



## Appendix B

### RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: 6 inch Wi-Fi/BLE Recessed Down Light with Back Light

Test Model: LJD006SMG2WH

#### Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 23.1° C    |
| Relative Humidity: | 52.3%      |
| ATM Pressure:      | 100.0 kPa  |
| Test Engineer:     | Paddi Chen |
| Supervised by:     | Nick Peng  |



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: [webmaster@lcs-cert.com](mailto:webmaster@lcs-cert.com) | Web: [www.lcs-cert.com](http://www.lcs-cert.com)

Scan code to check authenticity



## B.1 DTS Bandwidth

### Test Result

| TestMode  | Antenna | Freq(MHz) | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|-----------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412      | 9.000        | 2407.520 | 2416.520 | 0.5        | PASS    |
|           |         | 2437      | 9.080        | 2432.440 | 2441.520 | 0.5        | PASS    |
|           |         | 2462      | 10.040       | 2456.960 | 2467.000 | 0.5        | PASS    |
| 11G       | Ant1    | 2412      | 16.320       | 2403.840 | 2420.160 | 0.5        | PASS    |
|           |         | 2437      | 16.360       | 2428.800 | 2445.160 | 0.5        | PASS    |
|           |         | 2462      | 16.360       | 2453.800 | 2470.160 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412      | 17.600       | 2403.200 | 2420.800 | 0.5        | PASS    |
|           |         | 2437      | 17.600       | 2428.200 | 2445.800 | 0.5        | PASS    |
|           |         | 2462      | 17.560       | 2453.200 | 2470.760 | 0.5        | PASS    |
| 11N40SISO | Ant1    | 2422      | 36.080       | 2404.080 | 2440.160 | 0.5        | PASS    |
|           |         | 2437      | 35.760       | 2419.080 | 2454.840 | 0.5        | PASS    |
|           |         | 2452      | 35.680       | 2434.240 | 2469.920 | 0.5        | PASS    |



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

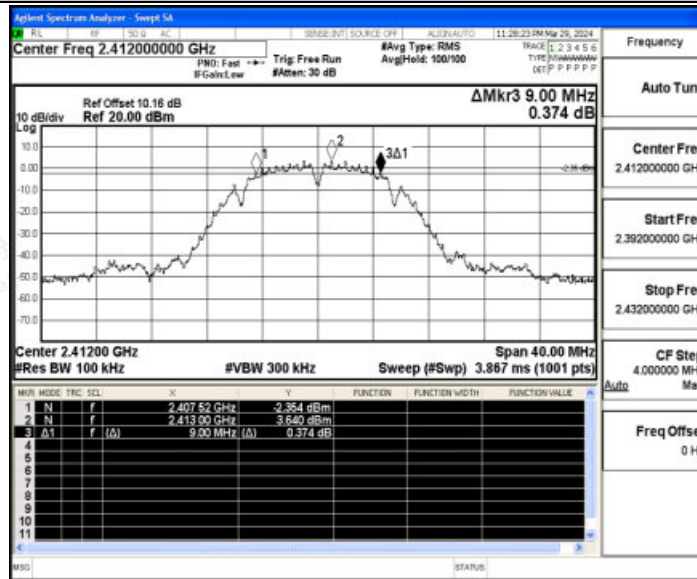
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

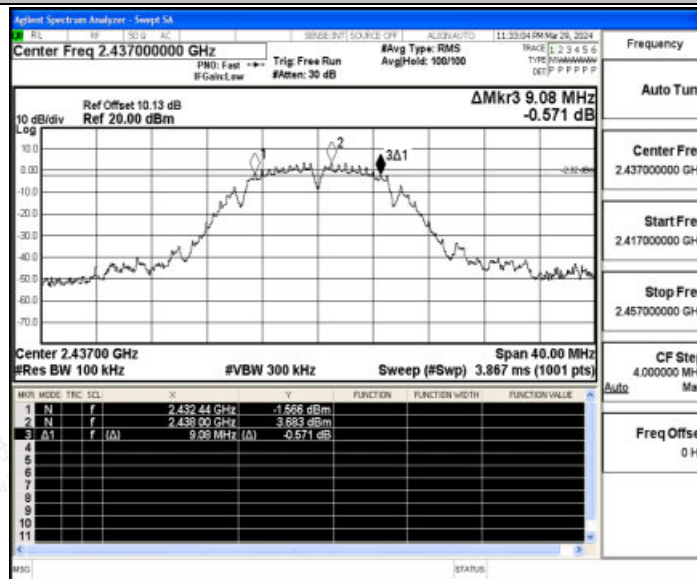


## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

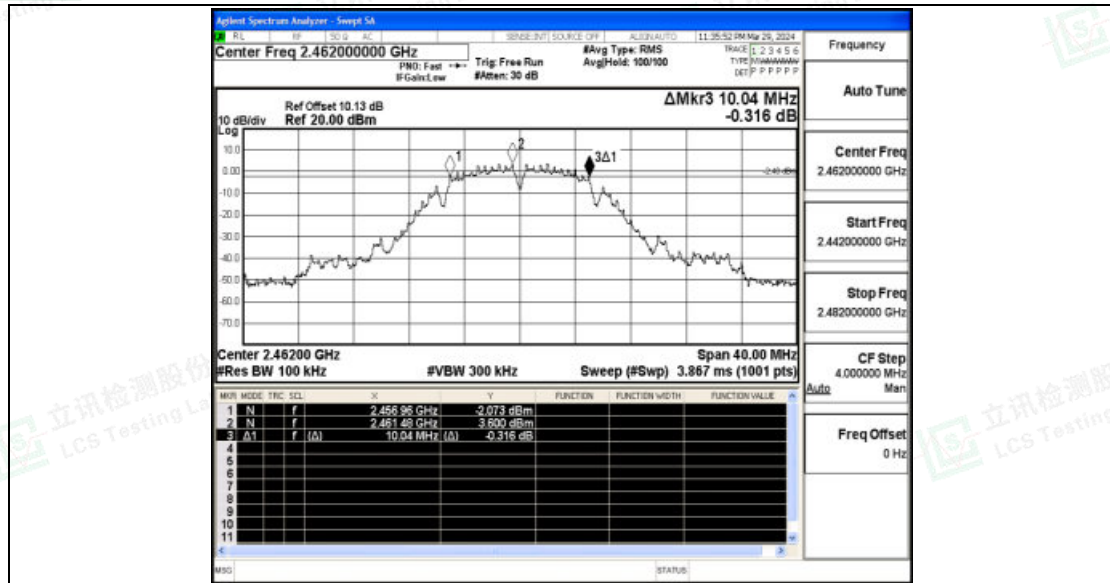


Shenzhen LCS Compliance Testing Laboratory Ltd.

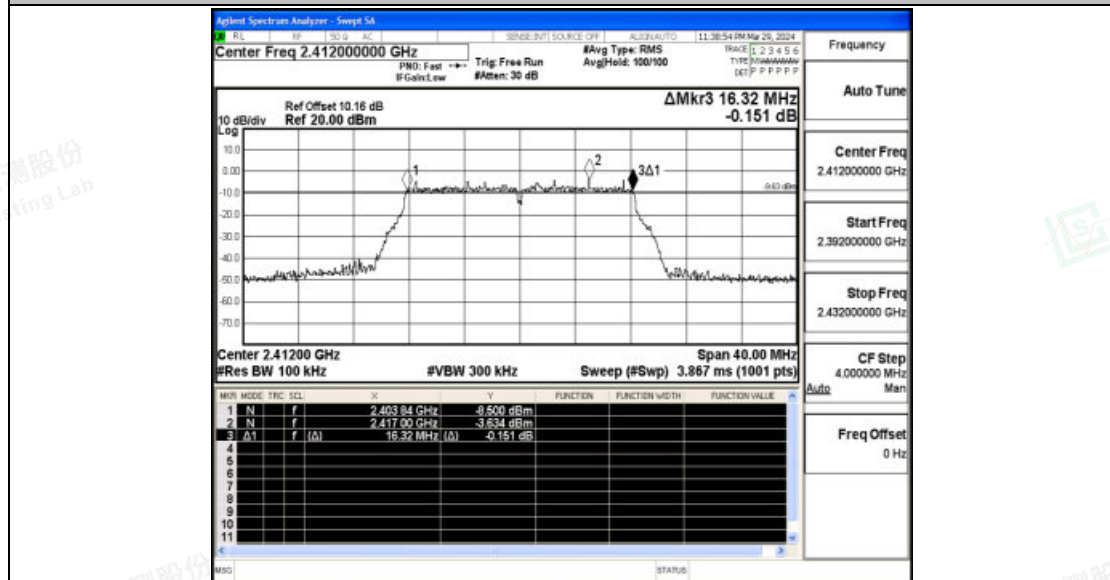
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11G\_Ant1\_2412



11G\_Ant1\_2437

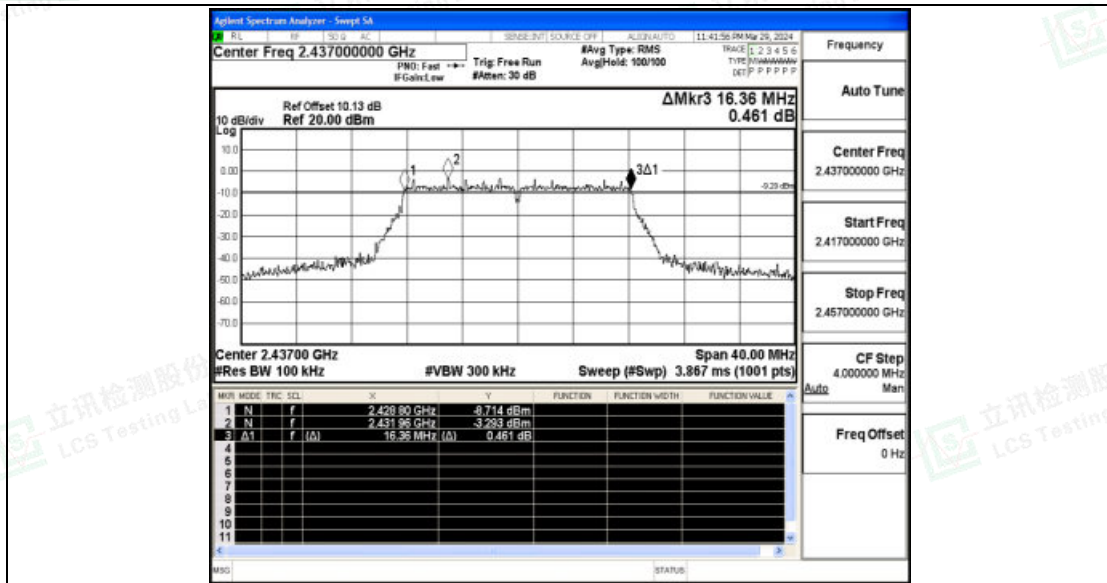


Shenzhen LCS Compliance Testing Laboratory Ltd.

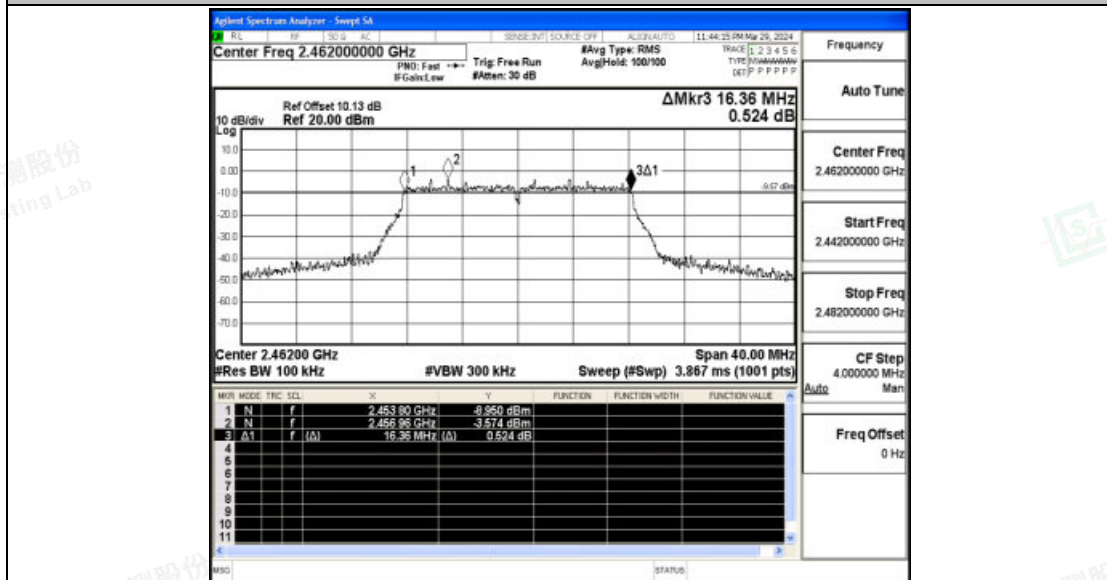
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11G\_Ant1\_2462



11N20SISO\_Ant1\_2412

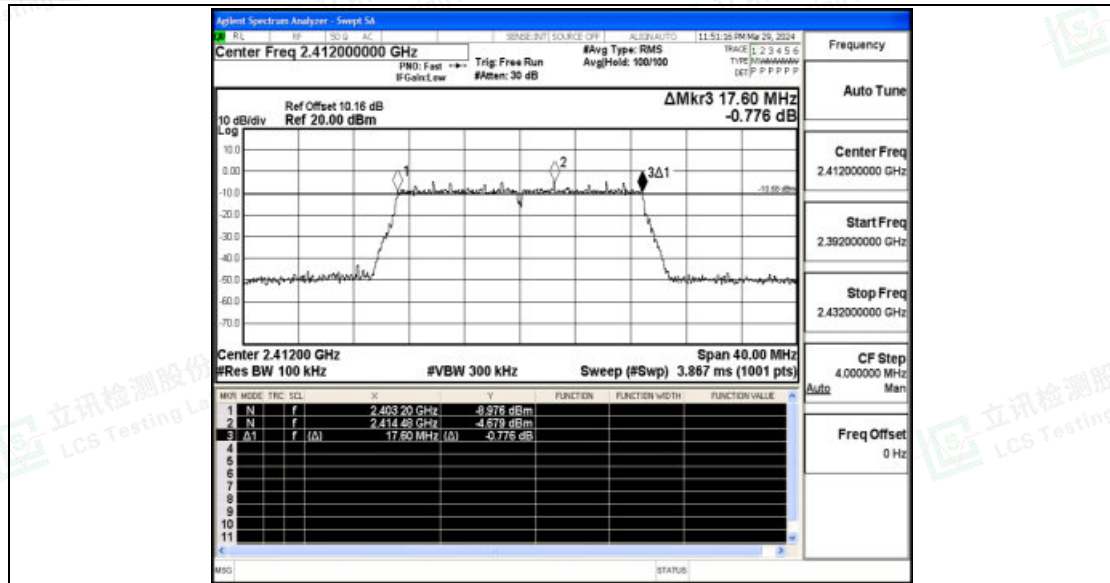


Shenzhen LCS Compliance Testing Laboratory Ltd.

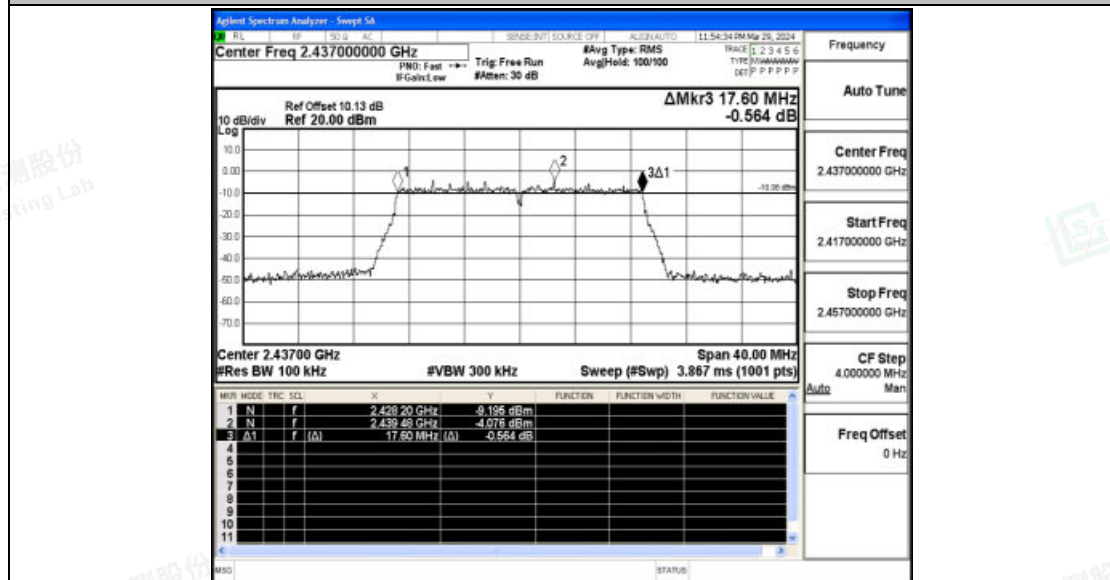
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462

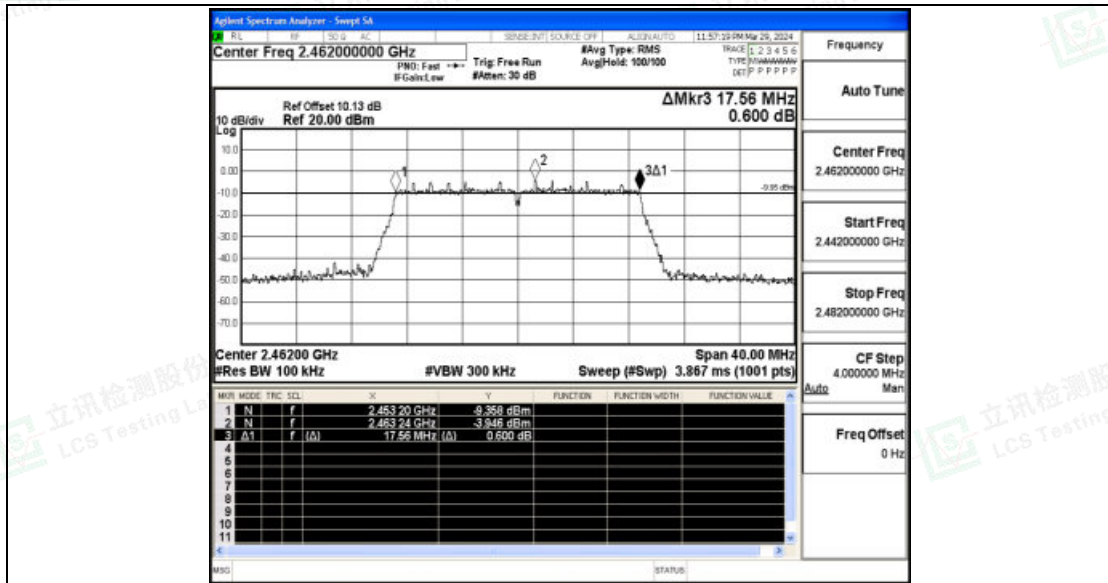


Shenzhen LCS Compliance Testing Laboratory Ltd.

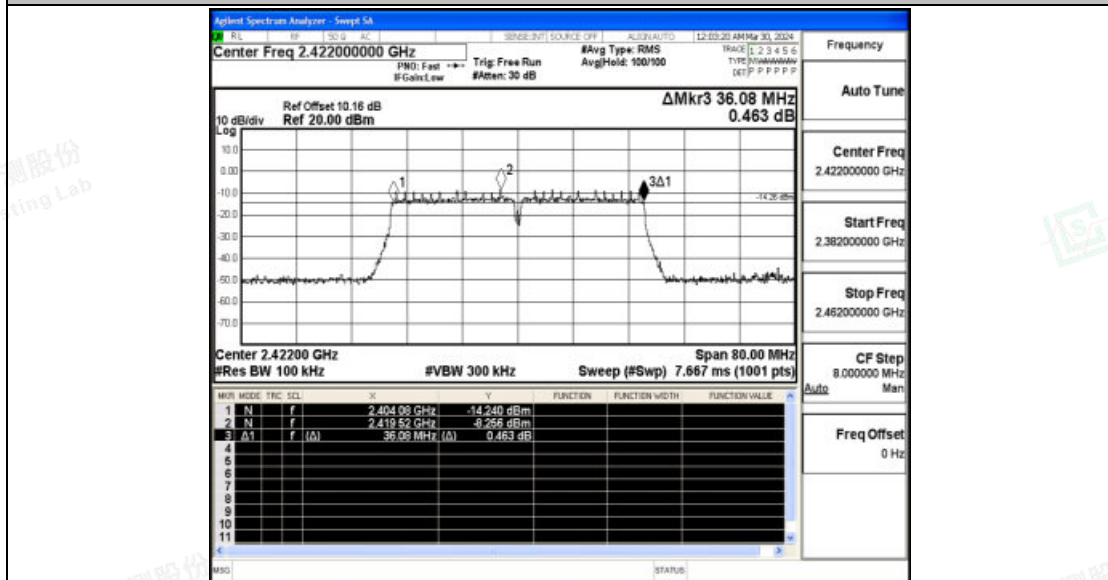
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437

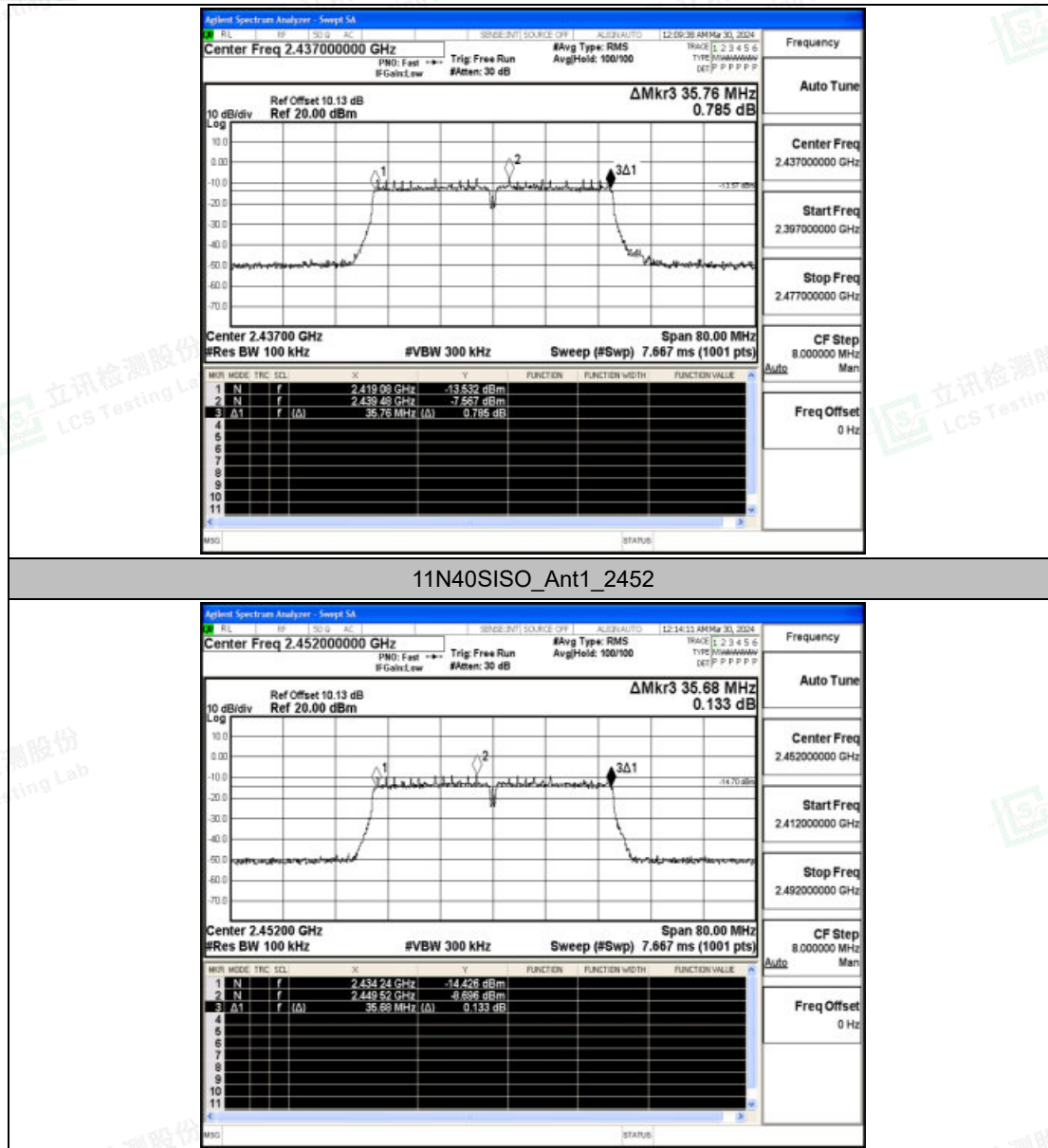


Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



## B.2 Maximum conducted output power

### Test Result Peak

| TestMode  | Antenna | Freq(MHz) | Set Power | Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------|-----------|-----------------|----------------------|---------|
| 11B       | Ant1    | 2412      | ---       | 15.20           | ≤30.00               | PASS    |
|           |         | 2437      | ---       | 15.27           | ≤30.00               | PASS    |
|           |         | 2462      | ---       | 15.59           | ≤30.00               | PASS    |
| 11G       | Ant1    | 2412      | ---       | 14.10           | ≤30.00               | PASS    |
|           |         | 2437      | ---       | 14.61           | ≤30.00               | PASS    |
|           |         | 2462      | ---       | 14.34           | ≤30.00               | PASS    |
| 11N20SISO | Ant1    | 2412      | ---       | 13.27           | ≤30.00               | PASS    |
|           |         | 2437      | ---       | 13.94           | ≤30.00               | PASS    |
|           |         | 2462      | ---       | 13.53           | ≤30.00               | PASS    |
| 11N40SISO | Ant1    | 2422      | ---       | 12.09           | ≤30.00               | PASS    |
|           |         | 2437      | ---       | 12.78           | ≤30.00               | PASS    |
|           |         | 2452      | ---       | 11.66           | ≤30.00               | PASS    |



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



### B.3 Maximum power spectral density

#### Test Result

| TestMode  | Antenna | Freq(MHz) | Result<br>[dBm/3-100kHz] | Limit<br>[dBm/3kHz] | Gain<br>[dBi] | EIRP<br>[dBm/3-100kHz] | Limit<br>[dBm/3kHz] | Verdict |
|-----------|---------|-----------|--------------------------|---------------------|---------------|------------------------|---------------------|---------|
| 11B       | Ant1    | 2412      | -9.53                    | ≤8.00               | 0.00          | -9.53                  | ---                 | PASS    |
|           |         | 2437      | -9.49                    | ≤8.00               | 0.00          | -9.49                  | ---                 | PASS    |
|           |         | 2462      | -9.30                    | ≤8.00               | 0.00          | -9.30                  | ---                 | PASS    |
| 11G       | Ant1    | 2412      | -17.75                   | ≤8.00               | 0.00          | -17.75                 | ---                 | PASS    |
|           |         | 2437      | -16.85                   | ≤8.00               | 0.00          | -16.85                 | ---                 | PASS    |
|           |         | 2462      | -17.44                   | ≤8.00               | 0.00          | -17.44                 | ---                 | PASS    |
| 11N20SISO | Ant1    | 2412      | -17.74                   | ≤8.00               | 0.00          | -17.74                 | ---                 | PASS    |
|           |         | 2437      | -17.16                   | ≤8.00               | 0.00          | -17.16                 | ---                 | PASS    |
|           |         | 2462      | -18.18                   | ≤8.00               | 0.00          | -18.18                 | ---                 | PASS    |
| 11N40SISO | Ant1    | 2422      | -21.85                   | ≤8.00               | 0.00          | -21.85                 | ---                 | PASS    |
|           |         | 2437      | -21.21                   | ≤8.00               | 0.00          | -21.21                 | ---                 | PASS    |
|           |         | 2452      | -19.26                   | ≤8.00               | 0.00          | -19.26                 | ---                 | PASS    |



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

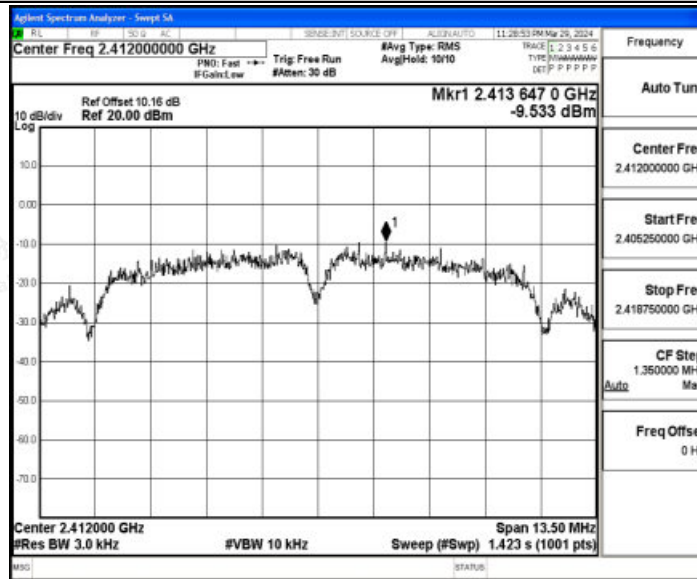
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

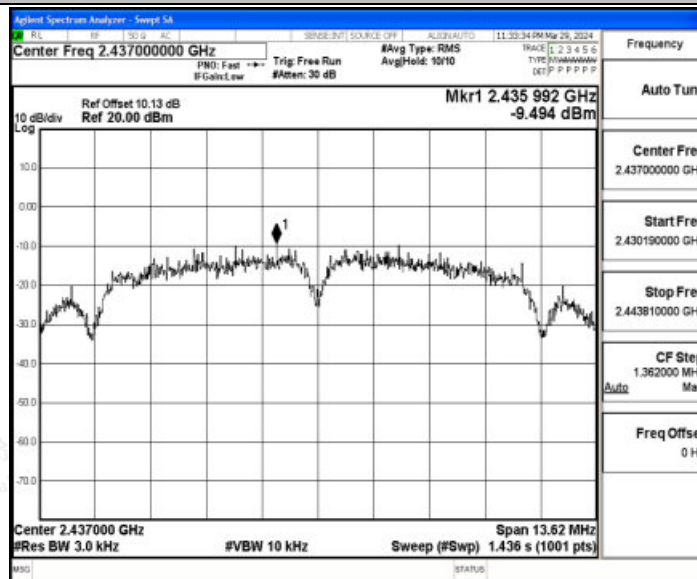


## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

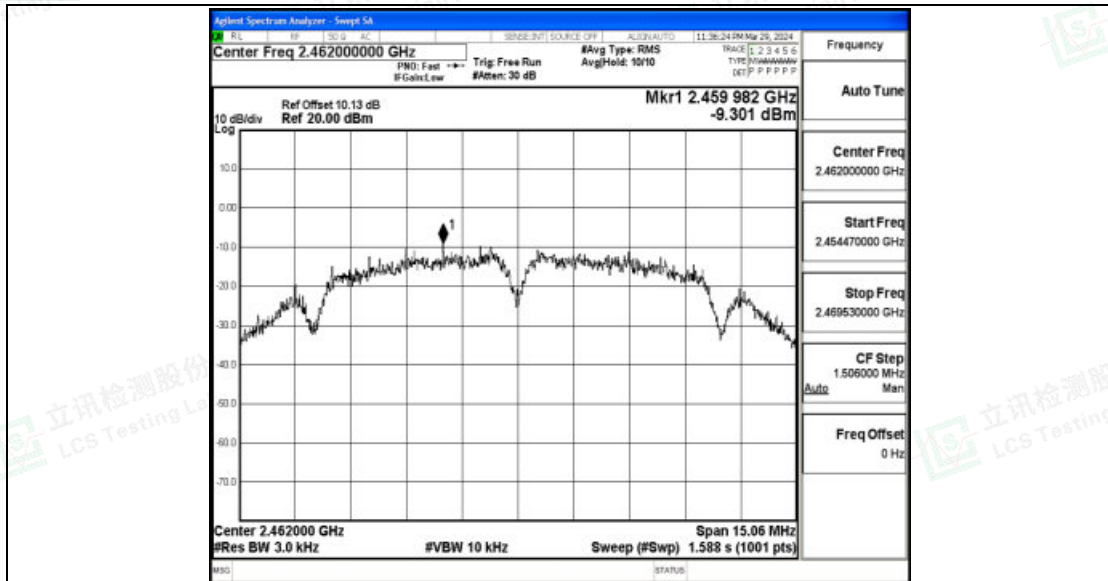


Shenzhen LCS Compliance Testing Laboratory Ltd.

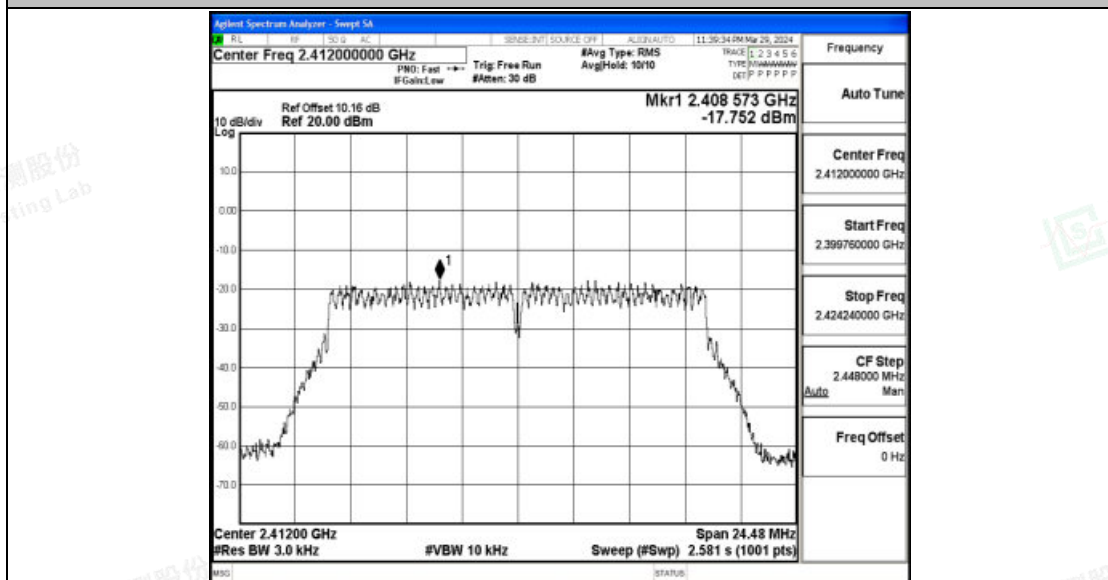
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11G\_Ant1\_2412



11G\_Ant1\_2437

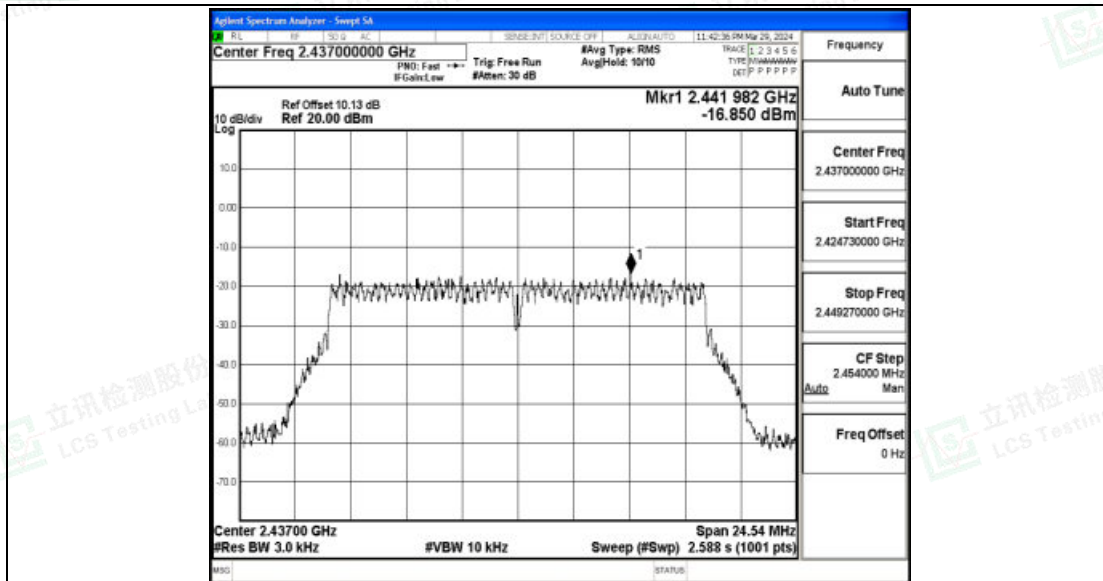


Shenzhen LCS Compliance Testing Laboratory Ltd.

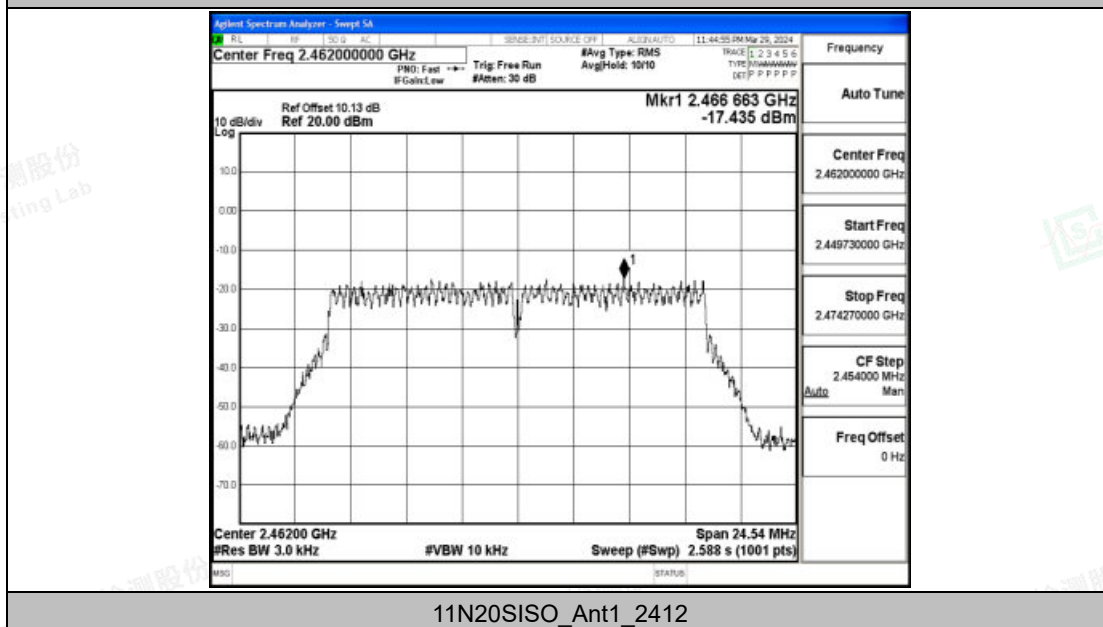
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11G\_Ant1\_2462



11N20SISO\_Ant1\_2412

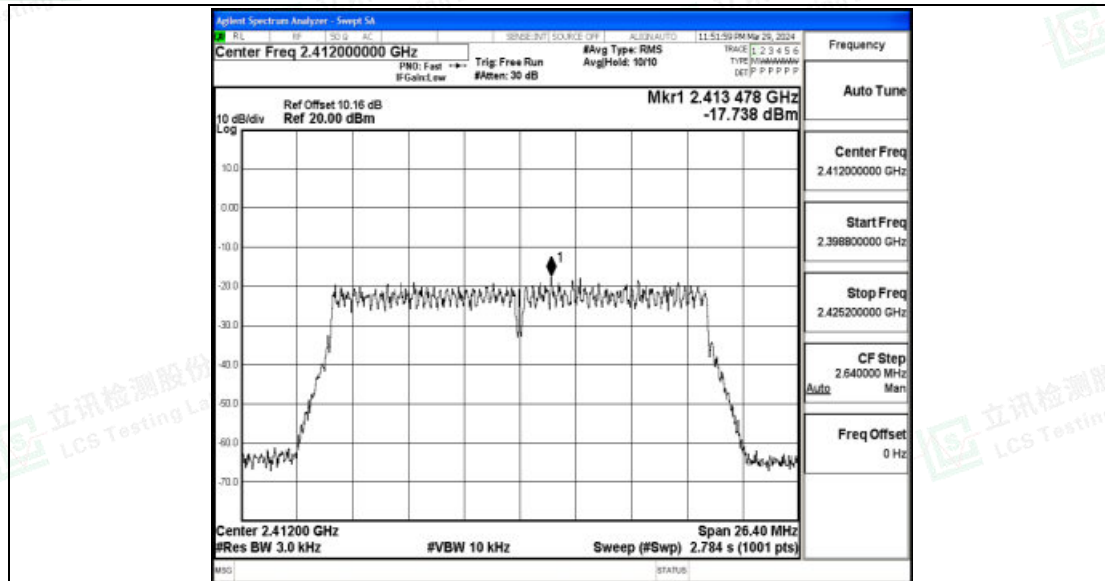


Shenzhen LCS Compliance Testing Laboratory Ltd.

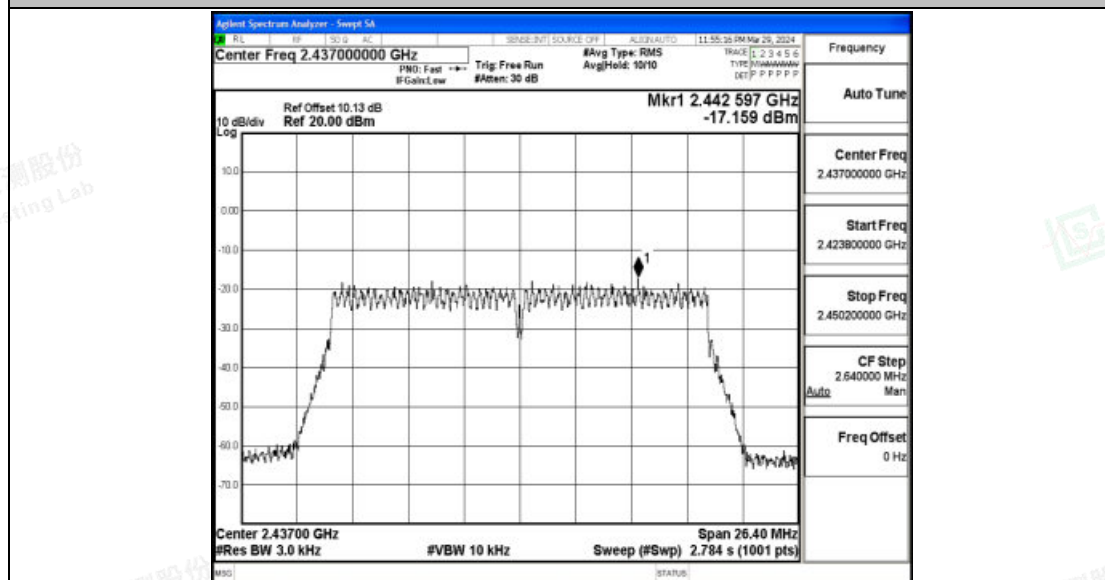
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462

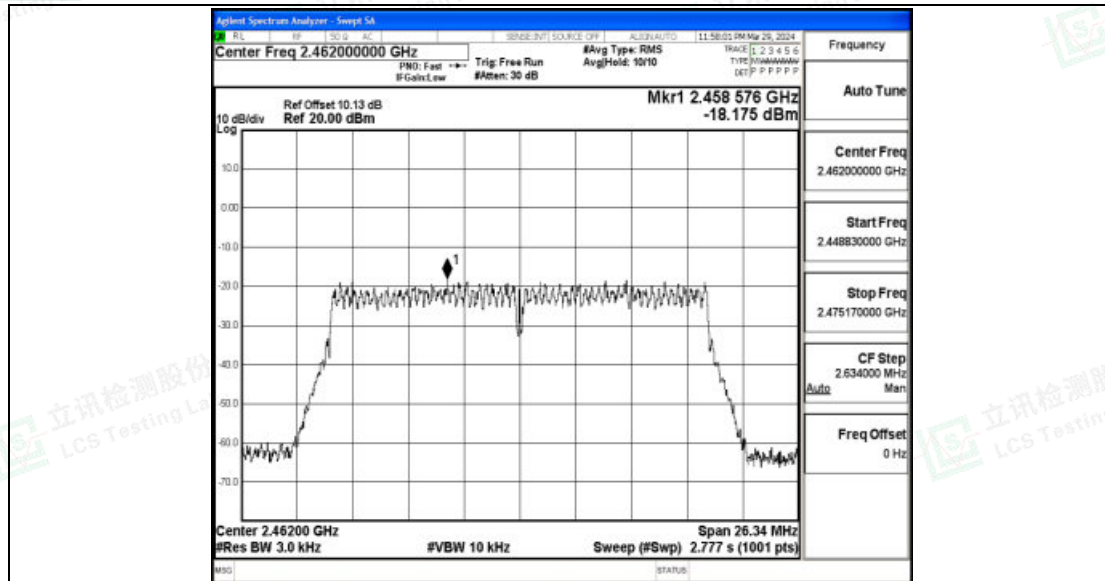


Shenzhen LCS Compliance Testing Laboratory Ltd.

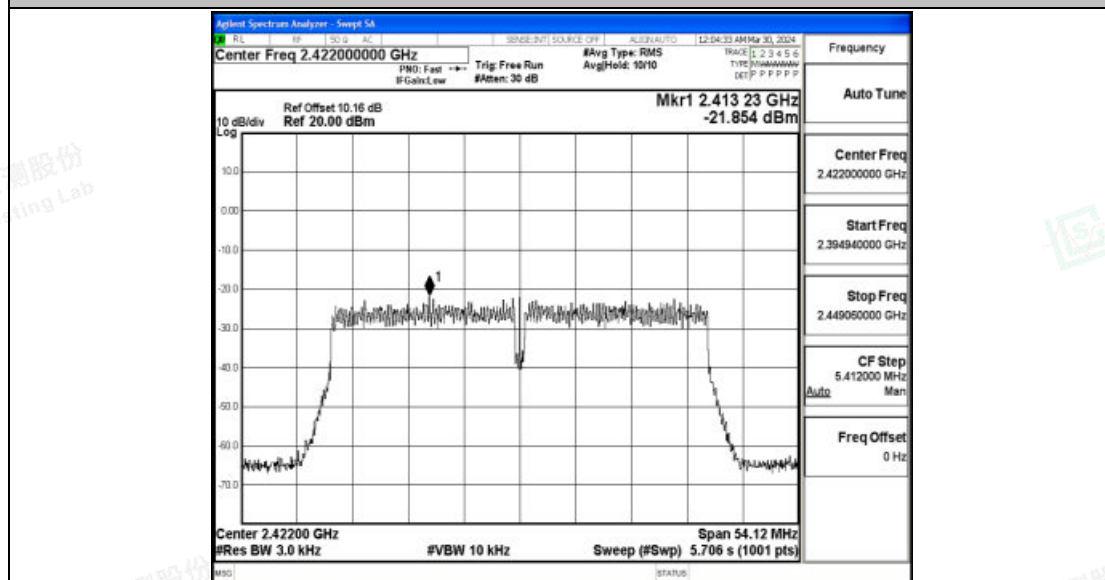
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437

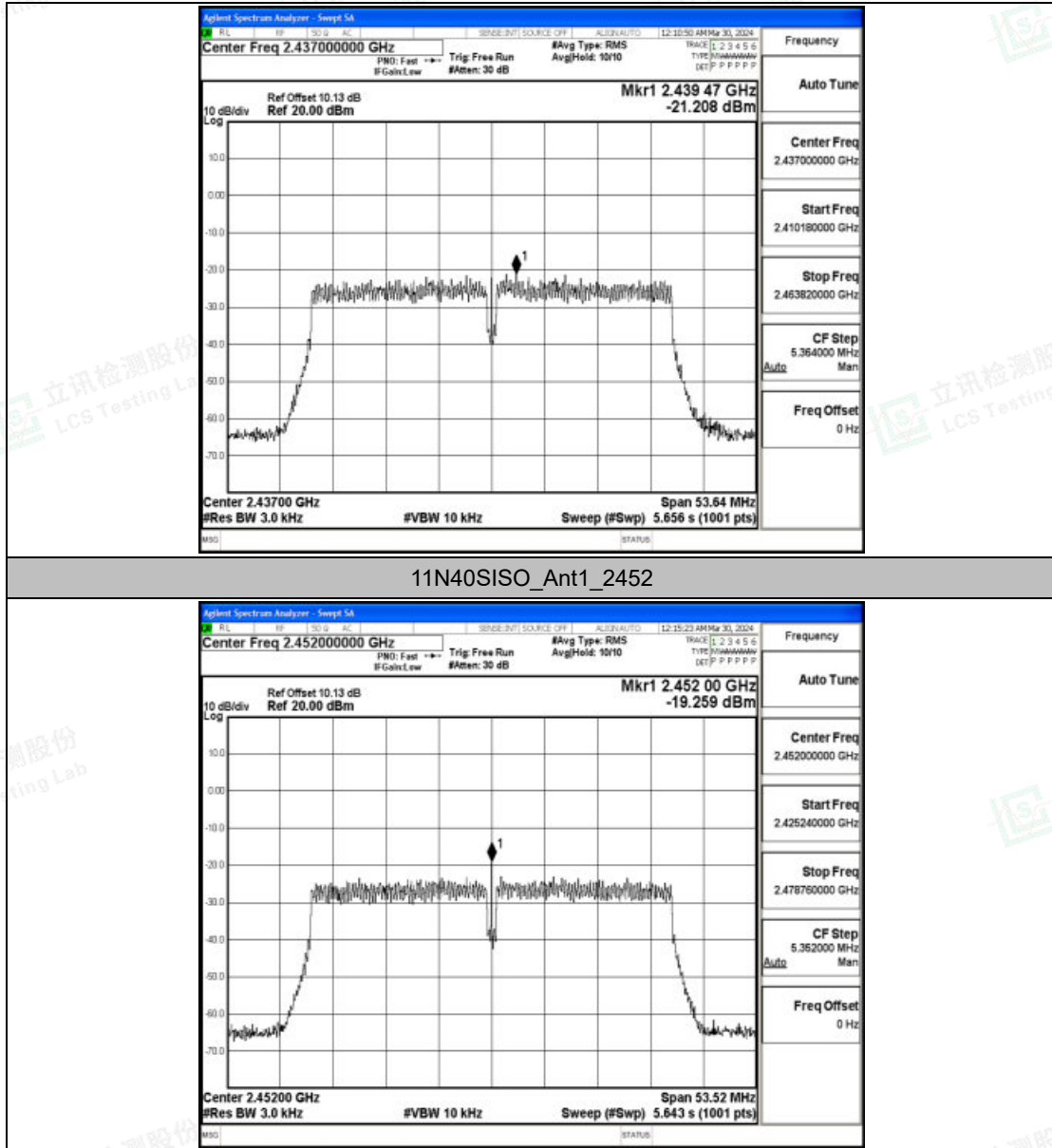


Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



## B.4 Band edge measurements

### Test Result

| TestMode  | Antenna | Channel Name | Freq(MHz) | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------------|-----------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low          | 2412      | 2.82          | -42.88      | ≤-17.18    | PASS    |
|           |         | High         | 2462      | 3.94          | -47.96      | ≤-16.06    | PASS    |
| 11G       | Ant1    | Low          | 2412      | -3.87         | -42.75      | ≤-23.87    | PASS    |
|           |         | High         | 2462      | -3.18         | -46.92      | ≤-23.18    | PASS    |
| 11N20SISO | Ant1    | Low          | 2412      | -4.39         | -47.36      | ≤-24.39    | PASS    |
|           |         | High         | 2462      | -4.72         | -47.84      | ≤-24.72    | PASS    |
| 11N40SISO | Ant1    | Low          | 2422      | -8.22         | -47.69      | ≤-28.22    | PASS    |
|           |         | High         | 2452      | -8.77         | -47.7       | ≤-28.77    | PASS    |



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

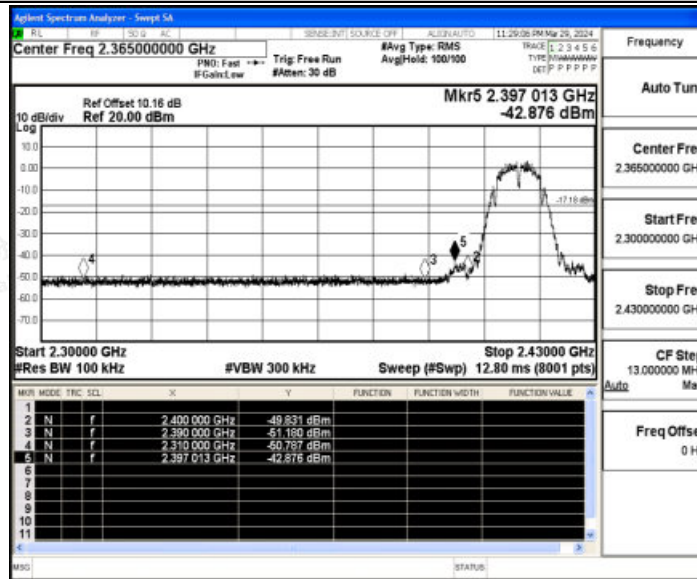
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

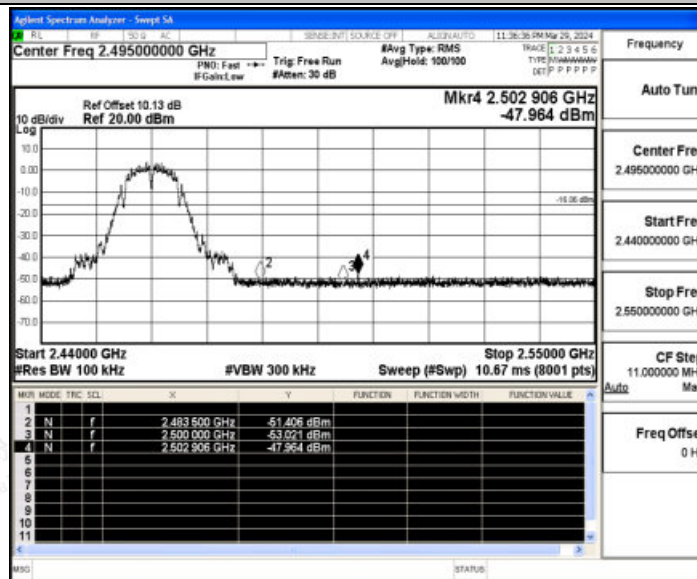


## Test Graphs

11B\_Ant1\_Low\_2412



11B\_Ant1\_High\_2462



11G\_Ant1\_Low\_2412

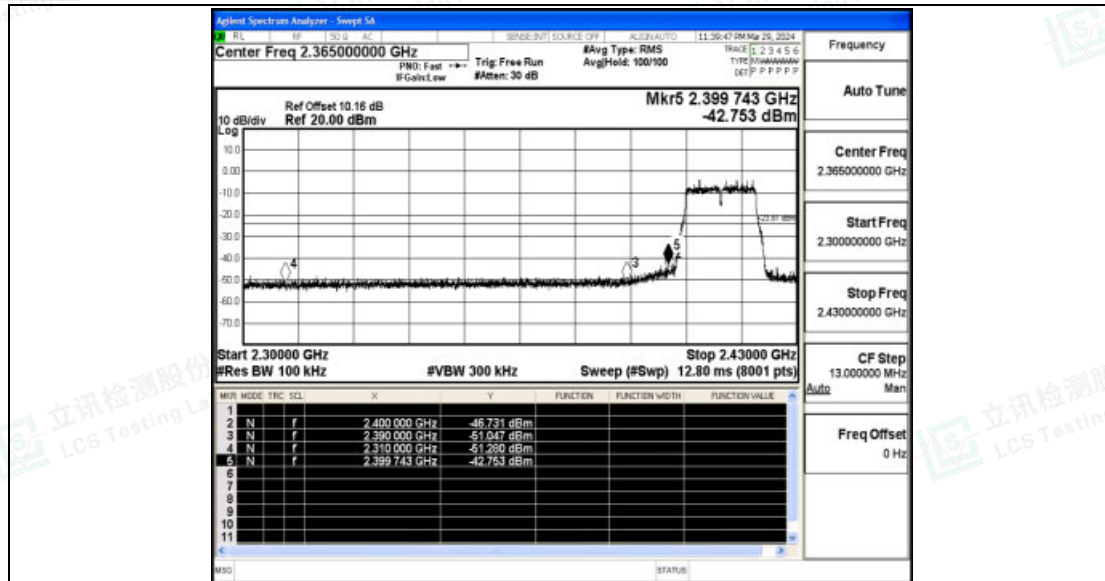


Shenzhen LCS Compliance Testing Laboratory Ltd.

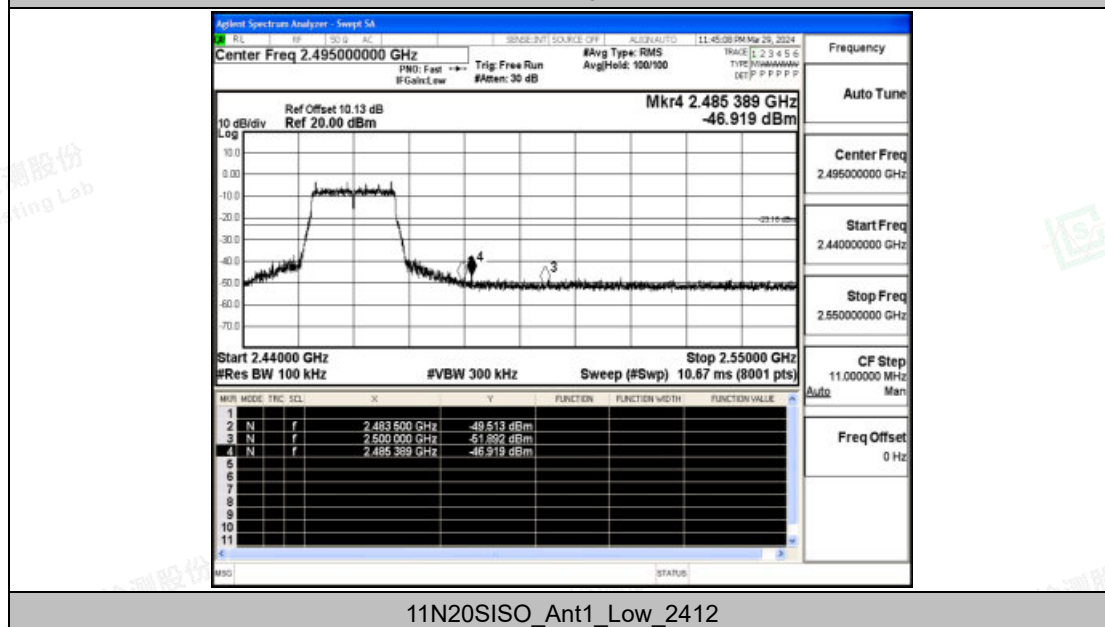
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11G\_Ant1\_High\_2462



11N20SISO\_Ant1\_Low\_2412

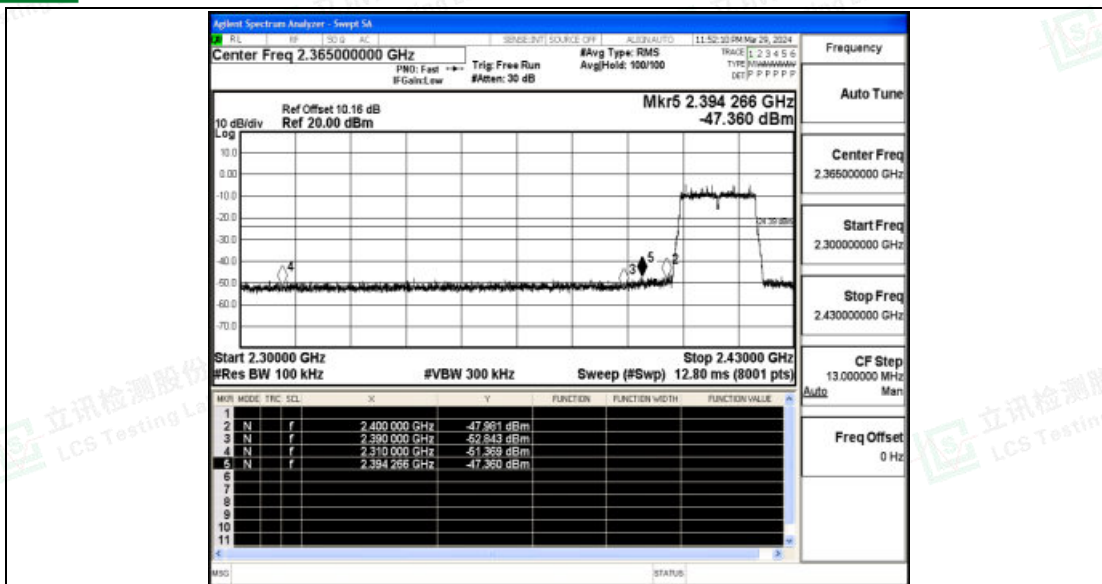


Shenzhen LCS Compliance Testing Laboratory Ltd.

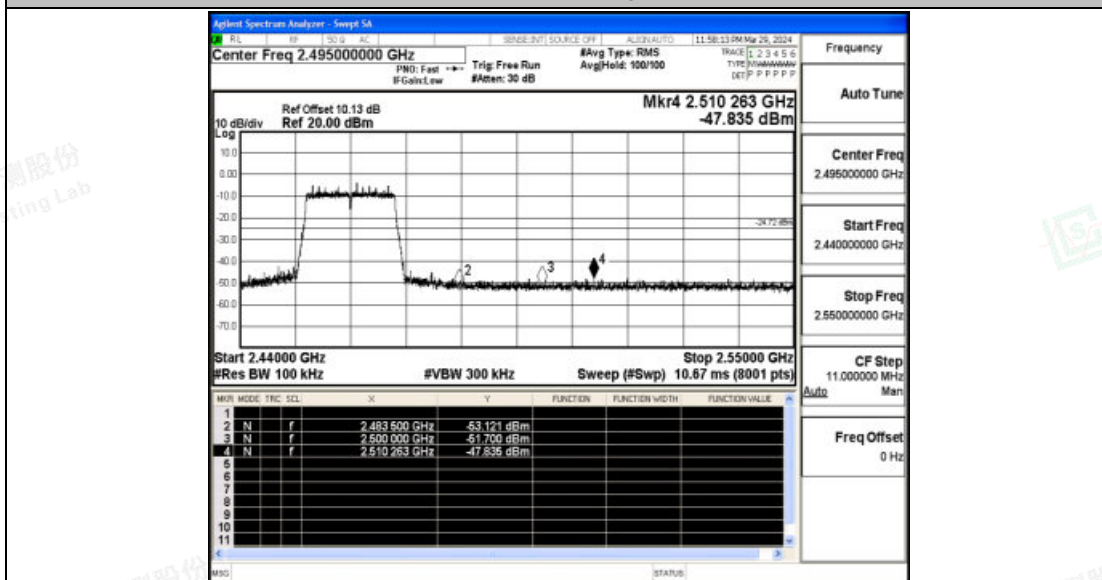
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11N20ISO\_Ant1\_High\_2462



11N40ISO\_Ant1\_Low\_2422

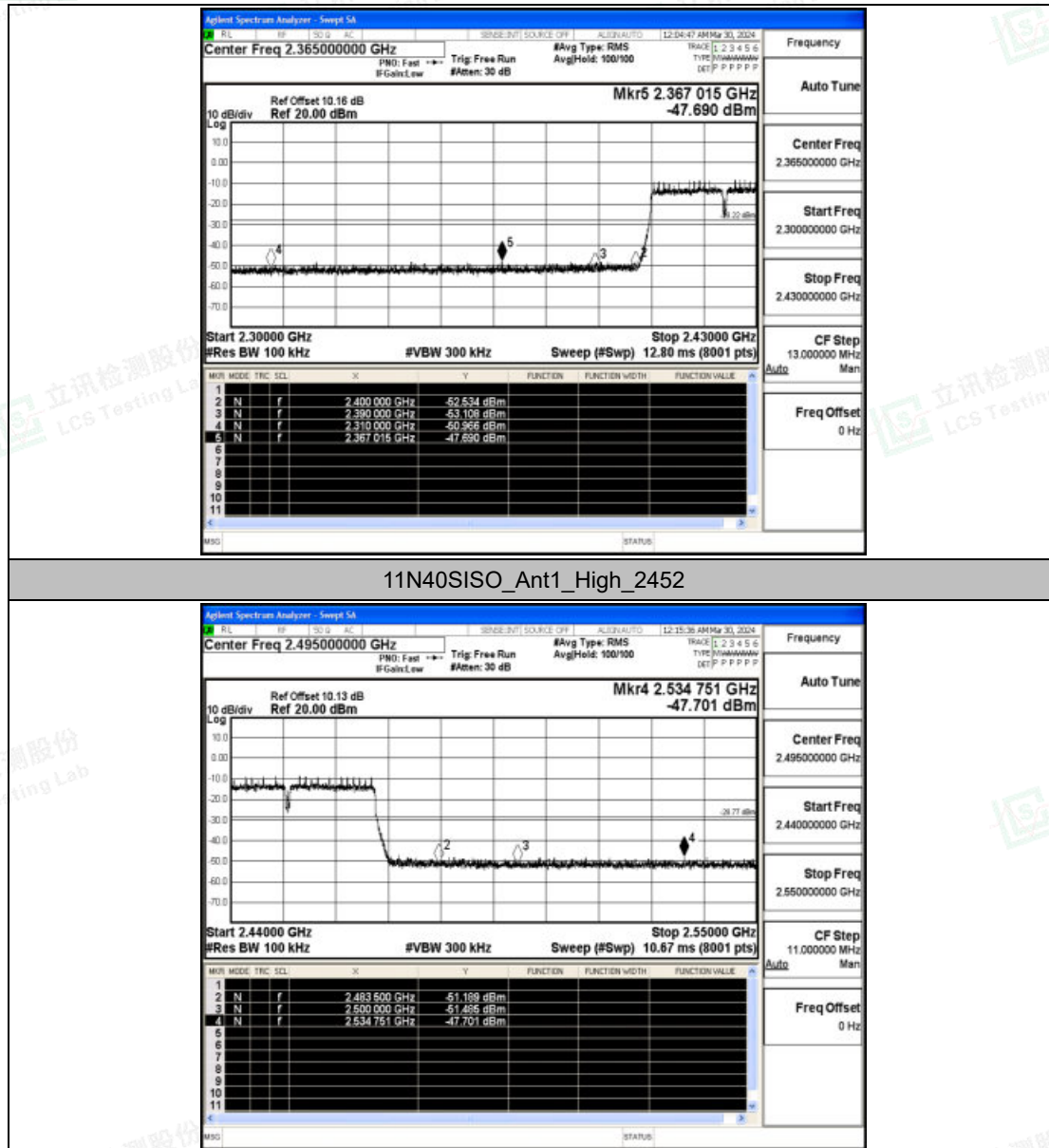


Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



## B.5 Conducted Spurious Emission

### Test Result

| TestMode  | Antenna | Freq(MHz) | FreqRange<br>[Mhz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|-----------|---------|-----------|--------------------|-------------------|-----------------|----------------|---------|
| 11B       | Ant1    | 2412      | 30~1000            | 2.82              | -59.59          | ≤-17.18        | PASS    |
|           |         |           | 1000~26500         | 2.82              | -39.51          | ≤-17.18        | PASS    |
|           |         | 2437      | 30~1000            | 3.57              | -59.56          | ≤-16.43        | PASS    |
|           |         |           | 1000~26500         | 3.57              | -47.18          | ≤-16.43        | PASS    |
|           |         | 2462      | 30~1000            | 3.94              | -59.84          | ≤-16.06        | PASS    |
|           |         |           | 1000~26500         | 3.94              | -47.14          | ≤-16.06        | PASS    |
| 11G       | Ant1    | 2412      | 30~1000            | -3.87             | -60.16          | ≤-23.87        | PASS    |
|           |         |           | 1000~26500         | -3.87             | -46.74          | ≤-23.87        | PASS    |
|           |         | 2437      | 30~1000            | -3.50             | -59.23          | ≤-23.5         | PASS    |
|           |         |           | 1000~26500         | -3.50             | -46.73          | ≤-23.5         | PASS    |
|           |         | 2462      | 30~1000            | -3.18             | -60.06          | ≤-23.18        | PASS    |
|           |         |           | 1000~26500         | -3.18             | -46.66          | ≤-23.18        | PASS    |
| 11N20SISO | Ant1    | 2412      | 30~1000            | -4.39             | -59.38          | ≤-24.39        | PASS    |
|           |         |           | 1000~26500         | -4.39             | -46.71          | ≤-24.39        | PASS    |
|           |         | 2437      | 30~1000            | -3.86             | -60.06          | ≤-23.86        | PASS    |
|           |         |           | 1000~26500         | -3.86             | -46.84          | ≤-23.86        | PASS    |
|           |         | 2462      | 30~1000            | -4.72             | -59.94          | ≤-24.72        | PASS    |
|           |         |           | 1000~26500         | -4.72             | -46.87          | ≤-24.72        | PASS    |
| 11N40SISO | Ant1    | 2422      | 30~1000            | -8.22             | -59.87          | ≤-28.22        | PASS    |
|           |         |           | 1000~26500         | -8.22             | -47.1           | ≤-28.22        | PASS    |
|           |         | 2437      | 30~1000            | -7.55             | -59.37          | ≤-27.55        | PASS    |
|           |         |           | 1000~26500         | -7.55             | -47.32          | ≤-27.55        | PASS    |
|           |         | 2452      | 30~1000            | -8.77             | -59.38          | ≤-28.77        | PASS    |
|           |         |           | 1000~26500         | -8.77             | -47.31          | ≤-28.77        | PASS    |



Shenzhen LCS Compliance Testing Laboratory Ltd.

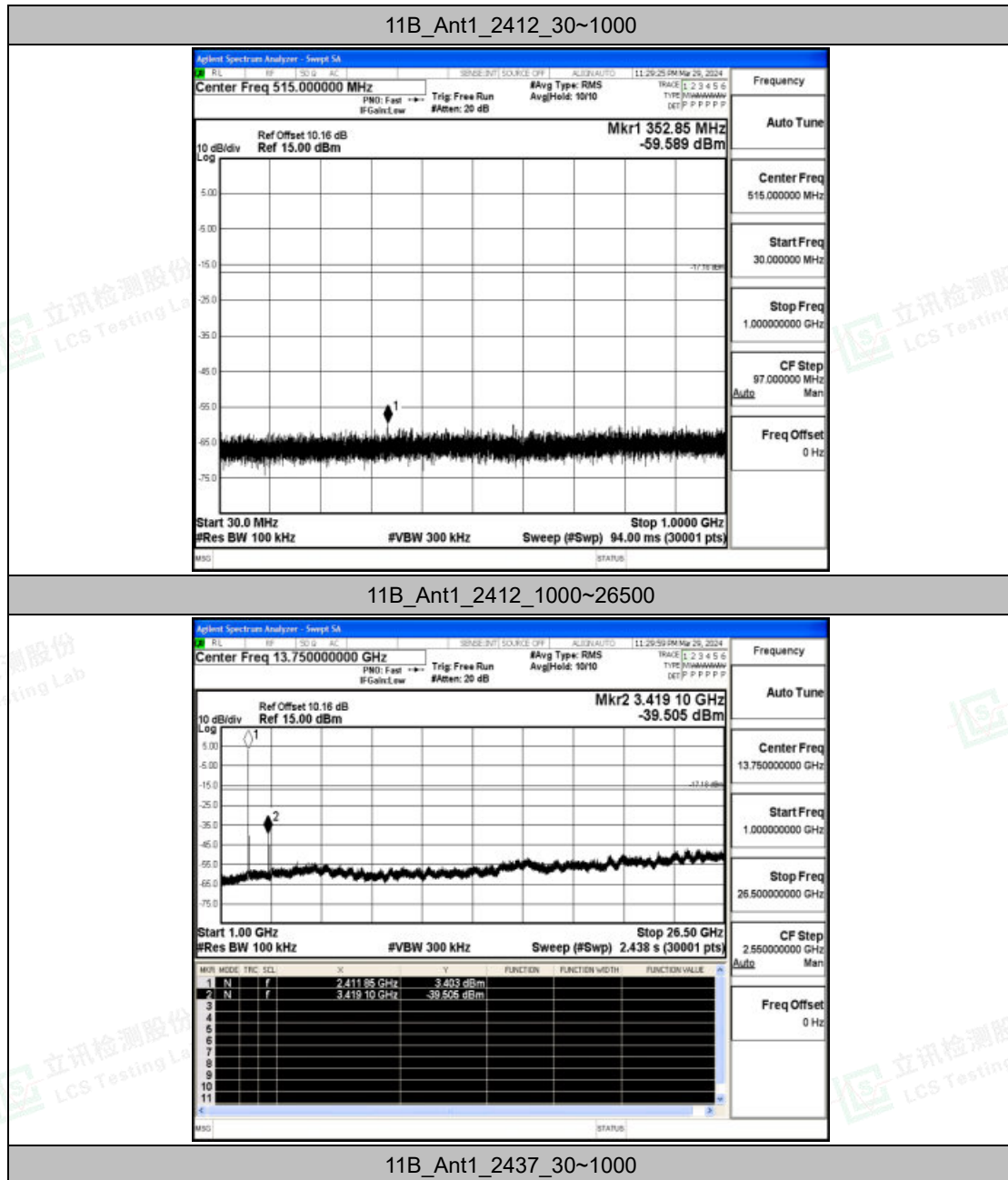
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



## Test Graphs

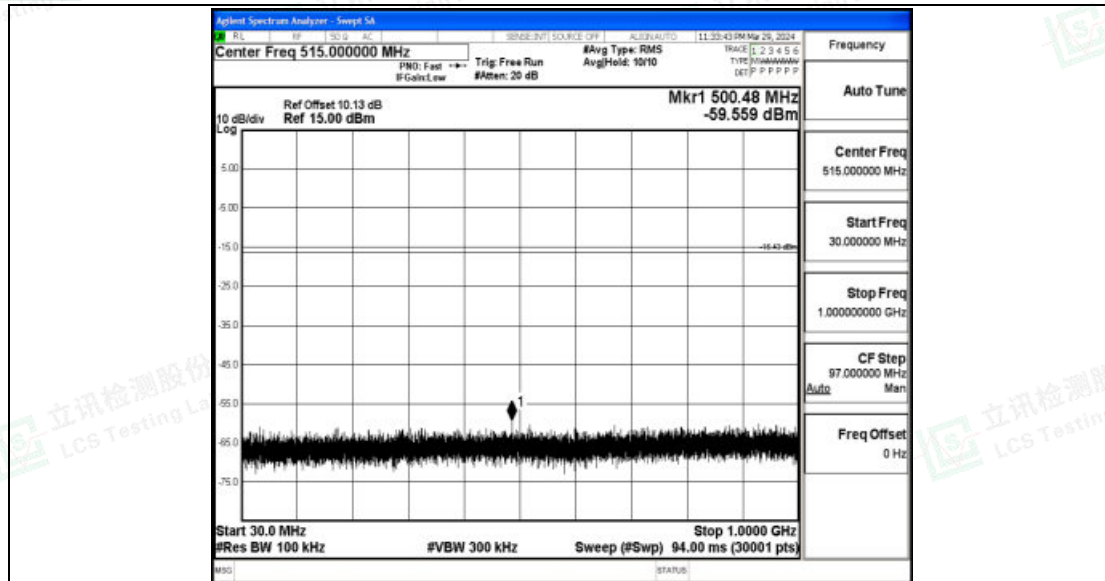


Shenzhen LCS Compliance Testing Laboratory Ltd.

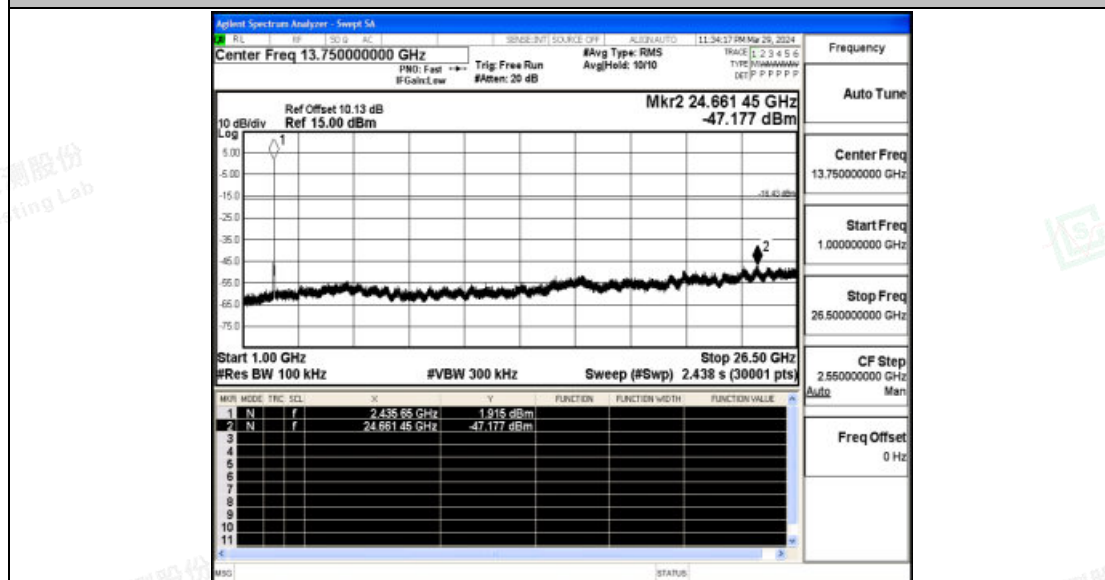
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11B\_Ant1\_2437\_1000~26500



11B\_Ant1\_2462\_30~1000

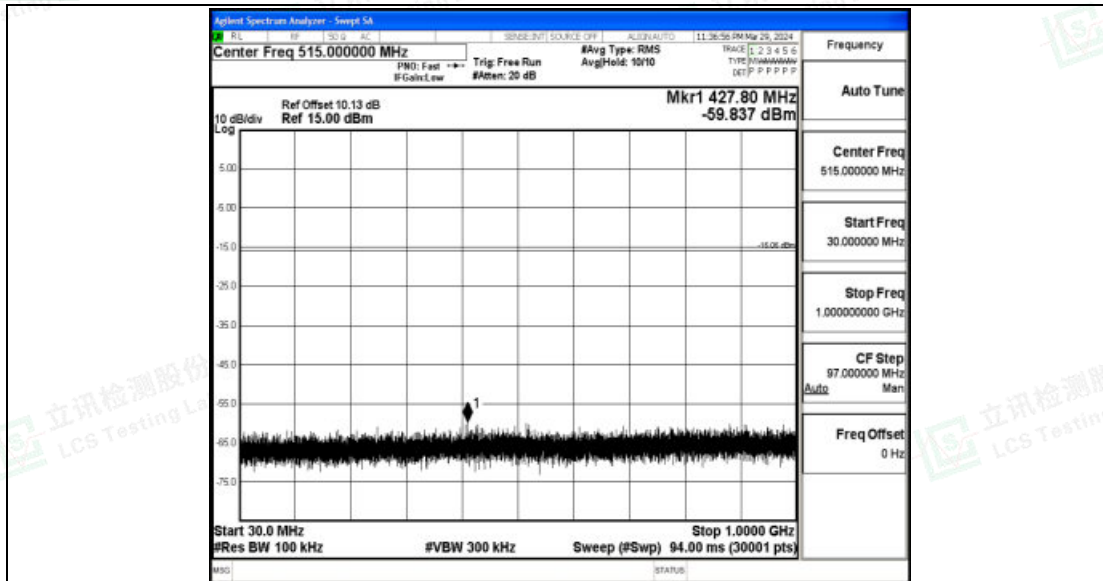


Shenzhen LCS Compliance Testing Laboratory Ltd.

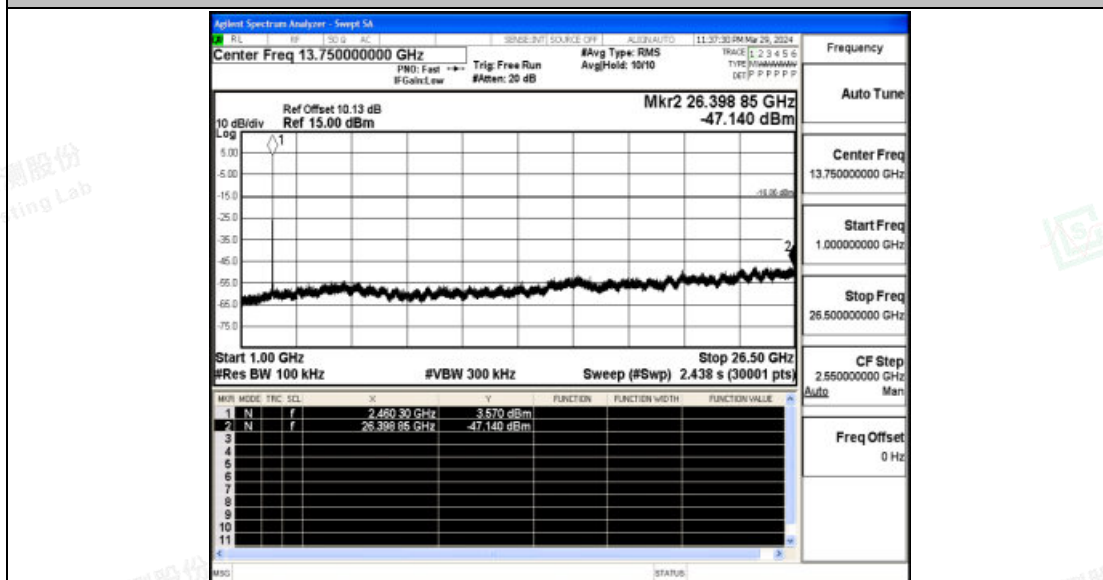
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11B\_Ant1\_2462\_1000~26500



11G\_Ant1\_2412\_30~1000

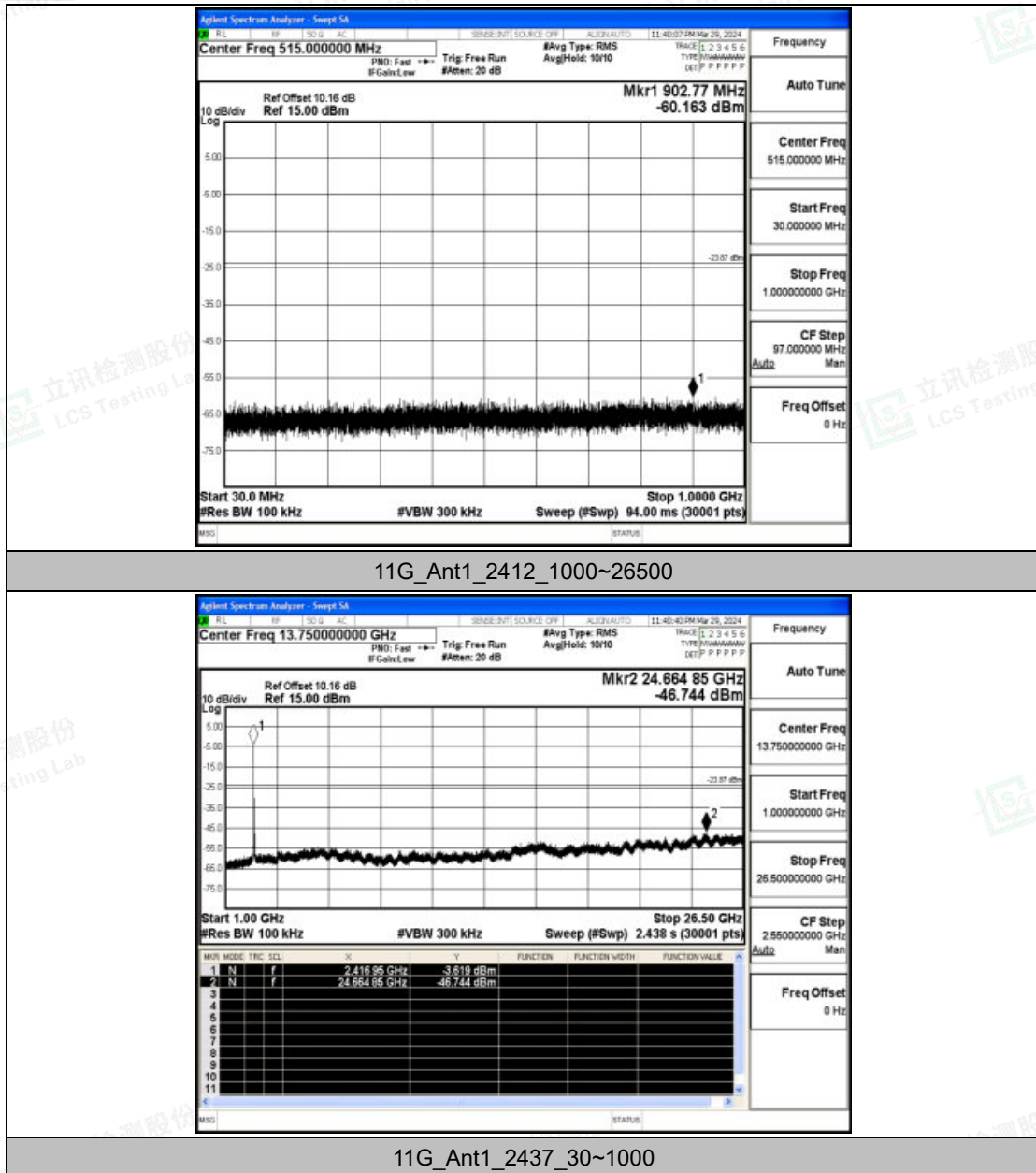


Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

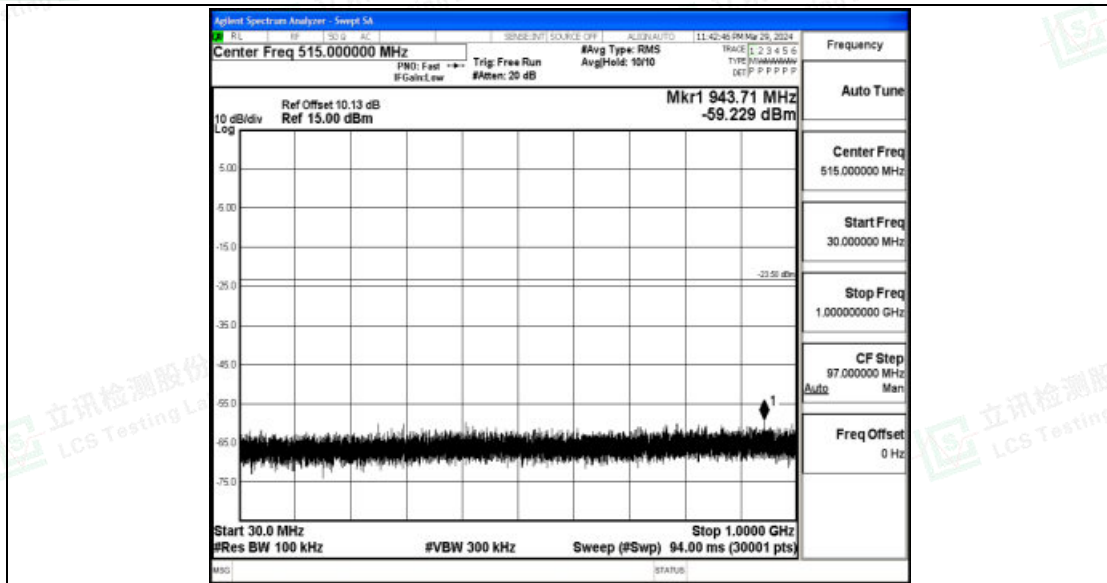


Shenzhen LCS Compliance Testing Laboratory Ltd.

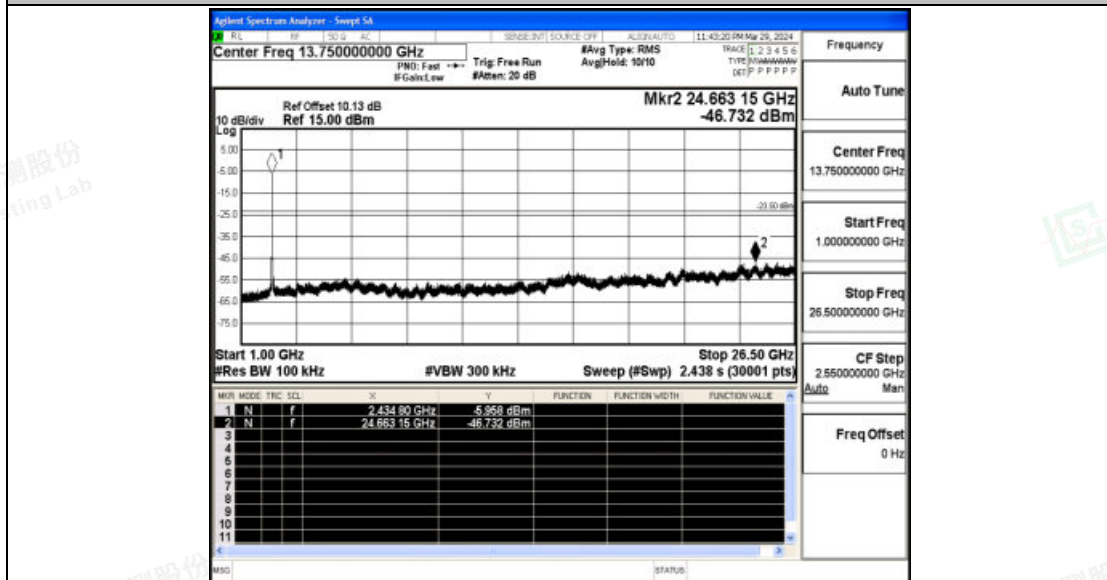
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11G\_Ant1\_2437\_1000~26500



11G\_Ant1\_2462\_30~1000

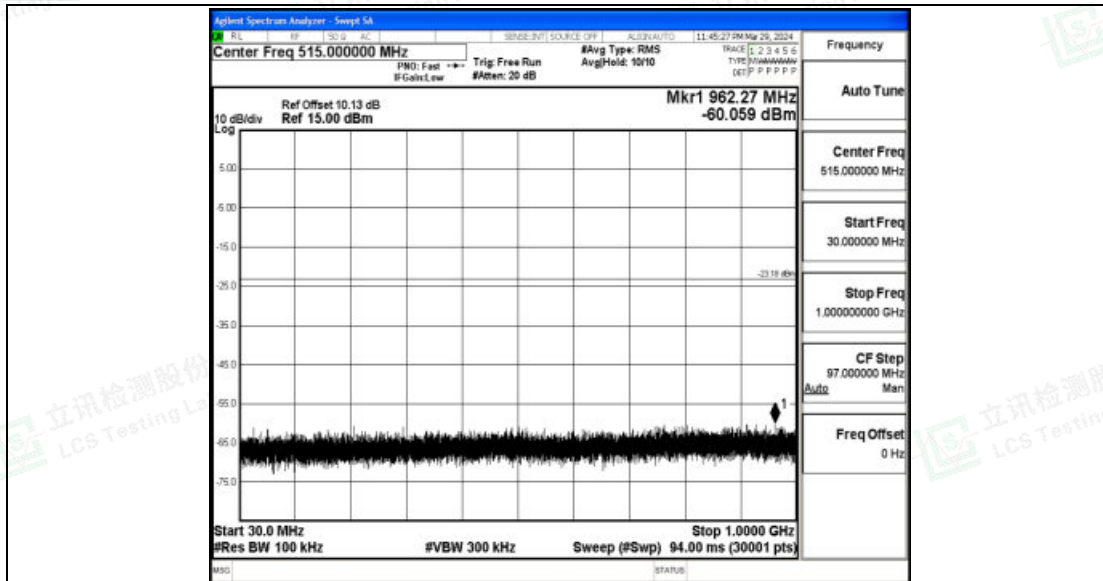


Shenzhen LCS Compliance Testing Laboratory Ltd.

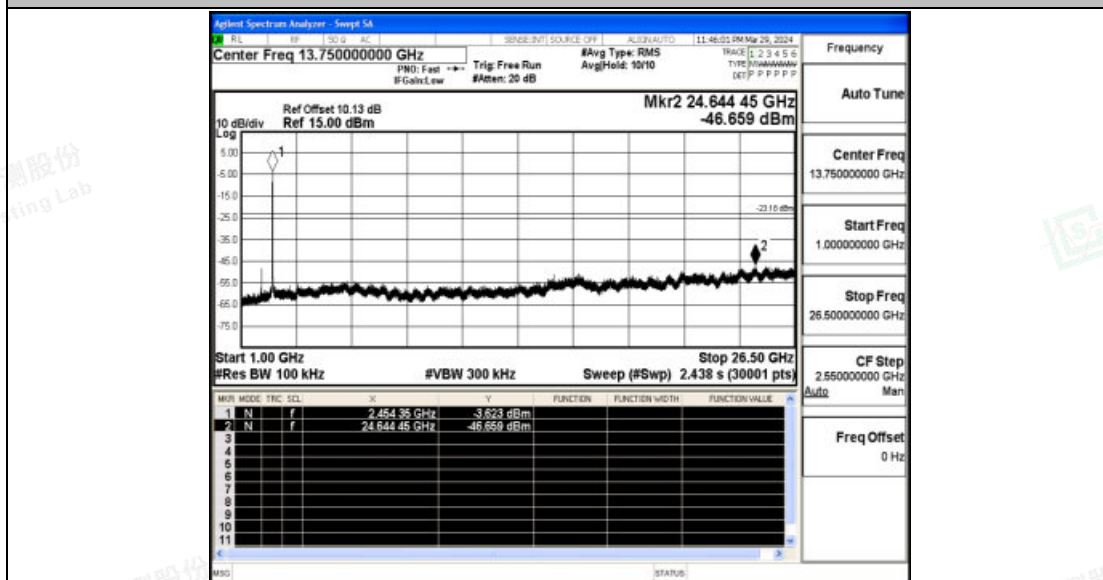
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11G\_Ant1\_2462\_1000~26500



11N20SISO\_Ant1\_2412\_30~1000

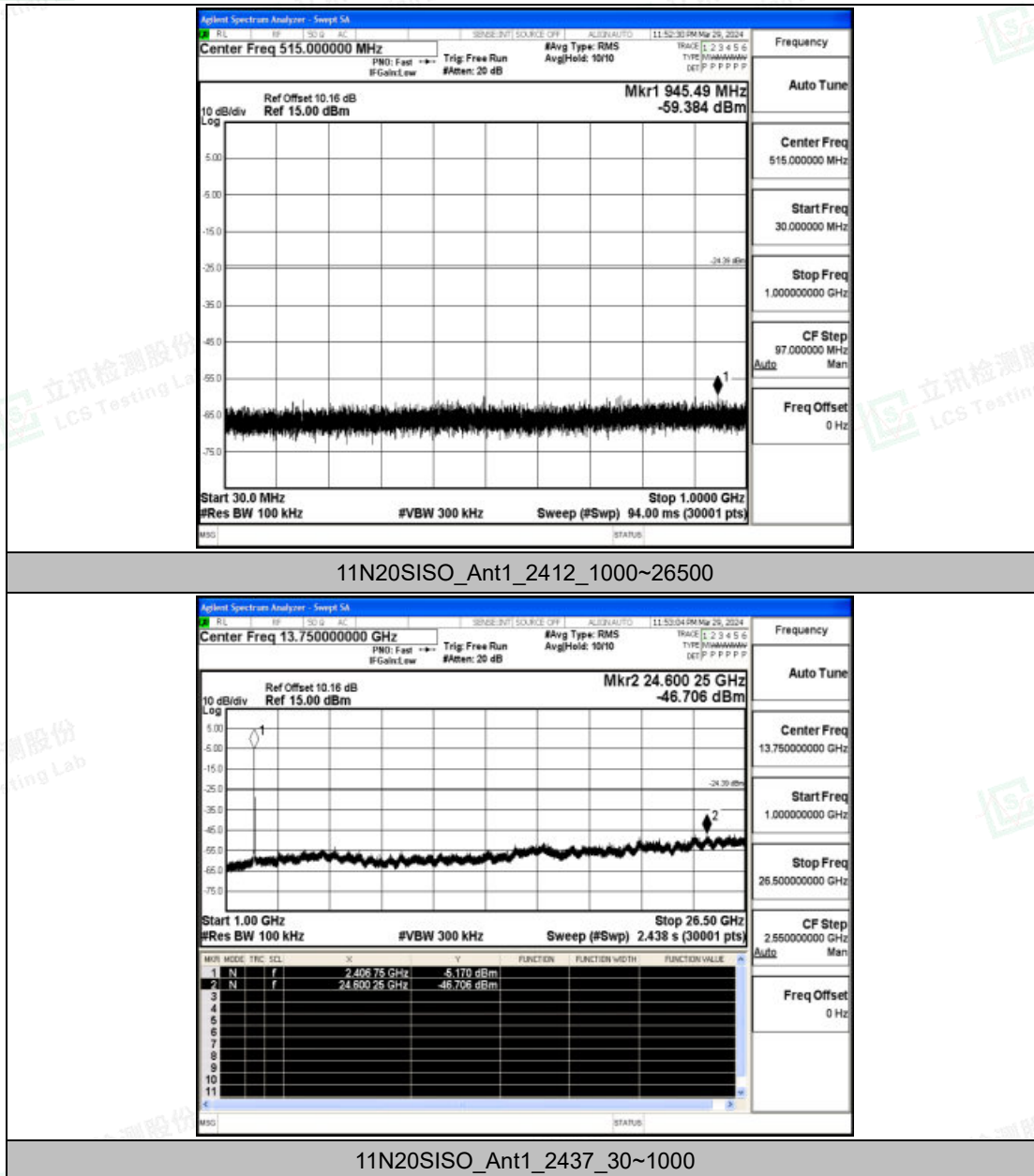


Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

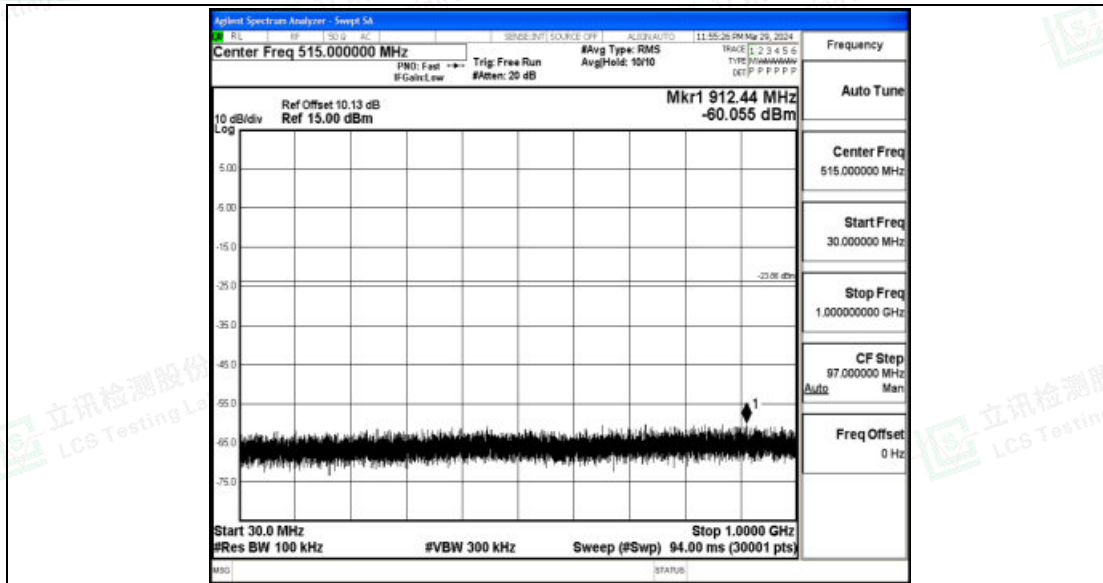


Shenzhen LCS Compliance Testing Laboratory Ltd.

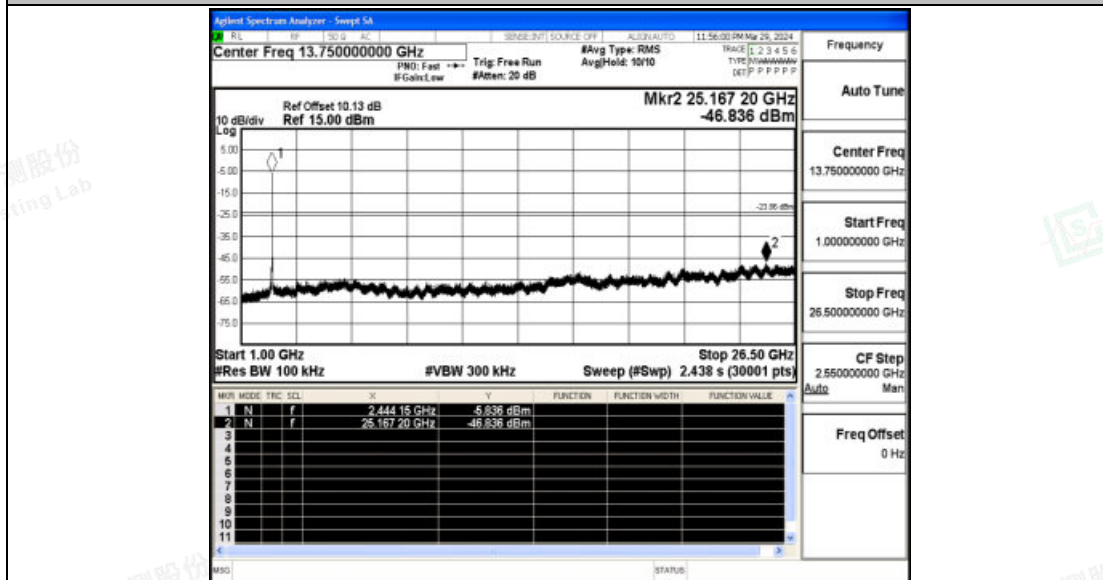
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11N20ISO\_Ant1\_2437\_1000~26500



11N20ISO\_Ant1\_2462\_30~1000

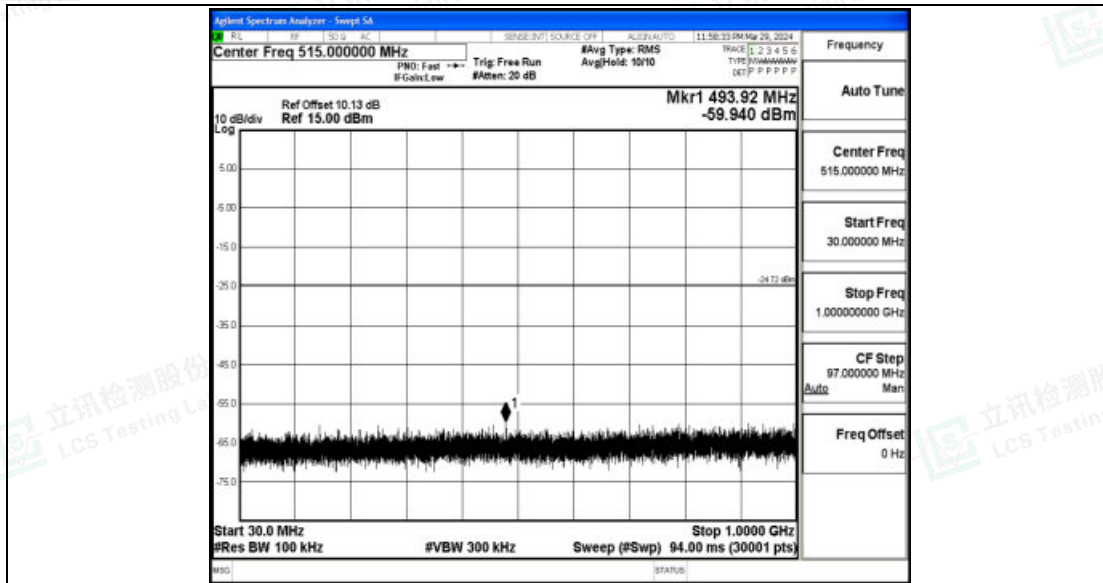


Shenzhen LCS Compliance Testing Laboratory Ltd.

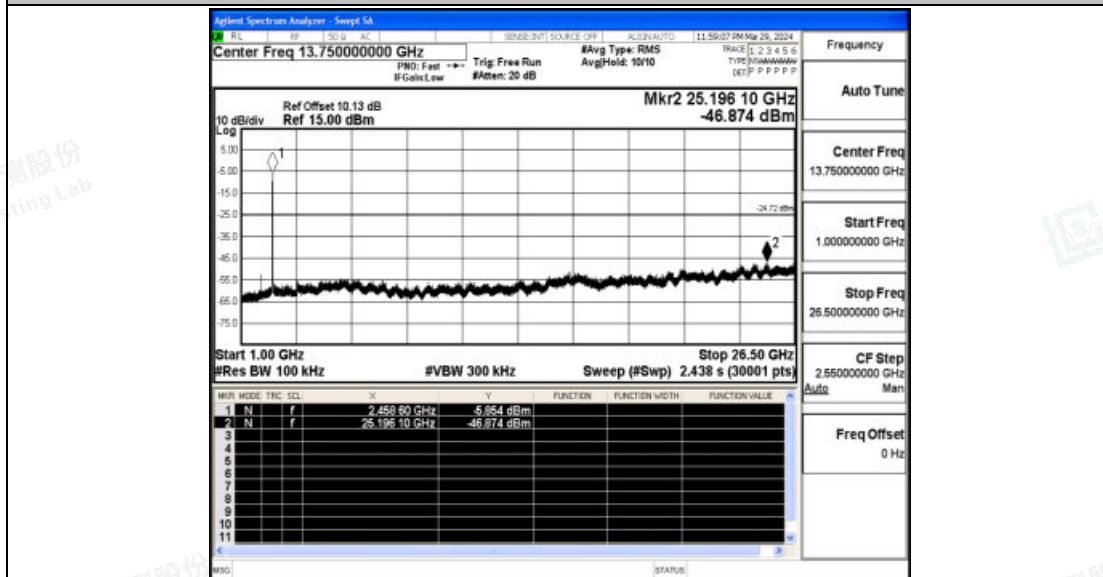
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11N20SISO\_Ant1\_2462\_1000~26500



11N40SISO\_Ant1\_2422\_30~1000

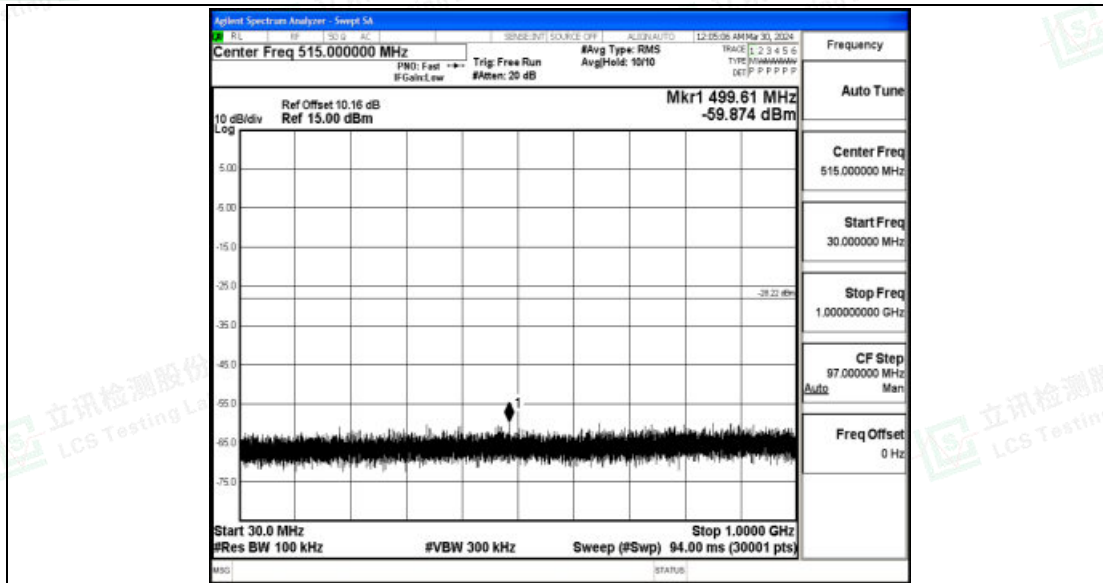


Shenzhen LCS Compliance Testing Laboratory Ltd.

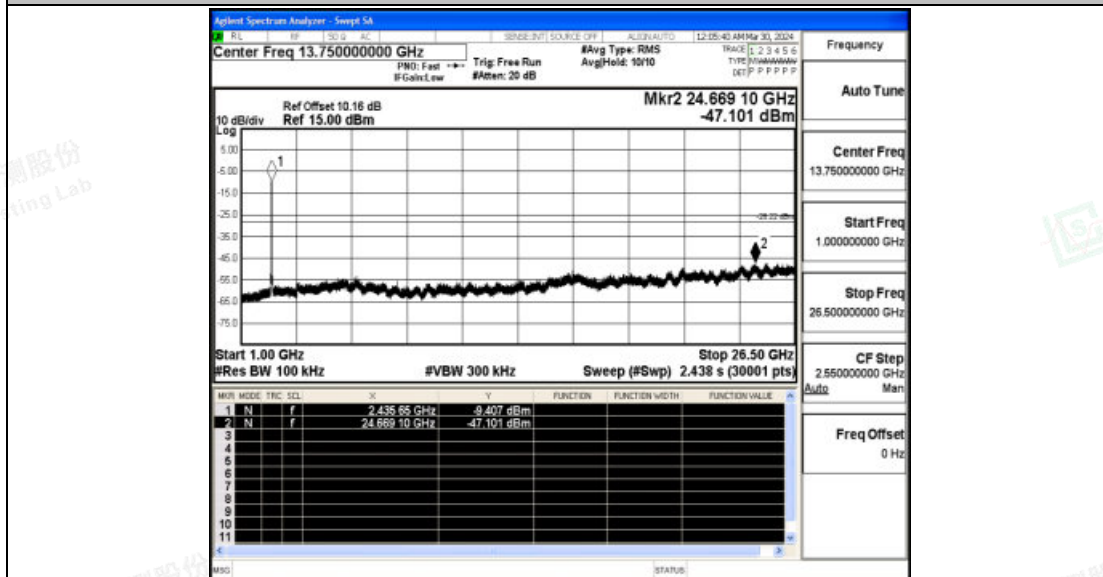
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11N40SISO\_Ant1\_2422\_1000~26500



11N40SISO\_Ant1\_2437\_30~1000

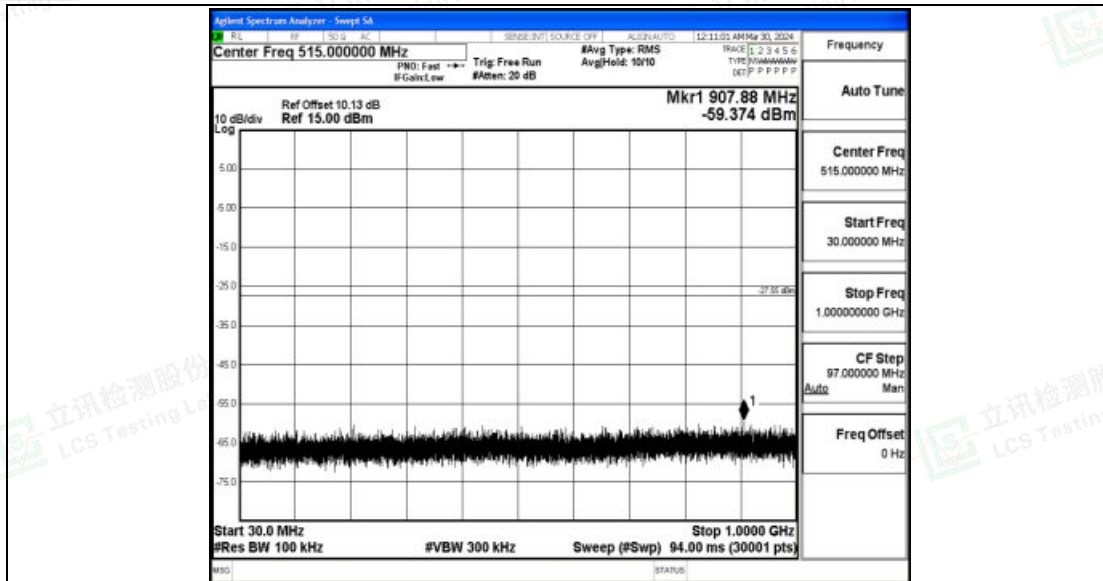


Shenzhen LCS Compliance Testing Laboratory Ltd.

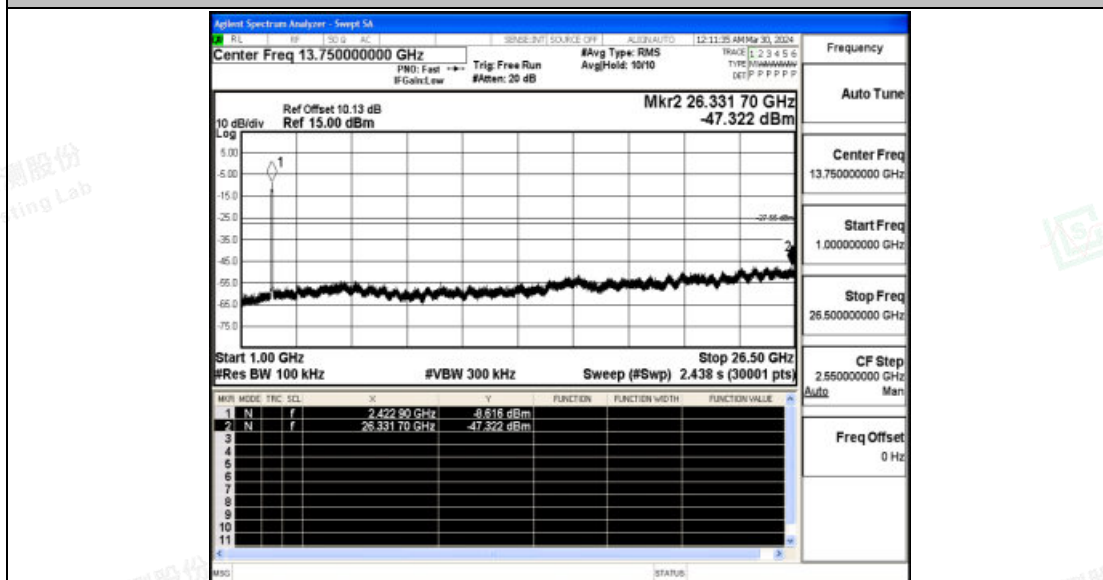
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11N40SISO\_Ant1\_2437\_1000~26500



11N40SISO\_Ant1\_2452\_30~1000

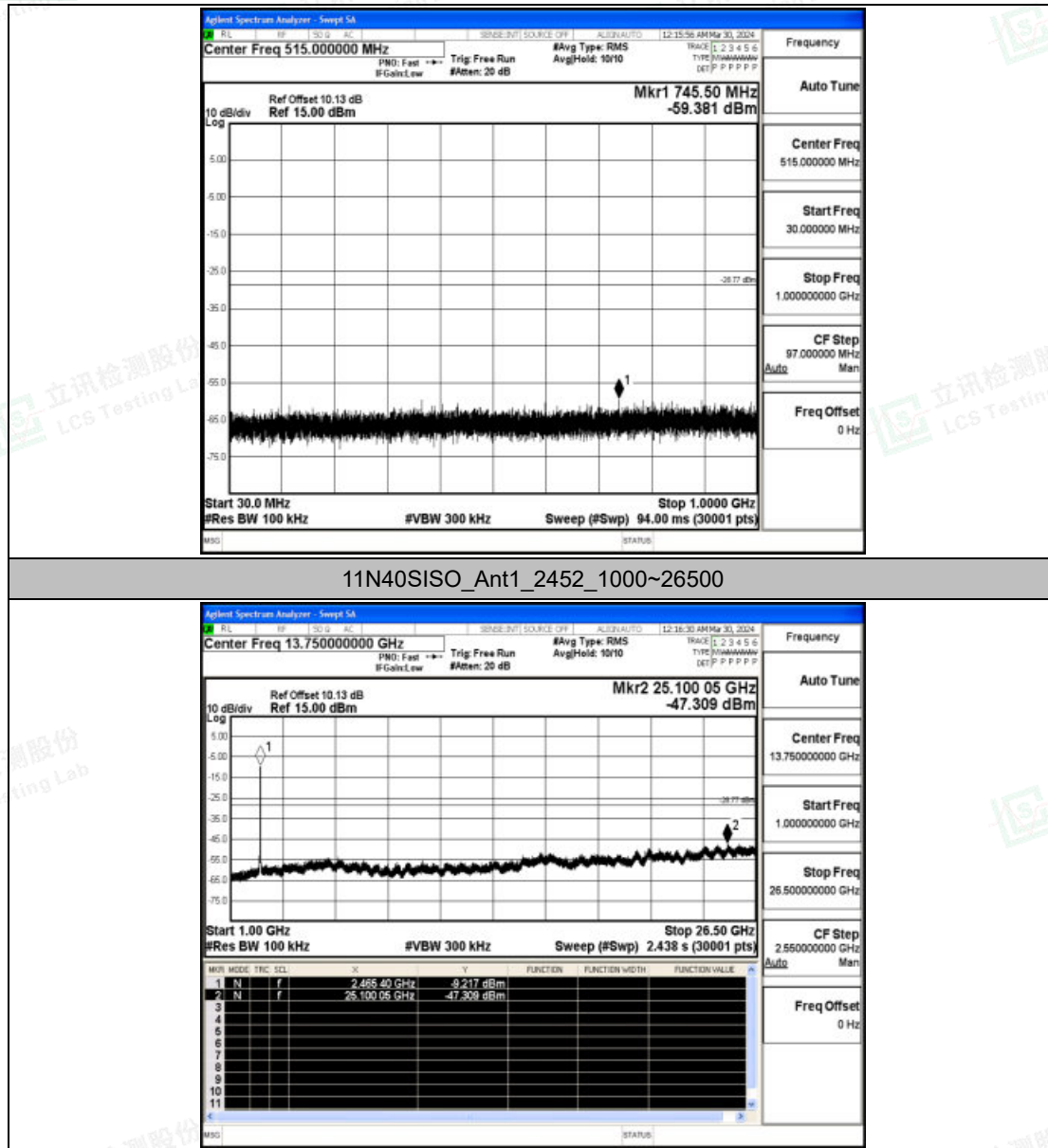


Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



## Reference level measurement

### Test Result

| TestMode  | Antenna | Freq(MHz) | Max.Point[MHz] | Result[dBm] |
|-----------|---------|-----------|----------------|-------------|
| 11B       | Ant1    | 2412      | 2410.47        | 2.82        |
|           |         | 2437      | 2435.99        | 3.57        |
|           |         | 2462      | 2462.99        | 3.94        |
| 11G       | Ant1    | 2412      | 2419.49        | -3.87       |
|           |         | 2437      | 2430.74        | -3.50       |
|           |         | 2462      | 2463.28        | -3.18       |
| 11N20SISO | Ant1    | 2412      | 2413.27        | -4.39       |
|           |         | 2437      | 2438.21        | -3.86       |
|           |         | 2462      | 2469.51        | -4.72       |
| 11N40SISO | Ant1    | 2422      | 2424.49        | -8.22       |
|           |         | 2437      | 2434.48        | -7.55       |
|           |         | 2452      | 2449.48        | -8.77       |



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

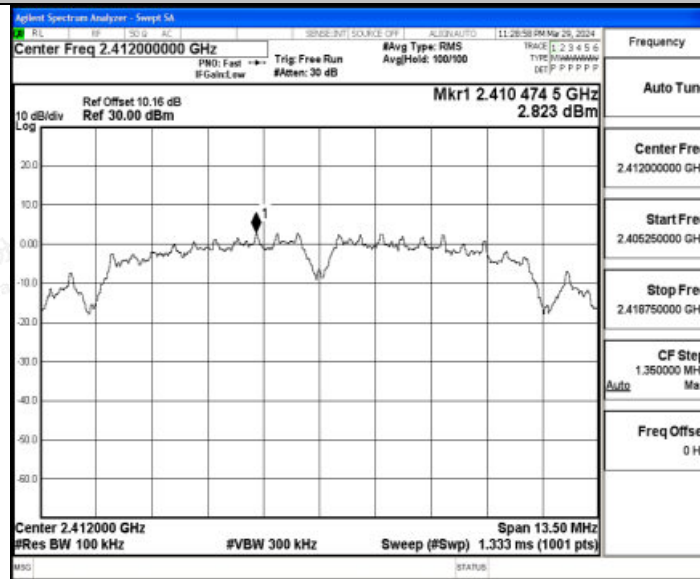
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

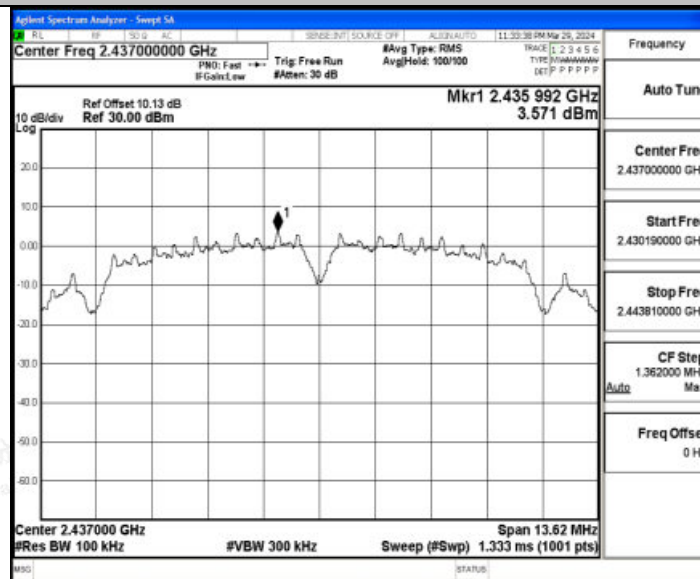


## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

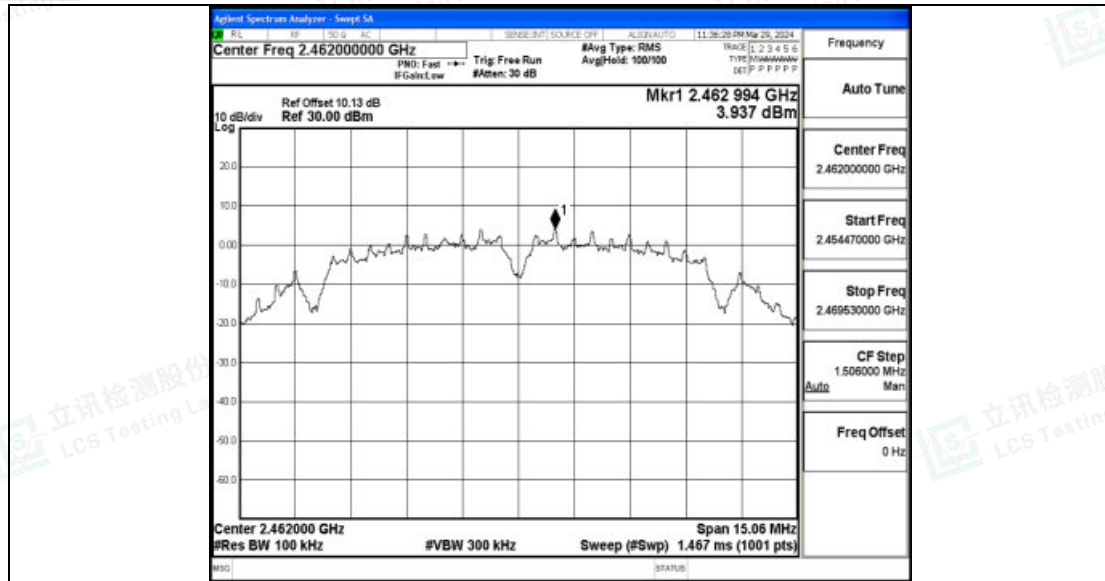


Shenzhen LCS Compliance Testing Laboratory Ltd.

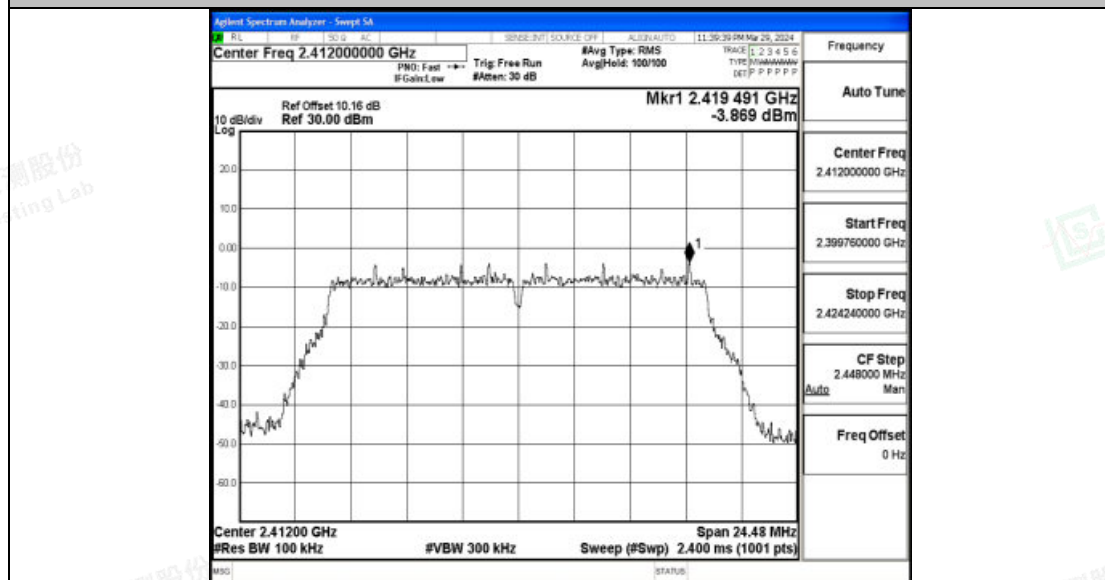
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11G\_Ant1\_2412



11G\_Ant1\_2437

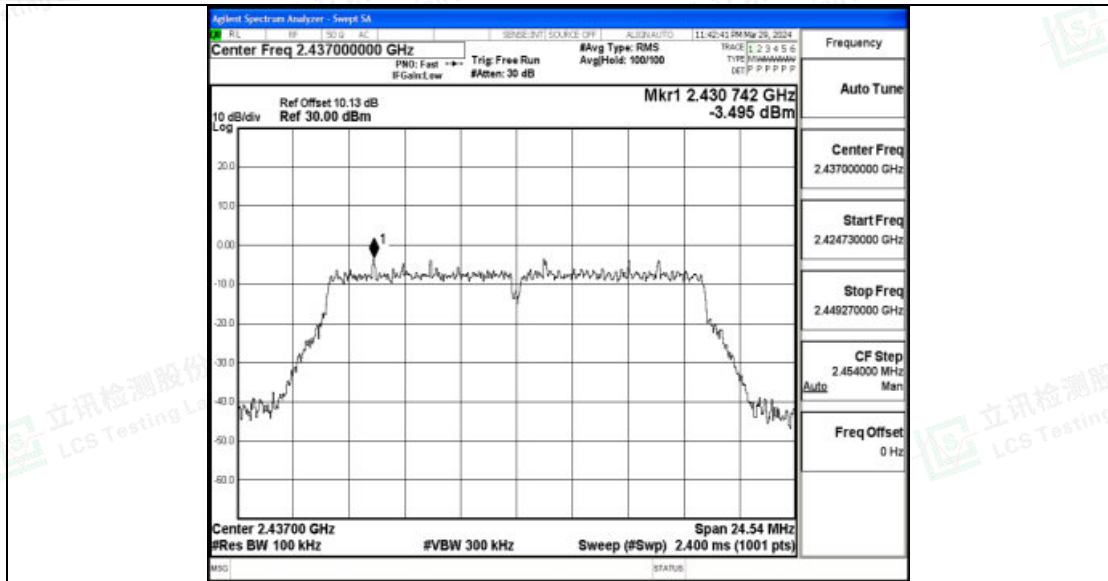


Shenzhen LCS Compliance Testing Laboratory Ltd.

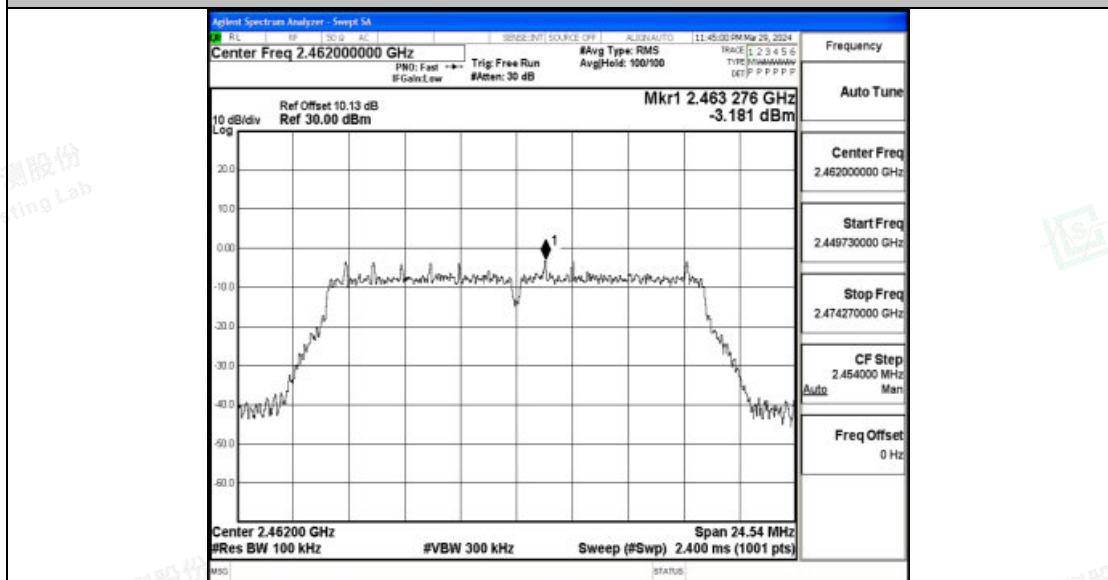
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11G\_Ant1\_2462



11N20SISO\_Ant1\_2412

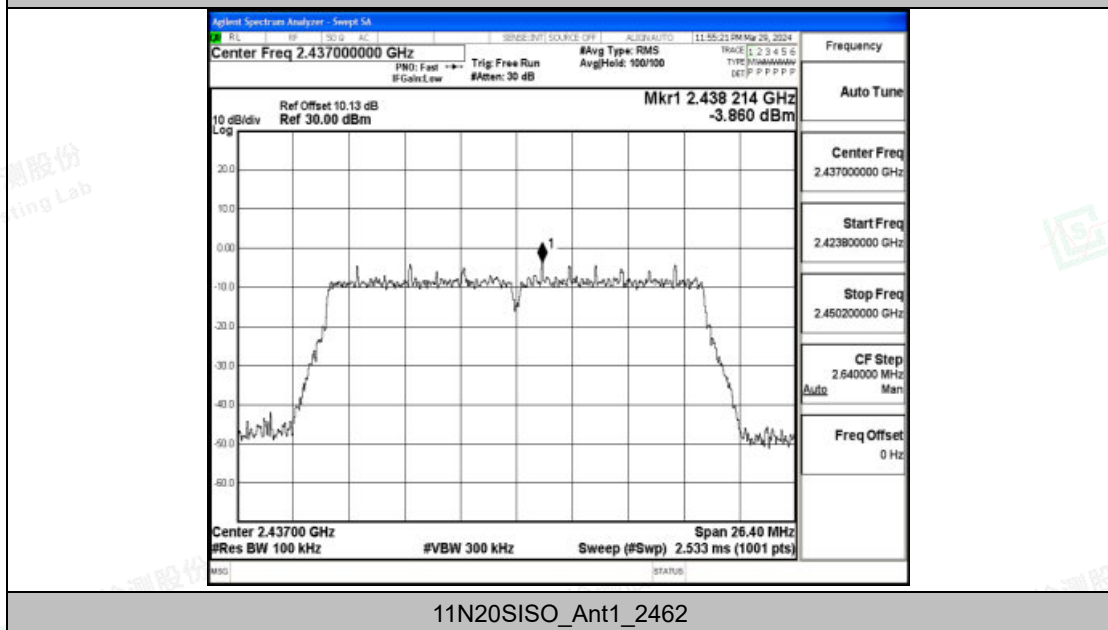
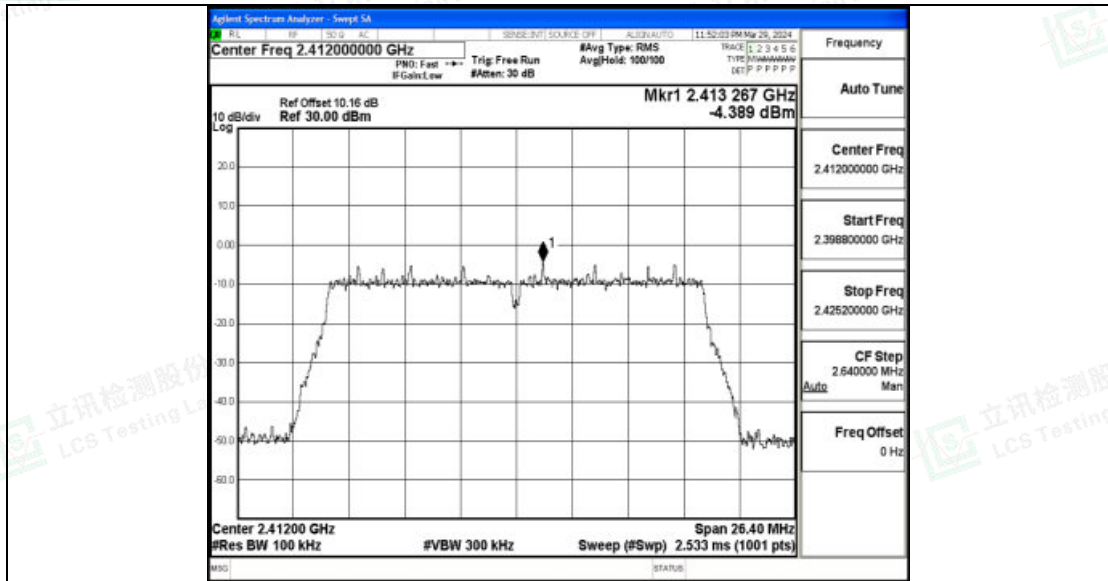


Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

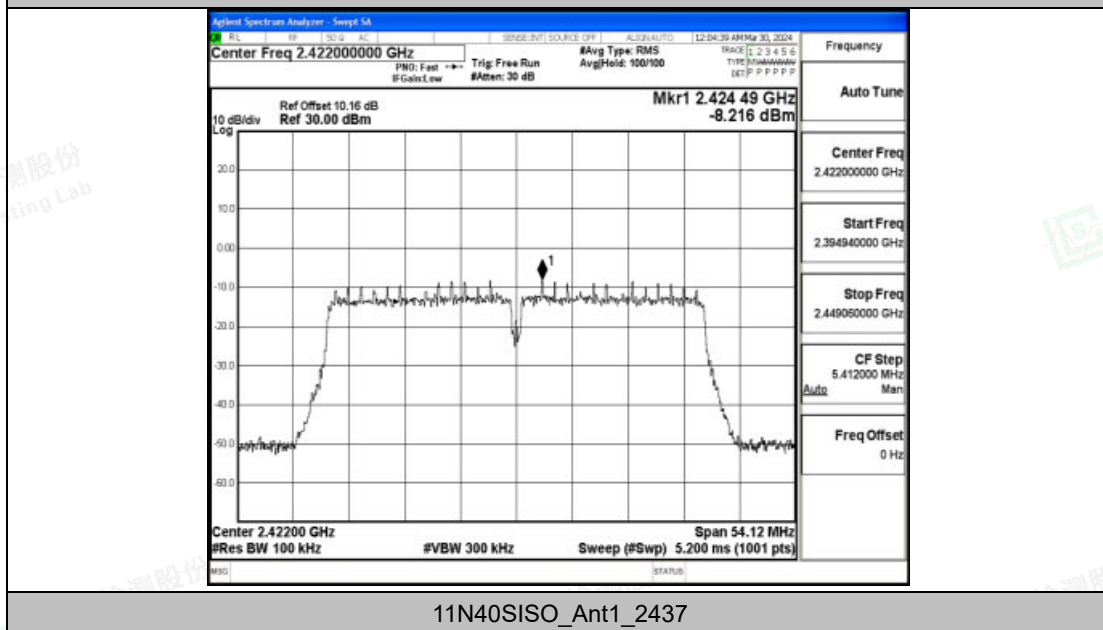
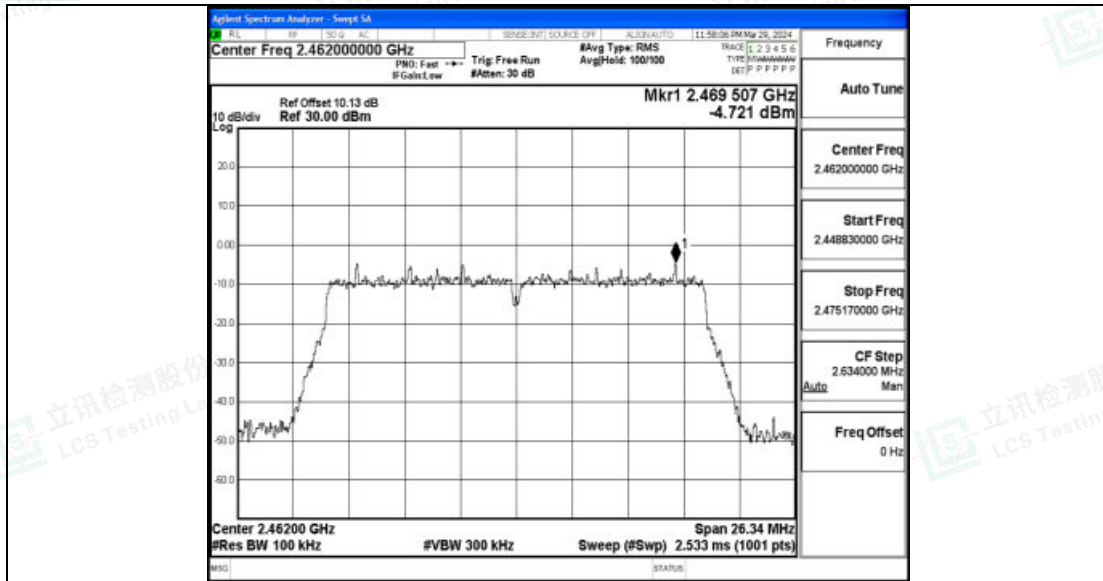


Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

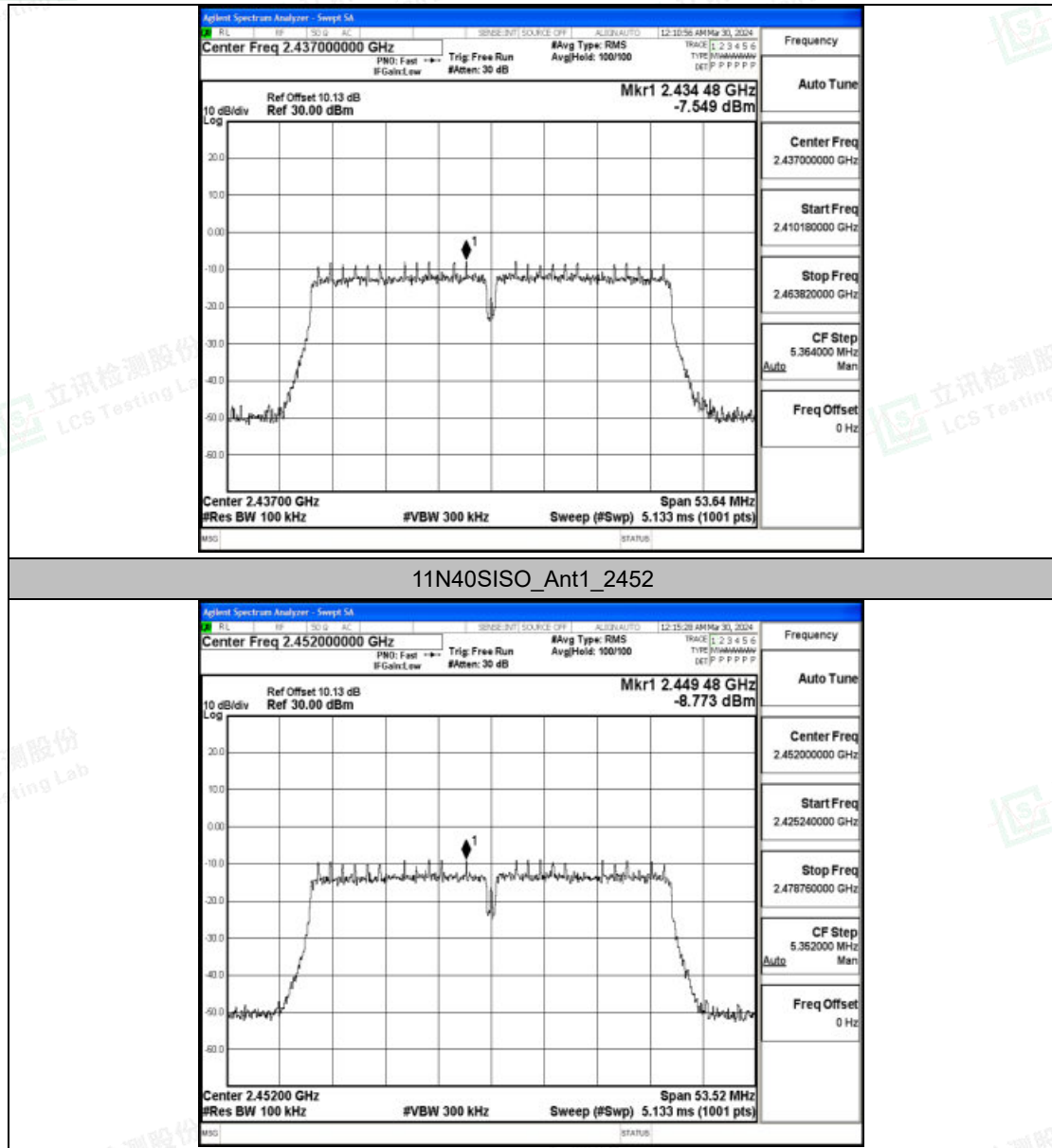


Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



## B.6 Duty Cycle

### Test Result

| TestMode  | Antenna | Freq(MHz) | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Factor | 1/T Factor[kHz] | Verdict |
|-----------|---------|-----------|----------------------------|--------------------------|----------------|--------|-----------------|---------|
| 11B       | Ant1    | 2412      | 6.60                       | 6.63                     | 99.55          | 0.02   | 0.15            | ---     |
|           |         | 2437      | 6.59                       | 6.62                     | 99.55          | 0.02   | 0.15            | ---     |
|           |         | 2462      | 6.59                       | 6.62                     | 99.55          | 0.02   | 0.15            | ---     |
| 11G       | Ant1    | 2412      | 1.09                       | 1.12                     | 97.32          | 0.12   | 0.92            | ---     |
|           |         | 2437      | 1.09                       | 1.13                     | 96.46          | 0.16   | 0.92            | ---     |
|           |         | 2462      | 1.09                       | 1.13                     | 96.46          | 0.16   | 0.92            | ---     |
| 11N20SISO | Ant1    | 2412      | 1.02                       | 1.06                     | 96.23          | 0.17   | 0.98            | ---     |
|           |         | 2437      | 1.03                       | 1.06                     | 97.17          | 0.12   | 0.97            | ---     |
|           |         | 2462      | 1.03                       | 1.06                     | 97.17          | 0.12   | 0.97            | ---     |
| 11N40SISO | Ant1    | 2422      | 0.51                       | 0.54                     | 94.44          | 0.25   | 1.96            | ---     |
|           |         | 2437      | 0.51                       | 0.55                     | 92.73          | 0.33   | 1.96            | ---     |
|           |         | 2452      | 0.51                       | 0.54                     | 94.44          | 0.25   | 1.96            | ---     |



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

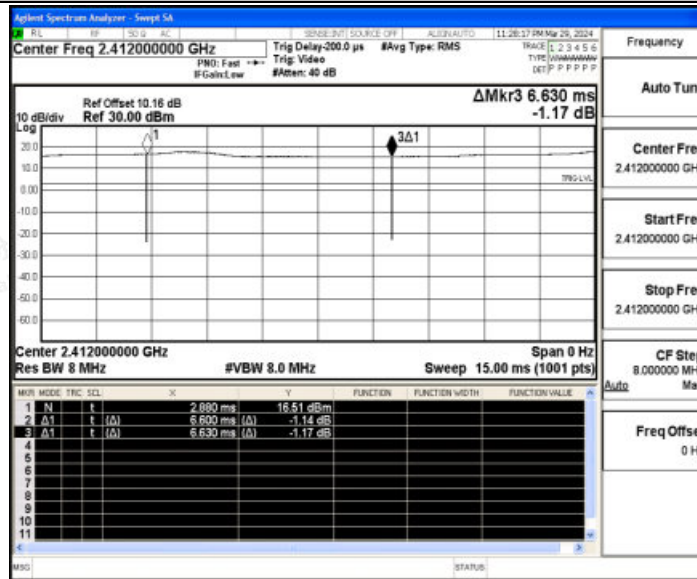
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

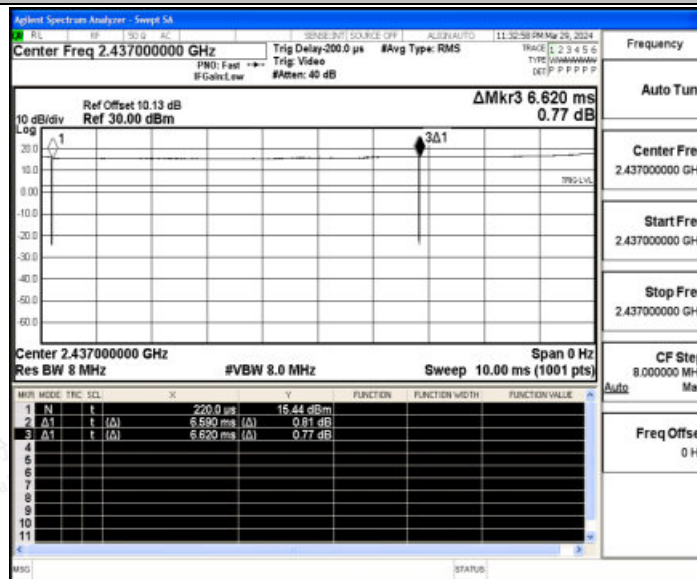


## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

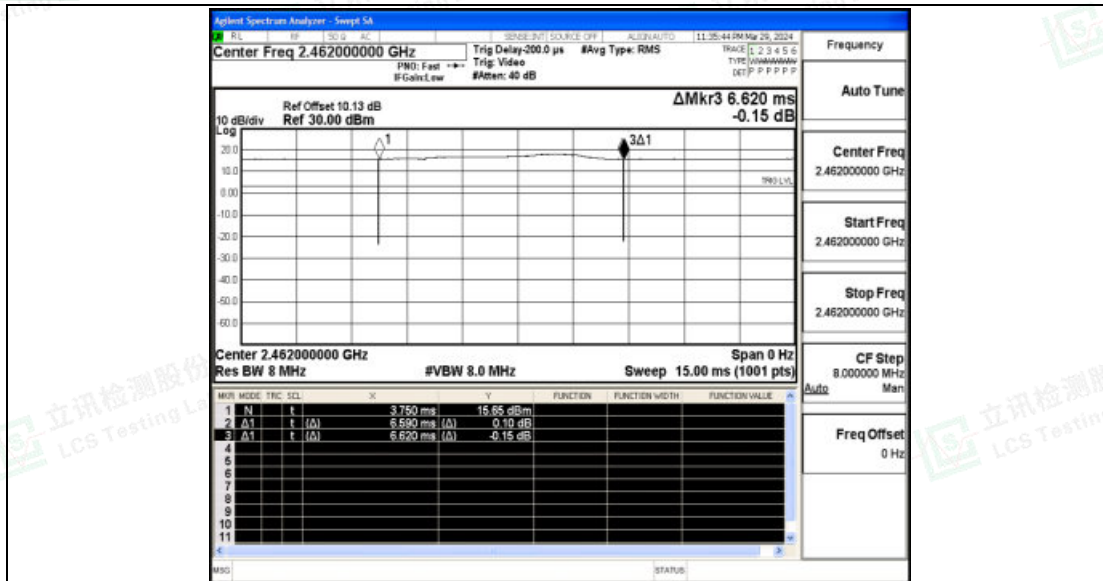


Shenzhen LCS Compliance Testing Laboratory Ltd.

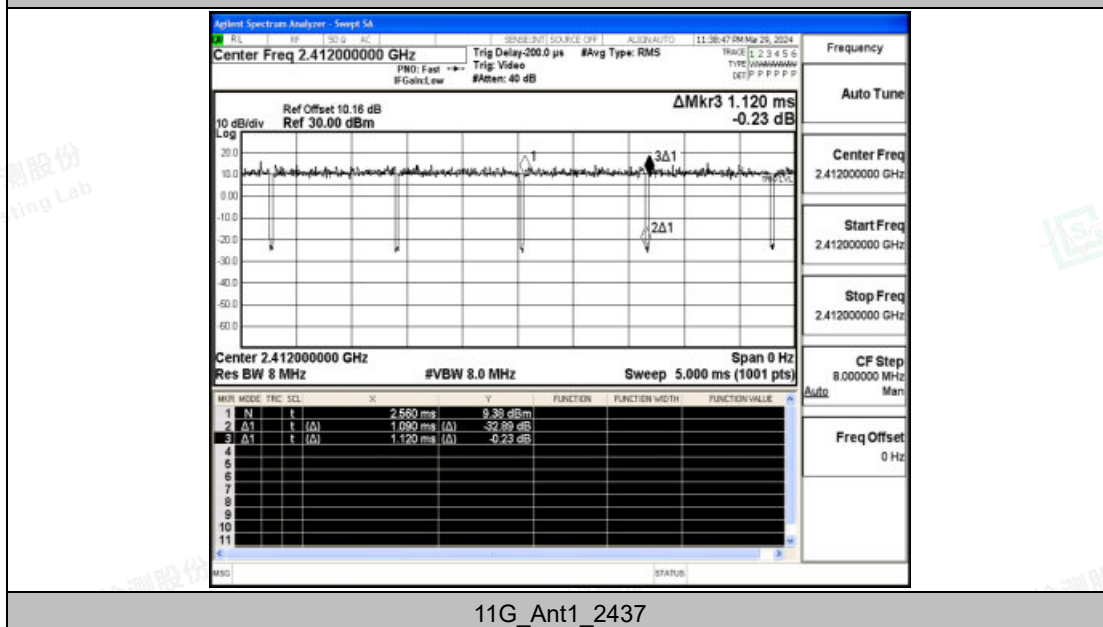
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11G\_Ant1\_2412



11G\_Ant1\_2437

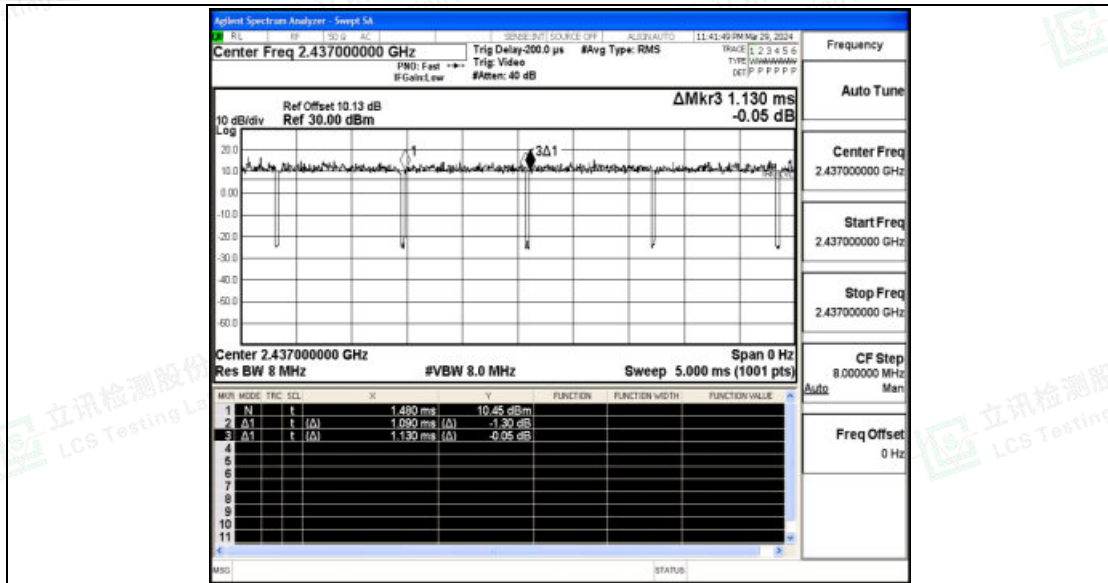


Shenzhen LCS Compliance Testing Laboratory Ltd.

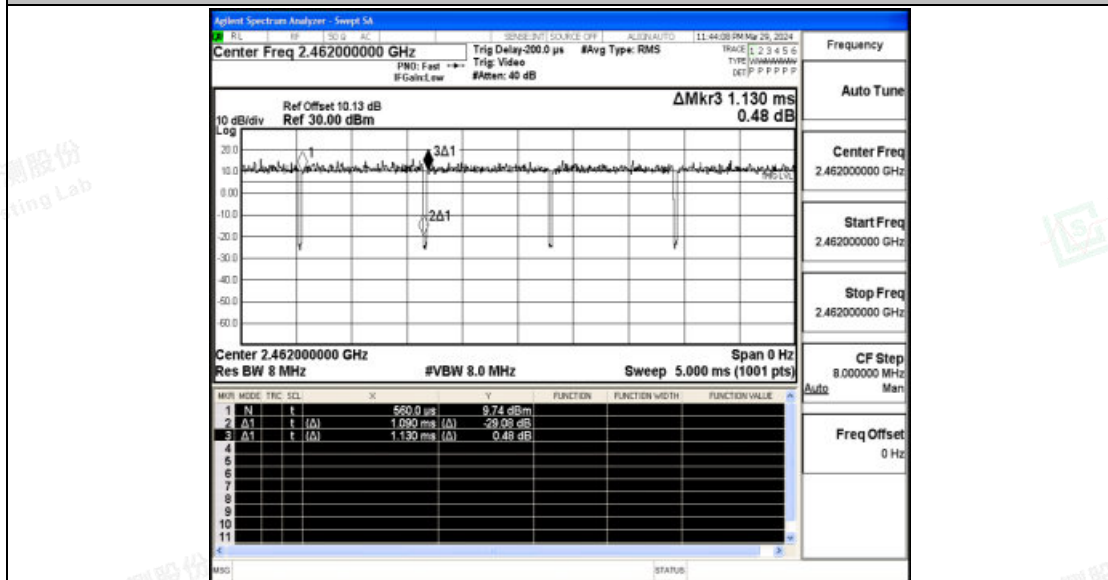
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11G\_Ant1\_2462



11N20SISO\_Ant1\_2412

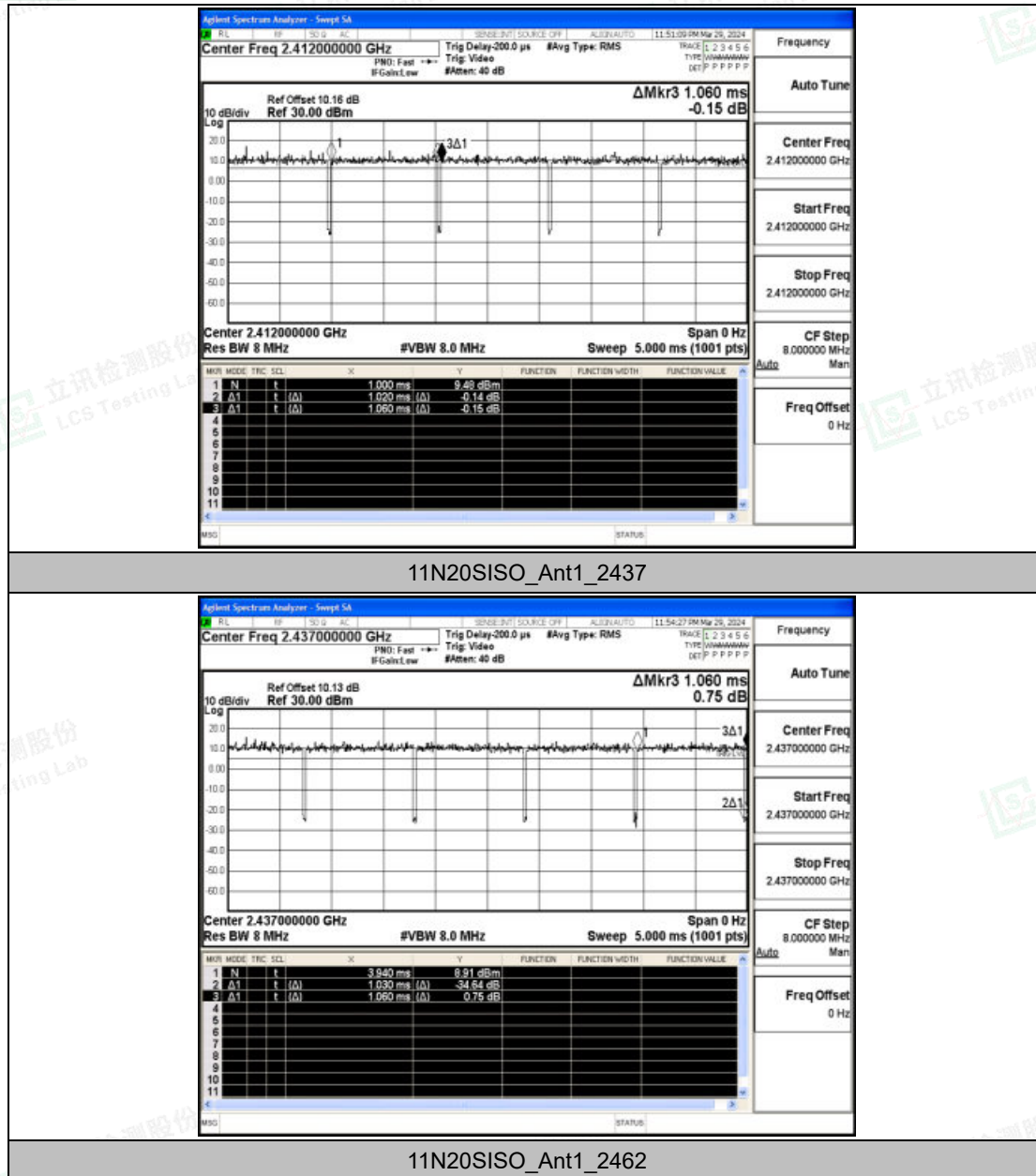


Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

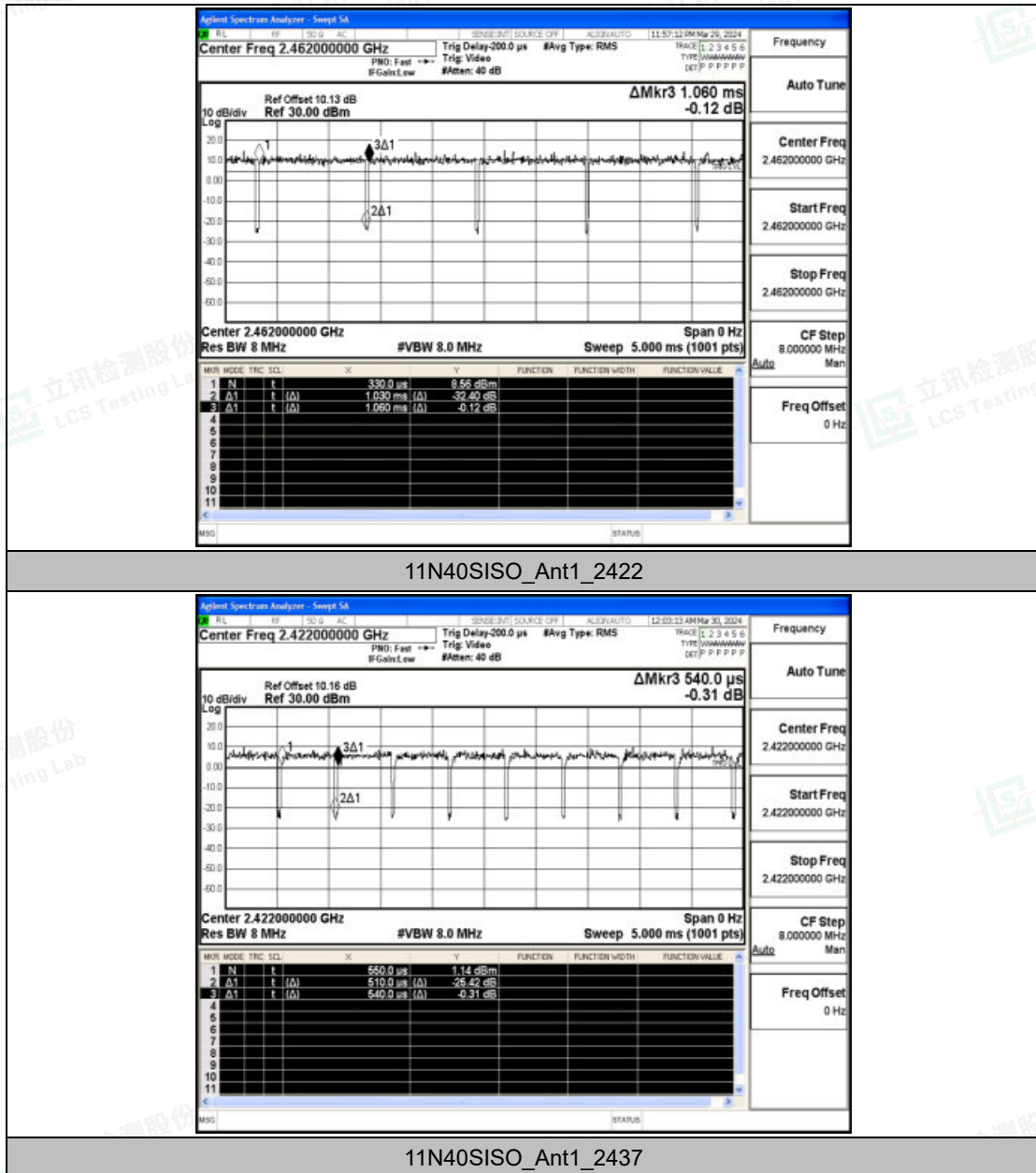


Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

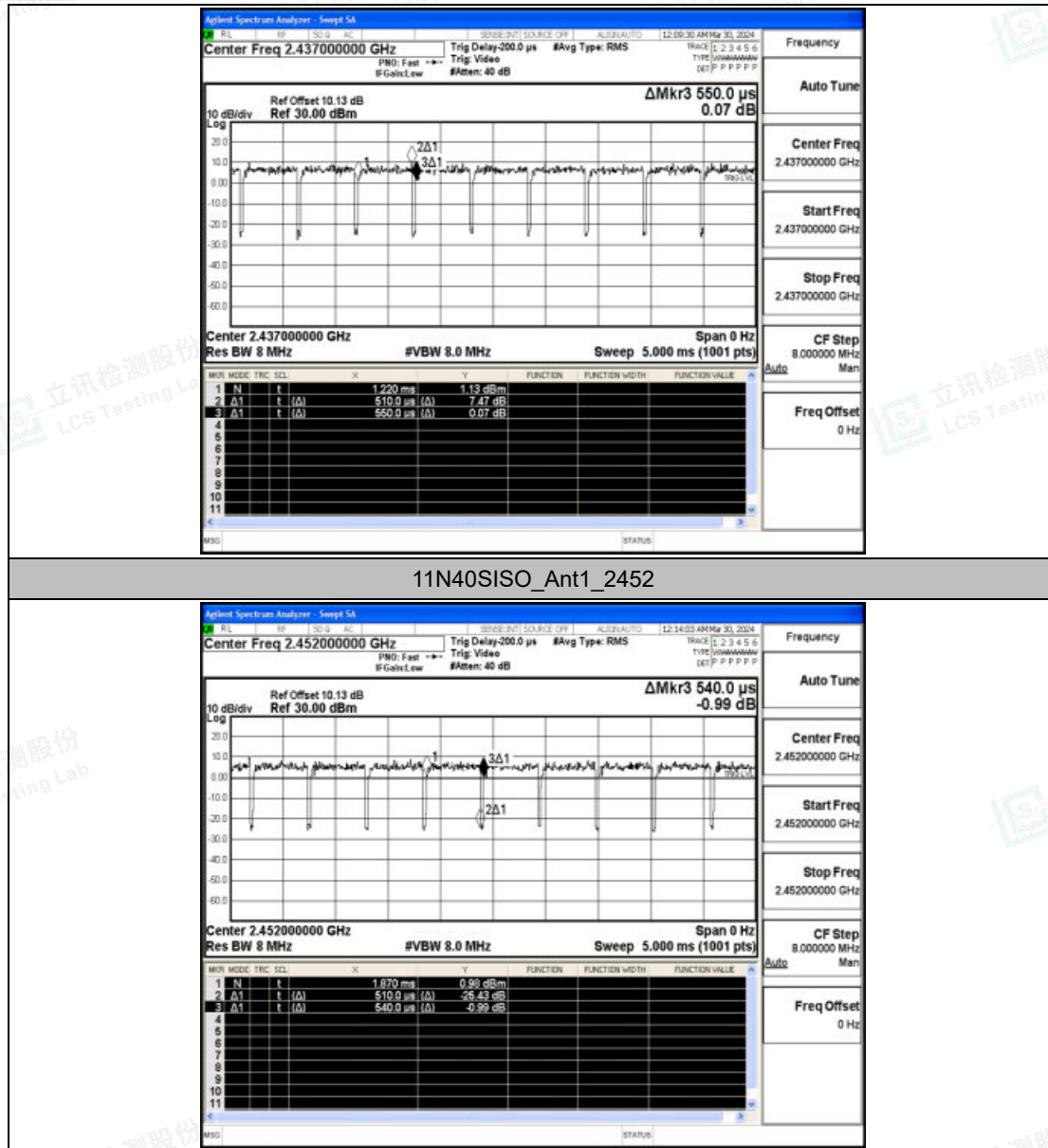


Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



## B.7 Emissions in Restricted Bands

### Test Result

| TestMode      | Antenna | ChName | Freq(MHz) | Detector | Freq [MHz] | Result [dBm] | Limit [dBm] | Result [dBuV/m] | Limit [dBuV/m] | Verdict |
|---------------|---------|--------|-----------|----------|------------|--------------|-------------|-----------------|----------------|---------|
| 11B           | Ant1    | Low    | 2412      | AV       | 2310.000   | -47.87       | ≤-41.20     | 47.33           | ≤54            | PASS    |
|               |         |        |           | AV       | 2384.760   | -46.79       | ≤-41.20     | 48.41           | ≤54            | PASS    |
|               |         |        |           | AV       | 2390.000   | -47.44       | ≤-41.20     | 47.76           | ≤54            | PASS    |
|               |         |        |           | Peak     | 2310.000   | -38.42       | ≤-21.20     | 56.78           | ≤74            | PASS    |
|               |         |        |           | Peak     | 2340.820   | -36.05       | ≤-21.20     | 59.15           | ≤74            | PASS    |
|               |         |        |           | Peak     | 2390.000   | -40.5        | ≤-21.20     | 54.70           | ≤74            | PASS    |
|               |         | High   | 2462      | AV       | 2483.500   | -47.79       | ≤-41.20     | 47.41           | ≤54            | PASS    |
|               |         |        |           | AV       | 2499.070   | -46.39       | ≤-41.20     | 48.81           | ≤54            | PASS    |
|               |         |        |           | AV       | 2500.000   | -47.62       | ≤-41.20     | 47.58           | ≤54            | PASS    |
|               |         |        |           | Peak     | 2483.500   | -39.45       | ≤-21.20     | 55.75           | ≤74            | PASS    |
|               |         |        |           | Peak     | 2497.750   | -36.86       | ≤-21.20     | 58.34           | ≤74            | PASS    |
|               |         |        |           | Peak     | 2500.000   | -39.58       | ≤-21.20     | 55.62           | ≤74            | PASS    |
| 11G           | Ant1    | Low    | 2412      | AV       | 2310.000   | -47.74       | ≤-41.20     | 47.46           | ≤54            | PASS    |
|               |         |        |           | AV       | 2389.310   | -46.47       | ≤-41.20     | 48.73           | ≤54            | PASS    |
|               |         |        |           | AV       | 2390.000   | -46.76       | ≤-41.20     | 48.44           | ≤54            | PASS    |
|               |         |        |           | Peak     | 2310.000   | -40.95       | ≤-21.20     | 54.25           | ≤74            | PASS    |
|               |         |        |           | Peak     | 2389.700   | -36.75       | ≤-21.20     | 58.45           | ≤74            | PASS    |
|               |         |        |           | Peak     | 2390.000   | -38.27       | ≤-21.20     | 56.93           | ≤74            | PASS    |
|               |         | High   | 2462      | AV       | 2483.500   | -45.34       | ≤-41.20     | 49.86           | ≤54            | PASS    |
|               |         |        |           | AV       | 2483.890   | -45.05       | ≤-41.20     | 50.15           | ≤54            | PASS    |
|               |         |        |           | AV       | 2500.000   | -46.78       | ≤-41.20     | 48.42           | ≤54            | PASS    |
|               |         |        |           | Peak     | 2483.500   | -35.66       | ≤-21.20     | 59.54           | ≤74            | PASS    |
|               |         |        |           | Peak     | 2485.210   | -35.29       | ≤-21.20     | 59.91           | ≤74            | PASS    |
|               |         |        |           | Peak     | 2500.000   | -39.4        | ≤-21.20     | 55.80           | ≤74            | PASS    |
| 11N20SI<br>SO | Ant1    | Low    | 2412      | AV       | 2310.000   | -47.92       | ≤-41.20     | 47.28           | ≤54            | PASS    |
|               |         |        |           | AV       | 2376.050   | -46.42       | ≤-41.20     | 48.78           | ≤54            | PASS    |
|               |         |        |           | AV       | 2390.000   | -46.83       | ≤-41.20     | 48.37           | ≤54            | PASS    |
|               |         |        |           | Peak     | 2310.000   | -39.27       | ≤-21.20     | 55.93           | ≤74            | PASS    |
|               |         |        |           | Peak     | 2338.610   | -36.6        | ≤-21.20     | 58.60           | ≤74            | PASS    |
|               |         |        |           | Peak     | 2390.000   | -38.59       | ≤-21.20     | 56.61           | ≤74            | PASS    |
|               |         | High   | 2462      | AV       | 2483.500   | -47.12       | ≤-41.20     | 48.08           | ≤54            | PASS    |
|               |         |        |           | AV       | 2497.860   | -46.28       | ≤-41.20     | 48.92           | ≤54            | PASS    |
|               |         |        |           | AV       | 2500.000   | -47.09       | ≤-41.20     | 48.11           | ≤54            | PASS    |
|               |         |        |           | Peak     | 2483.500   | -39.1        | ≤-21.20     | 56.10           | ≤74            | PASS    |
|               |         |        |           | Peak     | 2483.890   | -35.86       | ≤-21.20     | 59.34           | ≤74            | PASS    |



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



|               |      |      |      |      |          |        |               |       |           |      |
|---------------|------|------|------|------|----------|--------|---------------|-------|-----------|------|
| 11N40SI<br>SO | Ant1 | Low  | 2422 | Peak | 2500.000 | -40.28 | $\leq -21.20$ | 54.92 | $\leq 74$ | PASS |
|               |      |      |      | AV   | 2310.000 | -47.53 | $\leq -41.20$ | 47.67 | $\leq 54$ | PASS |
|               |      |      |      | AV   | 2389.180 | -46.03 | $\leq -41.20$ | 49.17 | $\leq 54$ | PASS |
|               |      |      |      | AV   | 2390.000 | -46.55 | $\leq -41.20$ | 48.65 | $\leq 54$ | PASS |
|               |      |      |      | Peak | 2310.000 | -41.34 | $\leq -21.20$ | 53.86 | $\leq 74$ | PASS |
|               |      |      |      | Peak | 2382.680 | -36.94 | $\leq -21.20$ | 58.26 | $\leq 74$ | PASS |
|               |      | High | 2452 | Peak | 2390.000 | -39.59 | $\leq -21.20$ | 55.61 | $\leq 74$ | PASS |
|               |      |      |      | AV   | 2483.500 | -46.58 | $\leq -41.20$ | 48.62 | $\leq 54$ | PASS |
|               |      |      |      | AV   | 2485.210 | -46.04 | $\leq -41.20$ | 49.16 | $\leq 54$ | PASS |
|               |      |      |      | AV   | 2500.000 | -47.09 | $\leq -41.20$ | 48.11 | $\leq 54$ | PASS |
|               |      |      |      | Peak | 2483.500 | -38.54 | $\leq -21.20$ | 56.66 | $\leq 74$ | PASS |
|               |      |      |      | Peak | 2492.250 | -36.21 | $\leq -21.20$ | 58.99 | $\leq 74$ | PASS |
|               |      |      |      | Peak | 2500.000 | -40.48 | $\leq -21.20$ | 54.72 | $\leq 74$ | PASS |

## Note:

1. The Antenna Gain is compensated in the graph. The Correction Factor is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

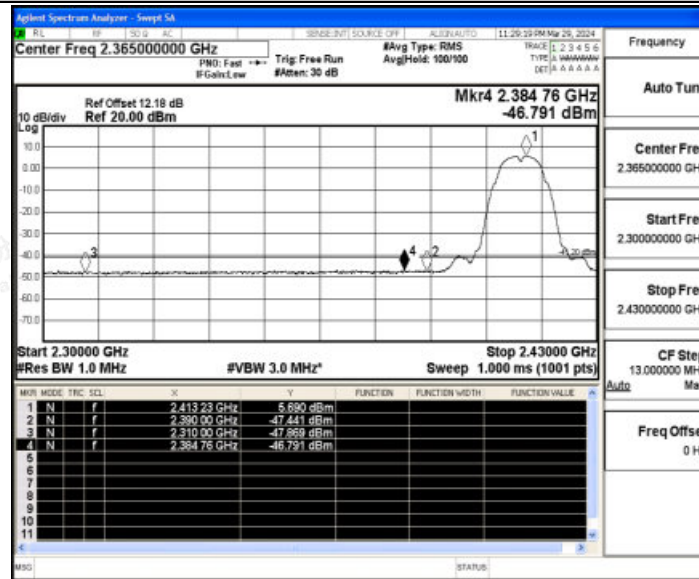
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

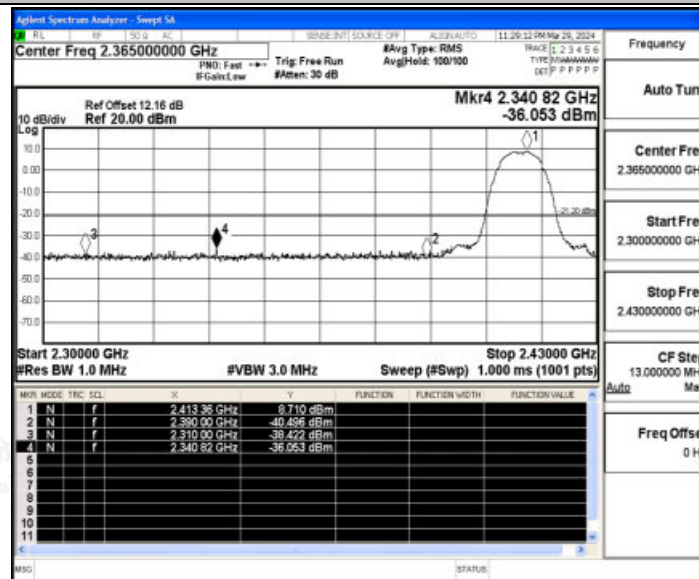


## Test Graphs

11B\_Ant1\_Low\_2412\_AV



11B\_Ant1\_Low\_2412\_Peak



11B\_Ant1\_High\_2462\_AV

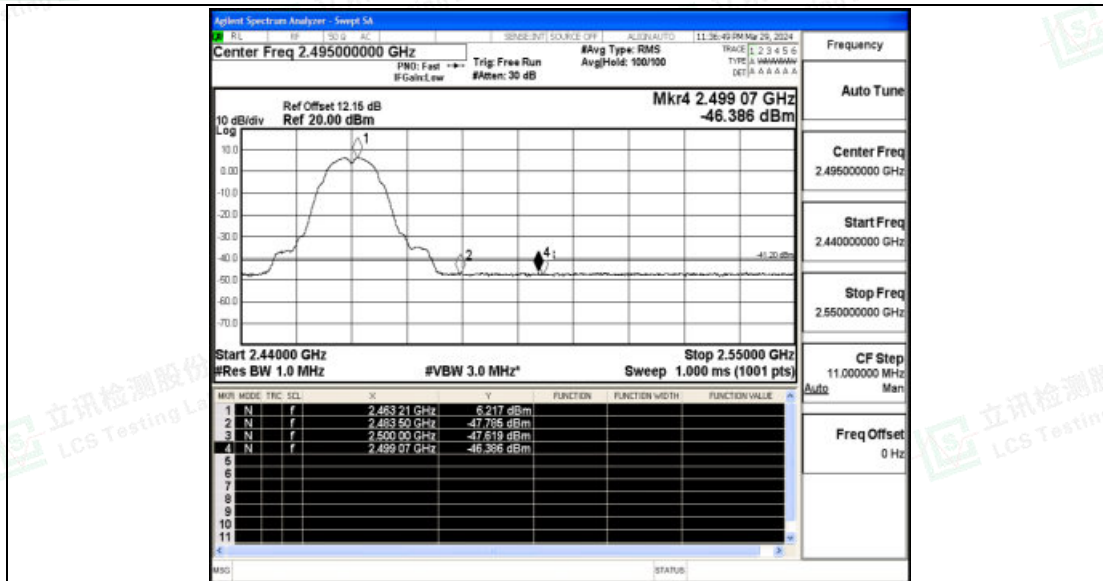


Shenzhen LCS Compliance Testing Laboratory Ltd.

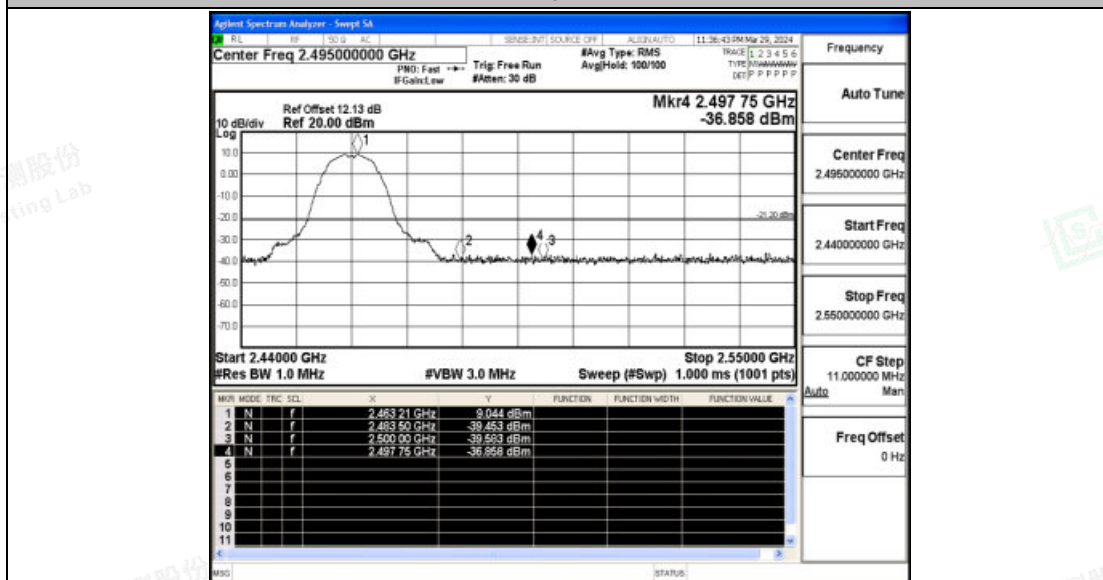
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11B\_Ant1\_High\_2462\_Peak



11G\_Ant1\_Low\_2412\_AV

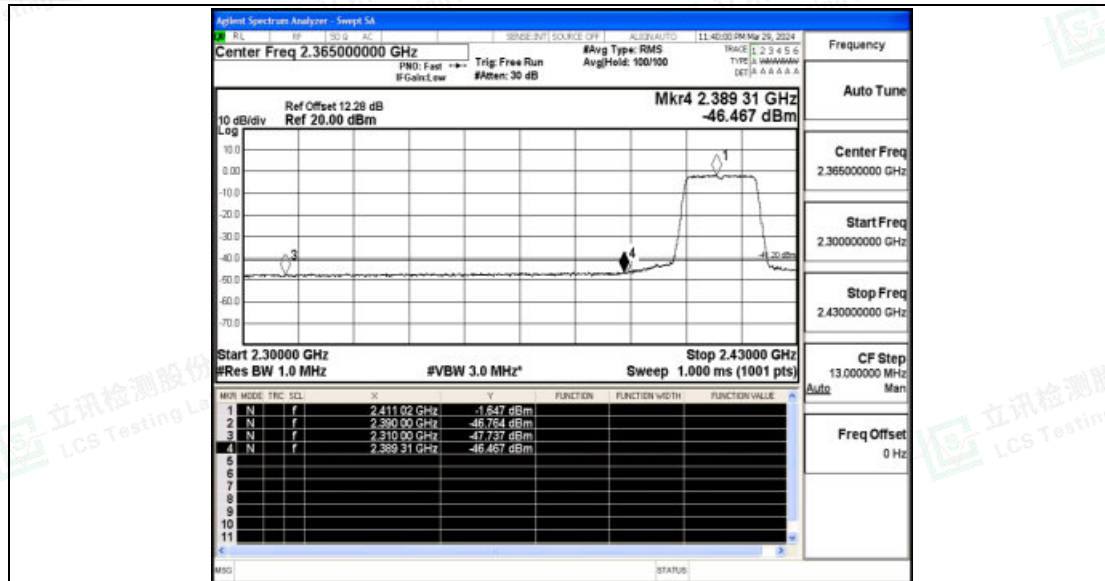


Shenzhen LCS Compliance Testing Laboratory Ltd.

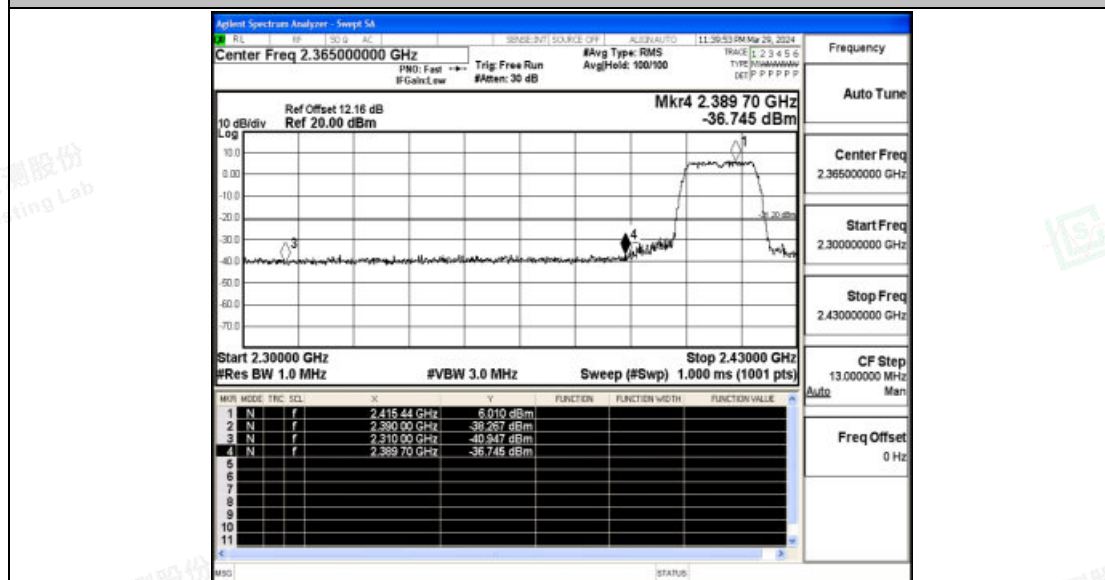
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11G\_Ant1\_Low\_2412\_Peak



11G\_Ant1\_High\_2462\_AV

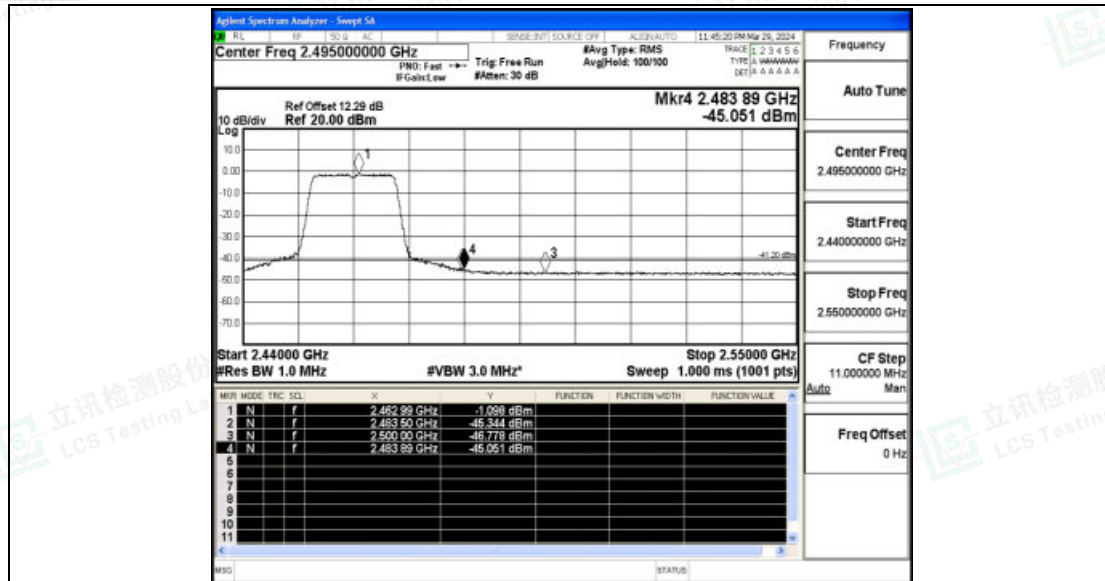


Shenzhen LCS Compliance Testing Laboratory Ltd.

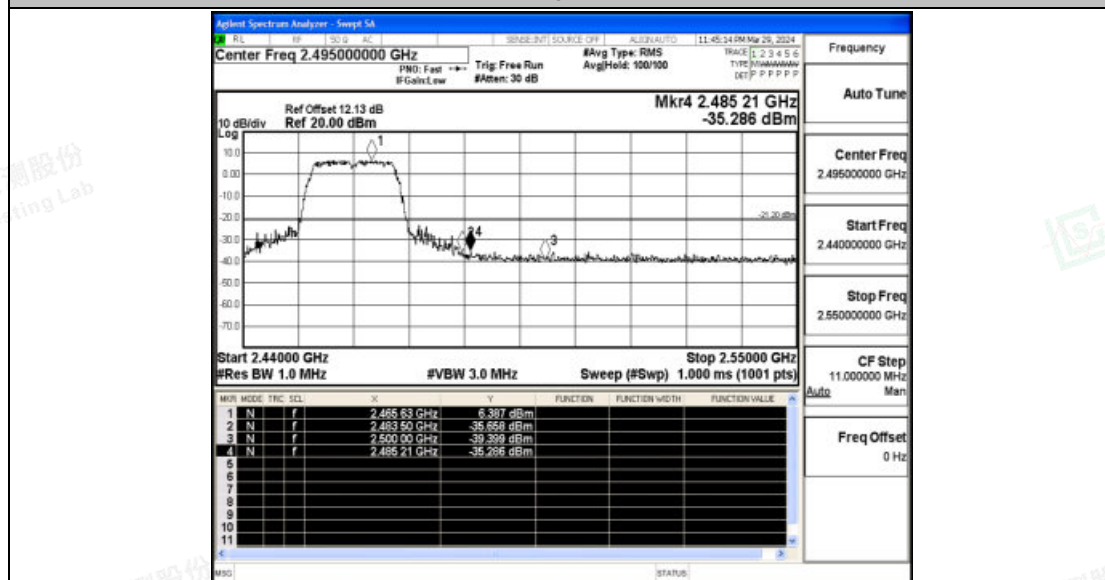
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11G\_Ant1\_High\_2462\_Peak



11N20SISO\_Ant1\_Low\_2412\_AV

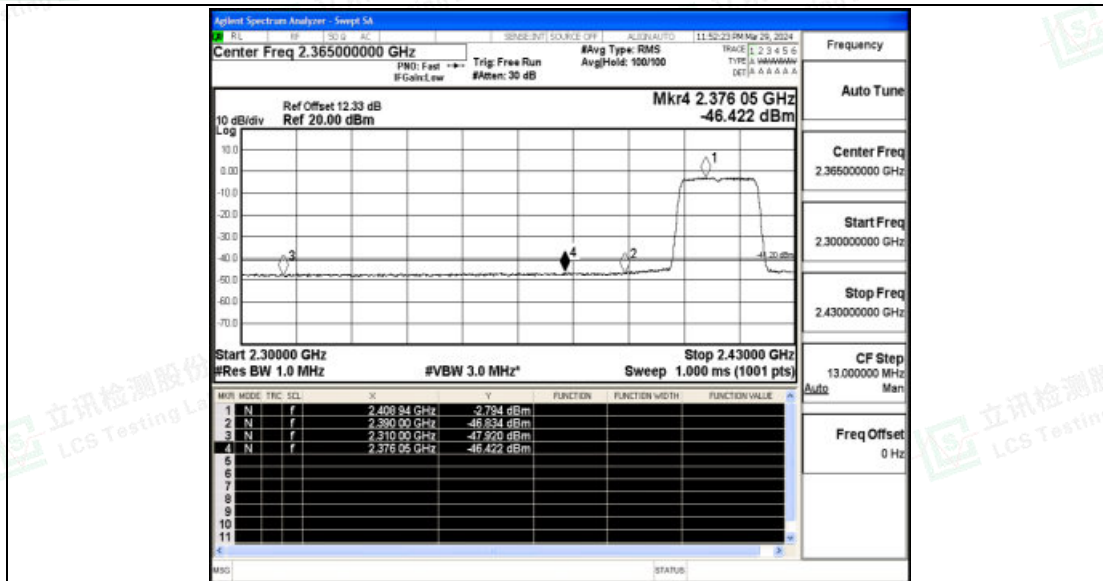


Shenzhen LCS Compliance Testing Laboratory Ltd.

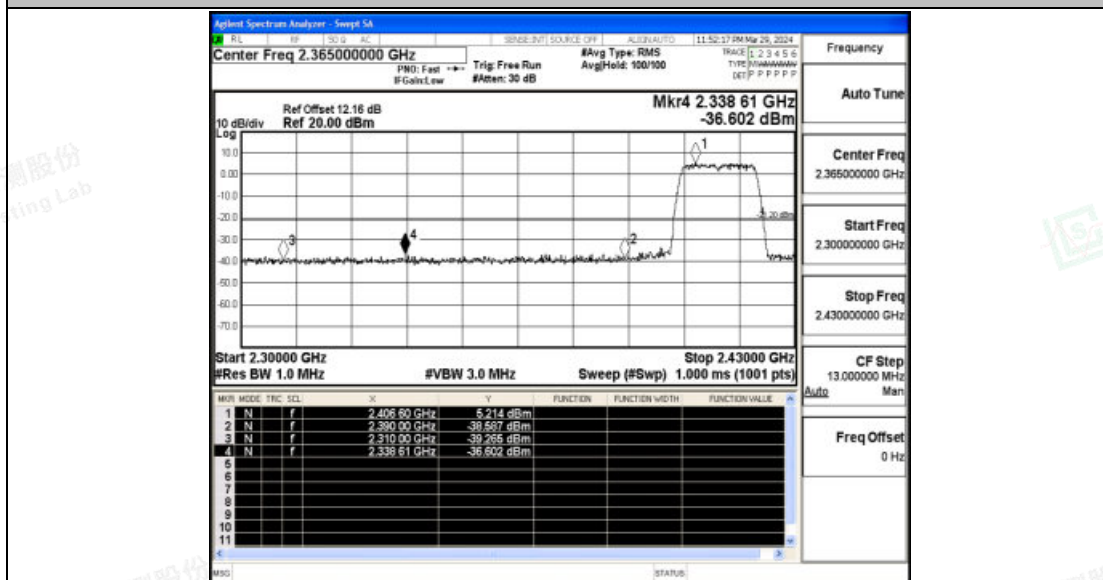
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11N20SISO\_Ant1\_Low\_2412\_Peak



11N20SISO\_Ant1\_High\_2462\_AV

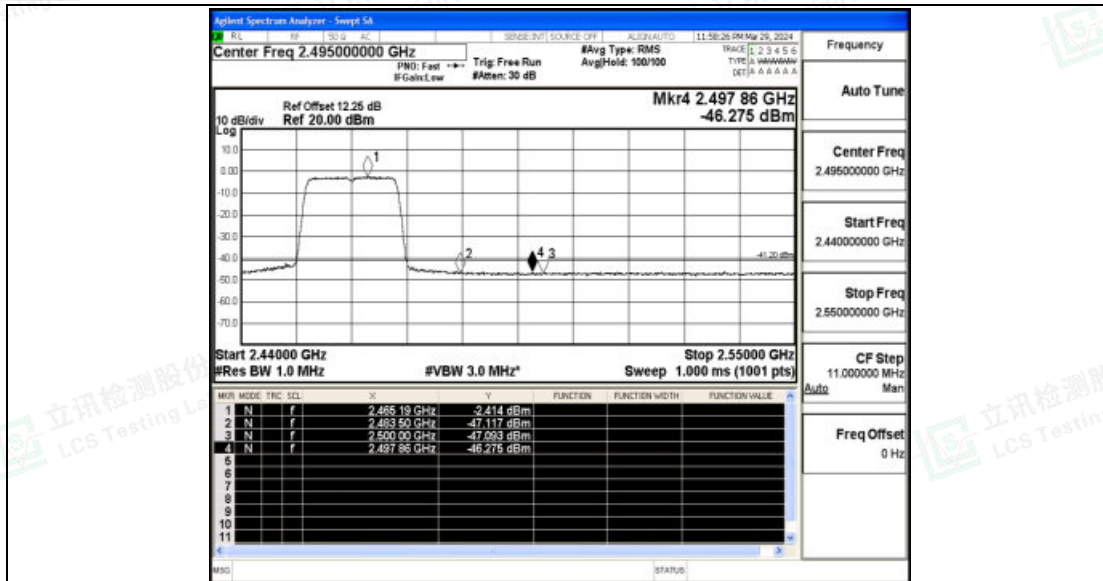


Shenzhen LCS Compliance Testing Laboratory Ltd.

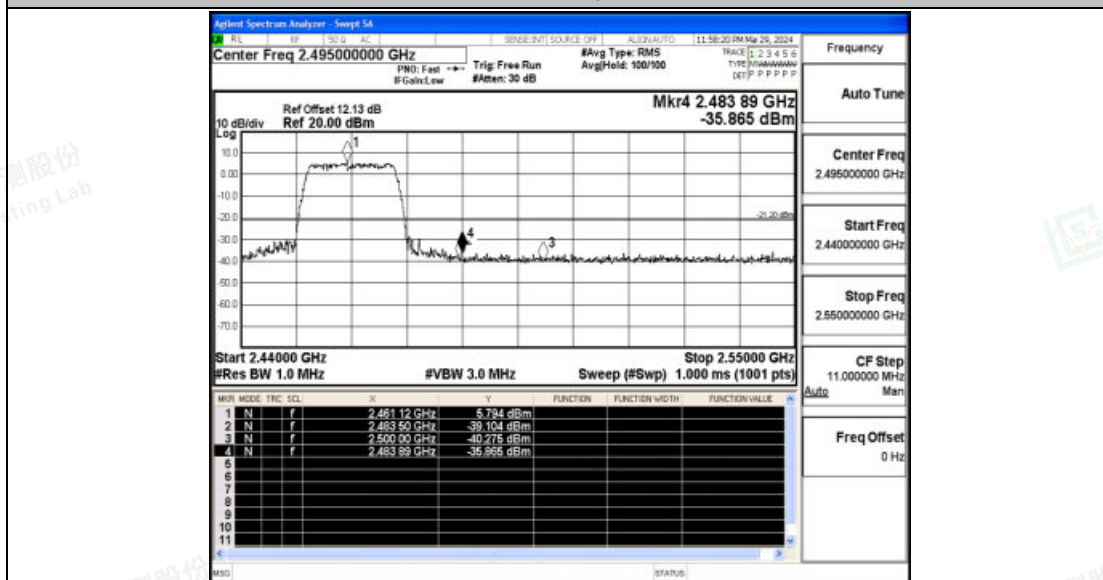
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11N20SISO\_Ant1\_High\_2462\_Peak



11N40SISO\_Ant1\_Low\_2422\_AV

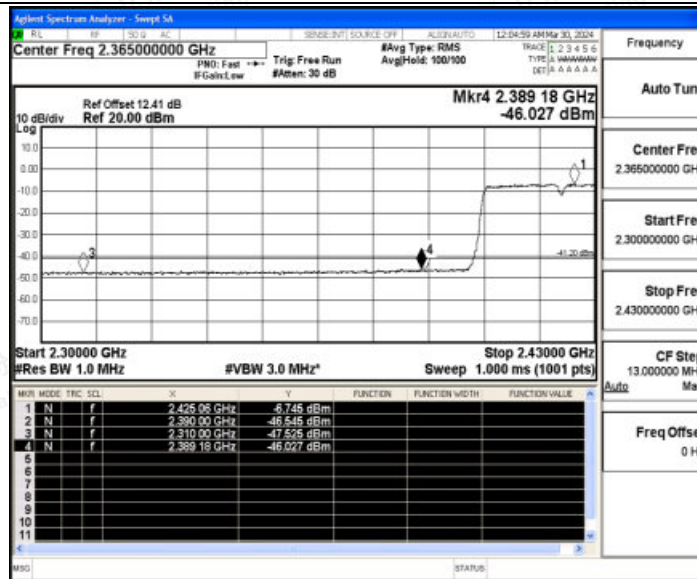


Shenzhen LCS Compliance Testing Laboratory Ltd.

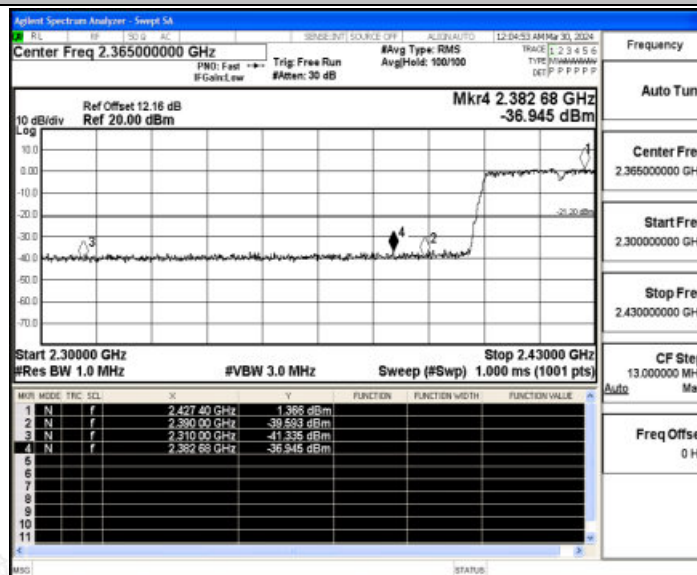
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11N40SISO\_Ant1\_Low\_2422\_Peak



11N40SISO\_Ant1\_High\_2452\_AV

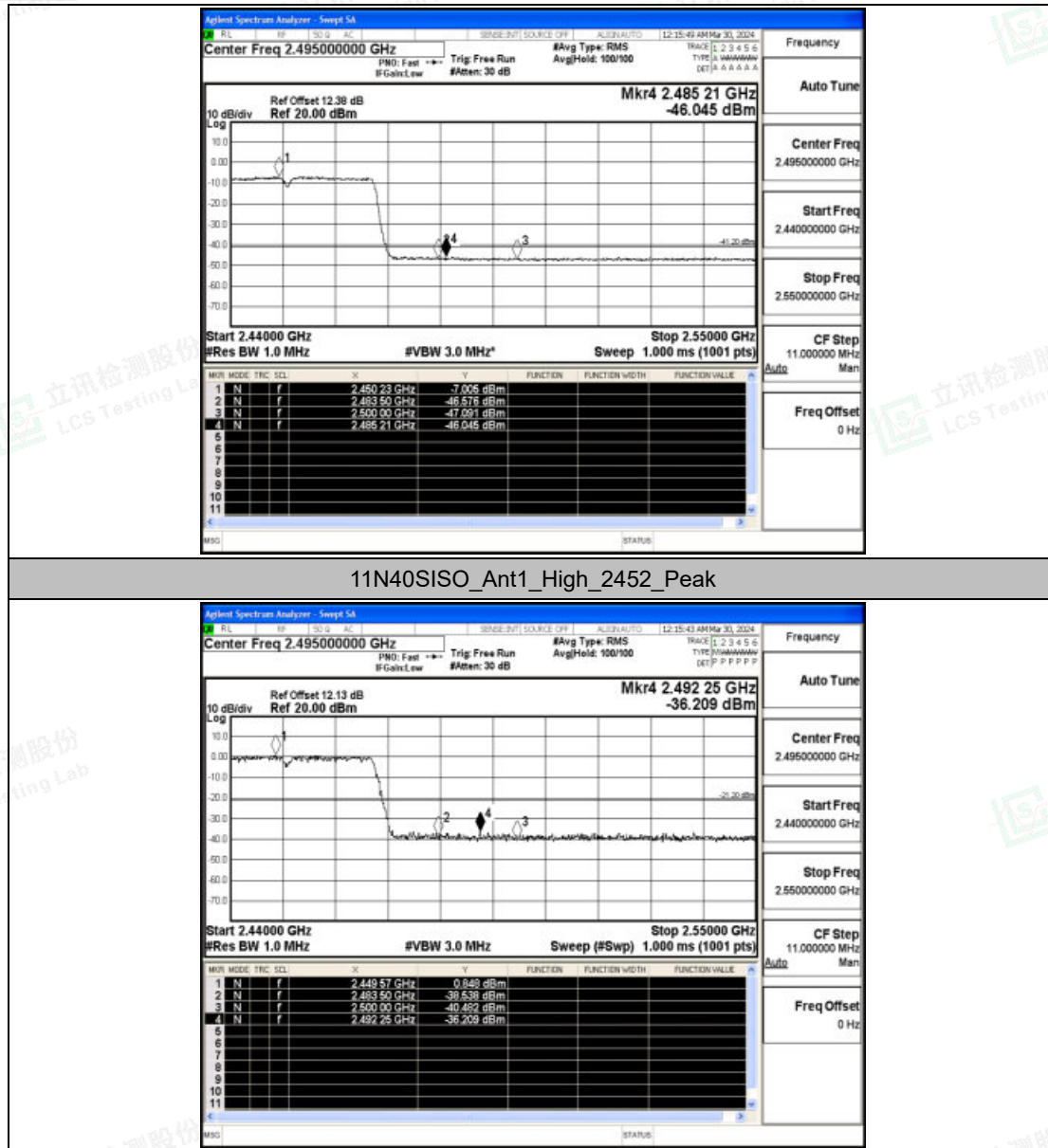


Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity