



## RF Test Data

For

|                      |                                                |
|----------------------|------------------------------------------------|
| Project No.:         | 26CST030009M01                                 |
| Client:              | Shenzhen Mingchuangzhilian Technology Co., Ltd |
| Manufacturer:        | Shenzhen Mingchuangzhilian Technology Co., Ltd |
| Product Description: | Baby monitor                                   |
| Test Model:          | MC628B                                         |
| Test Engineer:       | Li Jun                                         |
| Test Date:           | 2026-05-19                                     |

## Test Summary

| Item                        | Result |
|-----------------------------|--------|
| Frequency Error             | Pass   |
| Occupied Bandwidth          | Pass   |
| Spread Bandwidth            | Pass   |
| Antenna Power               | Pass   |
| Dwell Time                  | Pass   |
| Spurious Emission Intensity | Pass   |
| Secondary Radiated Emission | Pass   |



## 1. Frequency Error

### 1.1 Test Result

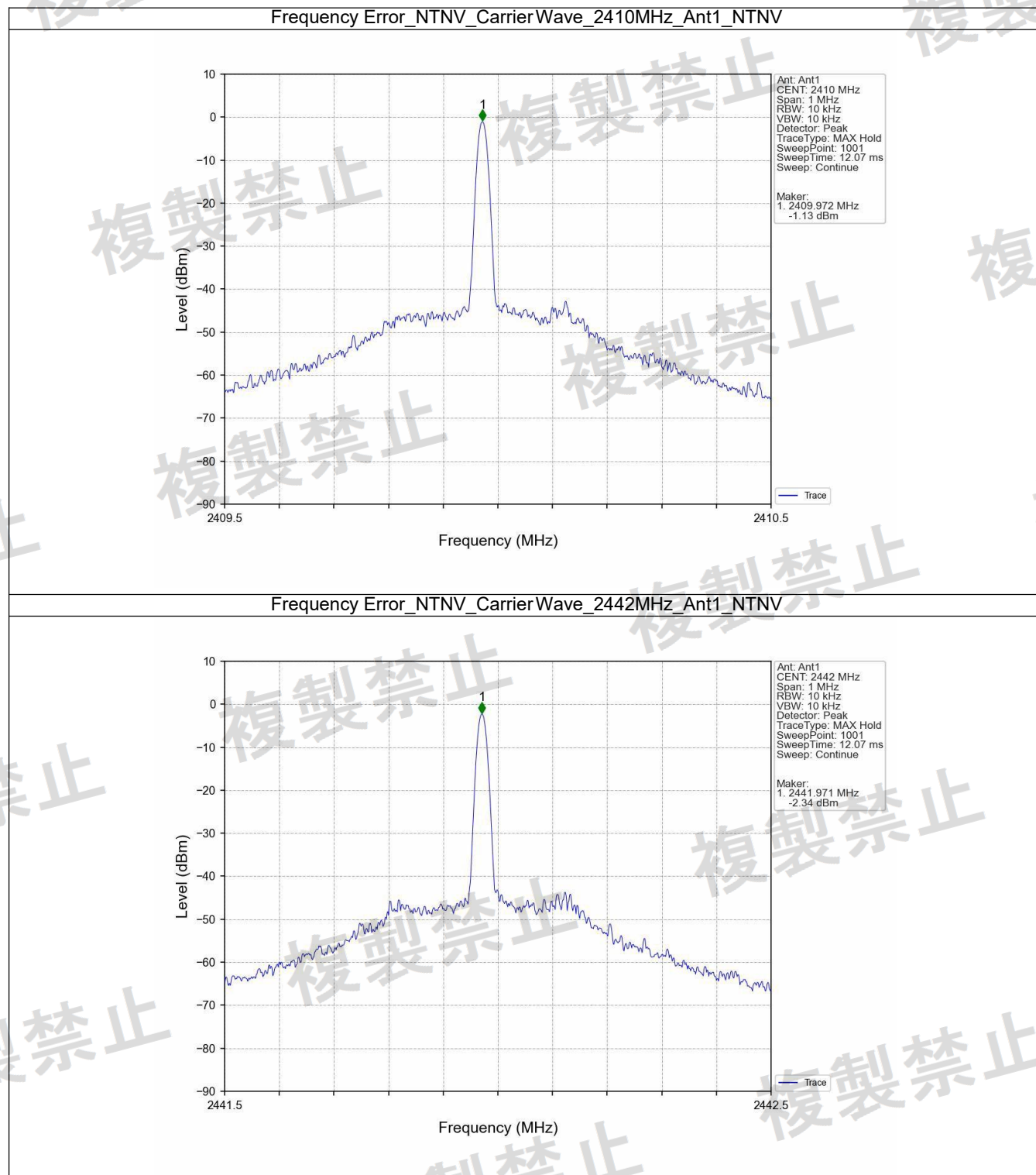
#### 1.1.1 Ant1

| Ant1 |              |         |                 |                          |                 |           |         |
|------|--------------|---------|-----------------|--------------------------|-----------------|-----------|---------|
| ENV  | Mode         | TX Type | Frequency (MHz) | Measured Frequency (MHz) | Tolerance (ppm) |           | Verdict |
|      |              |         |                 |                          | Result          | Limit     |         |
| NTNV | Carrier Wave | SISO    | 2410            | 2409.972                 | -11.62          | -50 to 50 | Pass    |
|      |              |         | 2442            | 2441.971                 | -11.88          | -50 to 50 | Pass    |
|      |              |         | 2472            | 2471.970                 | -12.14          | -50 to 50 | Pass    |
| NTLV | Carrier Wave | SISO    | 2410            | 2409.972                 | -11.62          | -50 to 50 | Pass    |
|      |              |         | 2442            | 2441.971                 | -11.88          | -50 to 50 | Pass    |
|      |              |         | 2472            | 2471.970                 | -12.14          | -50 to 50 | Pass    |
| NTHV | Carrier Wave | SISO    | 2410            | 2409.971                 | -12.03          | -50 to 50 | Pass    |
|      |              |         | 2442            | 2441.971                 | -11.88          | -50 to 50 | Pass    |
|      |              |         | 2472            | 2471.970                 | -12.14          | -50 to 50 | Pass    |



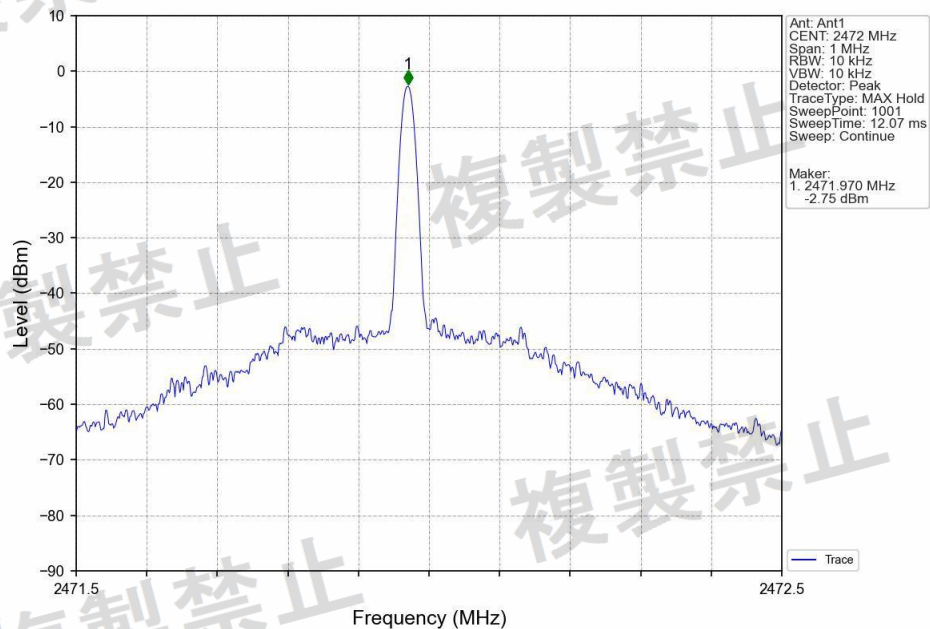
## 1.2 Test Graph

### 1.2.1 Ant1

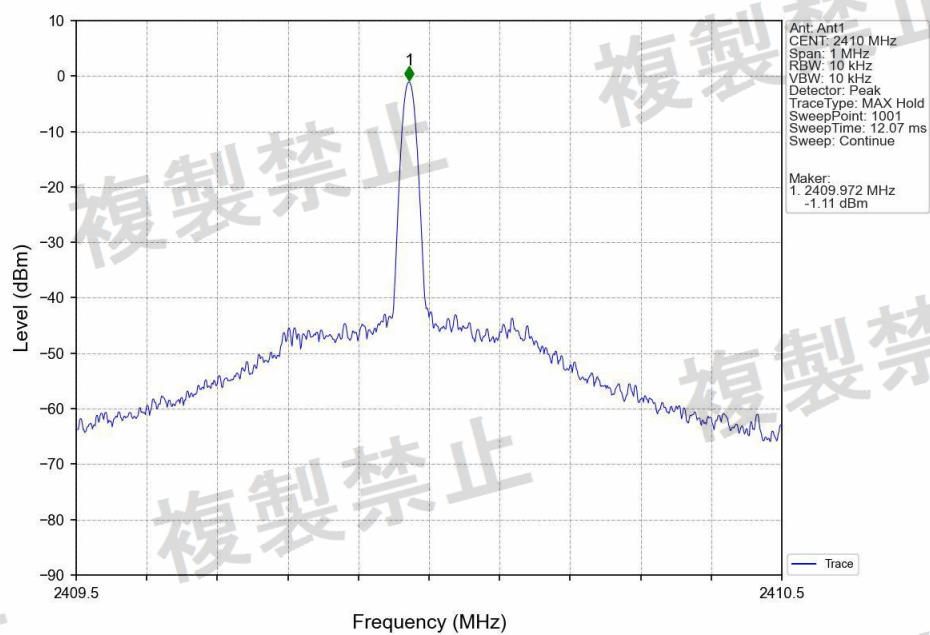


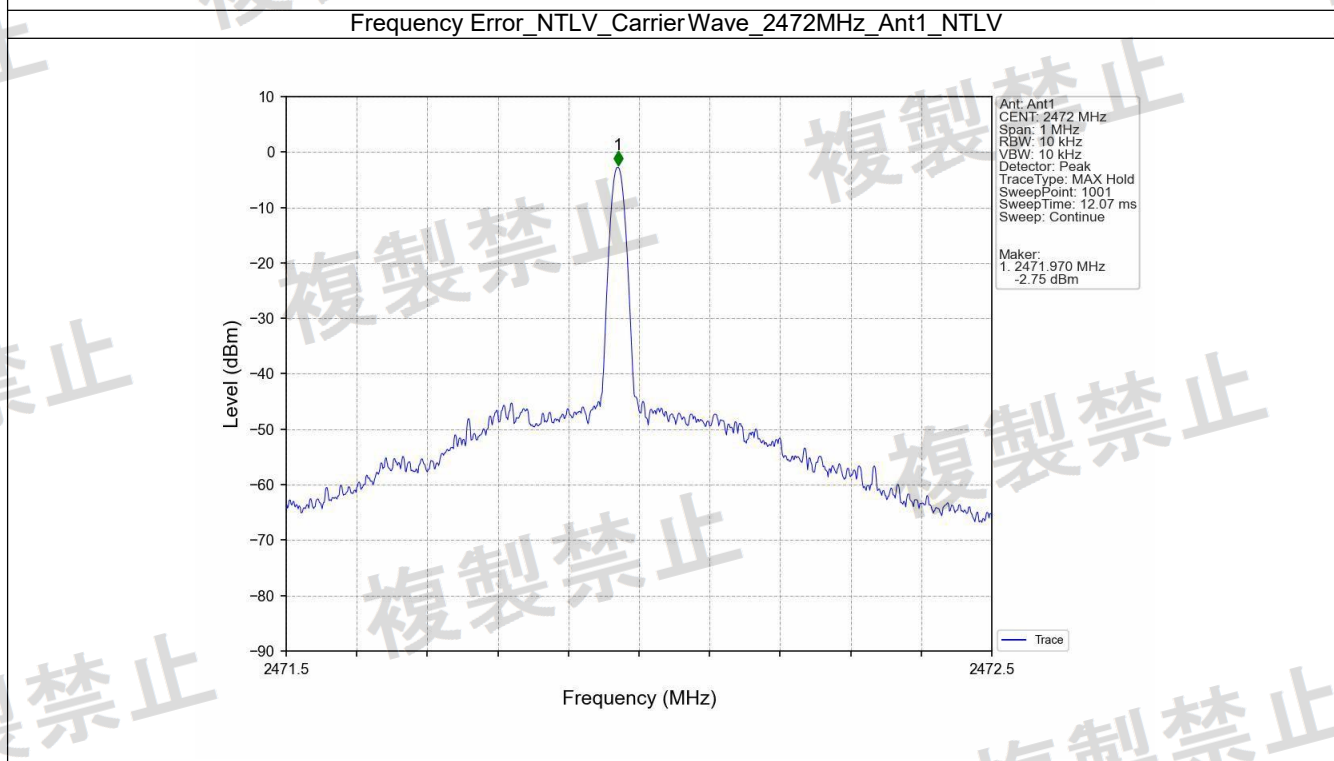
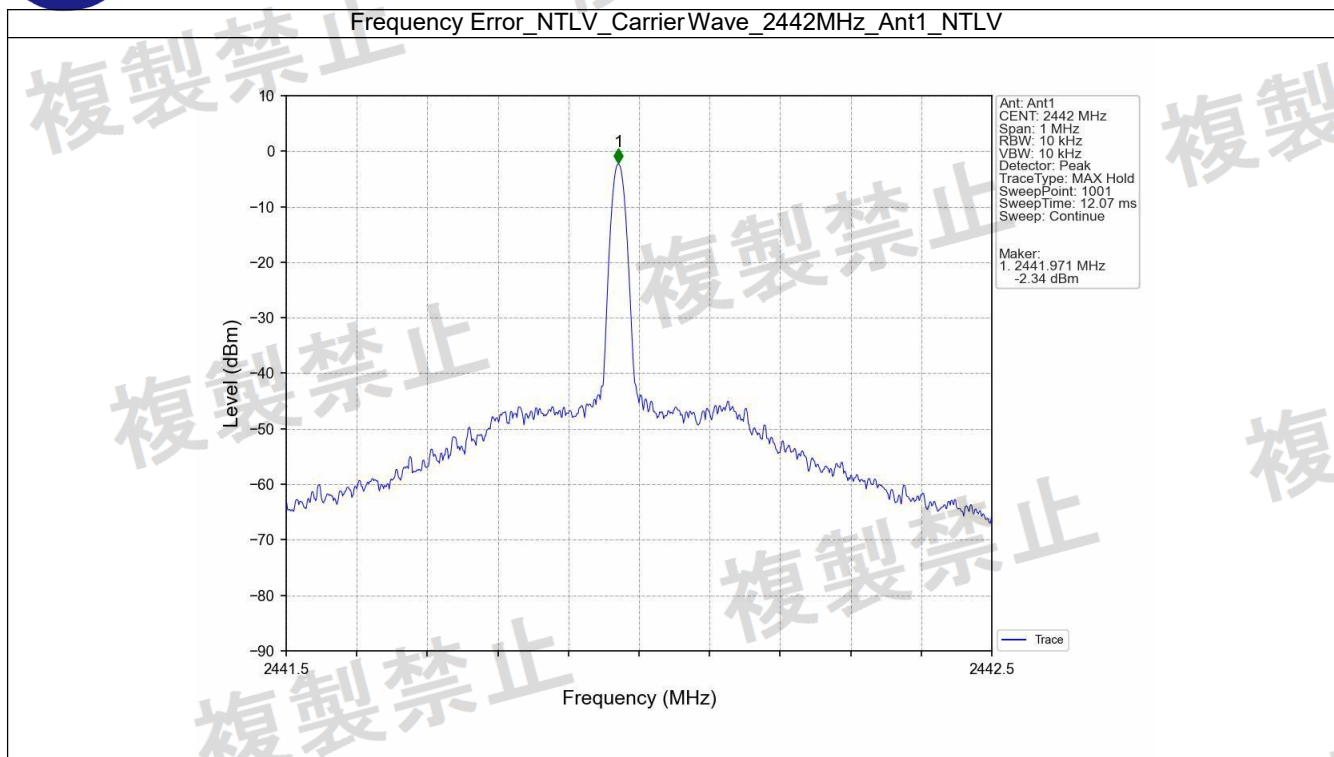


Frequency Error\_NTNV\_Carrier Wave\_2472MHz\_Ant1\_NTNV



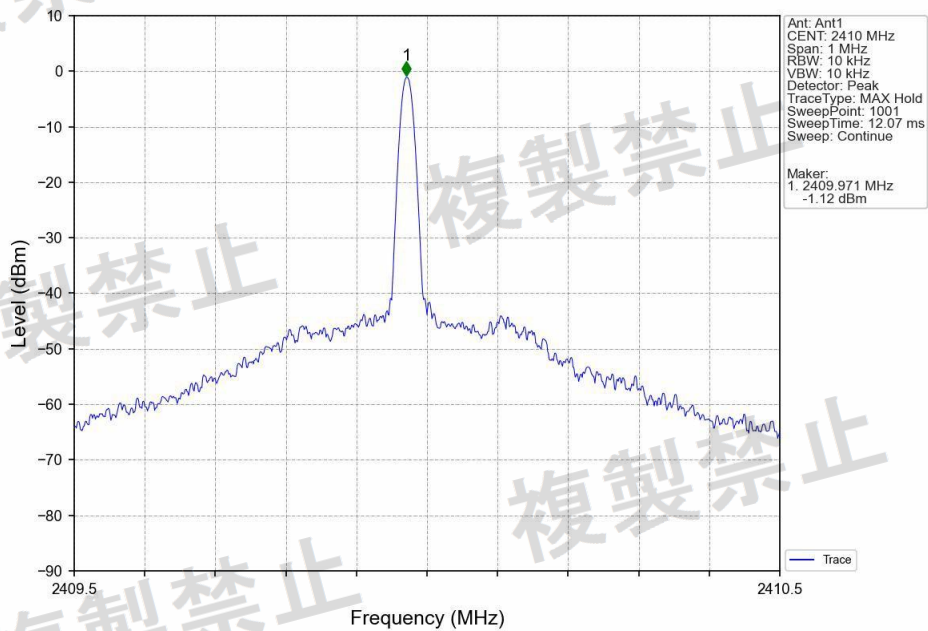
Frequency Error\_NTLV\_Carrier Wave\_2410MHz\_Ant1\_NTLV



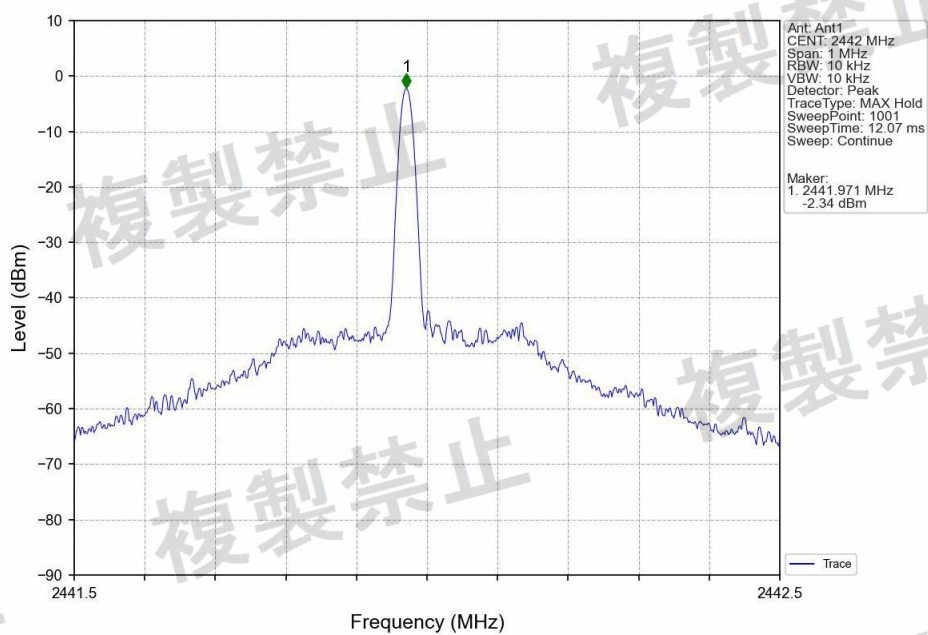


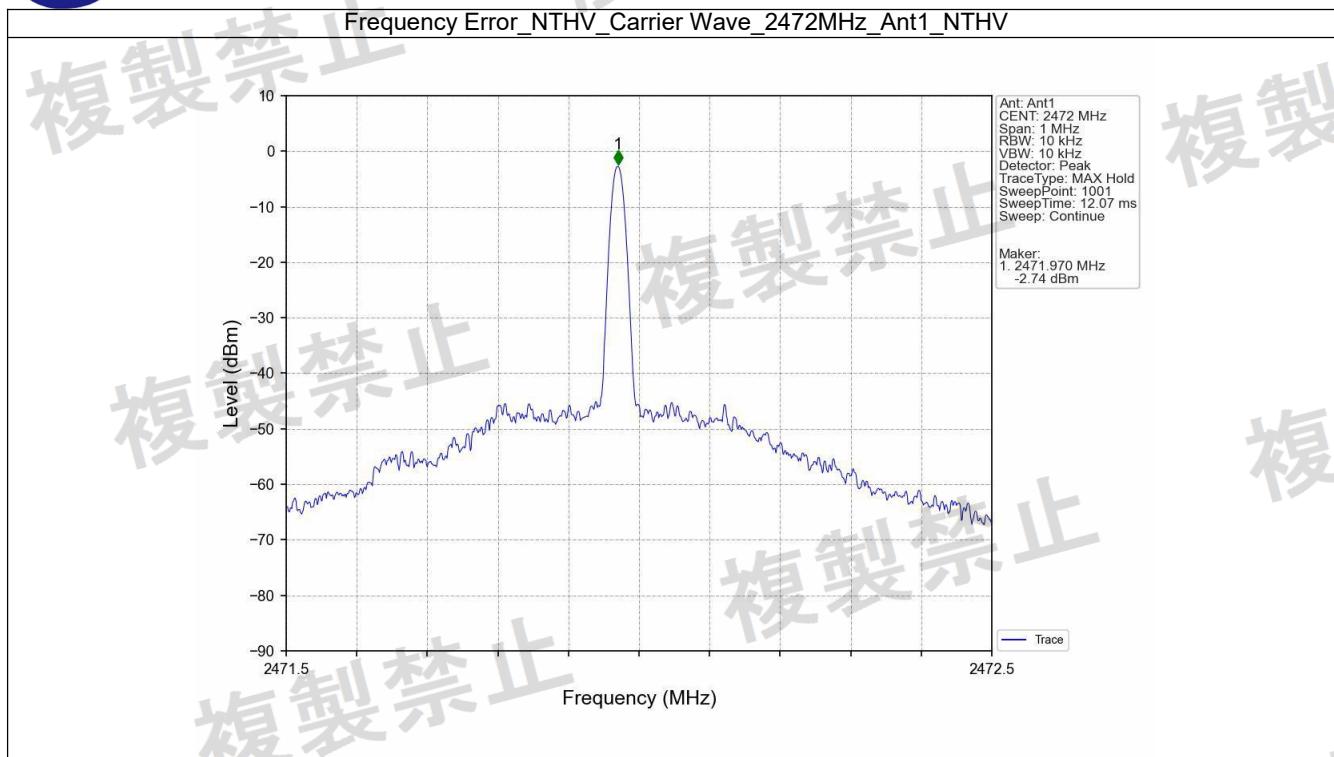


Frequency Error\_NTHV\_CarrierWave\_2410MHz\_Ant1\_NTHV



Frequency Error\_NTHV\_CarrierWave\_2442MHz\_Ant1\_NTHV







## 2. Occupied Bandwidth

### 2.1 Test Result

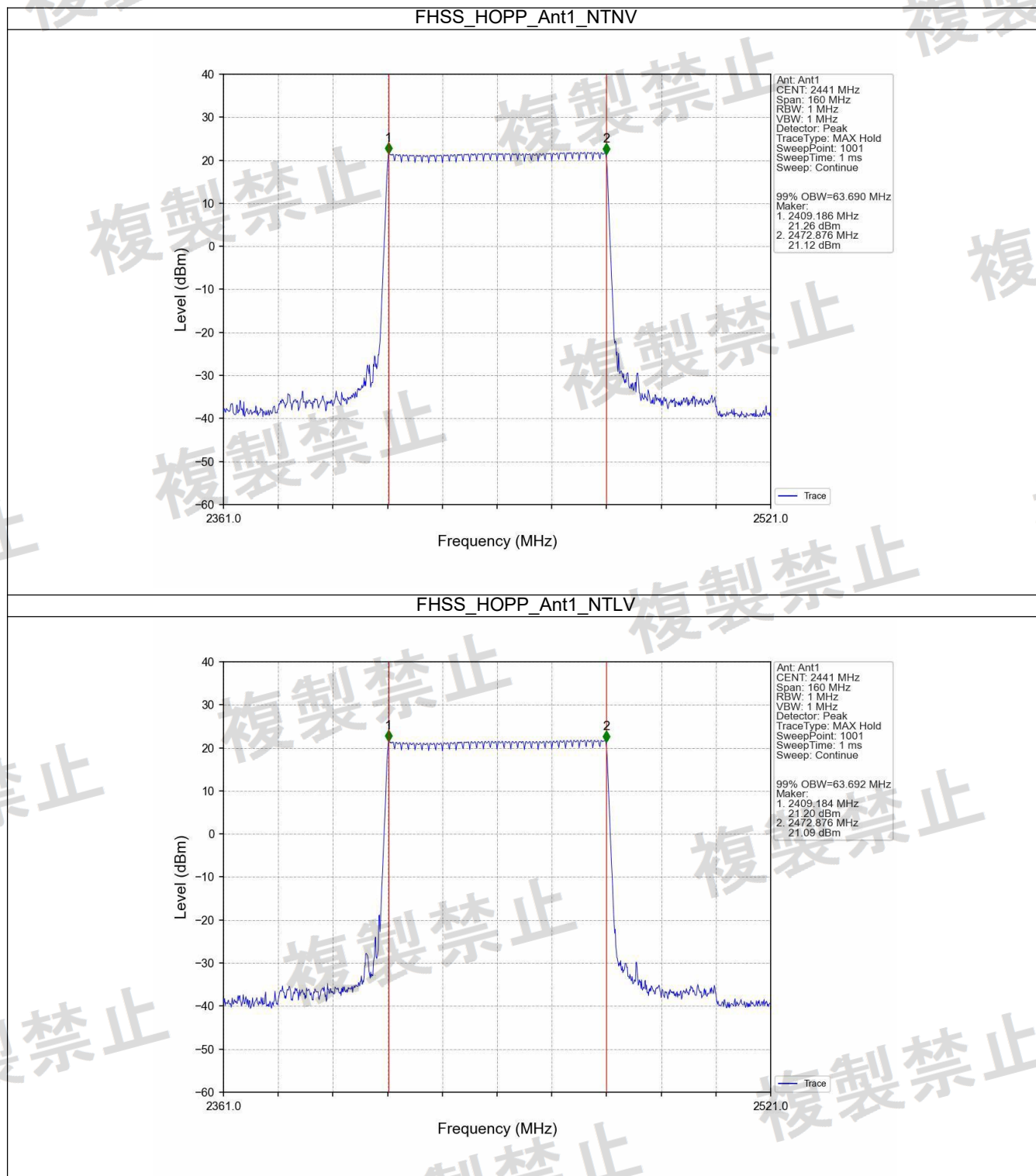
#### 2.1.1 OBW

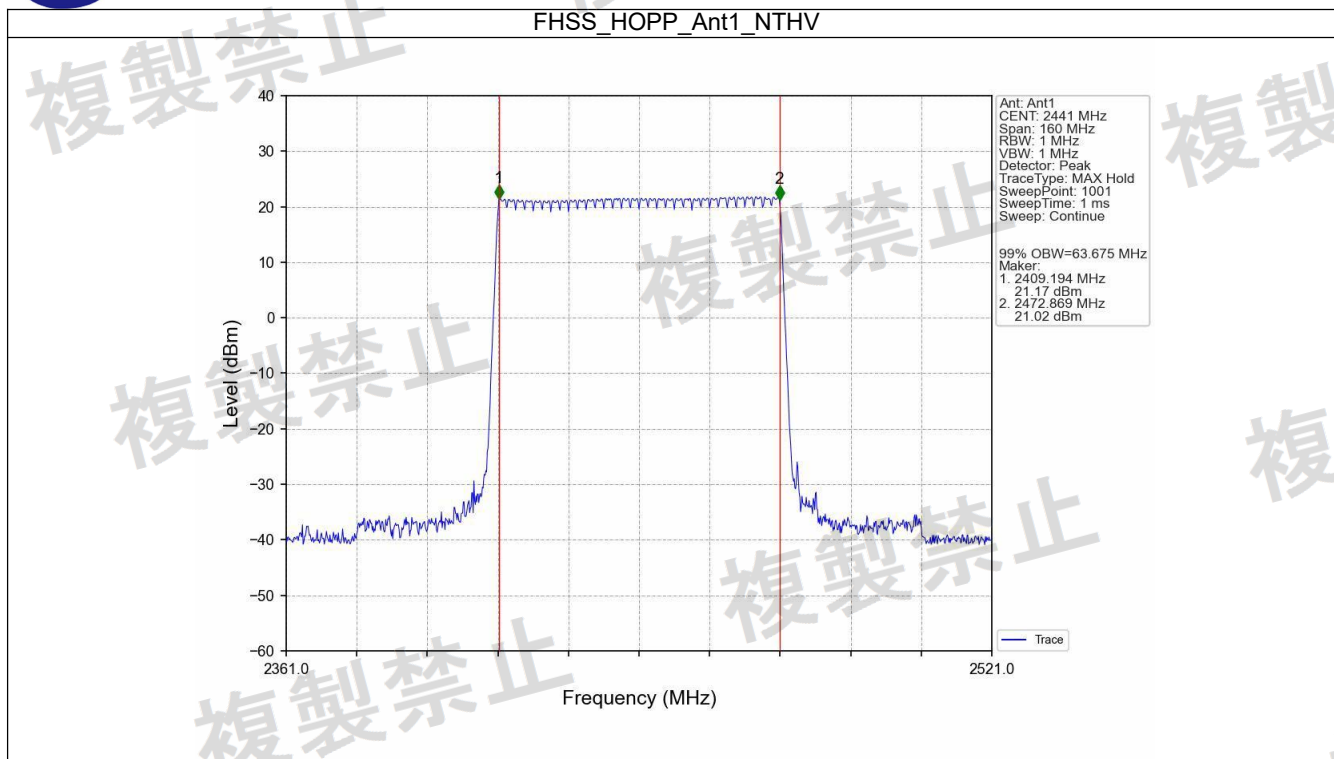
| ENV  | Mode | TX Type | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |             | Verdict |
|------|------|---------|-----------------|------------------------------|-------------|---------|
|      |      |         |                 | ANT1                         | Limit       |         |
| NTNV | FHSS | SISO    | HOPP            | 63.690                       | $\leq 83.5$ | Pass    |
| NTLV | FHSS | SISO    | HOPP            | 63.692                       | $\leq 83.5$ | Pass    |
| NTHV | FHSS | SISO    | HOPP            | 63.675                       | $\leq 83.5$ | Pass    |



## 2.2 Test Graph

### 2.2.1 OBW







### 3. Spread Bandwidth

#### 3.1 Test Result

##### 3.1.1 SPBW

| ENV  | Mode | TX Type | Frequency (MHz) | Spread Bandwidth (MHz) |            | Verdict |
|------|------|---------|-----------------|------------------------|------------|---------|
|      |      |         |                 | ANT1                   | Limit      |         |
| NTNV | FHSS | SISO    | HOPP            | 58.082                 | $\geq 0.5$ | Pass    |
| NTLV | FHSS | SISO    | HOPP            | 58.105                 | $\geq 0.5$ | Pass    |
| NTHV | FHSS | SISO    | HOPP            | 58.065                 | $\geq 0.5$ | Pass    |

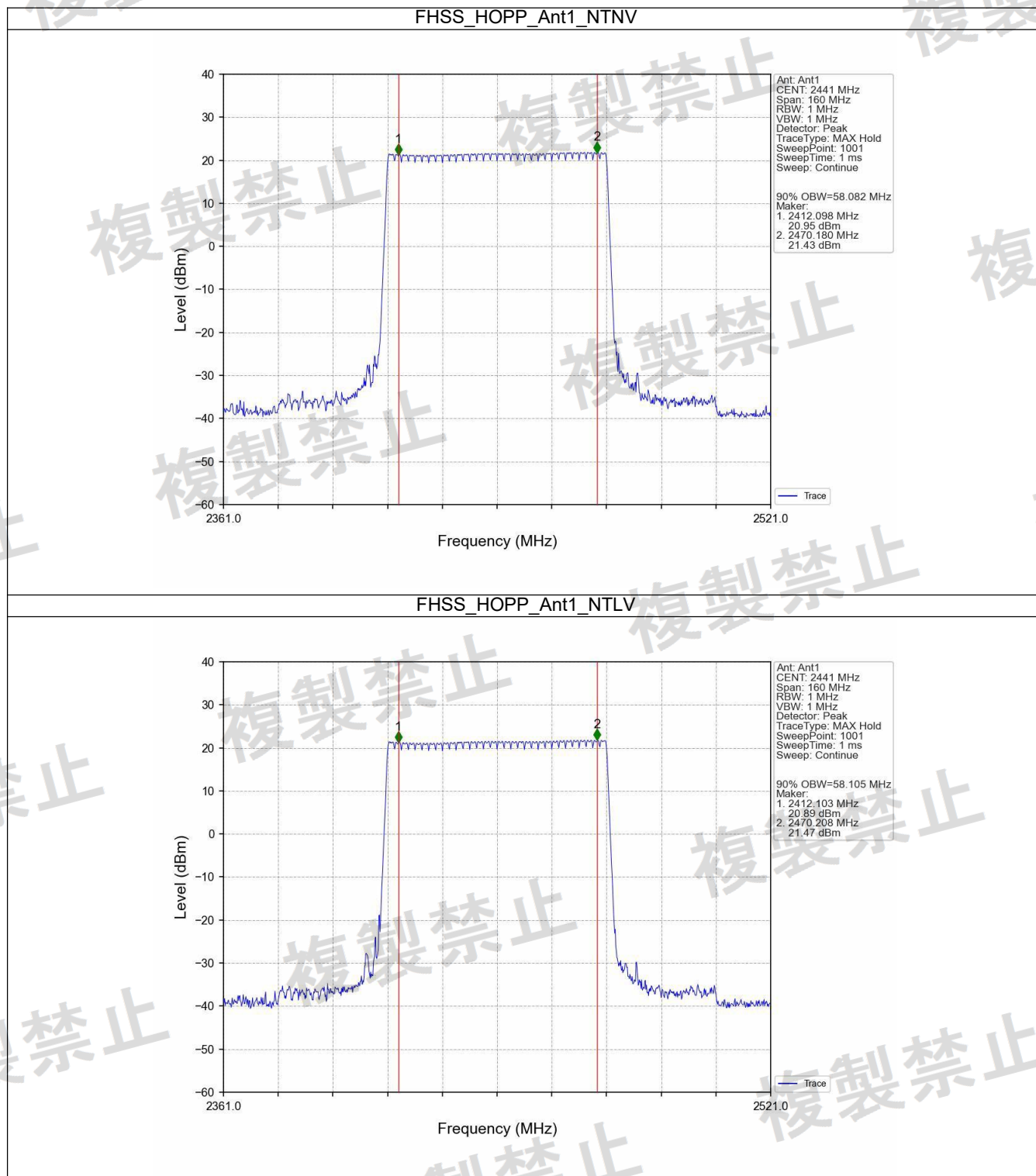
##### 3.1.2 SpreadFactor

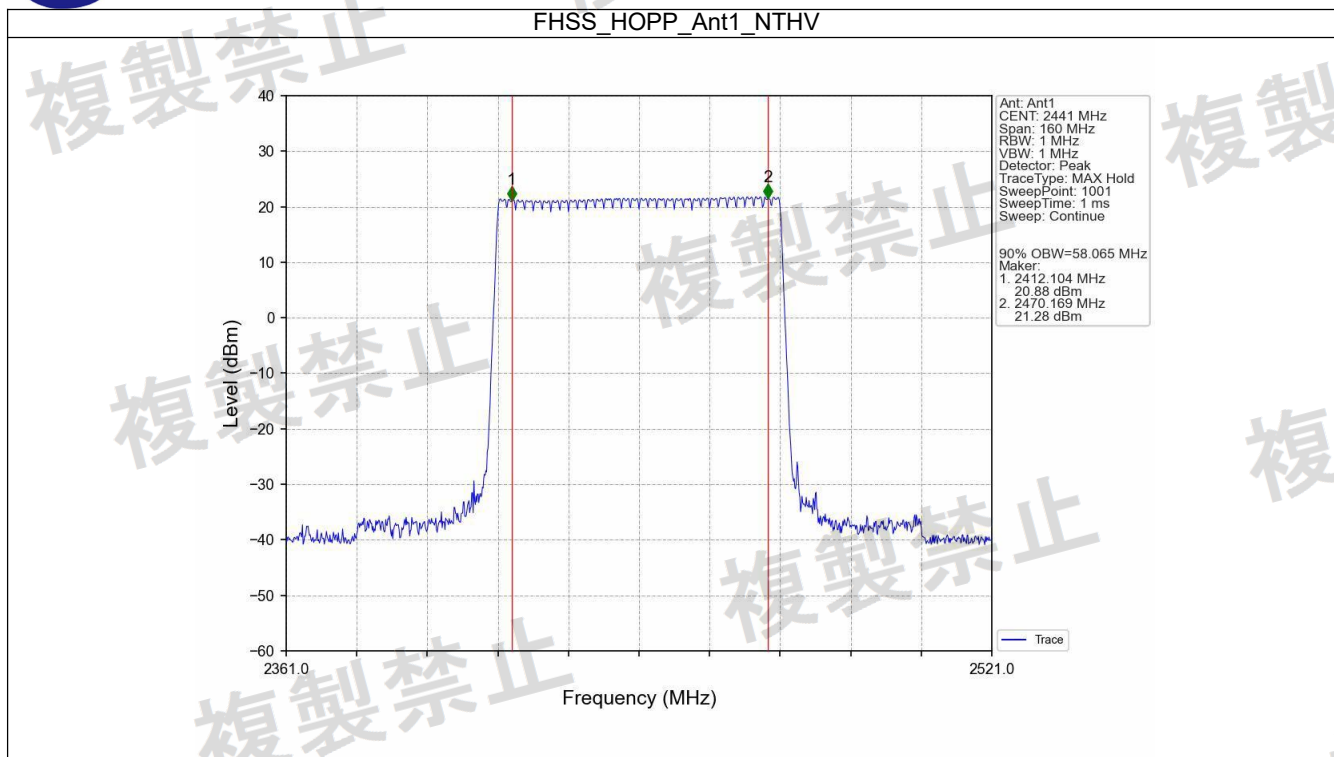
| ENV  | Mode | TX Type | Frequency (MHz) | Spread Factor |          | Verdict |
|------|------|---------|-----------------|---------------|----------|---------|
|      |      |         |                 | ANT1          | Limit    |         |
| NTNV | FHSS | SISO    | HOPP            | 58.082        | $\geq 5$ | Pass    |
| NTLV | FHSS | SISO    | HOPP            | 58.105        | $\geq 5$ | Pass    |
| NTHV | FHSS | SISO    | HOPP            | 58.065        | $\geq 5$ | Pass    |



## 3.2 Test Graph

### 3.2.1 SPBW







## 4. Antenna Power

### 4.1 Test Result

#### 4.1.1 Power

| ENV  | Mode | TX Type | Frequency (MHz) | ANT | Antenna Power (mW/MHz) |             | Nominal Power (mW/MHz) | Tolerance (%) |       | Verdict |
|------|------|---------|-----------------|-----|------------------------|-------------|------------------------|---------------|-------|---------|
|      |      |         |                 |     | Measured               | Limit       |                        | Measured      | Limit |         |
| NTNV | FHSS | SISO    | HOPP            | 1   | 2.336                  | $\leq 3.00$ | 2.300                  | 1.57          | 20    | Pass    |
| NTLV | FHSS | SISO    | HOPP            | 1   | 2.350                  | $\leq 3.00$ | 2.300                  | 2.17          | 20    | Pass    |
| NTHV | FHSS | SISO    | HOPP            | 1   | 2.226                  | $\leq 3.00$ | 2.300                  | -3.22         | 20    | Pass    |

#### 4.1.2 EIRP

| ENV  | Mode | TX Type | Frequency (MHz) | ANT | Antenna Power (dBm/MHz) | EIRP (dBm/MHz) |             | Verdict |
|------|------|---------|-----------------|-----|-------------------------|----------------|-------------|---------|
|      |      |         |                 |     |                         | Result         | Limit       |         |
| NTNV | FHSS | SISO    | HOPP            | 1   | 3.68                    | 5.76           | $\leq 6.91$ | Pass    |
| NTLV | FHSS | SISO    | HOPP            | 1   | 3.71                    | 5.79           | $\leq 6.91$ | Pass    |
| NTHV | FHSS | SISO    | HOPP            | 1   | 3.48                    | 5.56           | $\leq 6.91$ | Pass    |

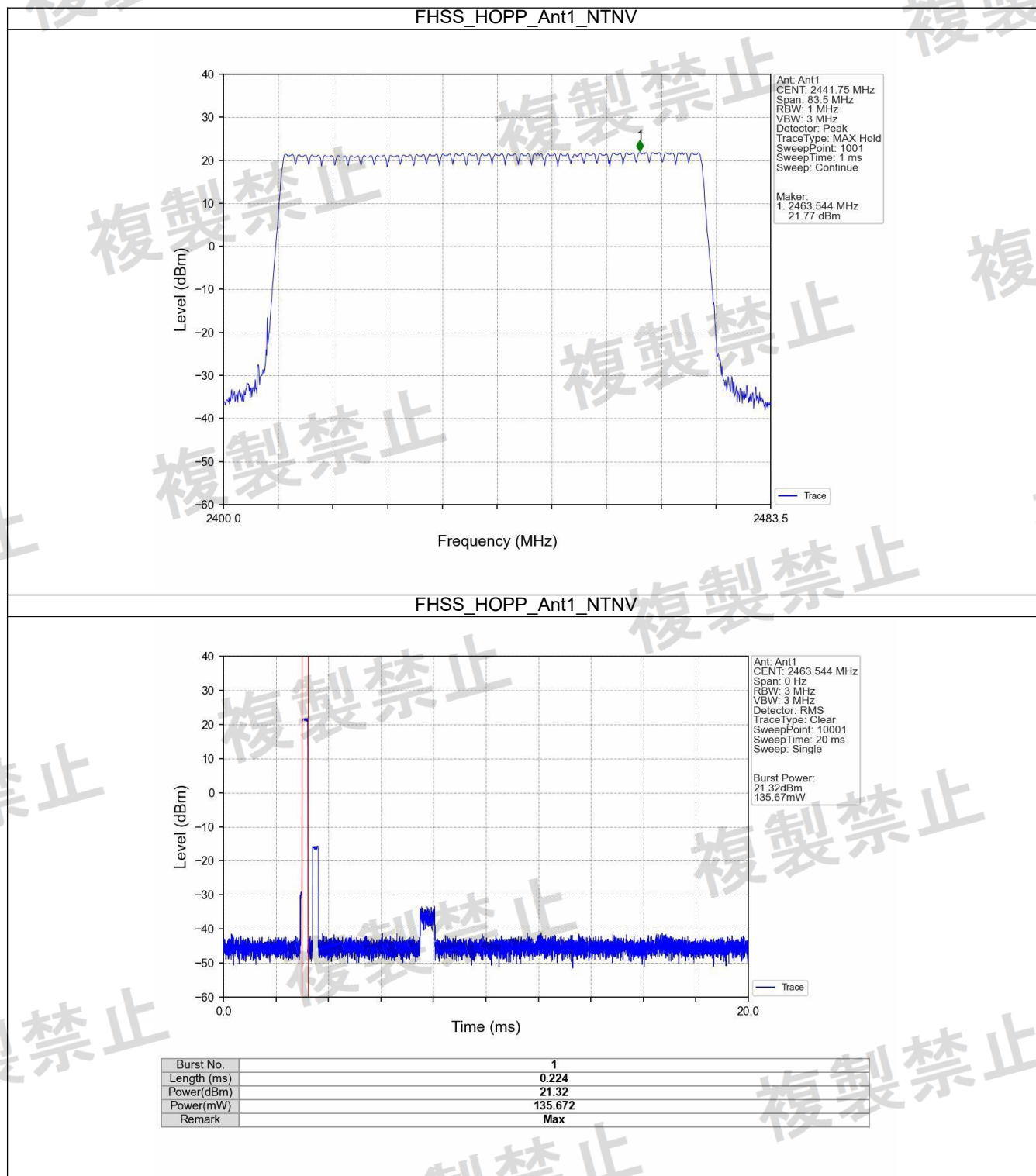
Antenna Gain: 2.08 dBi

Antenna Power (mW/MHz) = Conduct measurement power(mW)/90% Spread Bandwidth



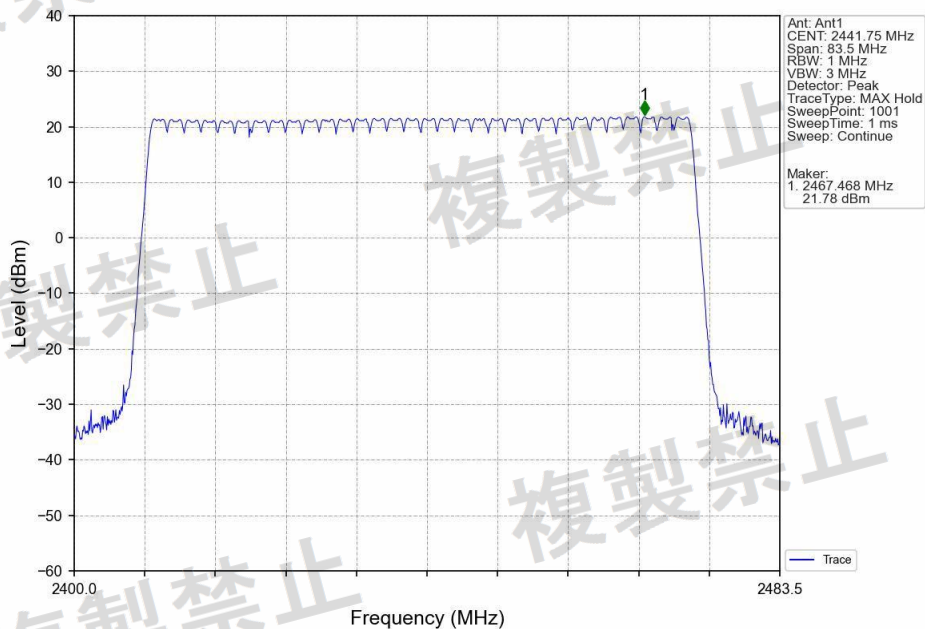
## 4.2 Test Graph

### 4.2.1 Power

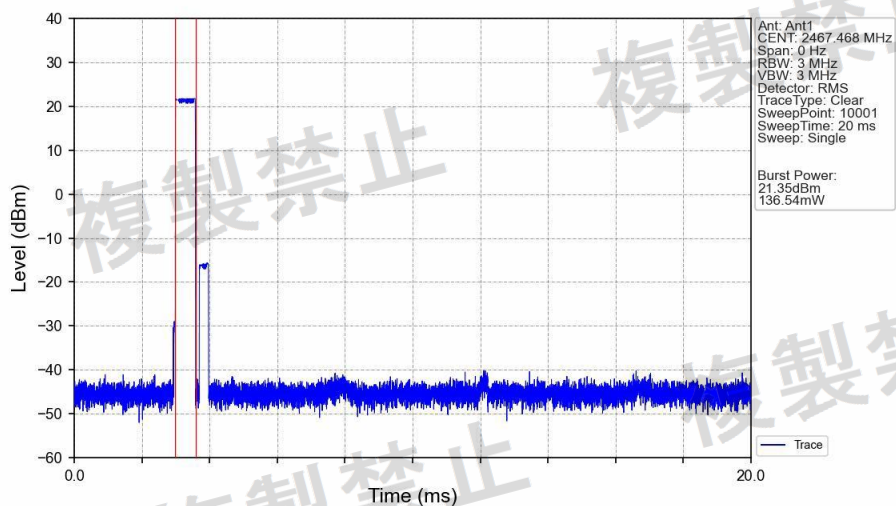




FHSS\_HOPP\_Ant1\_NTLV



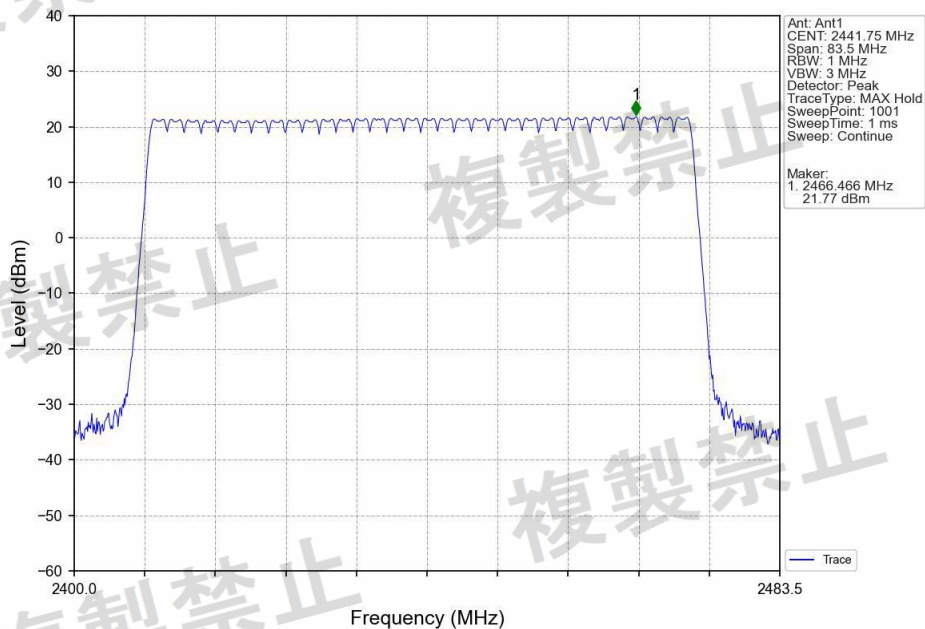
FHSS\_HOPP\_Ant1\_NTLV



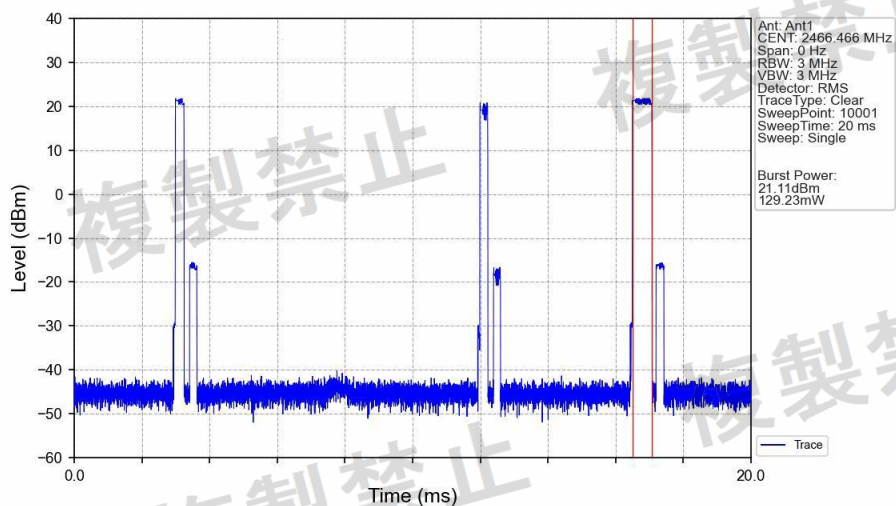
|             |         |
|-------------|---------|
| Burst No.   | 1       |
| Length (ms) | 0.594   |
| Power(dBm)  | 21.35   |
| Power(mW)   | 136.537 |
| Remark      | Max     |



FHSS\_HOPP\_Ant1\_NTHV



FHSS\_HOPP\_Ant1\_NTHV



| Burst No.   | 1       | 2      | 3       |
|-------------|---------|--------|---------|
| Length (ms) | 0.262   | 0.238  | 0.582   |
| Power(dBm)  | 20.99   | 19.18  | 21.11   |
| Power(mW)   | 125.572 | 82.767 | 129.229 |
| Remark      | /       | /      | Max     |



## 5. Dwell Time

### 5.1 Test Result

#### 5.1.1 Ant1

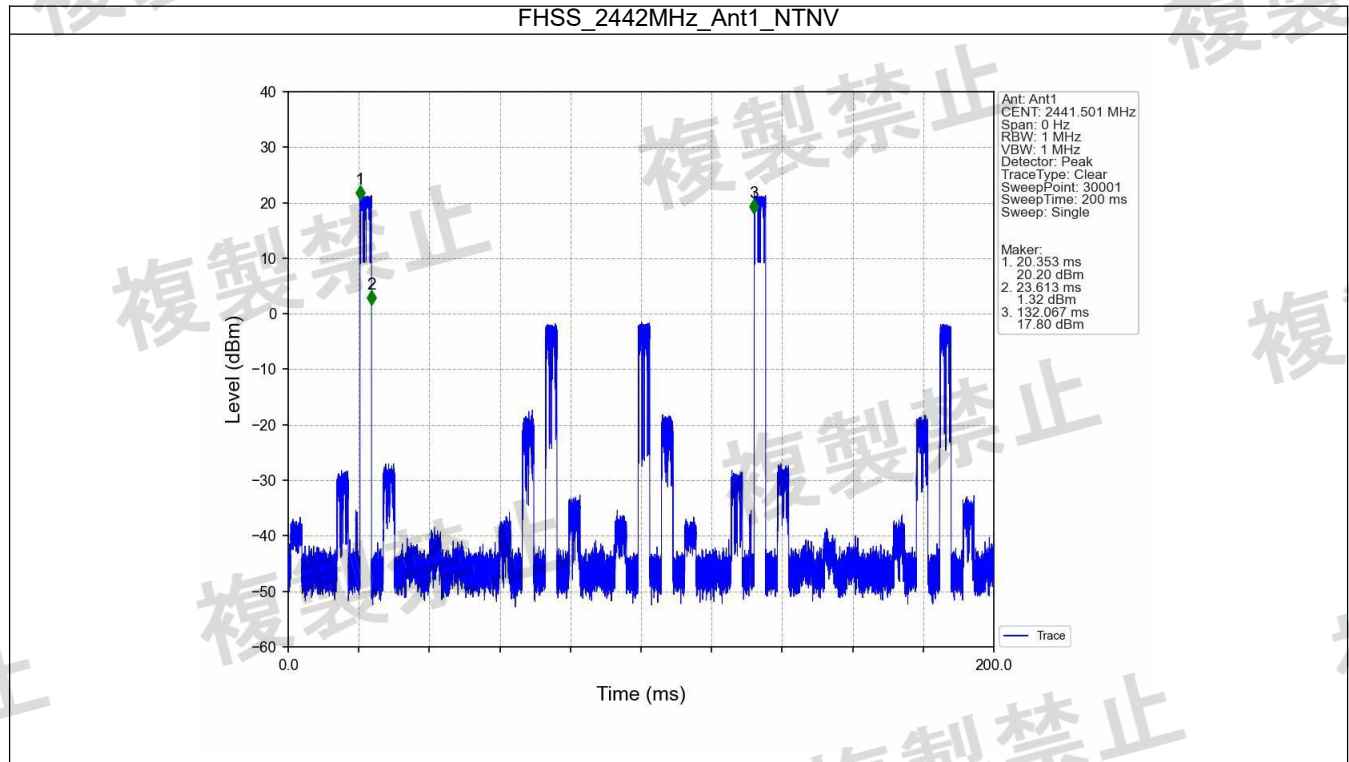
| Ant1 |      |         |                 |                |           |             |             |                 |       |         |
|------|------|---------|-----------------|----------------|-----------|-------------|-------------|-----------------|-------|---------|
| ENV  | Mode | TX Type | Frequency (MHz) | Spreading Rate | T_on (ms) | Period (ms) | Hopp Number | Dwell Time (ms) |       | Verdict |
|      |      |         |                 |                |           |             |             | Result          | Limit |         |
| NTNV | FHSS | SISO    | 2442            | 62.886         | 3.260     | 111.714     | 32          | 21.886          | <=400 | Pass    |

Note: Note: Dwell time=Dwell time=0.4 x (spreading rate)x(transmission time of 1 burst)/[(burst cycle)x(No. of hopping channels)]



## 5.2 Test Graph

### 5.2.1 Ant1





## 6. Spurious Emission Intensity

### 6.1 Test Result

#### 6.1.1 TxSe\_NTNV

| NTNV |         |             |     |             |            |             |                     |                    |                     |                    |                 |         |
|------|---------|-------------|-----|-------------|------------|-------------|---------------------|--------------------|---------------------|--------------------|-----------------|---------|
| Mode | TX Type | Freq. (MHz) | ANT | Freq. Range |            | Marker      |                     |                    |                     |                    | Limit (uW /MHz) | Verdict |
|      |         |             |     | Start (MHz) | Stop (MHz) | Freq. (MHz) | PK Power (dBm /MHz) | PK Power (uW /MHz) | AV Power (dBm /MHz) | AV Power (uW /MHz) |                 |         |
| FHSS | SISO    | 2410        | 1   | 30          | 2387       | 1061        | -31.56              | 0.698              | /                   | /                  | 2.5             | Pass    |
|      |         |             |     | 2387        | 2400       | 2399.883    | -35.34              | 0.292              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2483.5      | 2496.5     | 2484.202    | -40.62              | 0.087              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2496.5      | 12500      | 5307        | -38.55              | 0.140              | /                   | /                  | 2.5             | Pass    |
|      |         | 2442        | 1   | 30          | 2387       | 2255.5      | -40.74              | 0.084              | /                   | /                  | 2.5             | Pass    |
|      |         |             |     | 2387        | 2400       | 2390.536    | -41.12              | 0.077              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2483.5      | 2496.5     | 2490.767    | -41.61              | 0.069              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2496.5      | 12500      | 11822       | -39.03              | 0.125              | /                   | /                  | 2.5             | Pass    |
|      |         | 2472        | 1   | 30          | 2387       | 2258.5      | -39.84              | 0.104              | /                   | /                  | 2.5             | Pass    |
|      |         |             |     | 2387        | 2400       | 2388.001    | -41.79              | 0.066              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2483.5      | 2496.5     | 2488.297    | -36.01              | 0.251              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2496.5      | 12500      | 6135.5      | -38.81              | 0.132              | /                   | /                  | 2.5             | Pass    |

#### 6.1.2 TxSe\_NTLV

| NTLV |         |             |     |             |            |             |                     |                    |                     |                    |                 |         |
|------|---------|-------------|-----|-------------|------------|-------------|---------------------|--------------------|---------------------|--------------------|-----------------|---------|
| Mode | TX Type | Freq. (MHz) | ANT | Freq. Range |            | Marker      |                     |                    |                     |                    | Limit (uW /MHz) | Verdict |
|      |         |             |     | Start (MHz) | Stop (MHz) | Freq. (MHz) | PK Power (dBm /MHz) | PK Power (uW /MHz) | AV Power (dBm /MHz) | AV Power (uW /MHz) |                 |         |
| FHSS | SISO    | 2410        | 1   | 30          | 2387       | 2378.5      | -38.66              | 0.136              | /                   | /                  | 2.5             | Pass    |
|      |         |             |     | 2387        | 2400       | 2399.896    | -35.62              | 0.274              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2483.5      | 2496.5     | 2486.1      | -42.14              | 0.061              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2496.5      | 12500      | 6746        | -38.19              | 0.152              | /                   | /                  | 2.5             | Pass    |
|      |         | 2442        | 1   | 30          | 2387       | 2259        | -40.97              | 0.080              | /                   | /                  | 2.5             | Pass    |
|      |         |             |     | 2387        | 2400       | 2392.98     | -41.73              | 0.067              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2483.5      | 2496.5     | 2488.83     | -41.82              | 0.066              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2496.5      | 12500      | 7119        | -37.38              | 0.183              | /                   | /                  | 2.5             | Pass    |
|      |         | 2472        | 1   | 30          | 2387       | 2302.5      | -40.13              | 0.097              | /                   | /                  | 2.5             | Pass    |
|      |         |             |     | 2387        | 2400       | 2391.823    | -41.60              | 0.069              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2483.5      | 2496.5     | 2483.734    | -36.26              | 0.237              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2496.5      | 12500      | 6637.5      | -38.27              | 0.149              | /                   | /                  | 2.5             | Pass    |

#### 6.1.3 TxSe\_NTHV

| NTHV |         |             |     |             |            |             |                     |                    |                     |                    |                 |         |
|------|---------|-------------|-----|-------------|------------|-------------|---------------------|--------------------|---------------------|--------------------|-----------------|---------|
| Mode | TX Type | Freq. (MHz) | ANT | Freq. Range |            | Marker      |                     |                    |                     |                    | Limit (uW /MHz) | Verdict |
|      |         |             |     | Start (MHz) | Stop (MHz) | Freq. (MHz) | PK Power (dBm /MHz) | PK Power (uW /MHz) | AV Power (dBm /MHz) | AV Power (uW /MHz) |                 |         |
| FHSS | SISO    | 2410        | 1   | 30          | 2387       | 2378        | -38.37              | 0.146              | /                   | /                  | 2.5             | Pass    |
|      |         |             |     | 2387        | 2400       | 2398.492    | -35.12              | 0.308              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2483.5      | 2496.5     | 2493.744    | -41.78              | 0.066              | /                   | /                  | 25              | Pass    |

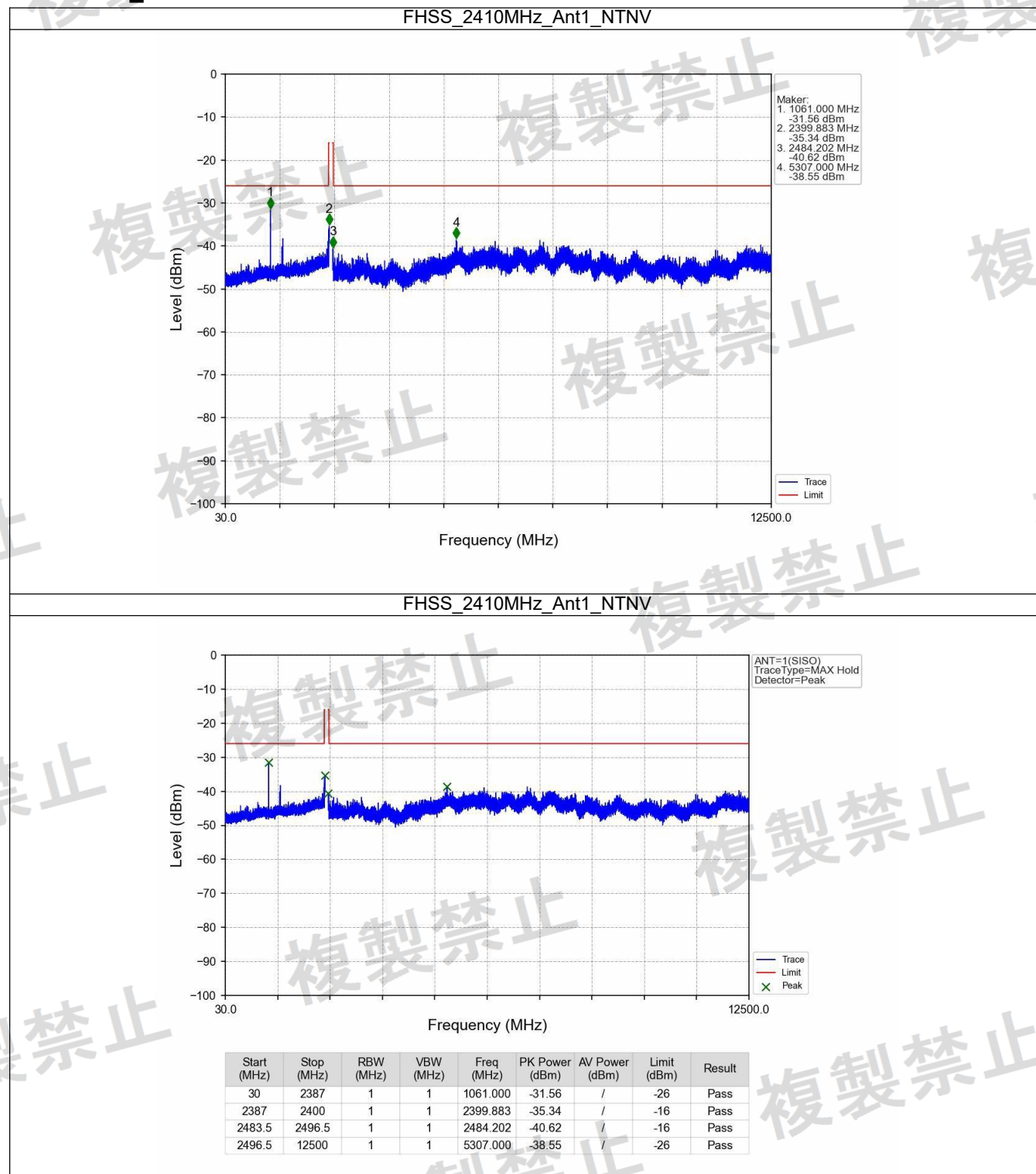


|  |  |      |   |        |        |          |        |       |   |   |     |      |
|--|--|------|---|--------|--------|----------|--------|-------|---|---|-----|------|
|  |  | 2442 | 1 | 2496.5 | 12500  | 5186.5   | -37.85 | 0.164 | / | / | 2.5 | Pass |
|  |  |      |   | 30     | 2387   | 2296.5   | -39.88 | 0.103 | / | / | 2.5 | Pass |
|  |  |      |   | 2387   | 2400   | 2393.76  | -42.02 | 0.063 | / | / | 25  | Pass |
|  |  |      |   | 2483.5 | 2496.5 | 2486.061 | -42.22 | 0.060 | / | / | 25  | Pass |
|  |  |      |   | 2496.5 | 12500  | 7754     | -39.14 | 0.122 | / | / | 2.5 | Pass |
|  |  | 2472 | 1 | 30     | 2387   | 2191     | -40.34 | 0.092 | / | / | 2.5 | Pass |
|  |  |      |   | 2387   | 2400   | 2387.637 | -41.80 | 0.066 | / | / | 25  | Pass |
|  |  |      |   | 2483.5 | 2496.5 | 2487.478 | -36.54 | 0.222 | / | / | 25  | Pass |
|  |  |      |   | 2496.5 | 12500  | 6732.5   | -38.11 | 0.155 | / | / | 2.5 | Pass |
|  |  |      |   |        |        |          |        |       |   |   |     |      |



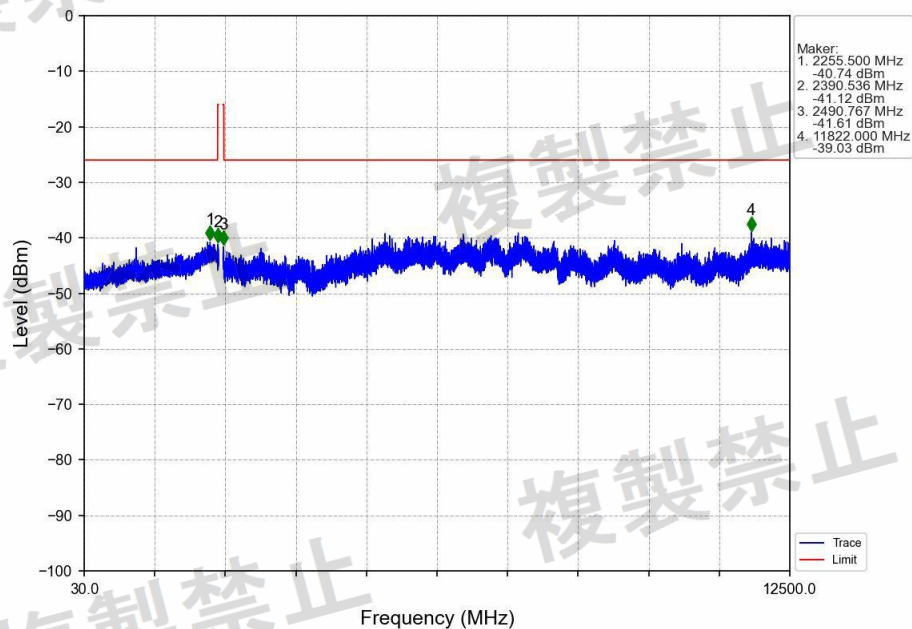
## 6.2 Test Graph

### 6.2.1 TxSe\_NTNV

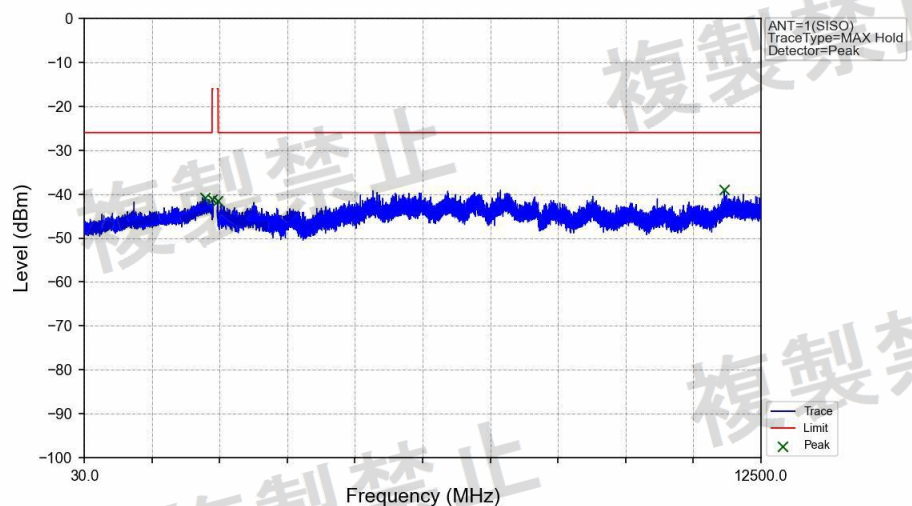




FHSS\_2442MHz\_Ant1\_NTNV



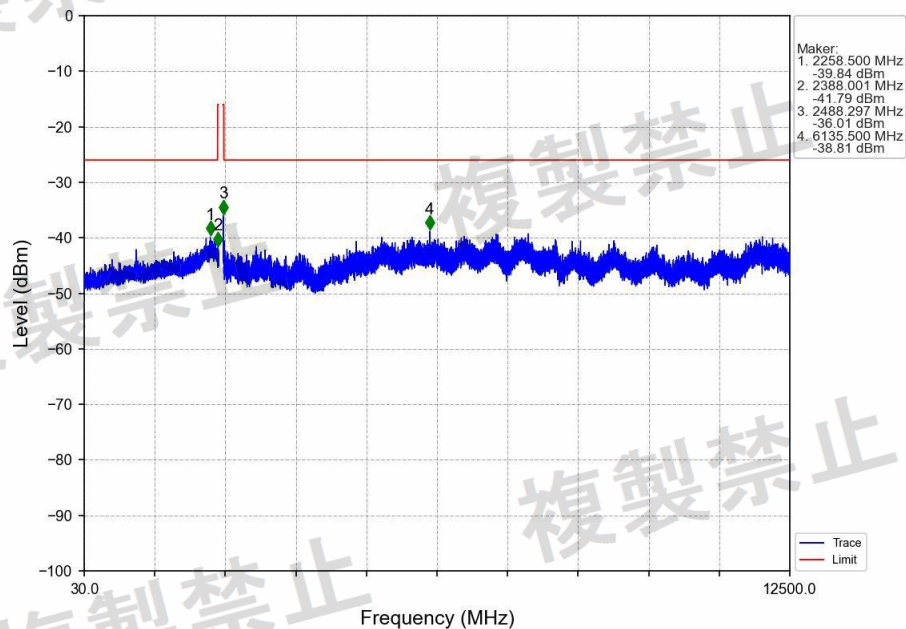
FHSS\_2442MHz\_Ant1\_NTNV



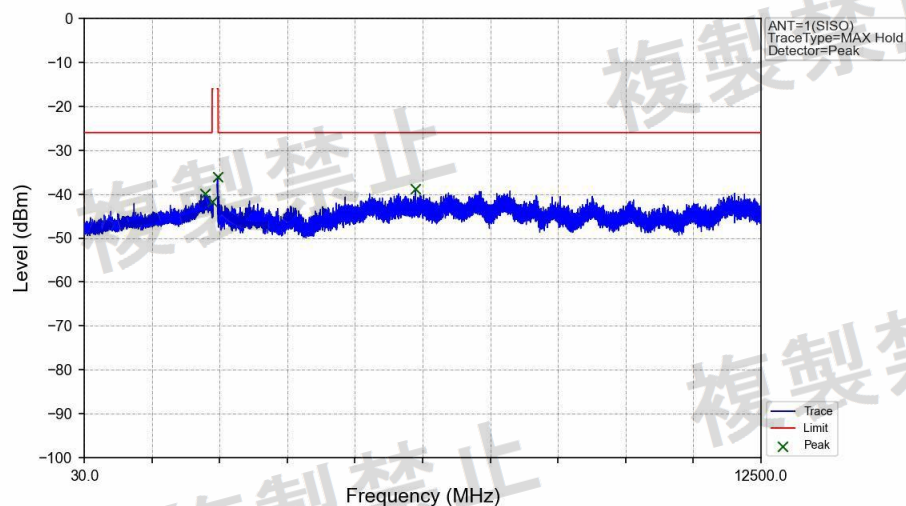
| Start (MHz) | Stop (MHz) | RBW (MHz) | VBW (MHz) | Freq (MHz) | PK Power (dBm) | AV Power (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|-----------|------------|----------------|----------------|-------------|--------|
| 30          | 2387       | 1         | 1         | 2255.500   | -40.74         | /              | -26         | Pass   |
| 2387        | 2400       | 1         | 1         | 2390.536   | -41.12         | /              | -16         | Pass   |
| 2483.5      | 2496.5     | 1         | 1         | 2490.767   | -41.61         | /              | -16         | Pass   |
| 2496.5      | 12500      | 1         | 1         | 11822.000  | -39.03         | /              | -26         | Pass   |



FHSS\_2472MHz\_Ant1\_NTNV



FHSS\_2472MHz\_Ant1\_NTNV

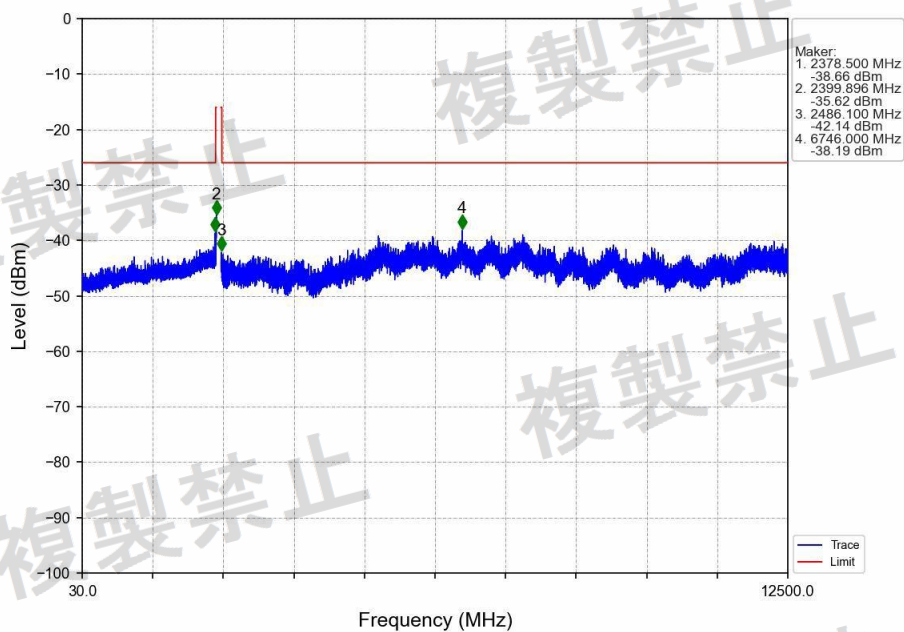


| Start (MHz) | Stop (MHz) | RBW (MHz) | VBW (MHz) | Freq (MHz) | PK Power (dBm) | AV Power (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|-----------|------------|----------------|----------------|-------------|--------|
| 30          | 2387       | 1         | 1         | 2258.500   | -39.84         | /              | -26         | Pass   |
| 2387        | 2400       | 1         | 1         | 2388.001   | -41.79         | /              | -16         | Pass   |
| 2483.5      | 2496.5     | 1         | 1         | 2488.297   | -36.01         | /              | -16         | Pass   |
| 2496.5      | 12500      | 1         | 1         | 6135.500   | -38.81         | /              | -26         | Pass   |

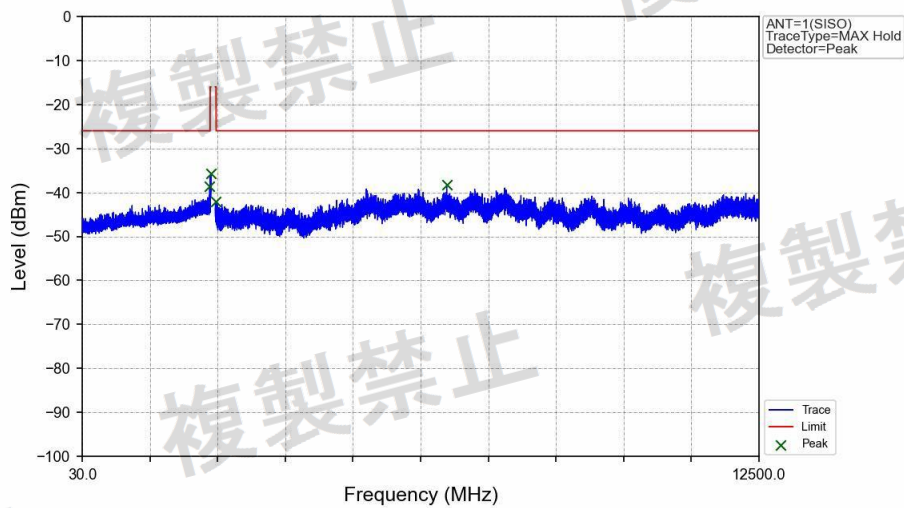


## 6.2.2 TxSe\_NTLV

FHSS\_2410MHz\_Ant1\_NTLV



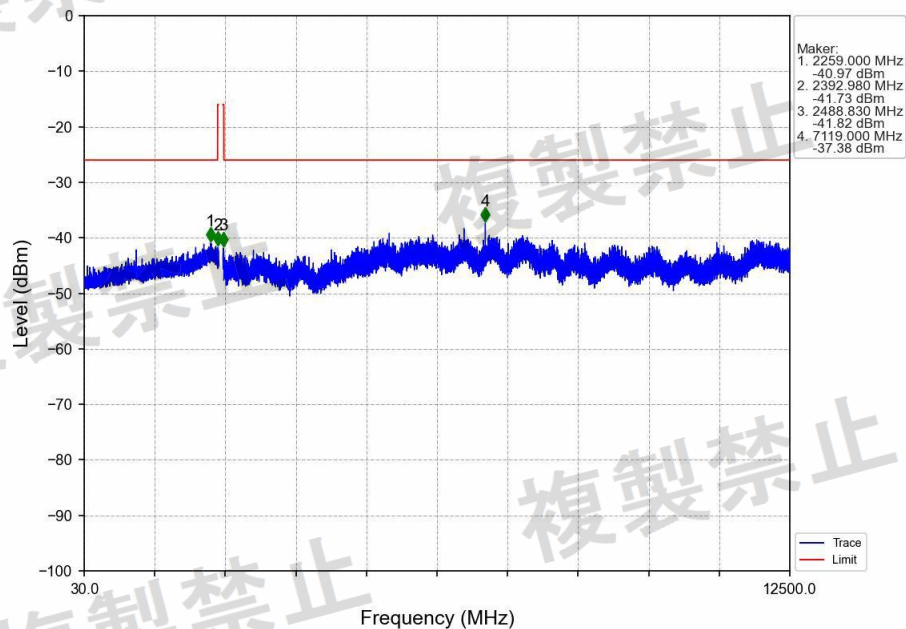
FHSS\_2410MHz\_Ant1\_NTLV



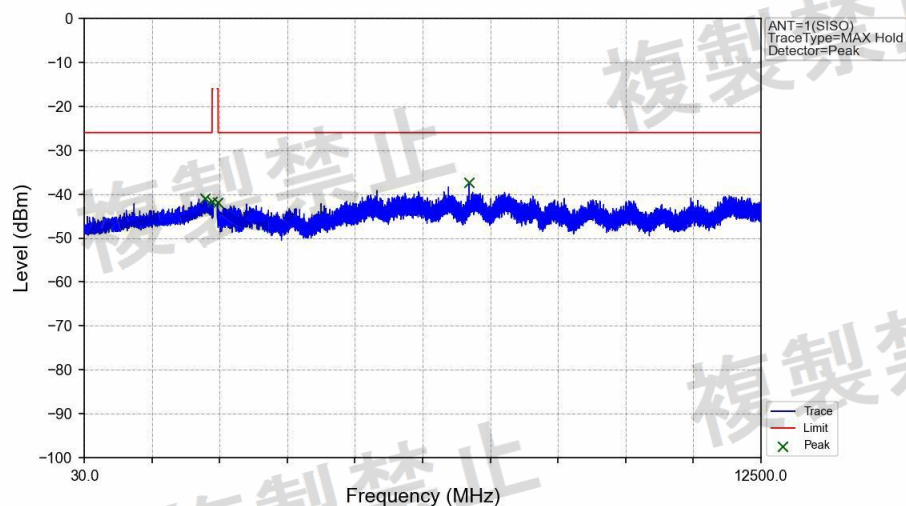
| Start (MHz) | Stop (MHz) | RBW (MHz) | VBW (MHz) | Freq (MHz) | PK Power (dBm) | AV Power (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|-----------|------------|----------------|----------------|-------------|--------|
| 30          | 2387       | 1         | 1         | 2378.500   | -38.66         | /              | -26         | Pass   |
| 2387        | 2400       | 1         | 1         | 2399.896   | -35.62         | /              | -16         | Pass   |
| 2483.5      | 2496.5     | 1         | 1         | 2486.100   | -42.14         | /              | -16         | Pass   |
| 2496.5      | 12500      | 1         | 1         | 6746.000   | -38.19         | /              | -26         | Pass   |



FHSS\_2442MHz\_Ant1\_NTLV



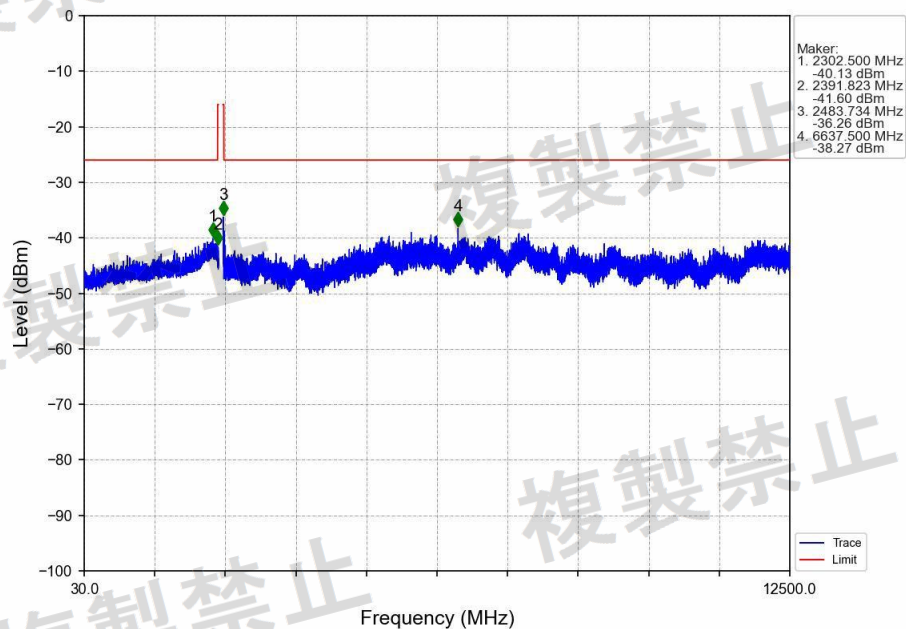
FHSS\_2442MHz\_Ant1\_NTLV



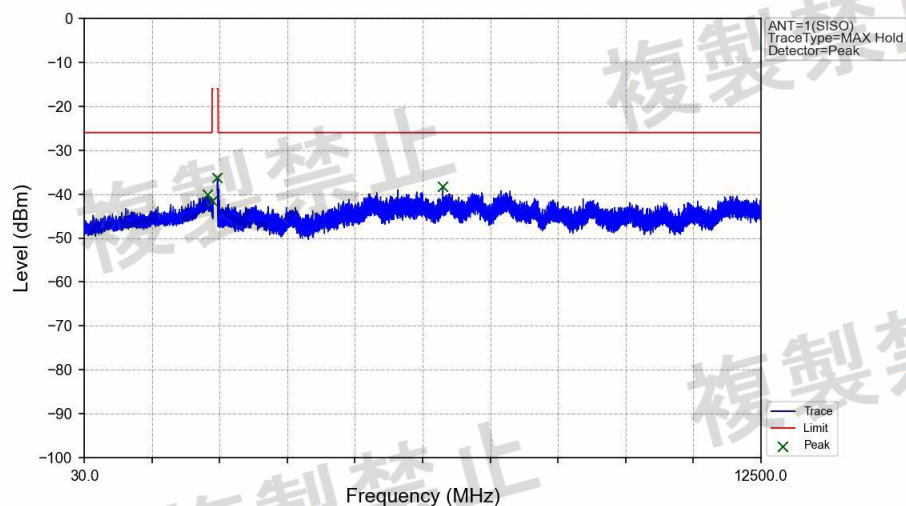
| Start (MHz) | Stop (MHz) | RBW (MHz) | VBW (MHz) | Freq (MHz) | PK Power (dBm) | AV Power (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|-----------|------------|----------------|----------------|-------------|--------|
| 30          | 2387       | 1         | 1         | 2259.000   | -40.97         | /              | -26         | Pass   |
| 2387        | 2400       | 1         | 1         | 2392.980   | -41.73         | /              | -16         | Pass   |
| 2483.5      | 2496.5     | 1         | 1         | 2488.830   | -41.82         | /              | -16         | Pass   |
| 2496.5      | 12500      | 1         | 1         | 7119.000   | -37.38         | /              | -26         | Pass   |



FHSS\_2472MHz\_Ant1\_NTLV



FHSS\_2472MHz\_Ant1\_NTLV

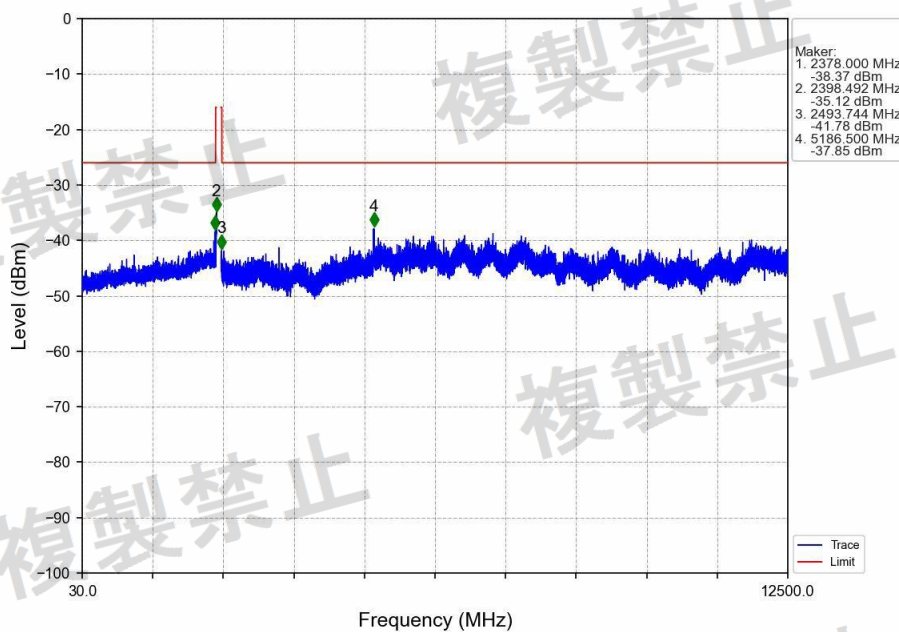


| Start (MHz) | Stop (MHz) | RBW (MHz) | VBW (MHz) | Freq (MHz) | PK Power (dBm) | AV Power (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|-----------|------------|----------------|----------------|-------------|--------|
| 30          | 2387       | 1         | 1         | 2302.500   | -40.13         | /              | -26         | Pass   |
| 2387        | 2400       | 1         | 1         | 2391.823   | -41.60         | /              | -16         | Pass   |
| 2483.5      | 2496.5     | 1         | 1         | 2483.734   | -36.26         | /              | -16         | Pass   |
| 2496.5      | 12500      | 1         | 1         | 6637.500   | -38.27         | /              | -26         | Pass   |

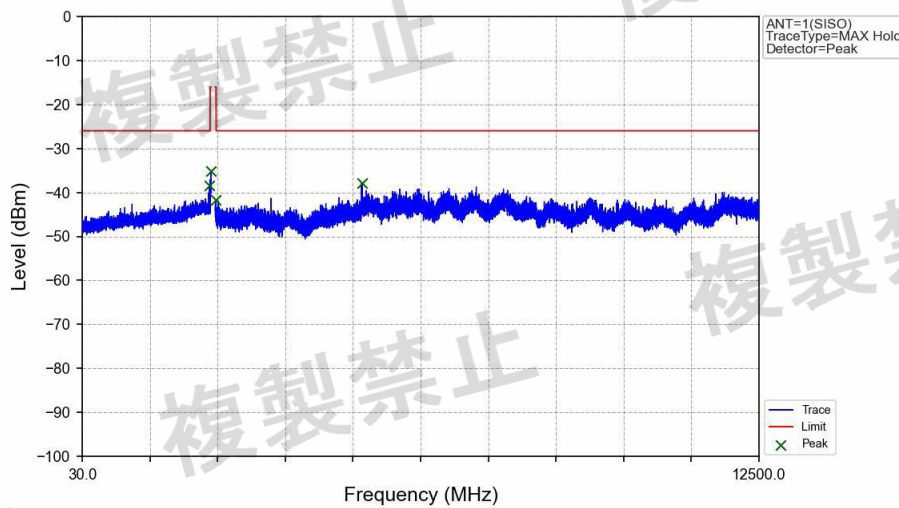


### 6.2.3 TxSe\_NTHV

FHSS\_2410MHz\_Ant1\_NTHV



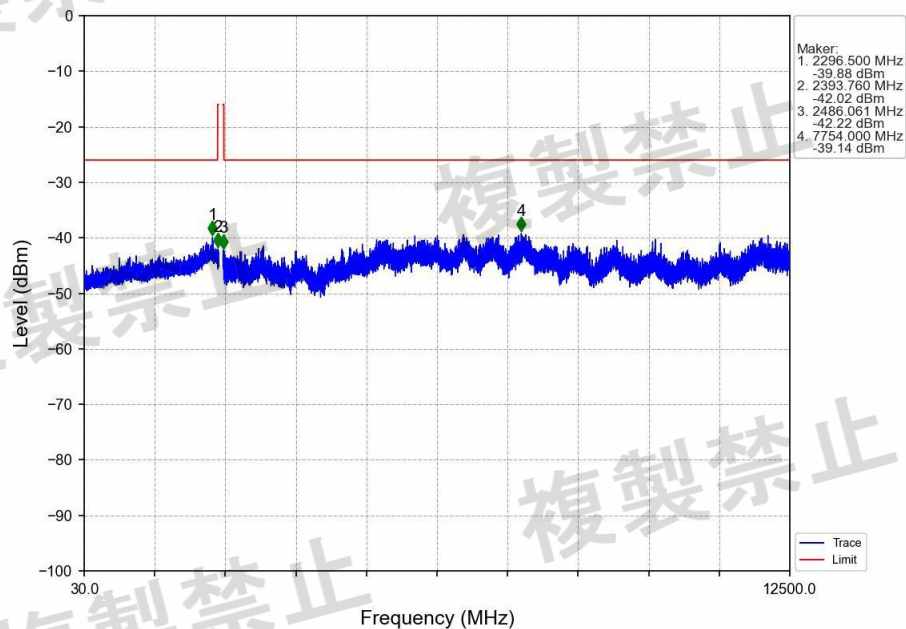
FHSS\_2410MHz\_Ant1\_NTHV



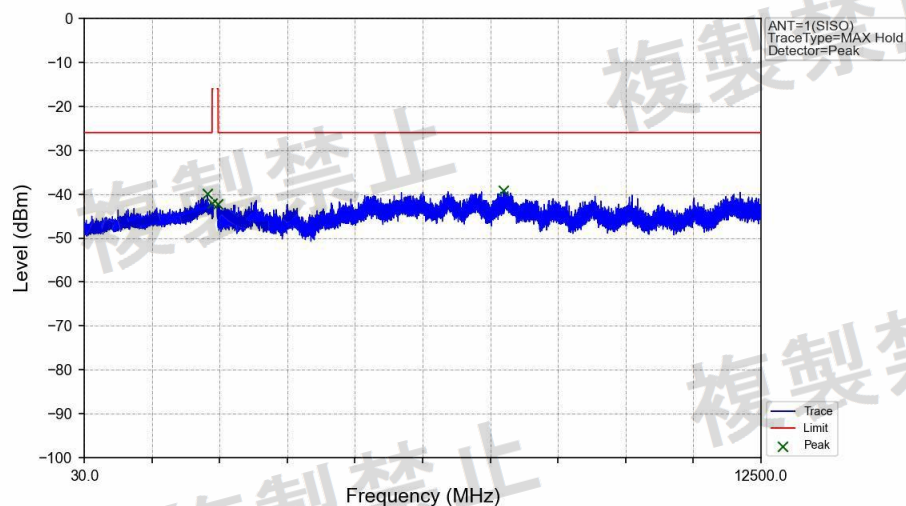
| Start (MHz) | Stop (MHz) | RBW (MHz) | VBW (MHz) | Freq (MHz) | PK Power (dBm) | AV Power (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|-----------|------------|----------------|----------------|-------------|--------|
| 30          | 2387       | 1         | 1         | 2378.000   | -38.37         | /              | -26         | Pass   |
| 2387        | 2400       | 1         | 1         | 2398.492   | -35.12         | /              | -16         | Pass   |
| 2483.5      | 2496.5     | 1         | 1         | 2493.744   | -41.78         | /              | -16         | Pass   |
| 2496.5      | 12500      | 1         | 1         | 5186.500   | -37.85         | /              | -26         | Pass   |



FHSS\_2442MHz\_Ant1\_NTHV



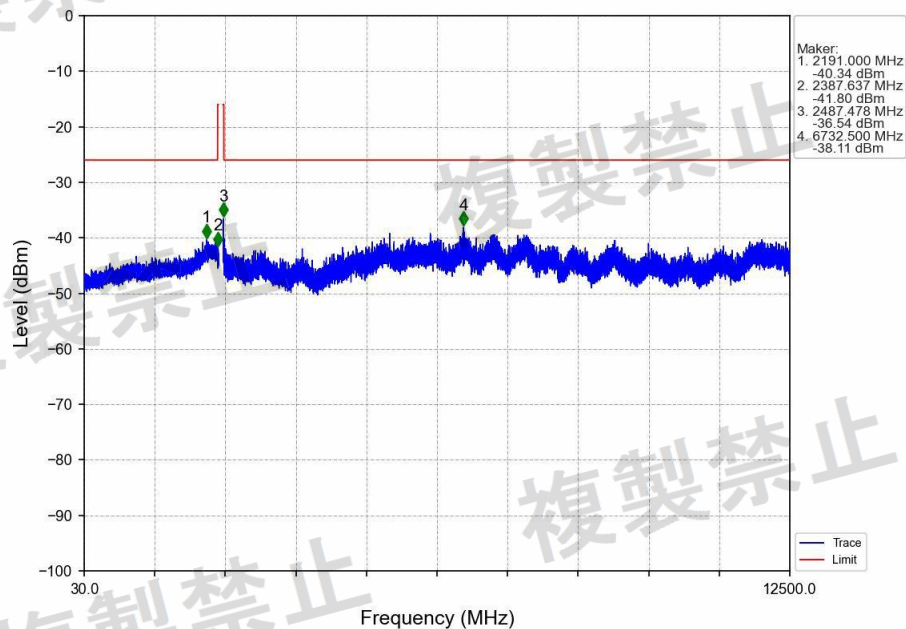
FHSS\_2442MHz\_Ant1\_NTHV



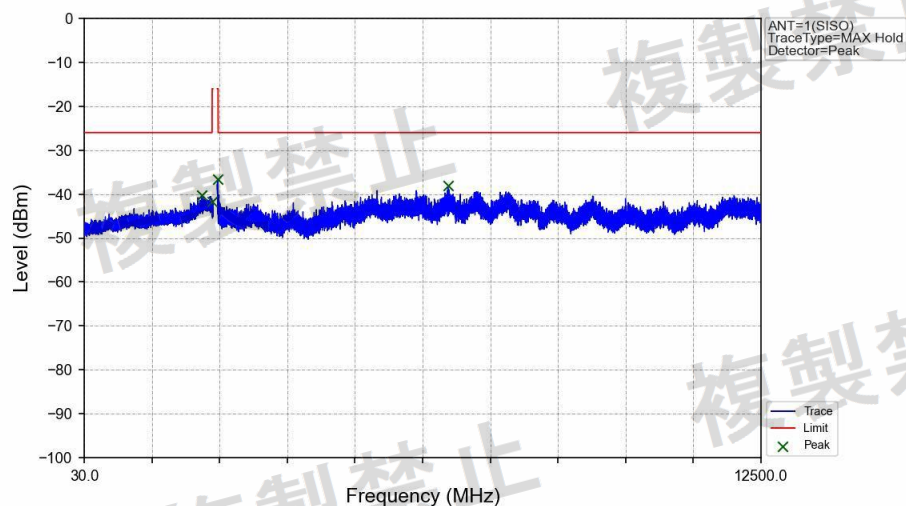
| Start (MHz) | Stop (MHz) | RBW (MHz) | VBW (MHz) | Freq (MHz) | PK Power (dBm) | AV Power (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|-----------|------------|----------------|----------------|-------------|--------|
| 30          | 2387       | 1         | 1         | 2296.500   | -39.88         | /              | -26         | Pass   |
| 2387        | 2400       | 1         | 1         | 2393.760   | -42.02         | /              | -16         | Pass   |
| 2483.5      | 2496.5     | 1         | 1         | 2486.061   | -42.22         | /              | -16         | Pass   |
| 2496.5      | 12500      | 1         | 1         | 7754.000   | -39.14         | /              | -26         | Pass   |



FHSS\_2472MHz\_Ant1\_NTHV



FHSS\_2472MHz\_Ant1\_NTHV



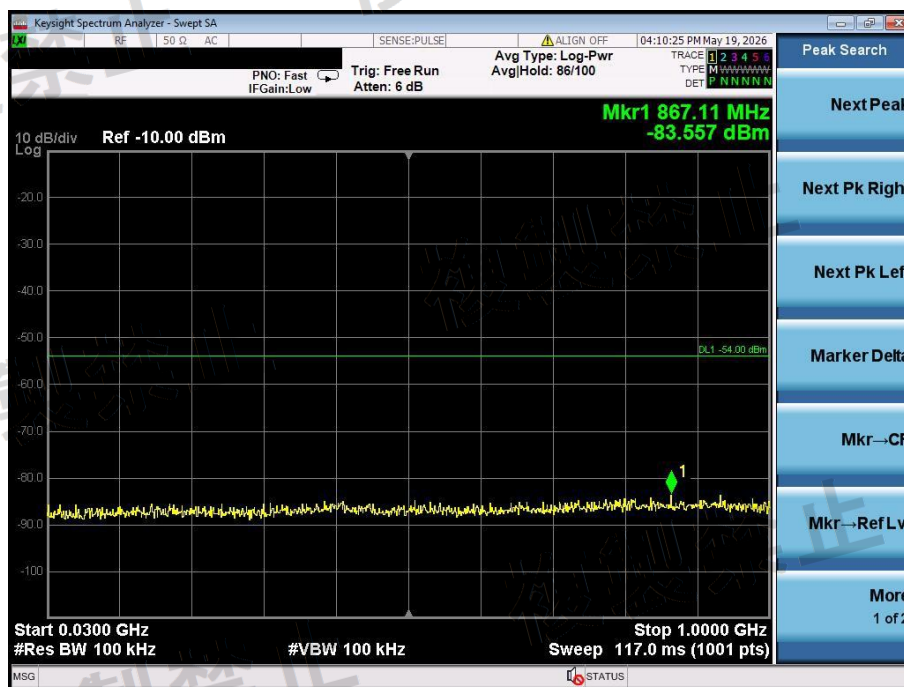
| Start (MHz) | Stop (MHz) | RBW (MHz) | VBW (MHz) | Freq (MHz) | PK Power (dBm) | AV Power (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|-----------|------------|----------------|----------------|-------------|--------|
| 30          | 2387       | 1         | 1         | 2191.000   | -40.34         | /              | -26         | Pass   |
| 2387        | 2400       | 1         | 1         | 2387.637   | -41.80         | /              | -16         | Pass   |
| 2483.5      | 2496.5     | 1         | 1         | 2487.478   | -36.54         | /              | -16         | Pass   |
| 2496.5      | 12500      | 1         | 1         | 6732.500   | -38.11         | /              | -26         | Pass   |

## 7 Receiver Spurious Emissions (Rx Spurious)

| Rx Channel | Spurious Measurement Range | Measured Value (dBm) | Limit (dBm) | Verdict |
|------------|----------------------------|----------------------|-------------|---------|
| 2472MHz    | 1G-26G                     | -55.629              | -47         | Pass    |
| 2472MHz    | 30M-1G                     | -83.557              | -54         | Pass    |
| 2410MHz    | 1G-26G                     | -55.817              | -47         | Pass    |
| 2410MHz    | 30M-1G                     | -83.409              | -54         | Pass    |
| 2442MHz    | 1G-26G                     | -55.841              | -47         | Pass    |
| 2442MHz    | 30M-1G                     | -83.609              | -54         | Pass    |



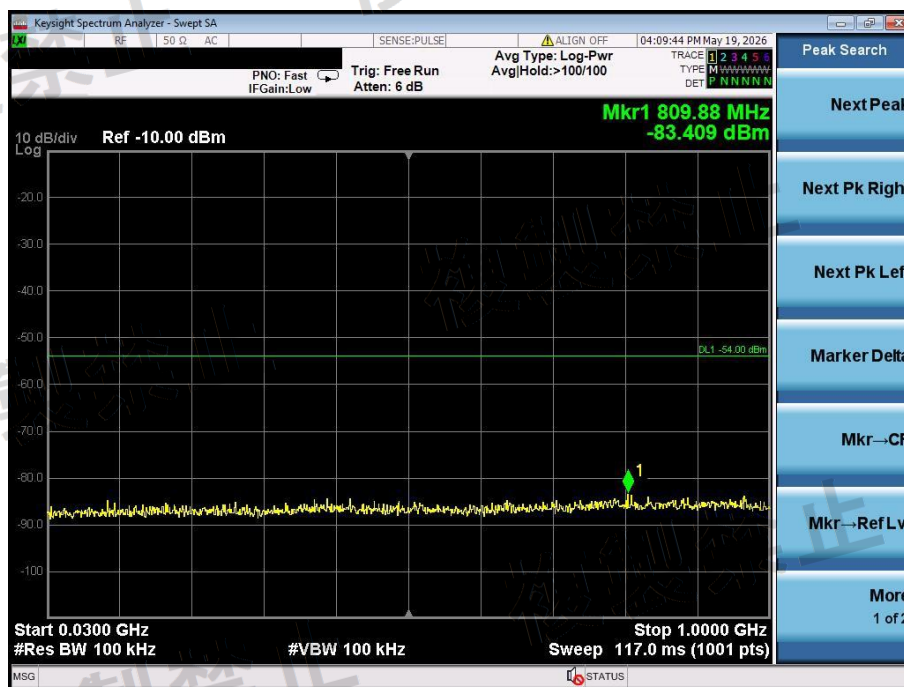
1-26G( 2472MHz)



30M-1G ( 2472MHz)



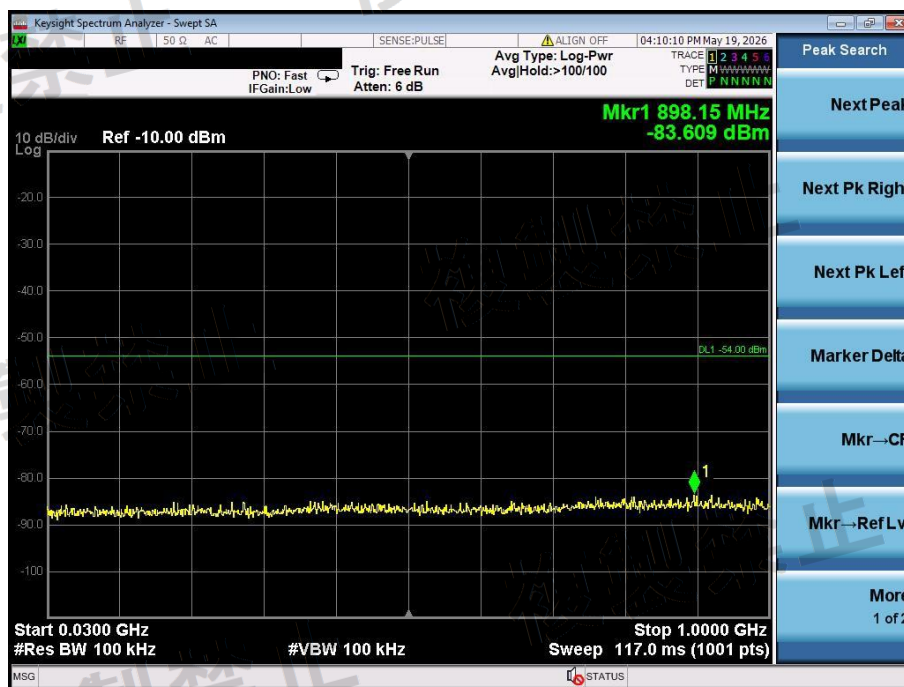
1G -26G( 2410MHz)



30M-1G ( 2410MHz)



1G-26G ( 2442MHz)



30M-1G ( 2442MHz)