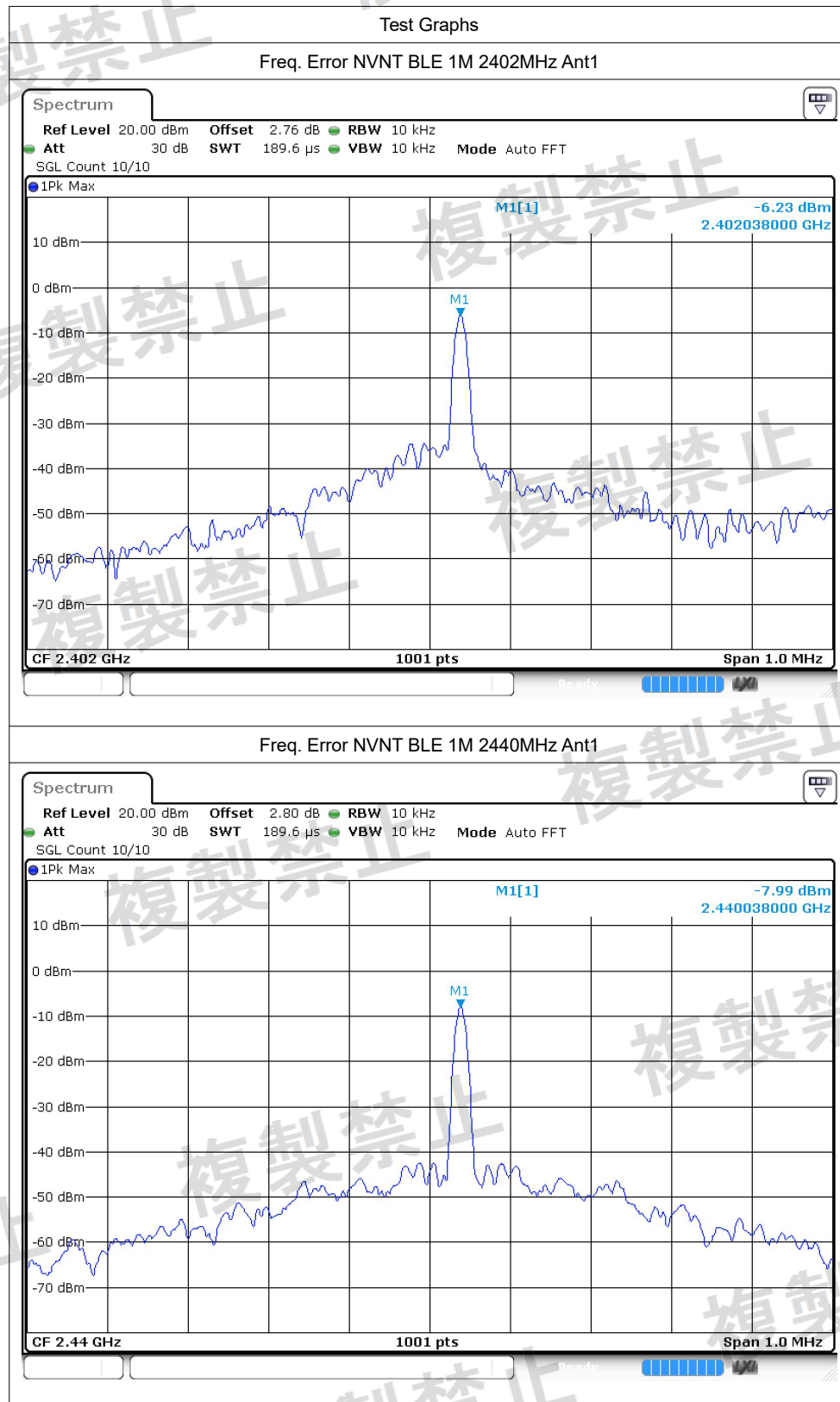
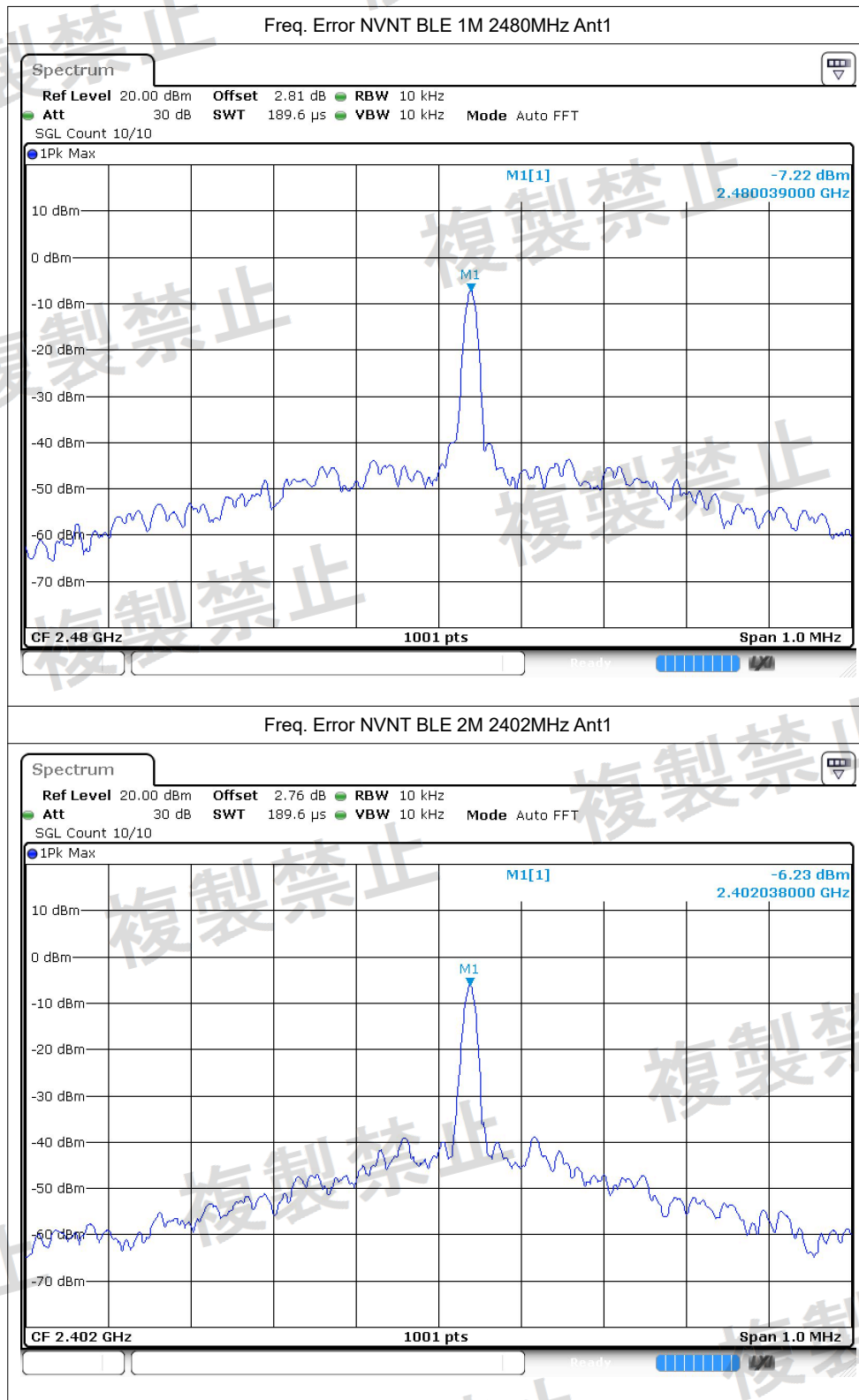


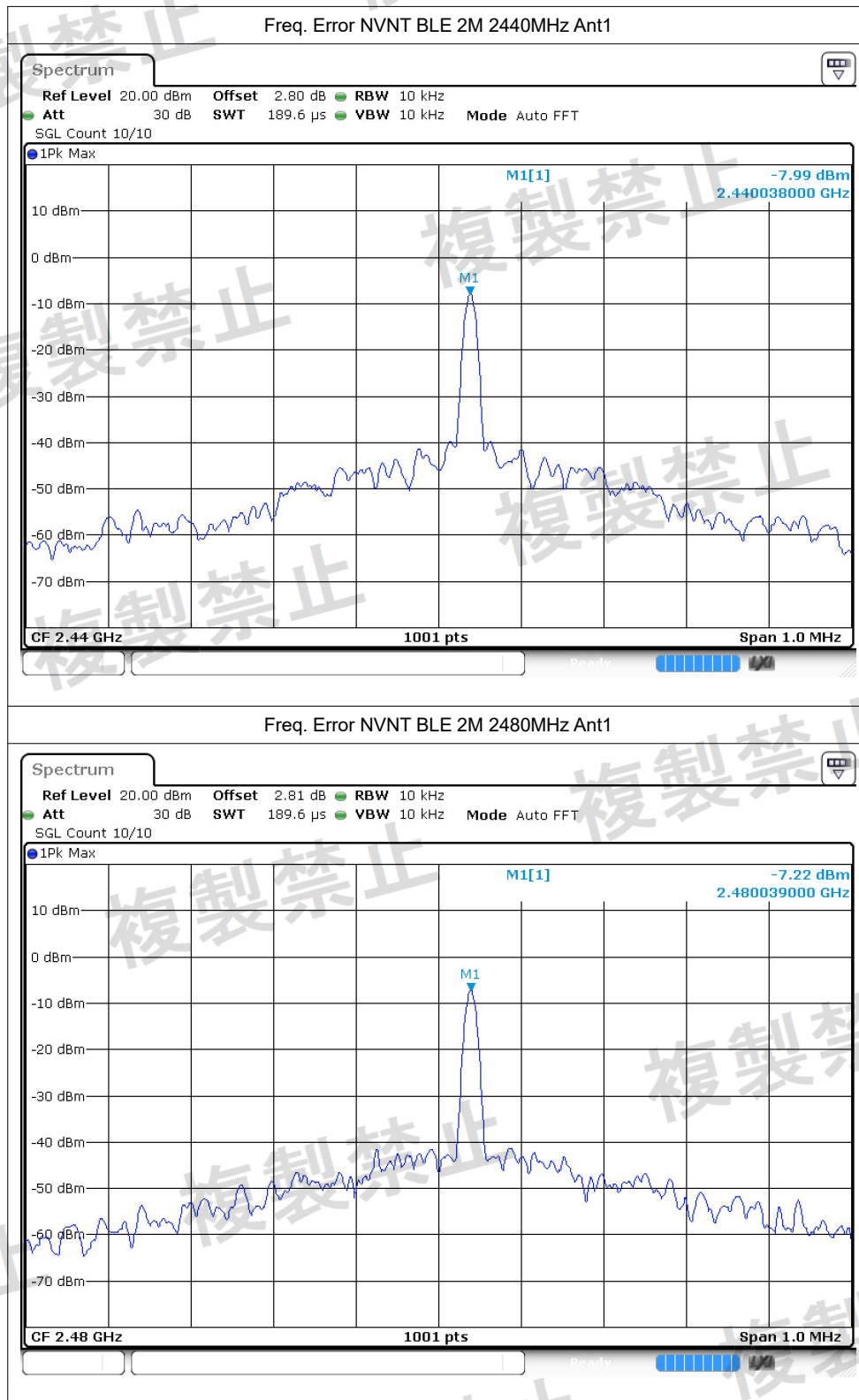
## Appendix A(High Voltage)

### Frequency Error

| Condition | Mode      | Frequency<br>(MHz) | Antenna | Measured Frequency<br>(MHz) | Frequency Error<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
|-----------|-----------|--------------------|---------|-----------------------------|-------------------------|--------------------|----------------|---------|
| NVNT      | BLE<br>1M | 2402               | Ant1    | 2402.038                    | 38000                   | 15.82              | 50             | Pass    |
| NVNT      | BLE<br>1M | 2440               | Ant1    | 2440.038                    | 38000                   | 15.57              | 50             | Pass    |
| NVNT      | BLE<br>1M | 2480               | Ant1    | 2480.039                    | 39000                   | 15.73              | 50             | Pass    |
| NVNT      | BLE<br>2M | 2402               | Ant1    | 2402.038                    | 38000                   | 15.82              | 50             | Pass    |
| NVNT      | BLE<br>2M | 2440               | Ant1    | 2440.038                    | 38000                   | 15.57              | 50             | Pass    |
| NVNT      | BLE<br>2M | 2480               | Ant1    | 2480.039                    | 39000                   | 15.73              | 50             | Pass    |







## Antenna Power

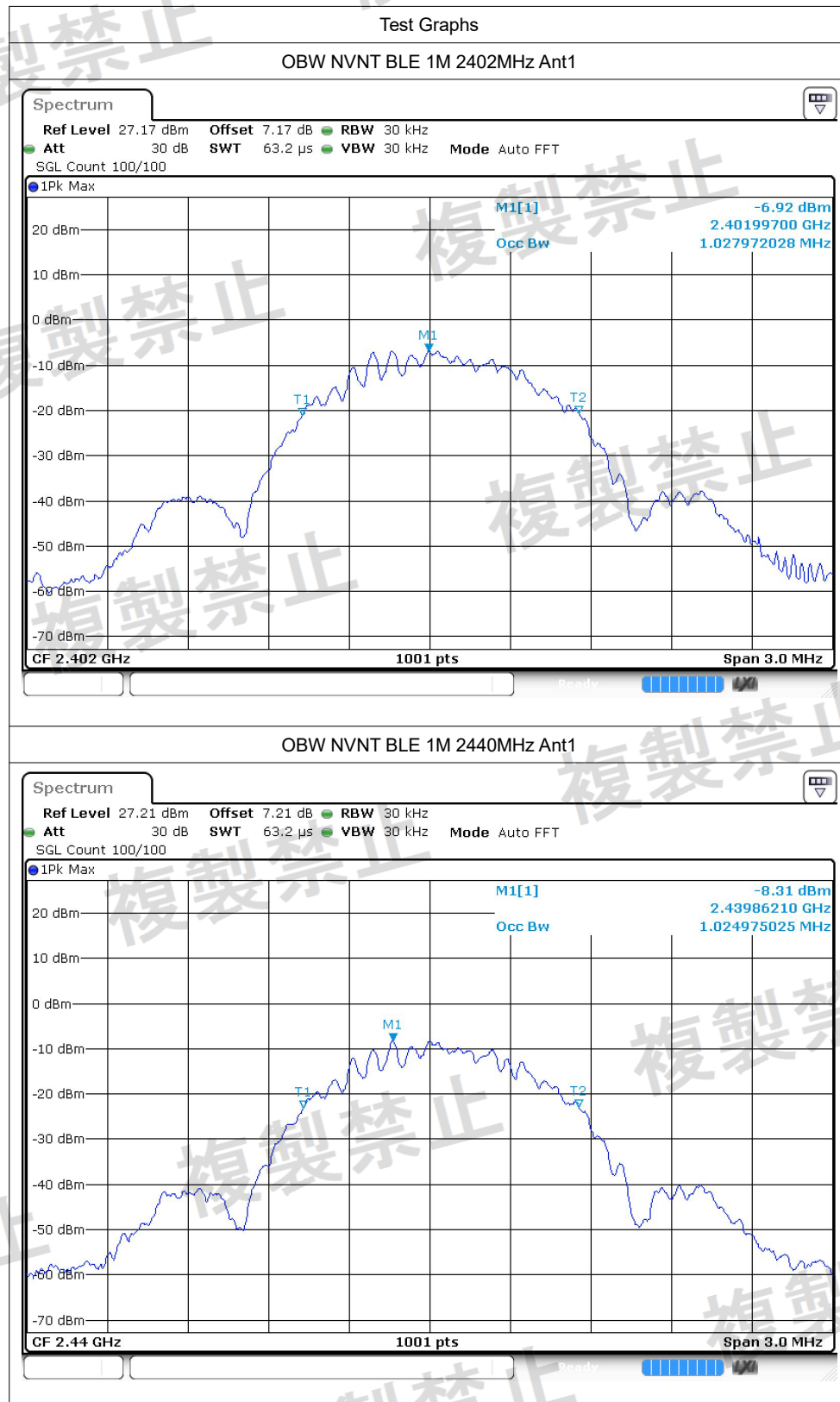
| Condition | Mode   | Frequency (MHz) | Antenna | Power (dBm) | Power (mW) | Limit (mW) | Declared Power (mW) | Tolerance (%) | Upper Limit (%) | Verdict |
|-----------|--------|-----------------|---------|-------------|------------|------------|---------------------|---------------|-----------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -6.2        | 0.24       | 10         | 0.5                 | -52           | 20              | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -7.41       | 0.182      | 10         | 0.5                 | -63.6         | 20              | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -6.5        | 0.224      | 10         | 0.5                 | -55.2         | 20              | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -6.15       | 0.243      | 10         | 0.5                 | -51.4         | 20              | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -7.43       | 0.181      | 10         | 0.5                 | -63.8         | 20              | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -6.48       | 0.225      | 10         | 0.5                 | -55           | 20              | Pass    |

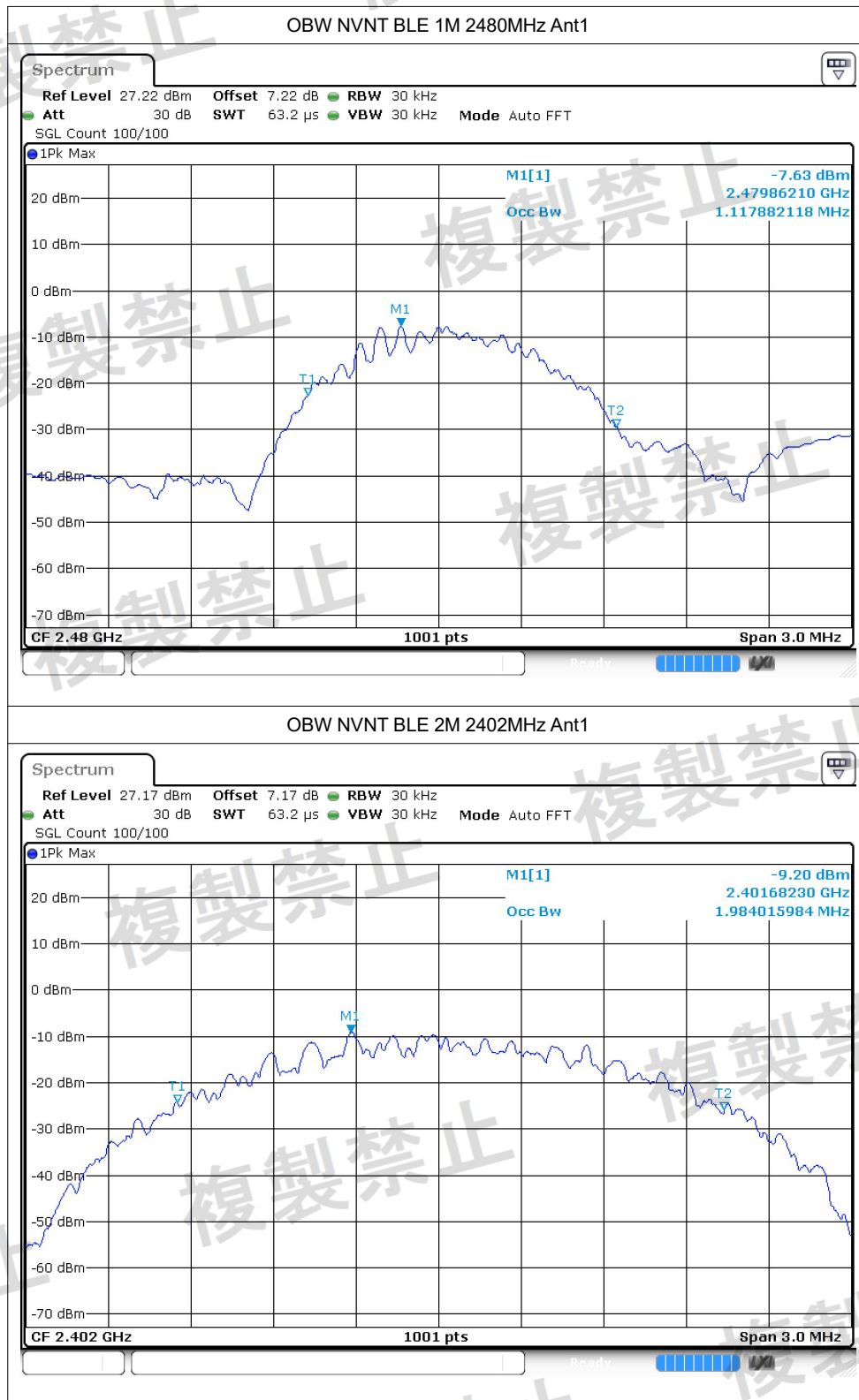
## EIRP Power

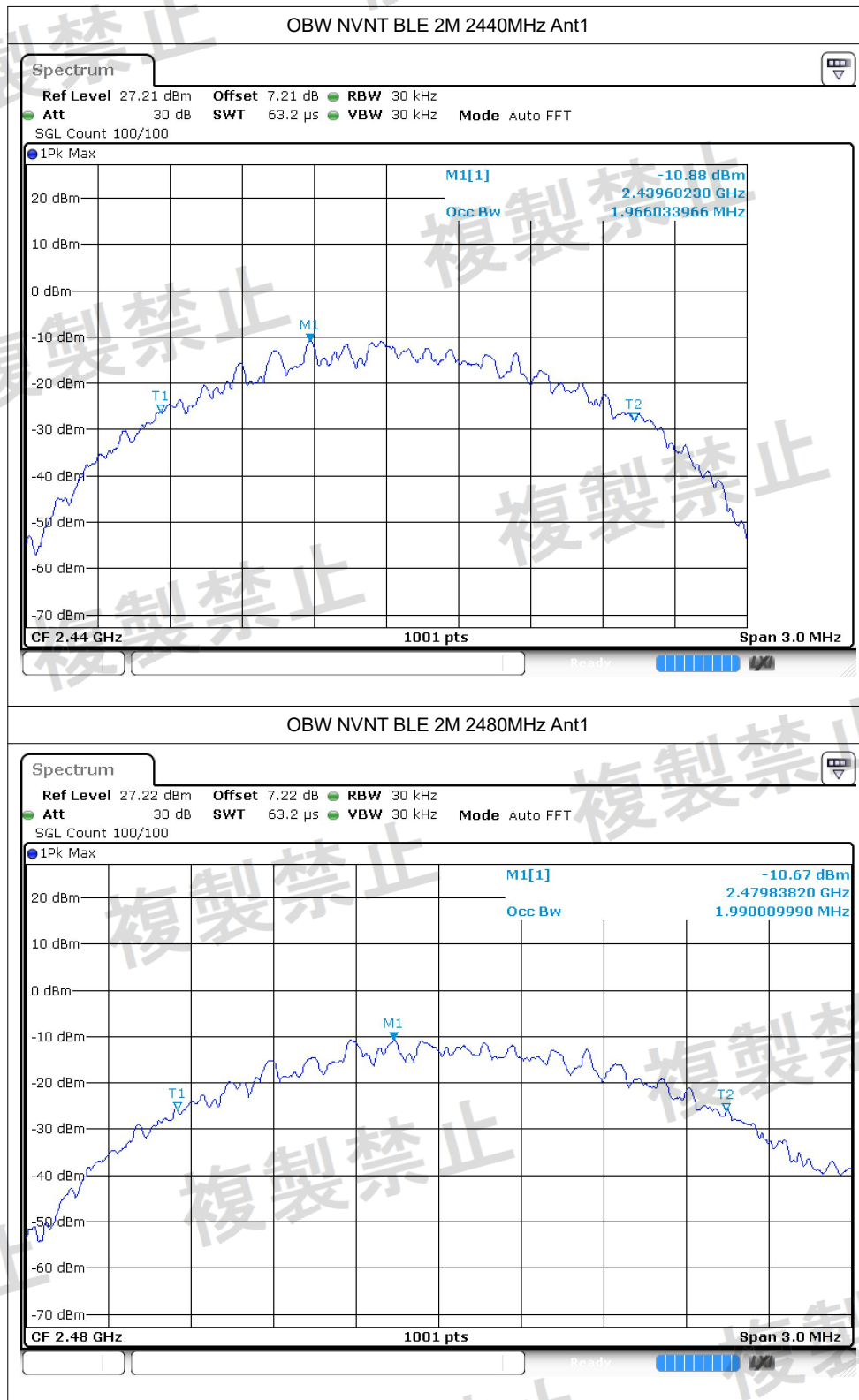
| Condition | Mode   | Frequency (MHz) | Antenna | Antenna Power (mW) | Antenna Power (dBm) | Gain (dBi) | EIRP Power (dBm) | Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|--------------------|---------------------|------------|------------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.24               | -6.2                | 4.41       | -1.79            | 12.14       | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.182              | -7.41               | 4.41       | -3               | 12.14       | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 0.224              | -6.5                | 4.41       | -2.09            | 12.14       | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 0.243              | -6.15               | 4.41       | -1.74            | 12.14       | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 0.181              | -7.43               | 4.41       | -3.02            | 12.14       | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 0.225              | -6.48               | 4.41       | -2.07            | 12.14       | Pass    |

## Occupied Channel Bandwidth

| Condition | Mode   | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|--------|-----------------|---------|---------------|
| NVNT      | BLE 1M | 2402            | Ant1    | 1.028         |
| NVNT      | BLE 1M | 2440            | Ant1    | 1.025         |
| NVNT      | BLE 1M | 2480            | Ant1    | 1.118         |
| NVNT      | BLE 2M | 2402            | Ant1    | 1.984         |
| NVNT      | BLE 2M | 2440            | Ant1    | 1.966         |
| NVNT      | BLE 2M | 2480            | Ant1    | 1.99          |

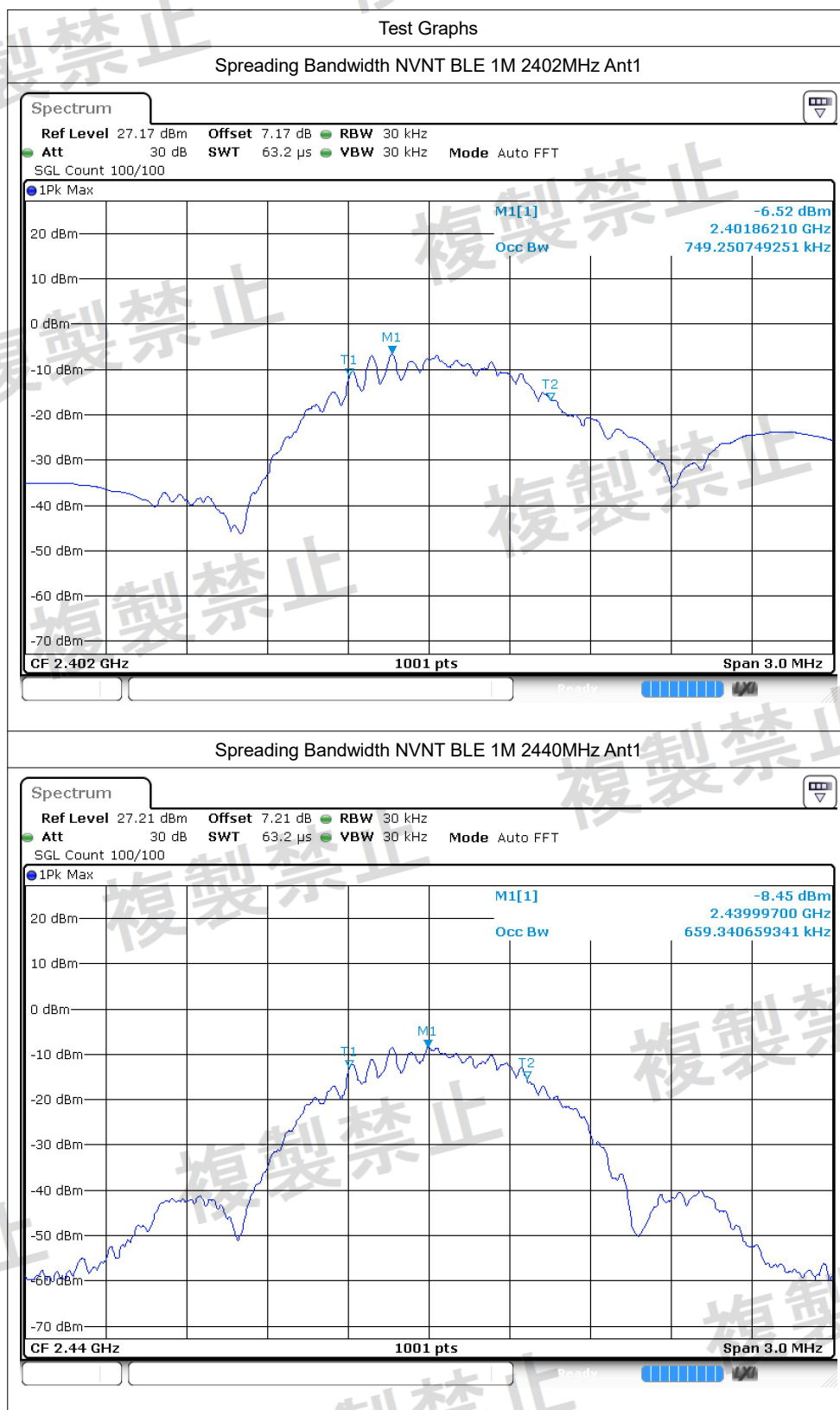


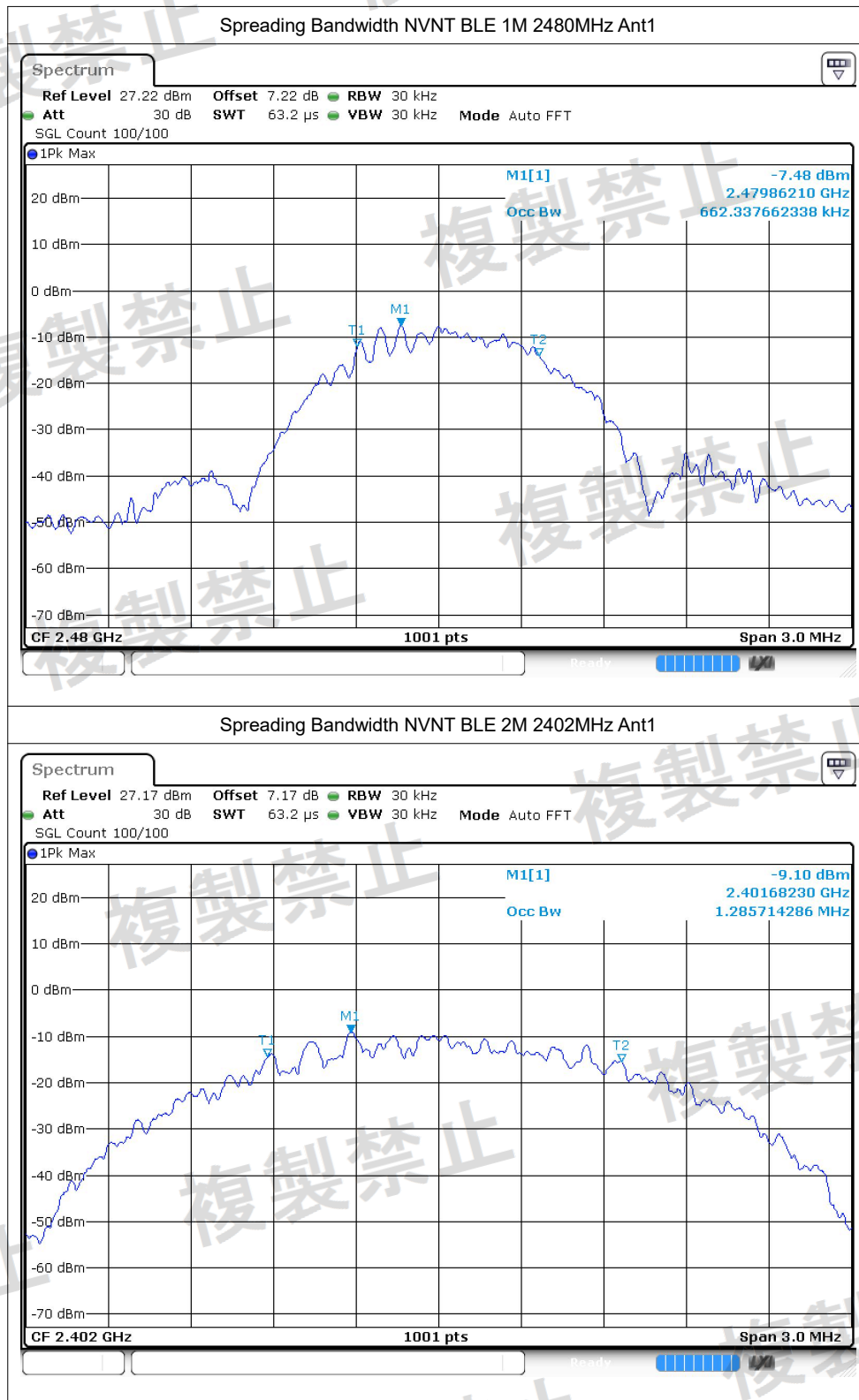


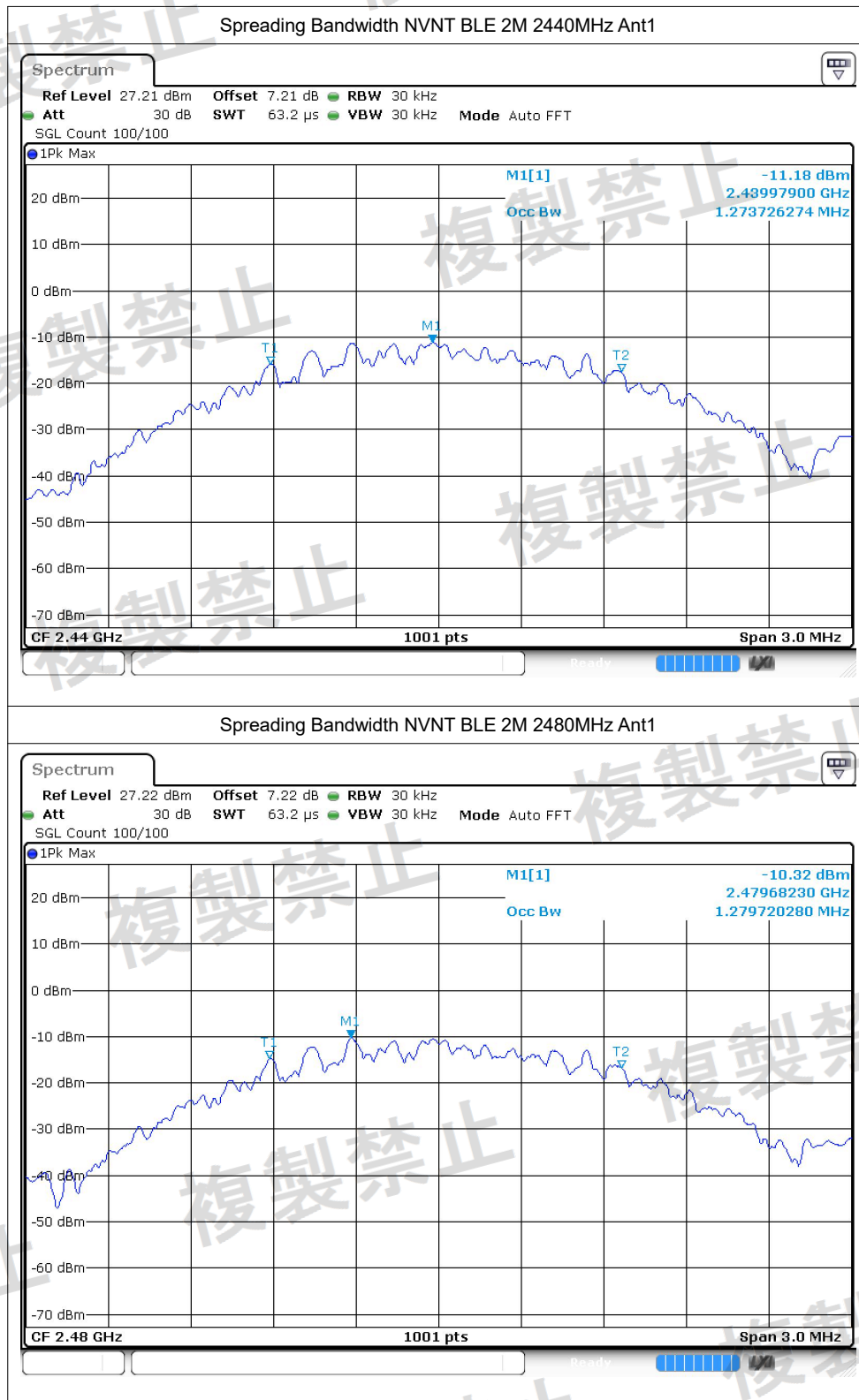


## Spreading Bandwidth

| Condition | Mode   | Frequency (MHz) | Antenna | 90% OBW (MHz) | Limit (MHz) | Verdict |
|-----------|--------|-----------------|---------|---------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.749         | 0.5         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.659         | 0.5         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 0.662         | 0.5         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 1.286         | 0.5         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 1.274         | 0.5         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 1.28          | 0.5         | Pass    |







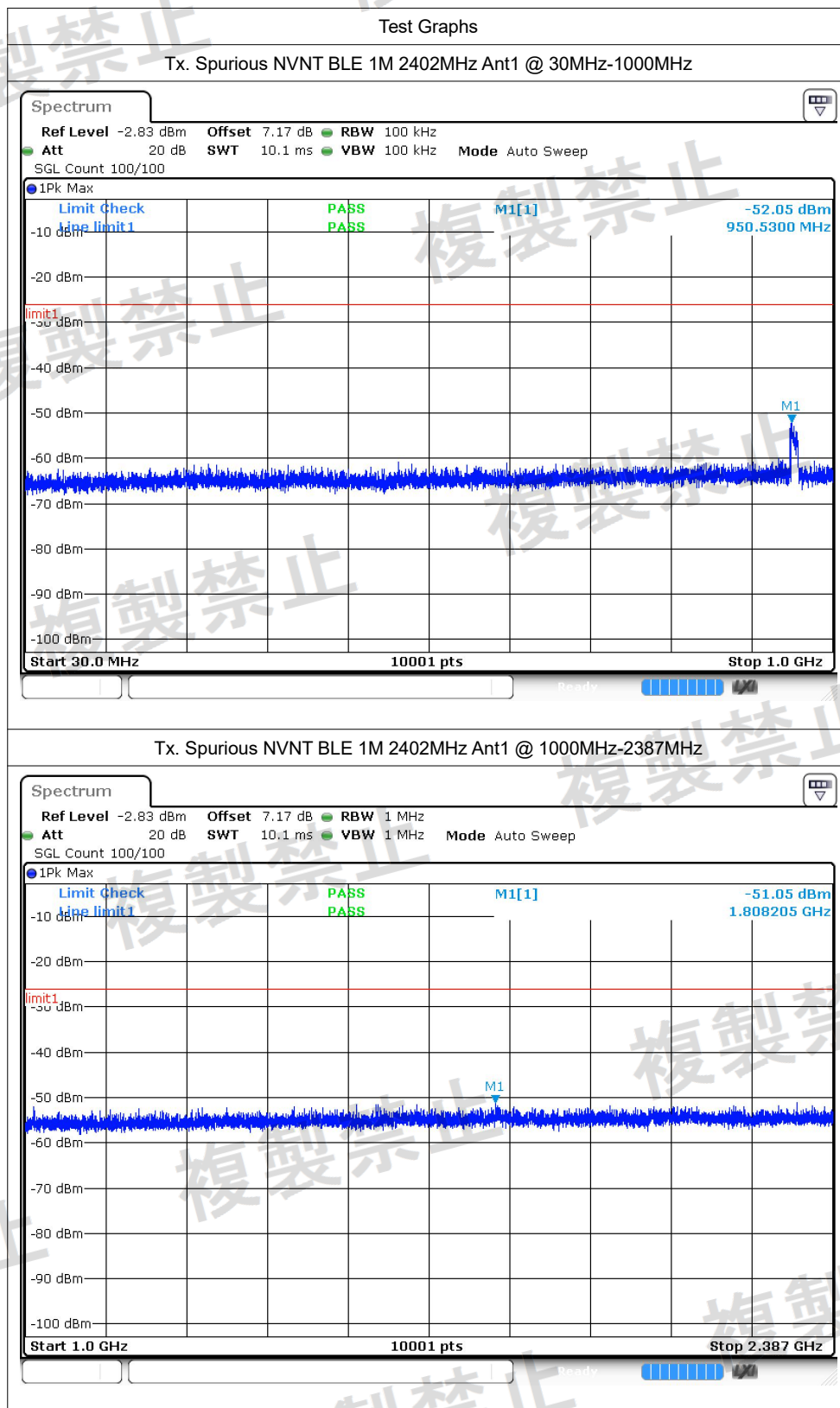
## Tx Spurious Emission

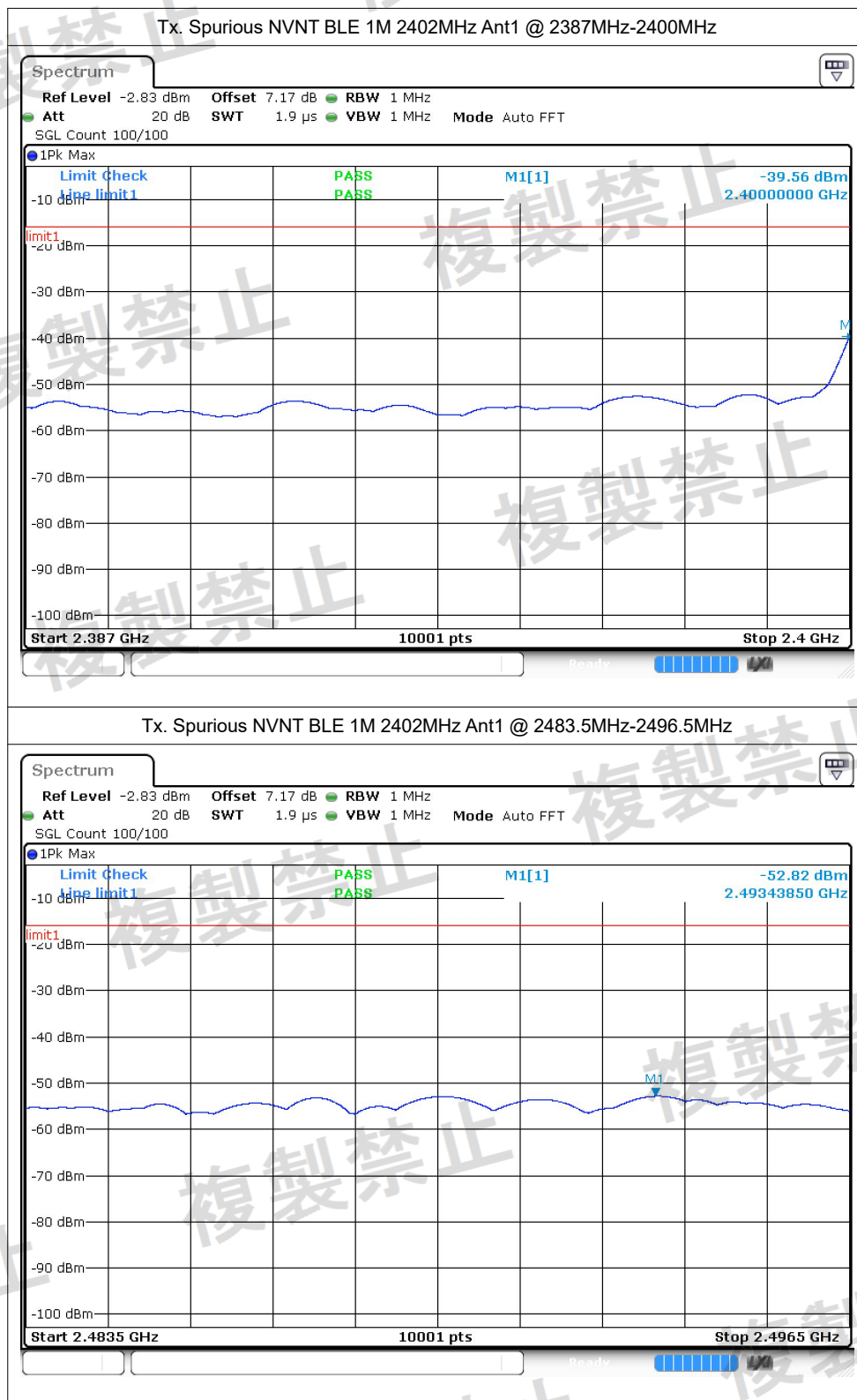
| Condition | Mode   | Frequency (MHz) | Antenna | Range (MHz)   | Emission Frequency (MHz) | Max Peak Value (dBm) | Max RMS Value (dBm) | Max Peak Value (uW) | Max RMS Value (uW) | Limit Start(uW) | Limit Stop (uW) | Verdict |
|-----------|--------|-----------------|---------|---------------|--------------------------|----------------------|---------------------|---------------------|--------------------|-----------------|-----------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 30-1000       | 950.53                   | -42.05               | NA                  | 0.0624              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 1000-2387     | 1808.20                  | -51.05               | NA                  | 0.0079              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 2387-2400     | 2400.00                  | -39.56               | NA                  | 0.1107              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 2483.5-2496.5 | 2493.44                  | -52.81               | NA                  | 0.0052              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 2496.5-13000  | 4804.12                  | -38.79               | NA                  | 0.1321              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 30-1000       | 952.18                   | -39.82               | NA                  | 0.1042              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 1000-2387     | 1809.18                  | -50.35               | NA                  | 0.0092              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 2387-2400     | 2390.62                  | -53.16               | NA                  | 0.0048              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 2483.5-2496.5 | 2491.65                  | -53.16               | NA                  | 0.0048              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 2496.5-13000  | 4879.74                  | -38.19               | NA                  | 0.1517              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 30-1000       | 949.75                   | -42.63               | NA                  | 0.0546              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 1000-2387     | 2268.97                  | -50.11               | NA                  | 0.0097              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2387-2400     | 2393.17                  | -53.64               | NA                  | 0.0043              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2483.5-2496.5 | 2486.46                  | -52.27               | NA                  | 0.0059              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2496.5-13000  | 4959.57                  | -38.18               | NA                  | 0.1521              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 30-1000       | 949.85                   | -41.73               | NA                  | 0.0671              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 1000-2387     | 1835.39                  | -51.14               | NA                  | 0.0077              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 2387-2400     | 2400.00                  | -25.99               | NA                  | 2.5177              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 2483.5-2496.5 | 2490.59                  | -53.18               | NA                  | 0.0048              | NA                 | 25              | 25              | Pass    |

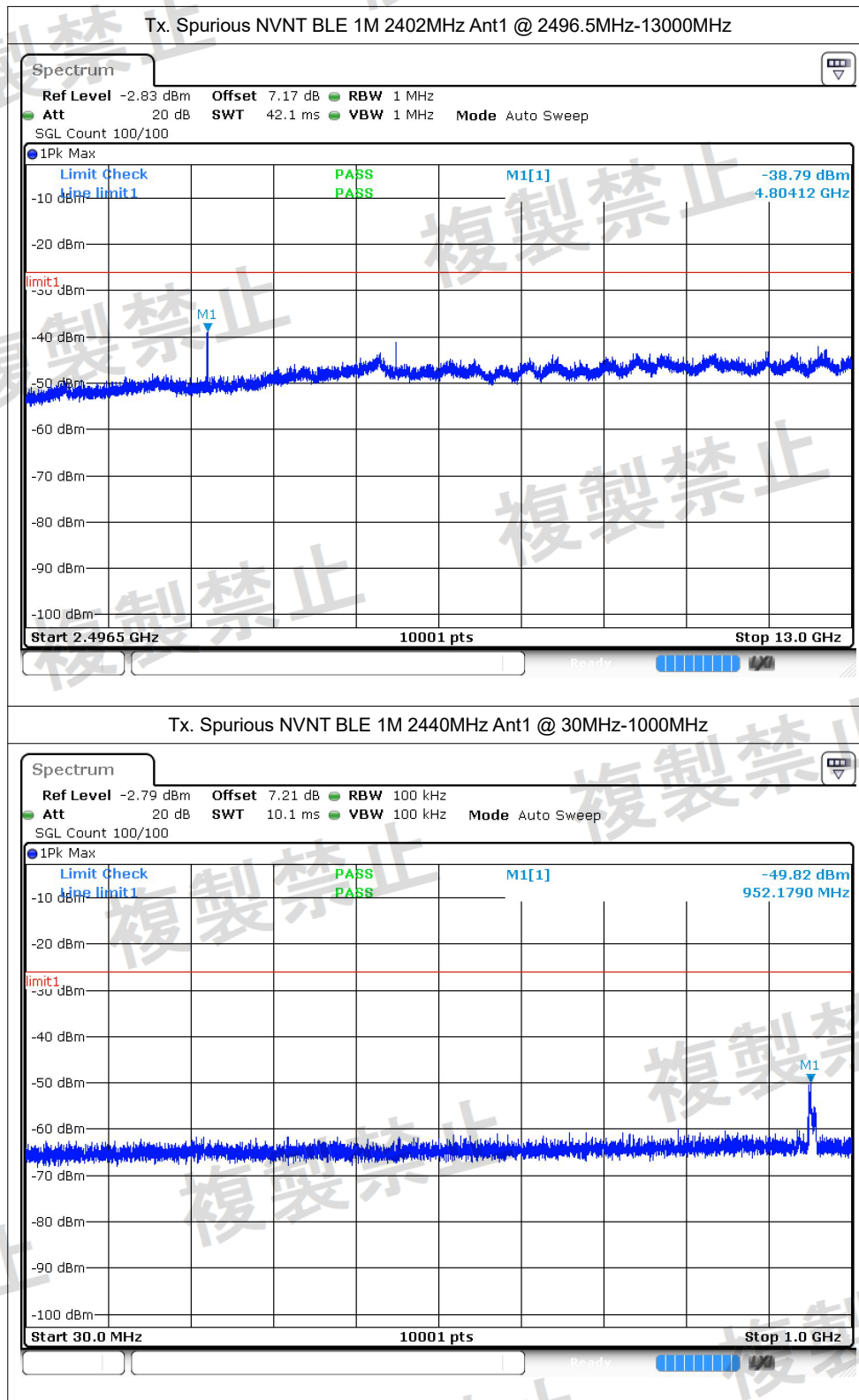
|      |           |      |      |               |         |        |    |        |    |     |     |      |
|------|-----------|------|------|---------------|---------|--------|----|--------|----|-----|-----|------|
| NVNT | BLE<br>2M | 2402 | Ant1 | 2496.5-13000  | 4805.17 | -38.94 | NA | 0.1276 | NA | 2.5 | 2.5 | Pass |
| NVNT | BLE<br>2M | 2440 | Ant1 | 30-1000       | 957.42  | -41.90 | NA | 0.0646 | NA | 2.5 | 2.5 | Pass |
| NVNT | BLE<br>2M | 2440 | Ant1 | 1000-2387     | 2281.31 | -51.08 | NA | 0.0078 | NA | 2.5 | 2.5 | Pass |
| NVNT | BLE<br>2M | 2440 | Ant1 | 2387-2400     | 2396.53 | -53.56 | NA | 0.0044 | NA | 25  | 25  | Pass |
| NVNT | BLE<br>2M | 2440 | Ant1 | 2483.5-2496.5 | 2483.92 | -52.83 | NA | 0.0052 | NA | 25  | 25  | Pass |
| NVNT | BLE<br>2M | 2440 | Ant1 | 2496.5-13000  | 4880.79 | -37.86 | NA | 0.1637 | NA | 2.5 | 2.5 | Pass |
| NVNT | BLE<br>2M | 2480 | Ant1 | 30-1000       | 949.66  | -40.49 | NA | 0.0893 | NA | 2.5 | 2.5 | Pass |
| NVNT | BLE<br>2M | 2480 | Ant1 | 1000-2387     | 1761.32 | -51.07 | NA | 0.0078 | NA | 2.5 | 2.5 | Pass |
| NVNT | BLE<br>2M | 2480 | Ant1 | 2387-2400     | 2396.52 | -52.52 | NA | 0.0056 | NA | 25  | 25  | Pass |
| NVNT | BLE<br>2M | 2480 | Ant1 | 2483.5-2496.5 | 2483.50 | -50.87 | NA | 0.0082 | NA | 25  | 25  | Pass |
| NVNT | BLE<br>2M | 2480 | Ant1 | 2496.5-13000  | 4959.57 | -38.11 | NA | 0.1545 | NA | 2.5 | 2.5 | Pass |

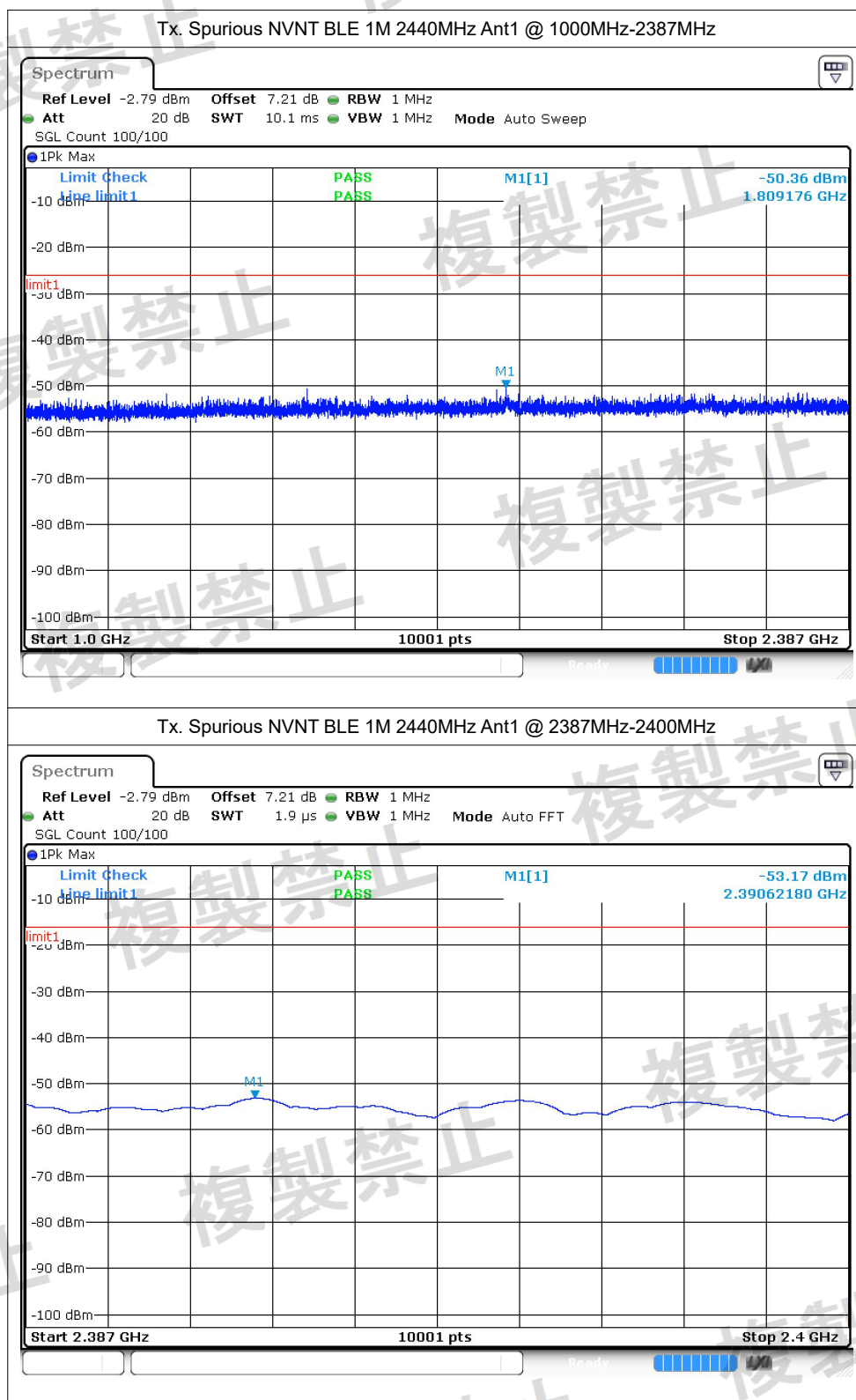
Note: The limit for the frequency range of 30MHz - 1GHz is 2.5uW/1MHz, but test result is dBm/100kHz.

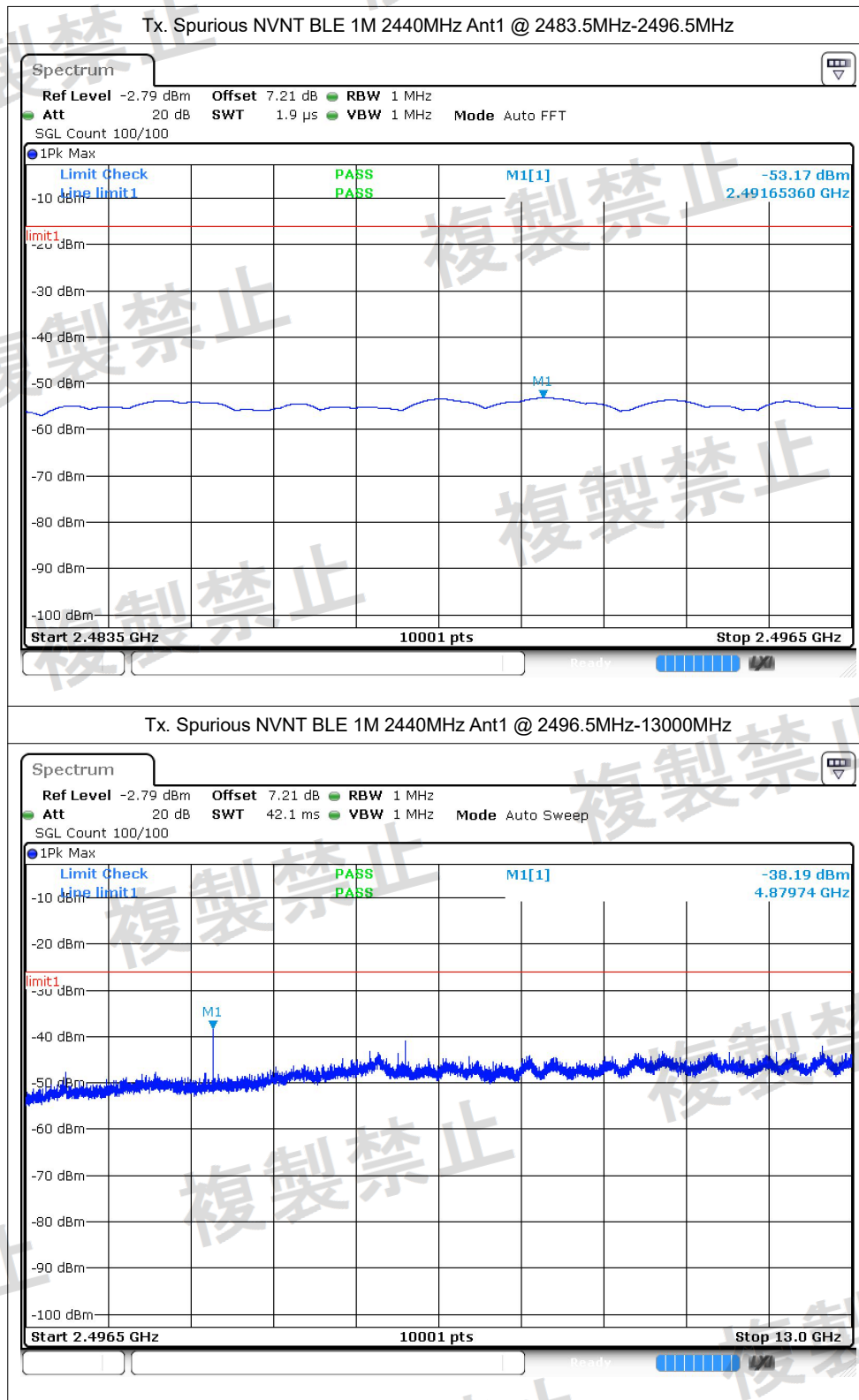
Value(dBm/1MHz) = Measurement(dBm/100kHz) + 10\*log(1MHz/100KHz)

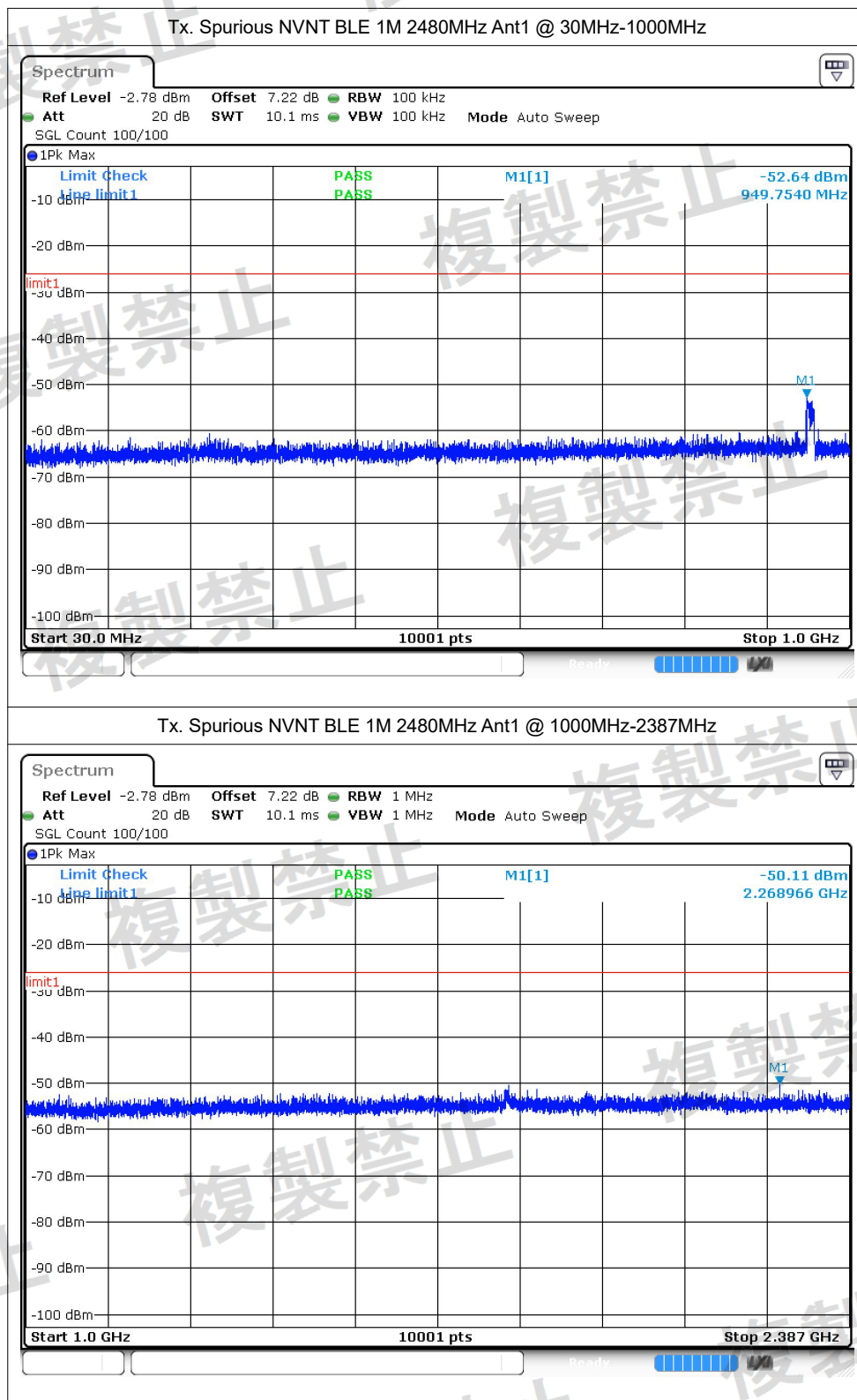


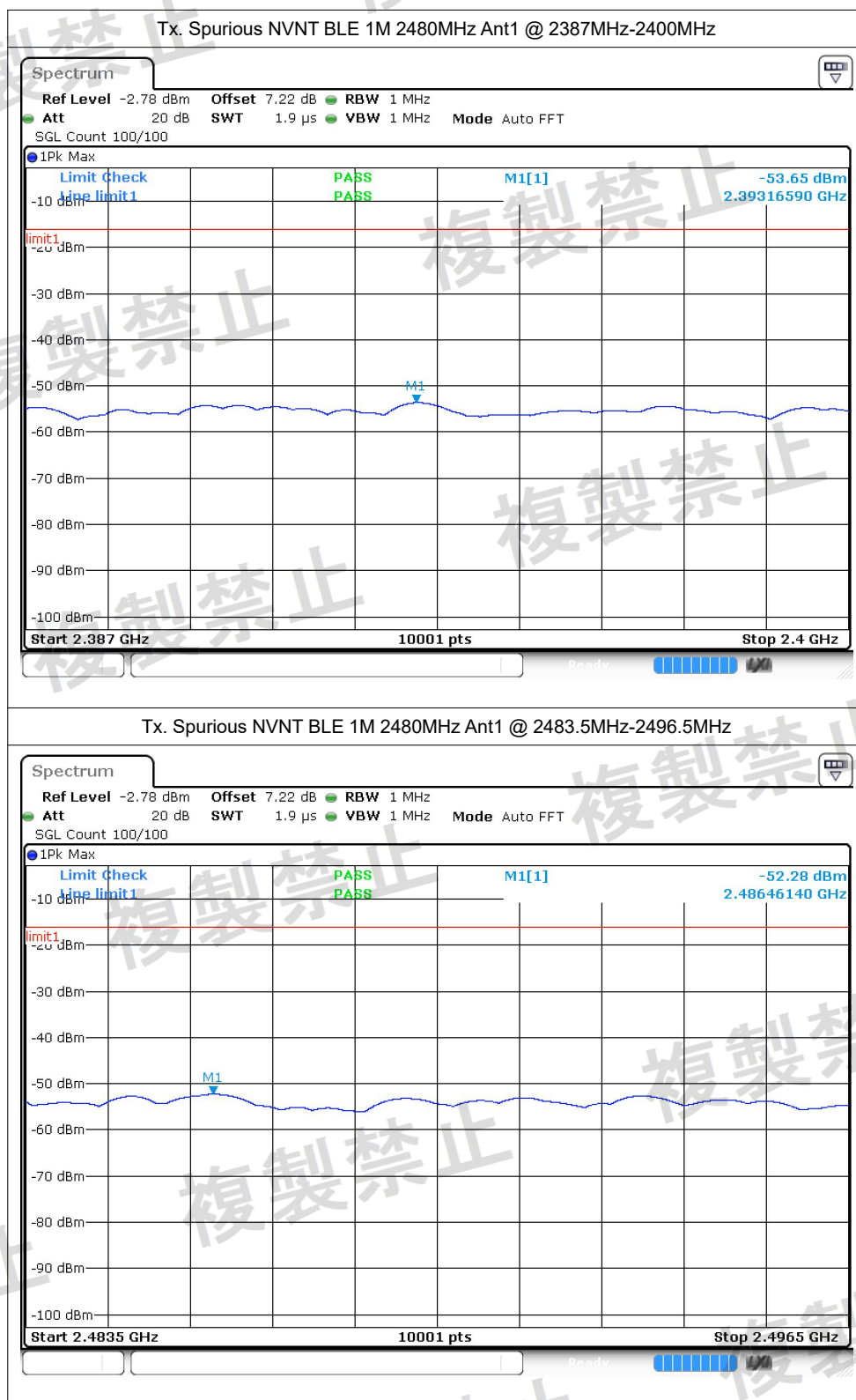


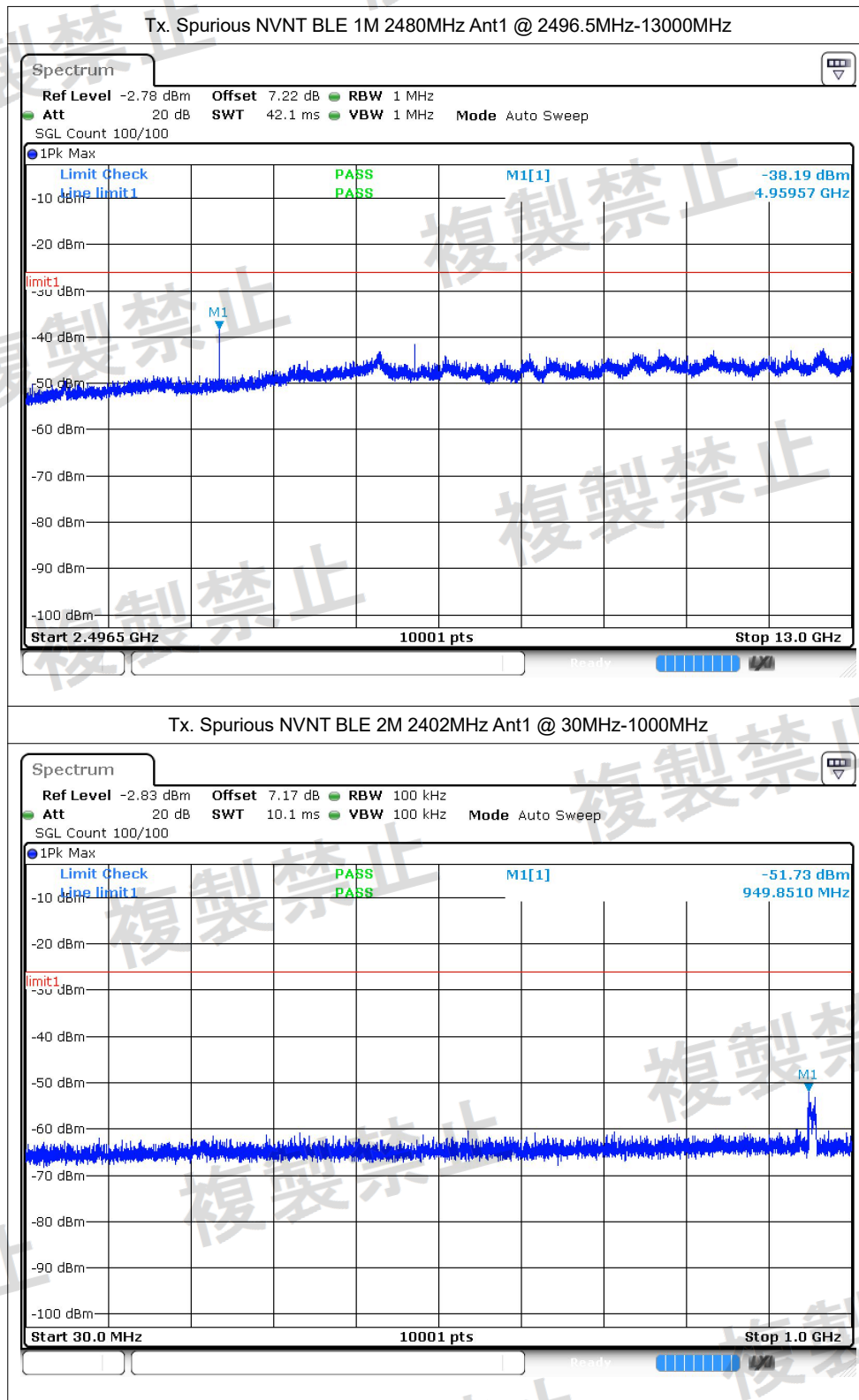


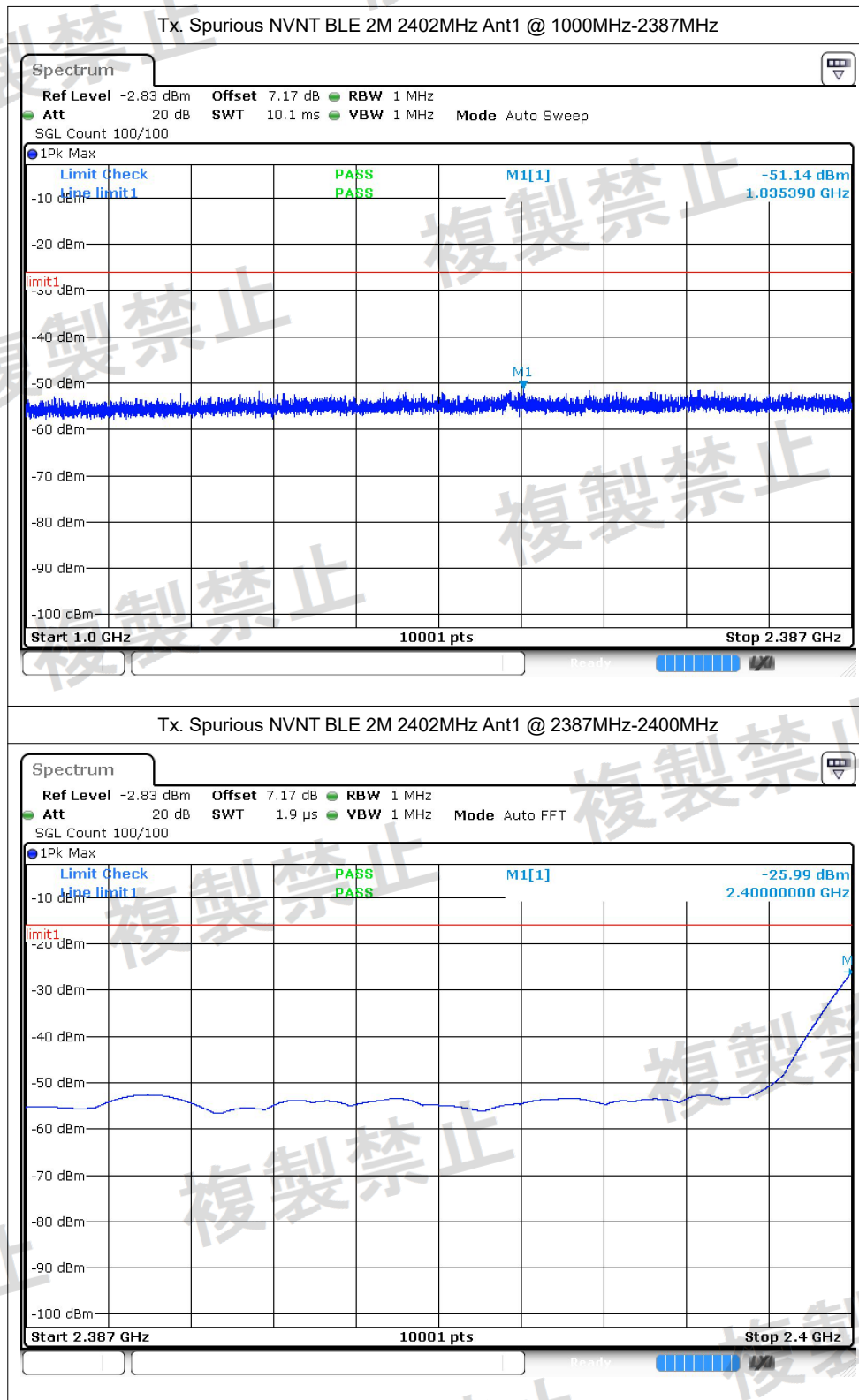


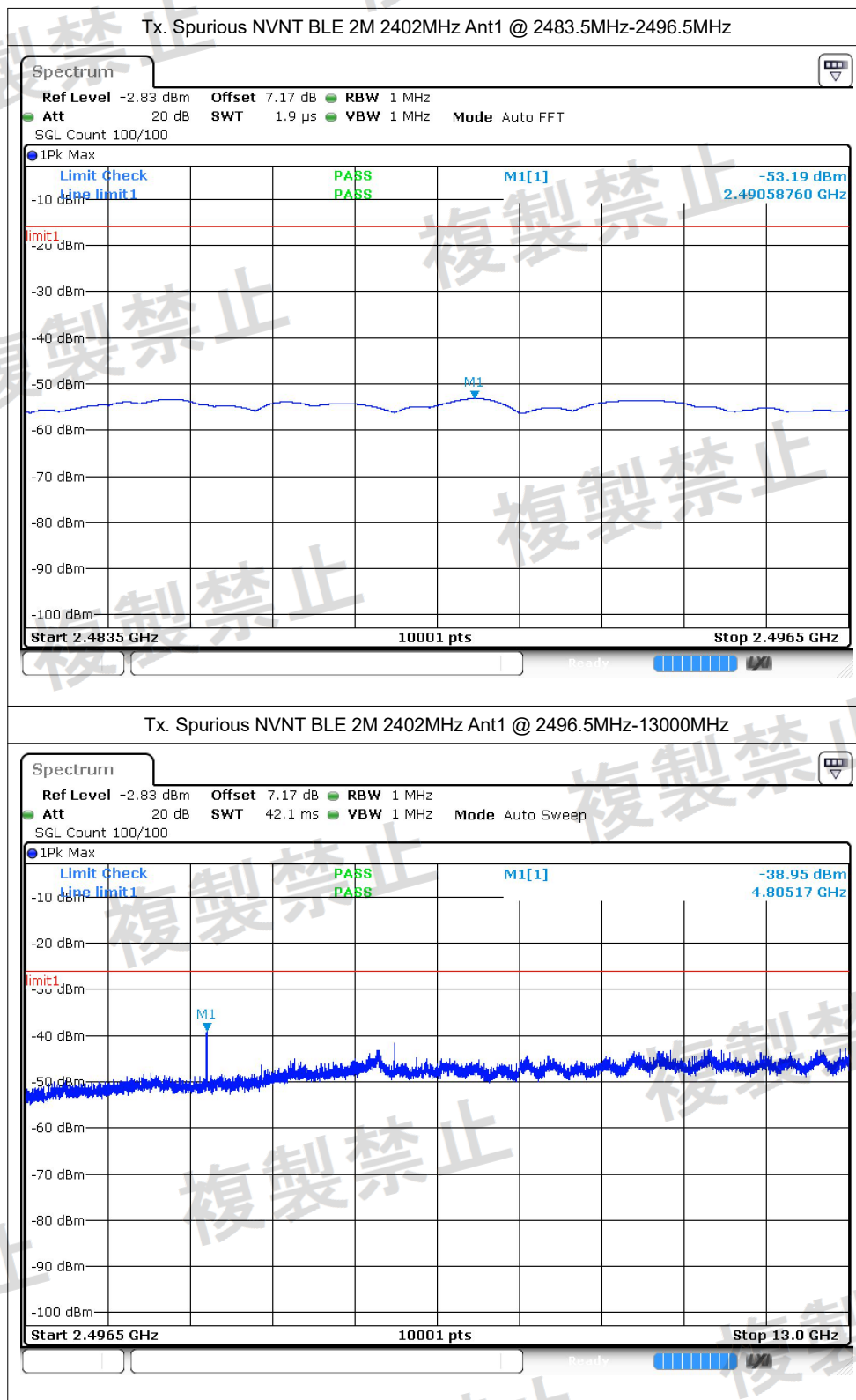


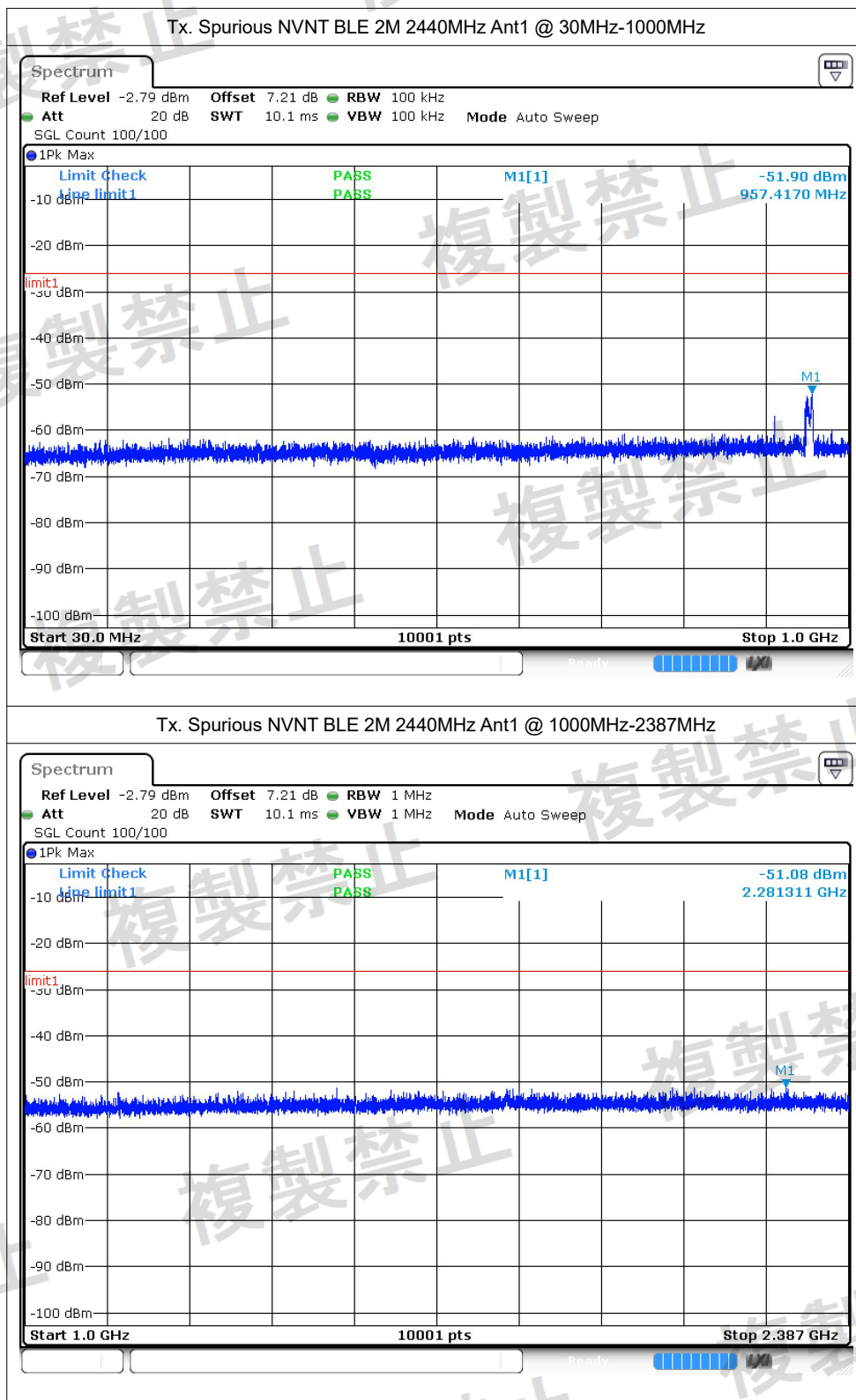


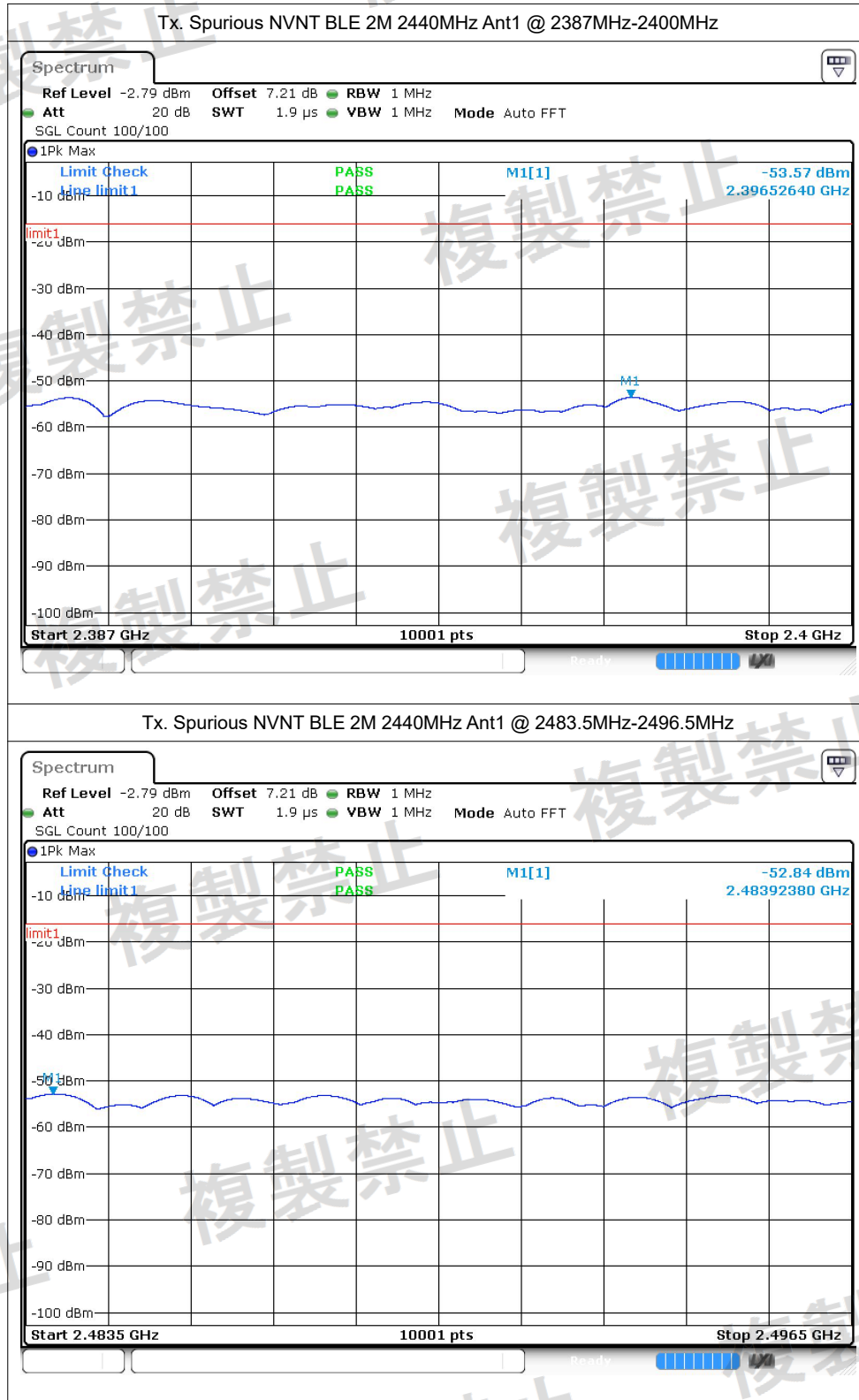


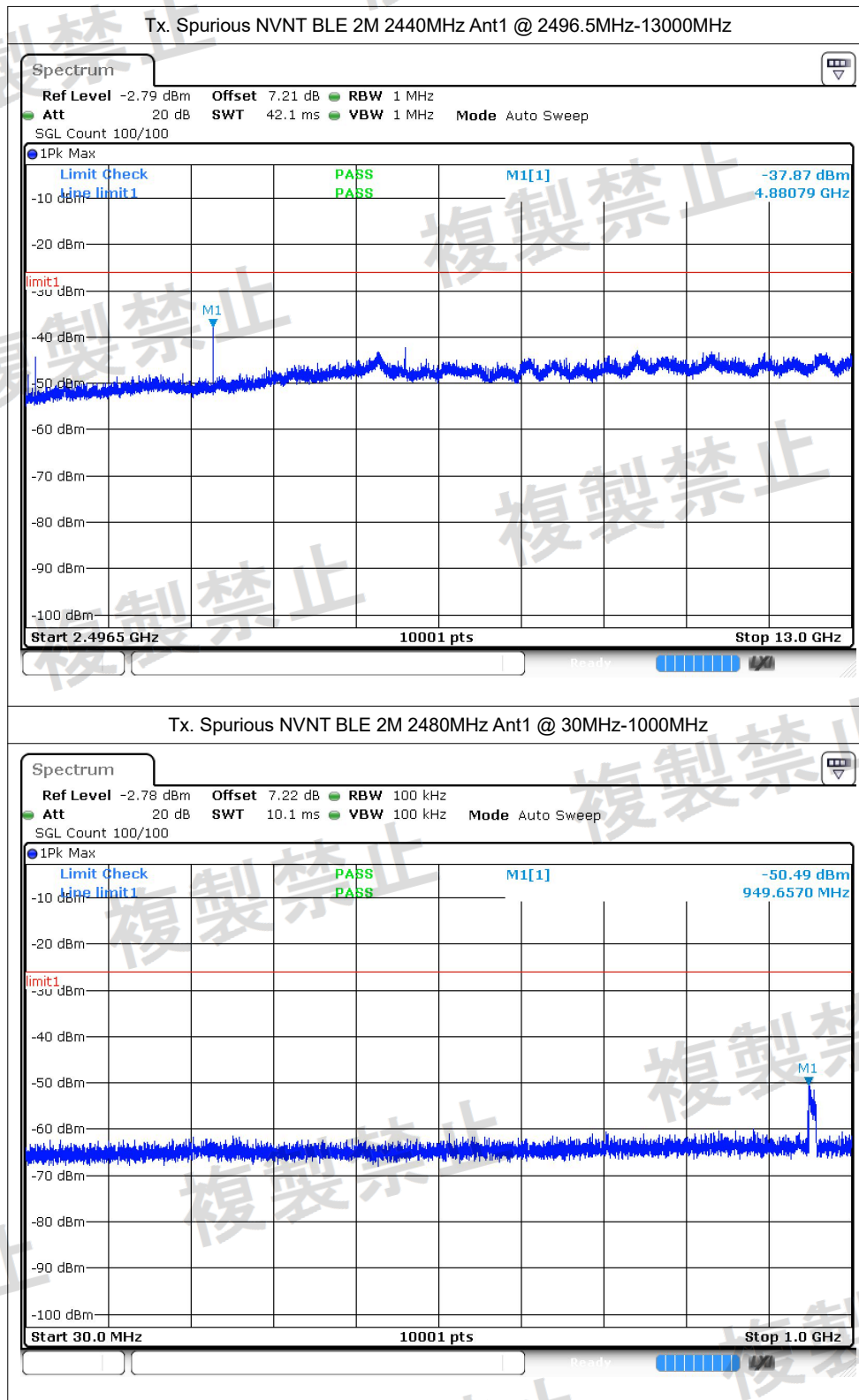


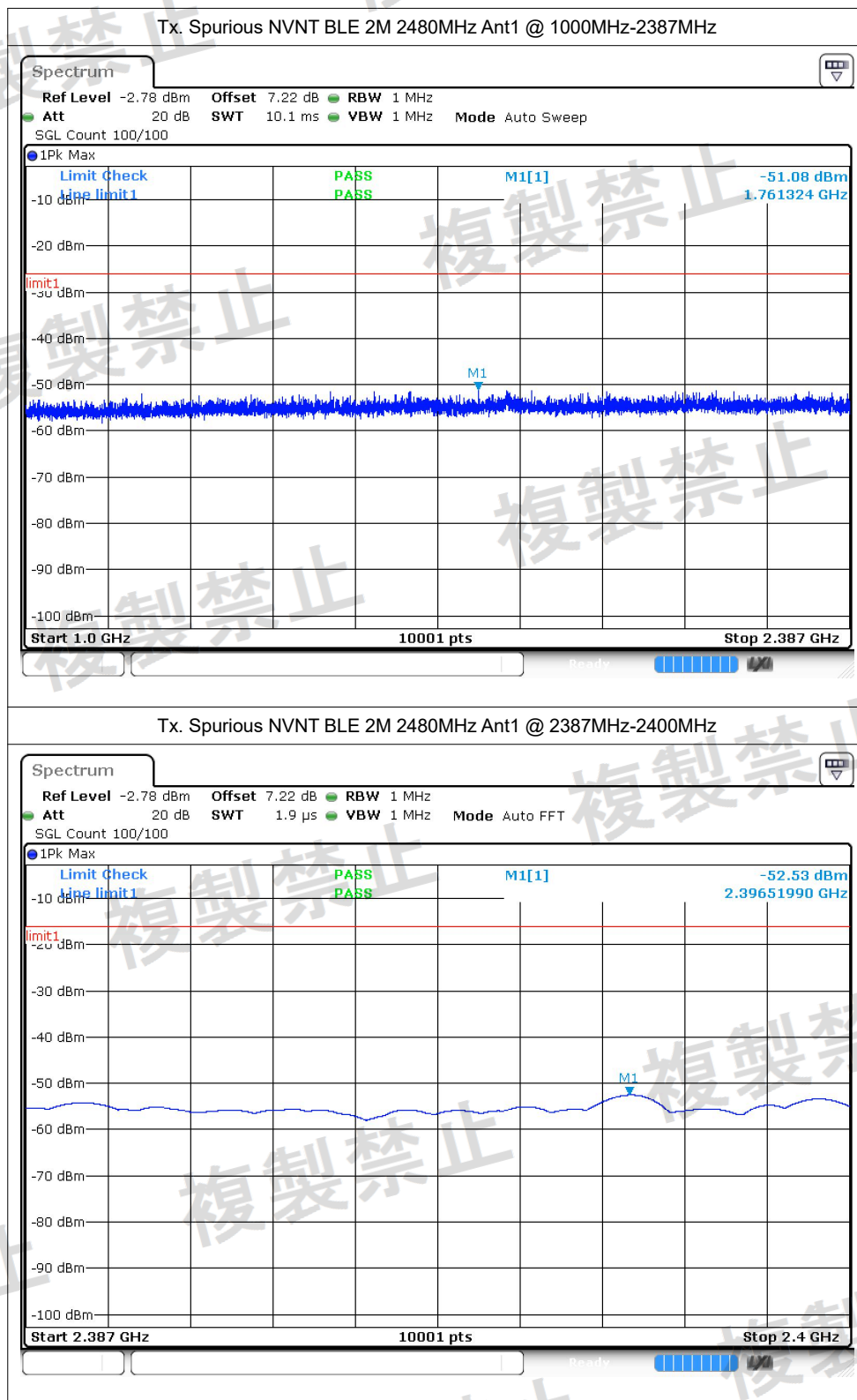


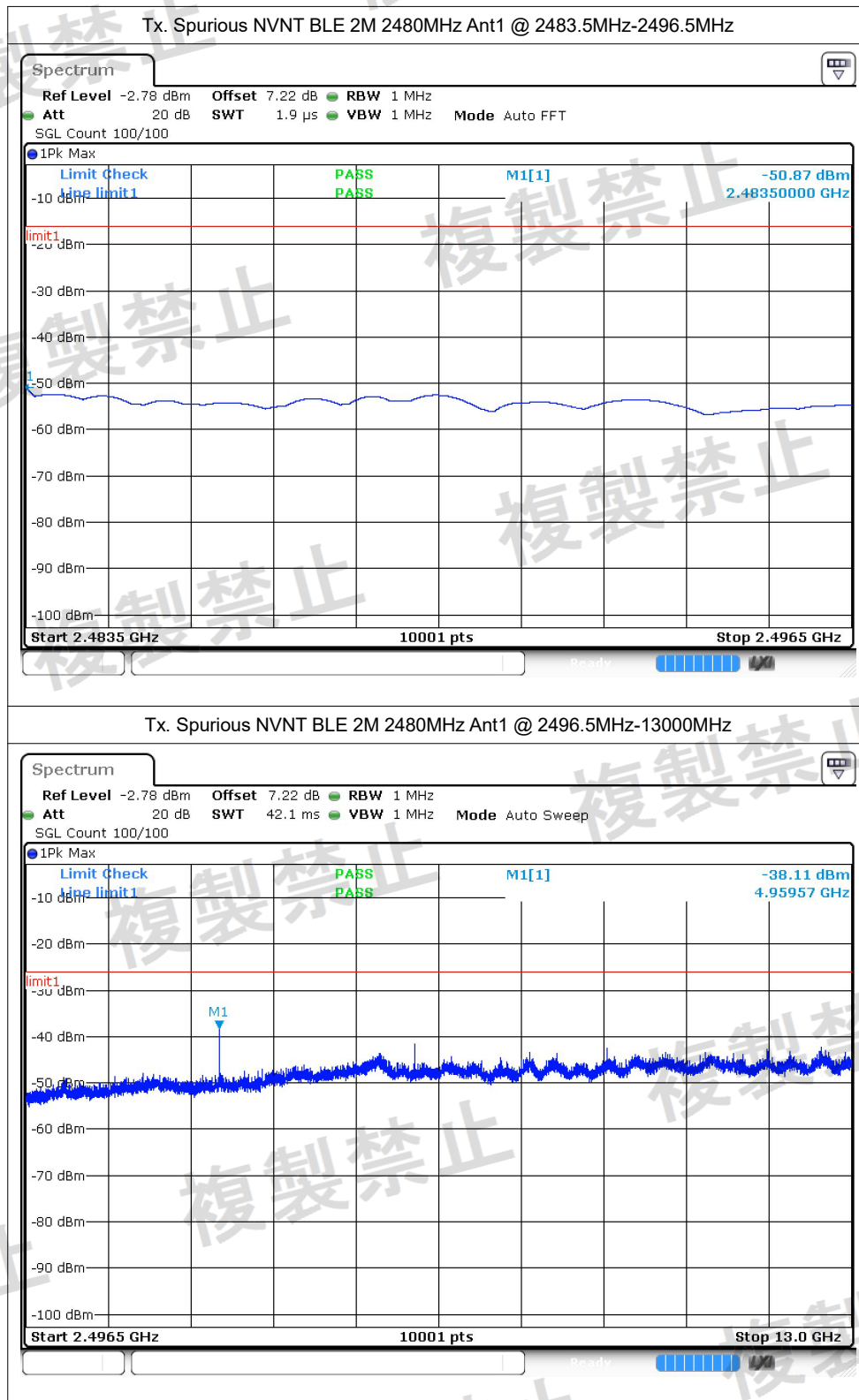












## Rx Spurious Emission

| Condition | Mode   | Frequency (MHz) | Antenna | Range (MHz) | Emission Frequency (MHz) | Max Peak Value (dBm) | Max RMS Value (dBm) | Max Peak Value (nW) | Max RMS Value (nW) | Limit (nW) | Verdict |
|-----------|--------|-----------------|---------|-------------|--------------------------|----------------------|---------------------|---------------------|--------------------|------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 30-1000     | 957.86                   | -59.38               | -57.7               | 1.1535              | 1.6982             | 4          | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 1000-13000  | 2601.20                  | -56.40               | -57.3               | 2.2909              | 1.8621             | 20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 30-1000     | 957.66                   | -58.38               | -57.88              | 1.4521              | 1.6293             | 4          | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 1000-13000  | 2535.20                  | -58.64               | NA                  | 1.3677              | NA                 | 20         | Pass    |

