



## Appendix B

### RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: WirelessCam Lite

Test Model: C6L

#### Environmental Conditions

|                    |                               |
|--------------------|-------------------------------|
| Temperature:       | 23.5° C                       |
| Relative Humidity: | 52.2%                         |
| ATM Pressure:      | 100.0 kPa                     |
| Test Engineer:     | <i>Taylor Hu</i><br>Taylor Hu |
| Supervised by:     | <i>Li Huan</i><br>Li Huan     |





### B.1 DTS Bandwidth

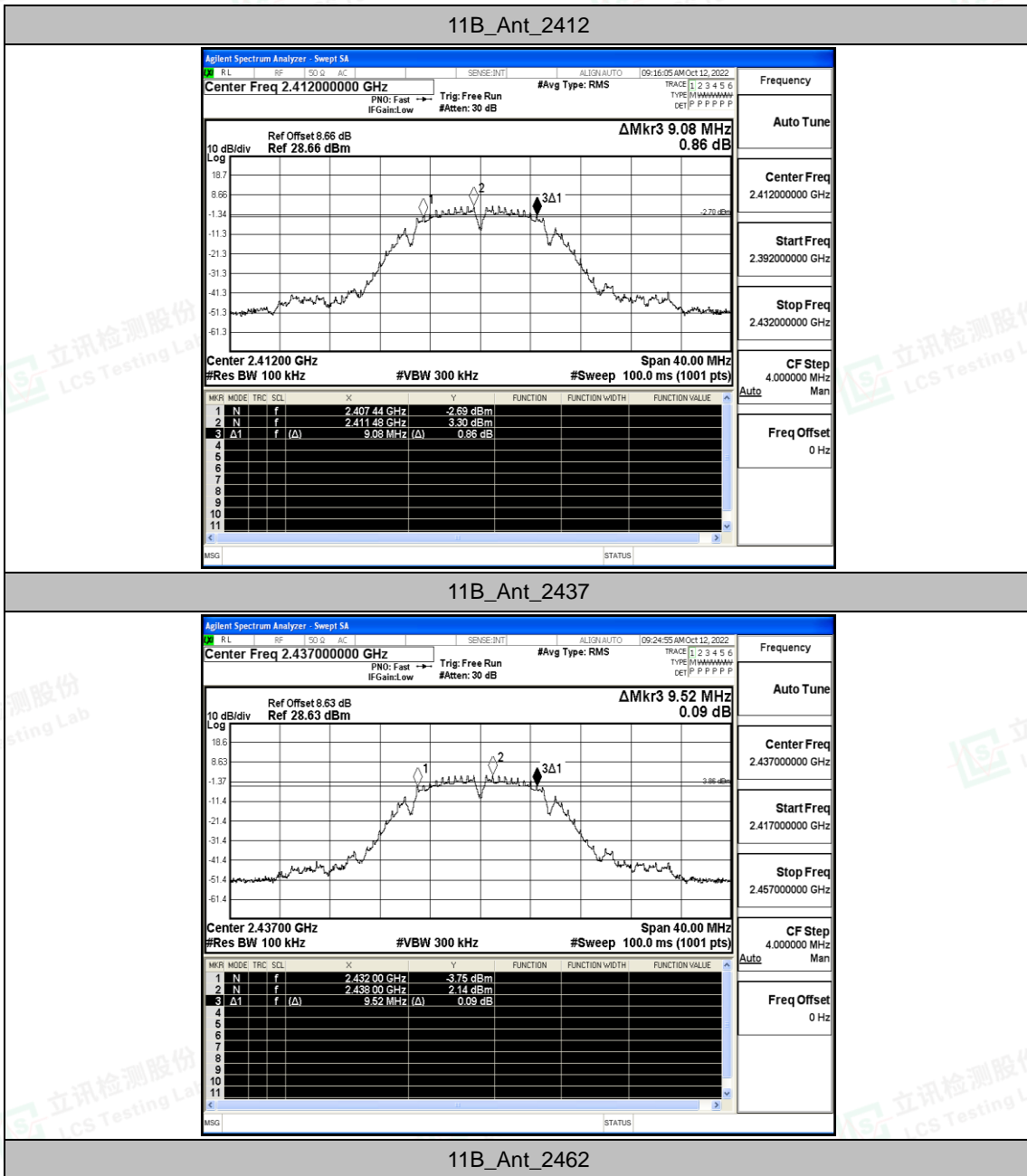
#### Test Result

| TestMode  | Antenna | Freq(MHz) | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|-----------|--------------|----------|----------|------------|---------|
| 11B       | Ant     | 2412      | 9.080        | 2407.440 | 2416.520 | 0.5        | PASS    |
|           |         | 2437      | 9.520        | 2432.000 | 2441.520 | 0.5        | PASS    |
|           |         | 2462      | 9.080        | 2457.440 | 2466.520 | 0.5        | PASS    |
| 11G       | Ant     | 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 | Ant     | 2412      | 17.560       | 2403.200 | 2420.760 | 0.5        | PASS    |
|           |         | 2437      | 17.560       | 2428.200 | 2445.760 | 0.5        | PASS    |
|           |         | 2462      | 17.560       | 2453.200 | 2470.760 | 0.5        | PASS    |





### Test Graphs

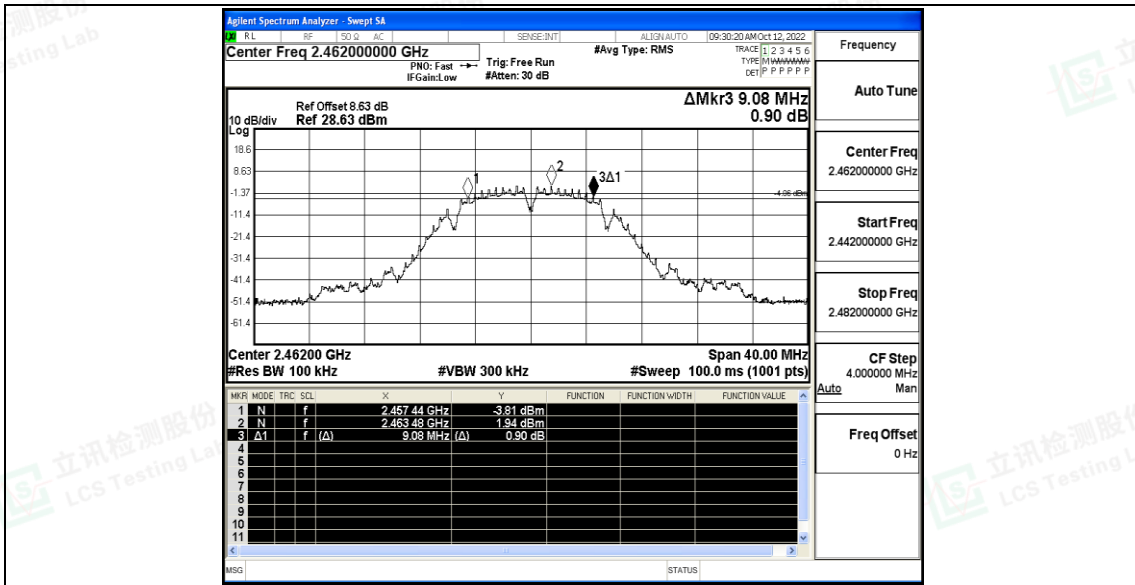


Shenzhen LCS Compliance Testing Laboratory Ltd.

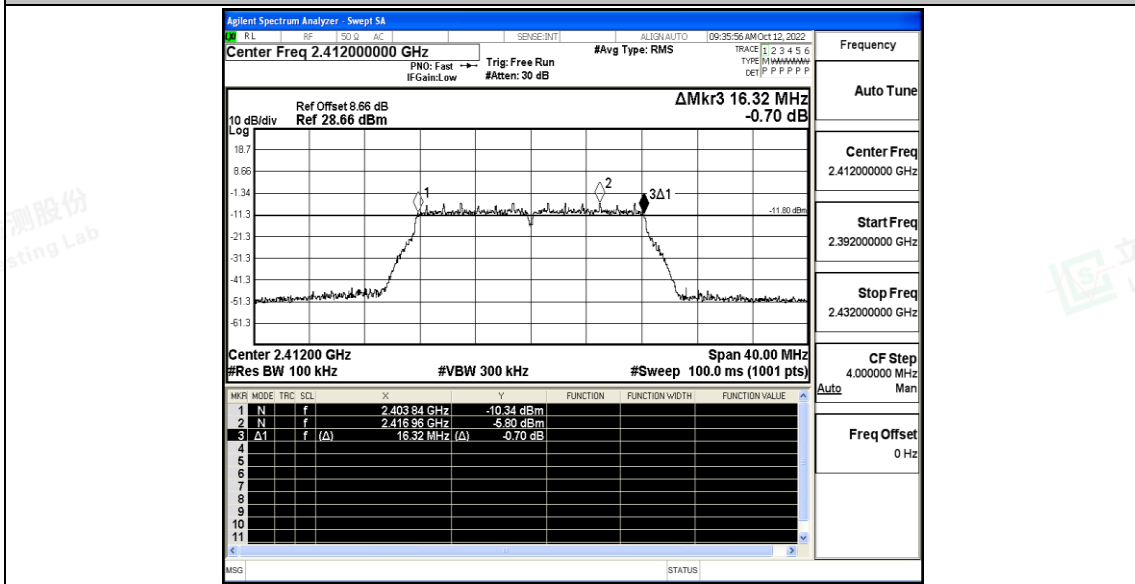
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

Scan code to check authenticity



11G\_Ant\_2412



11G\_Ant\_2437

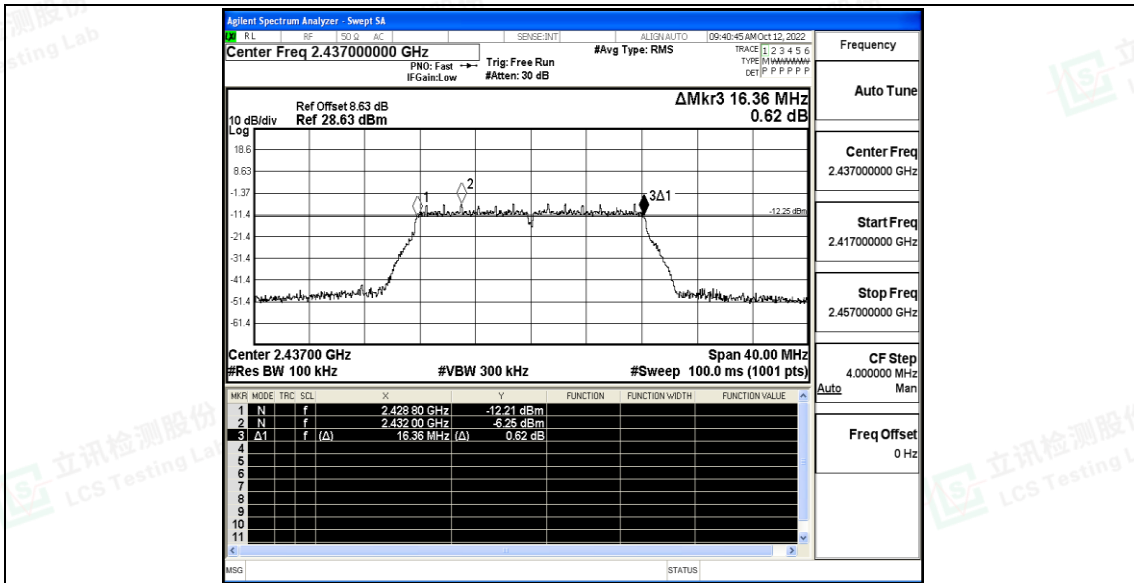


Shenzhen LCS Compliance Testing Laboratory Ltd.

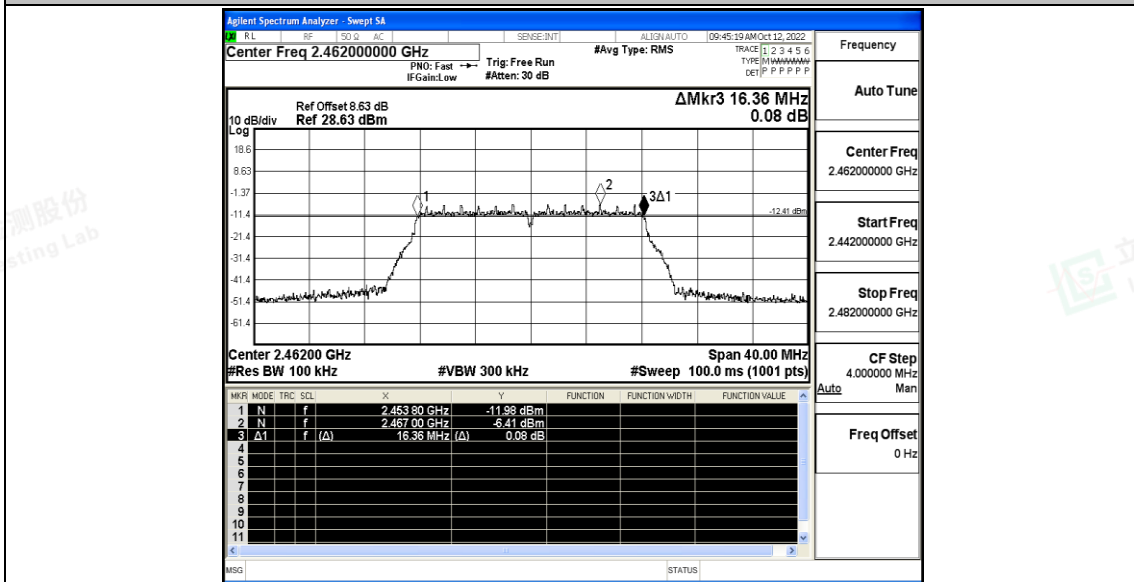
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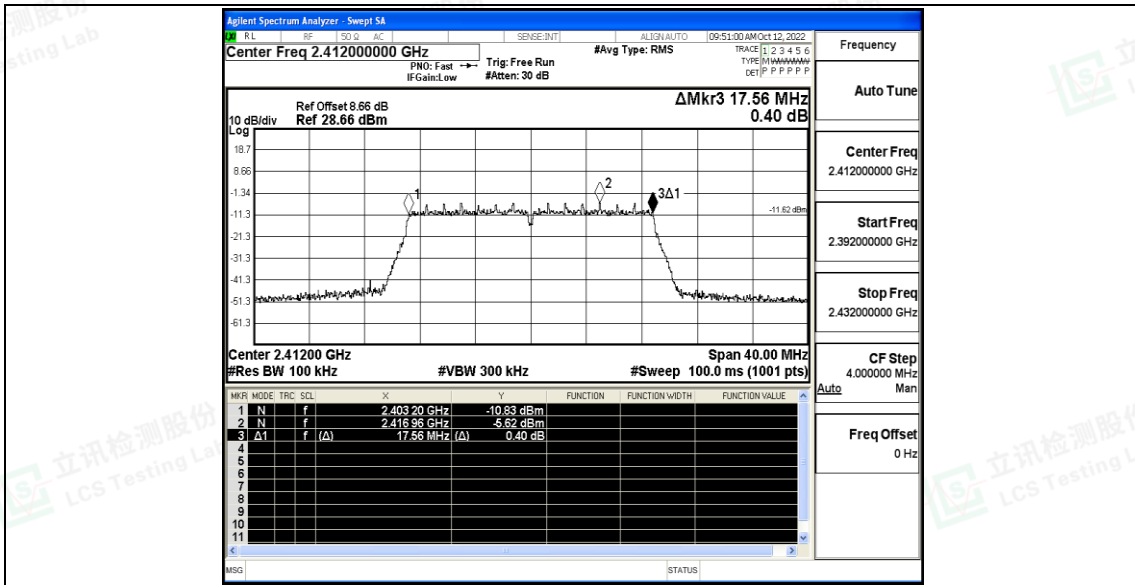


11G\_Ant\_2462

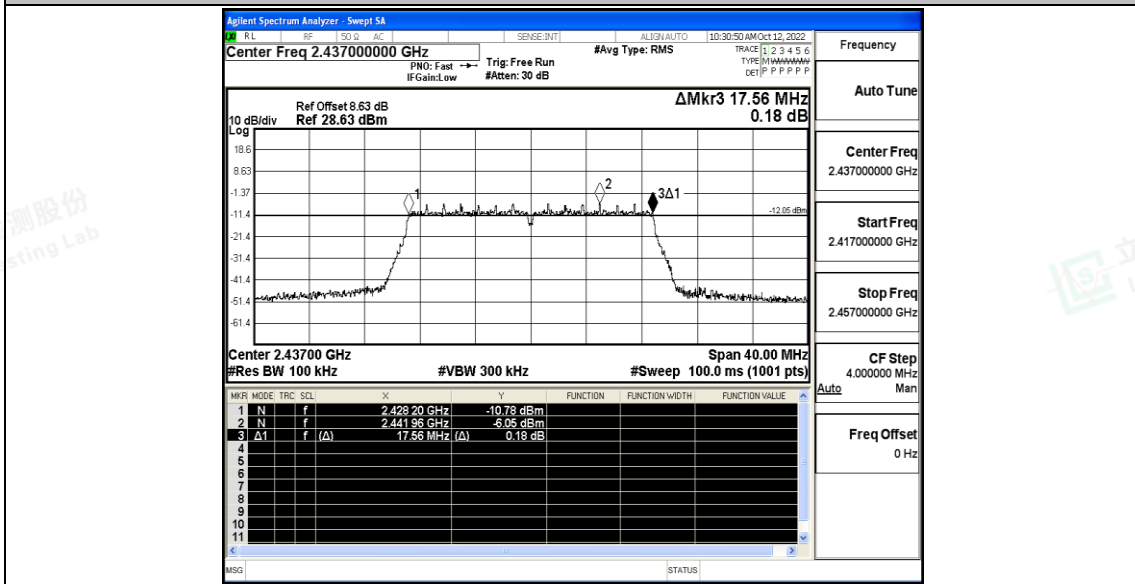


11N20SISO\_Ant\_2412





11N20SISO\_Ant\_2437



11N20SISO\_Ant\_2462

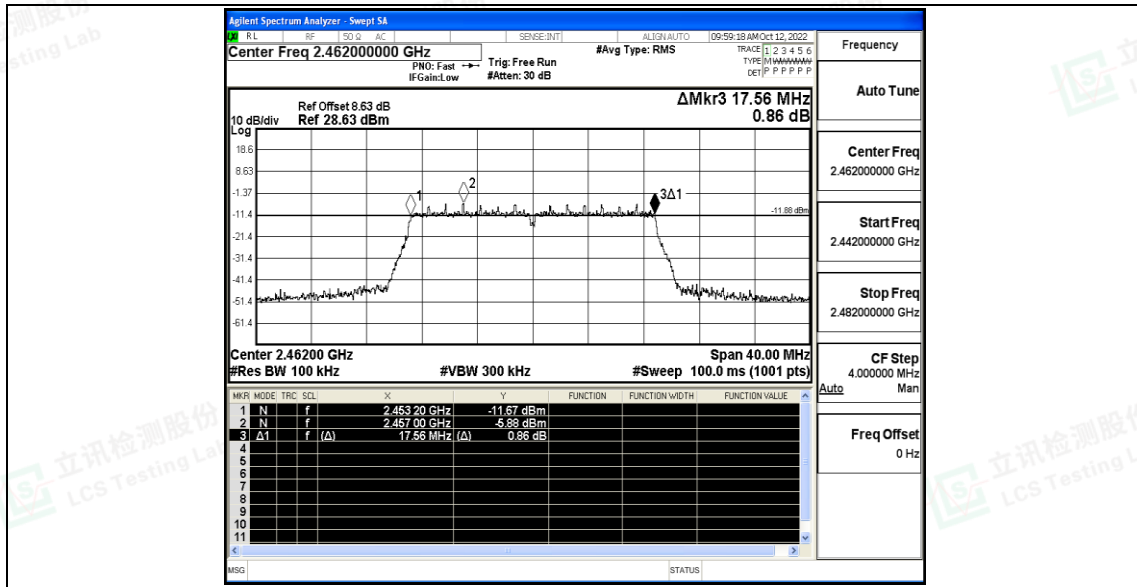


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## B.2 Occupied Channel Bandwidth

### Test Result

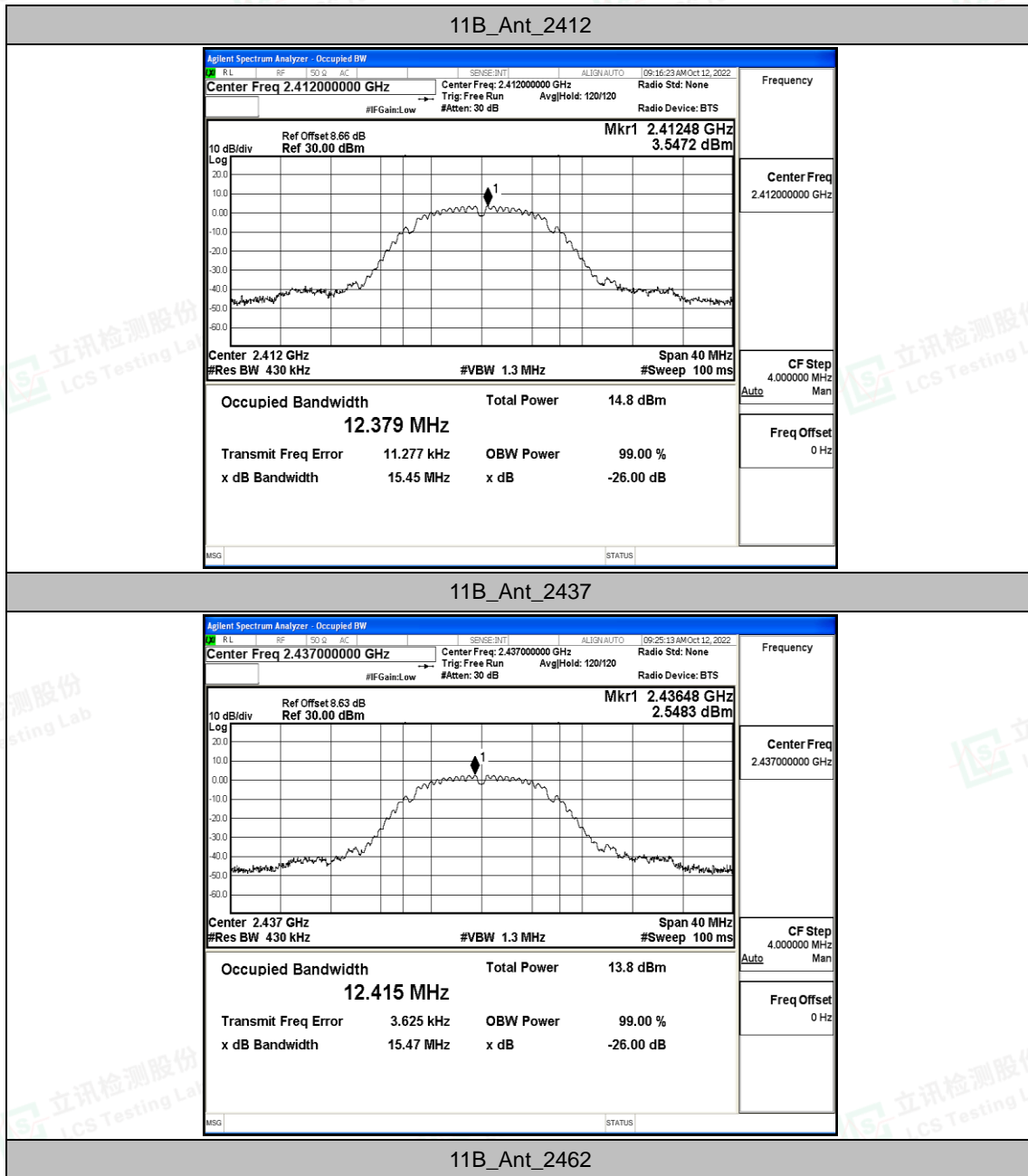
| TestMode  | Antenna | Freq(MHz) | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|-----------|-----------|-----------|-----------|------------|---------|
| 11B       | Ant     | 2412      | 12.379    | 2405.8218 | 2418.2008 | ---        | PASS    |
|           |         | 2437      | 12.415    | 2430.7961 | 2443.2111 | ---        | PASS    |
|           |         | 2462      | 12.485    | 2455.7694 | 2468.2544 | ---        | PASS    |
| 11G       | Ant     | 2412      | 16.964    | 2403.5285 | 2420.4925 | ---        | PASS    |
|           |         | 2437      | 17.028    | 2428.4616 | 2445.4896 | ---        | PASS    |
|           |         | 2462      | 17.028    | 2453.4852 | 2470.5132 | ---        | PASS    |
| 11N20SISO | Ant     | 2412      | 17.942    | 2403.0086 | 2420.9506 | ---        | PASS    |
|           |         | 2437      | 17.905    | 2428.0317 | 2445.9367 | ---        | PASS    |
|           |         | 2462      | 17.955    | 2453.0180 | 2470.9730 | ---        | PASS    |







### Test Graphs

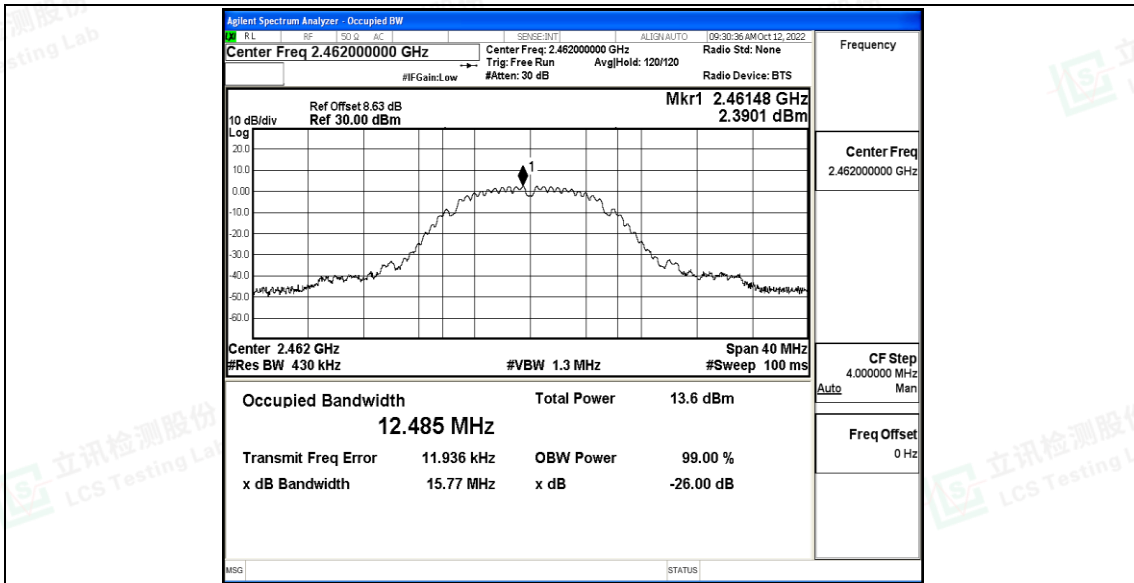


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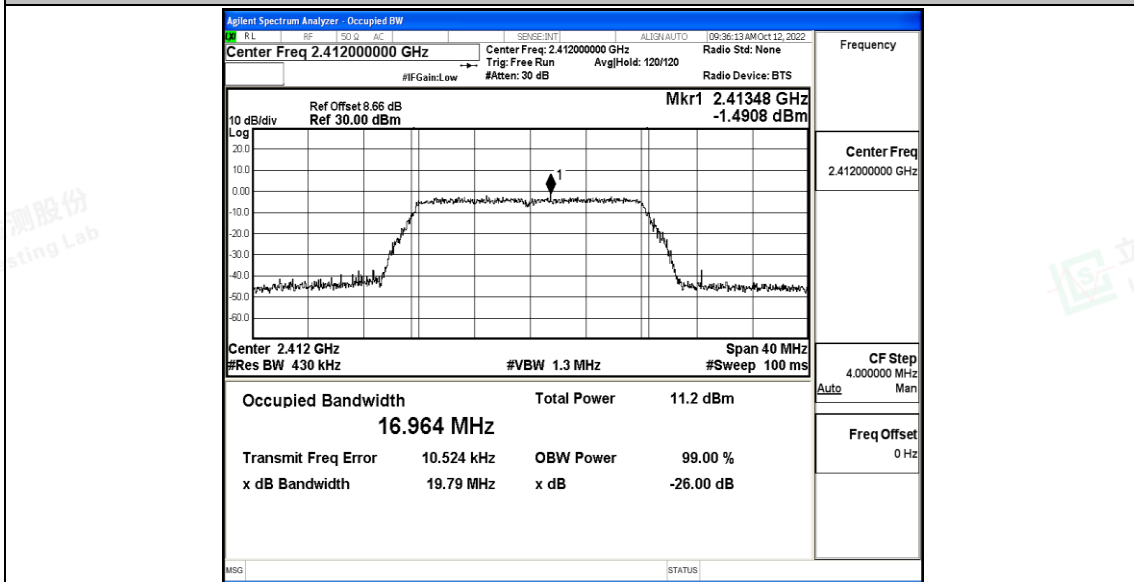
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11G\_Ant\_2412



11G\_Ant\_2437

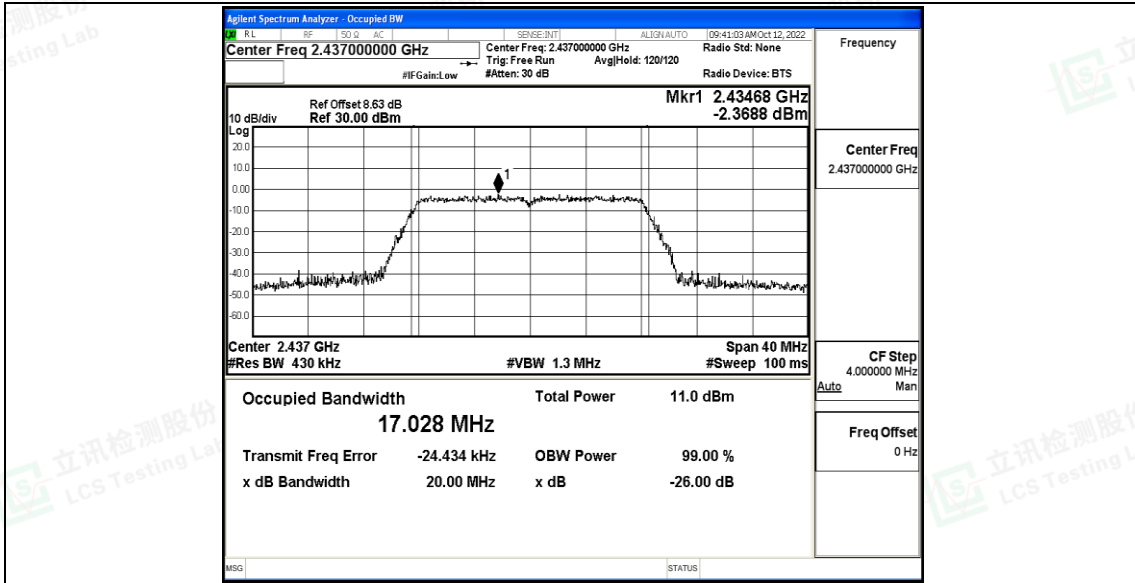


Shenzhen LCS Compliance Testing Laboratory Ltd.

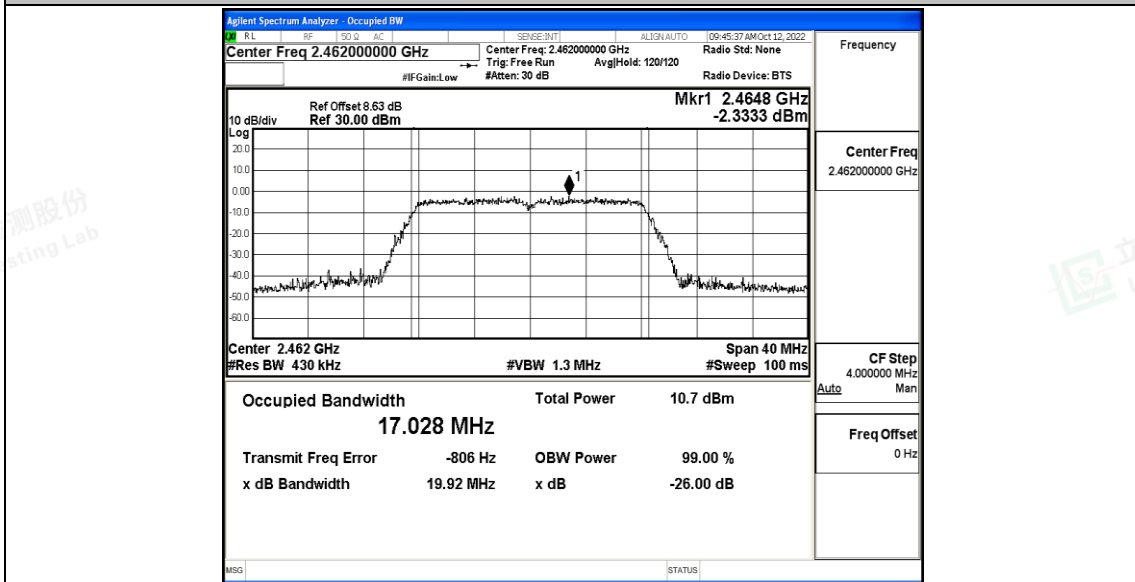
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11G\_Ant\_2462



11N20SISO\_Ant\_2412

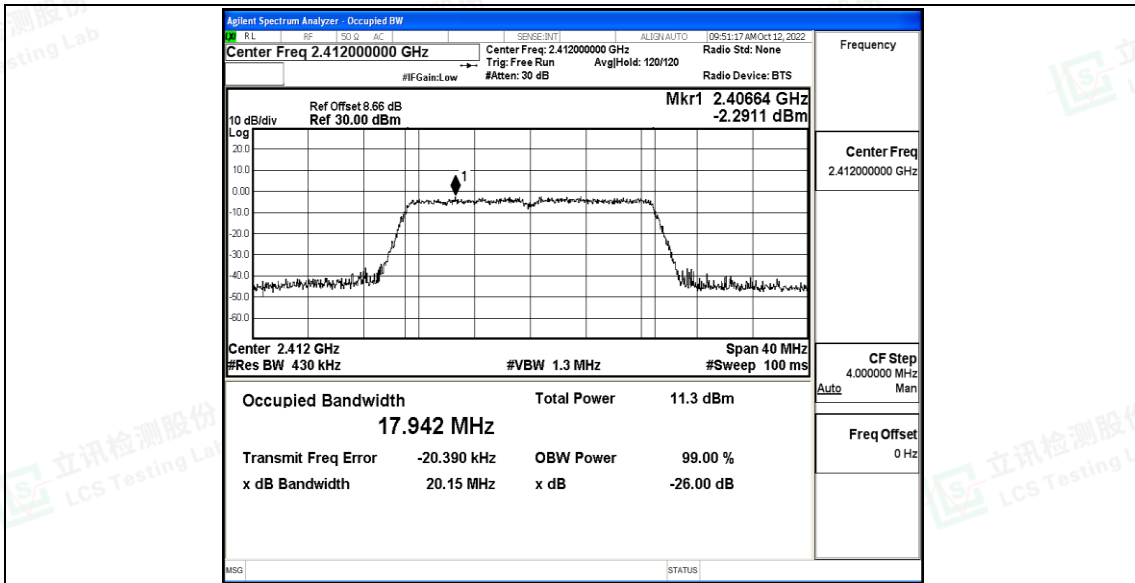


Shenzhen LCS Compliance Testing Laboratory Ltd.

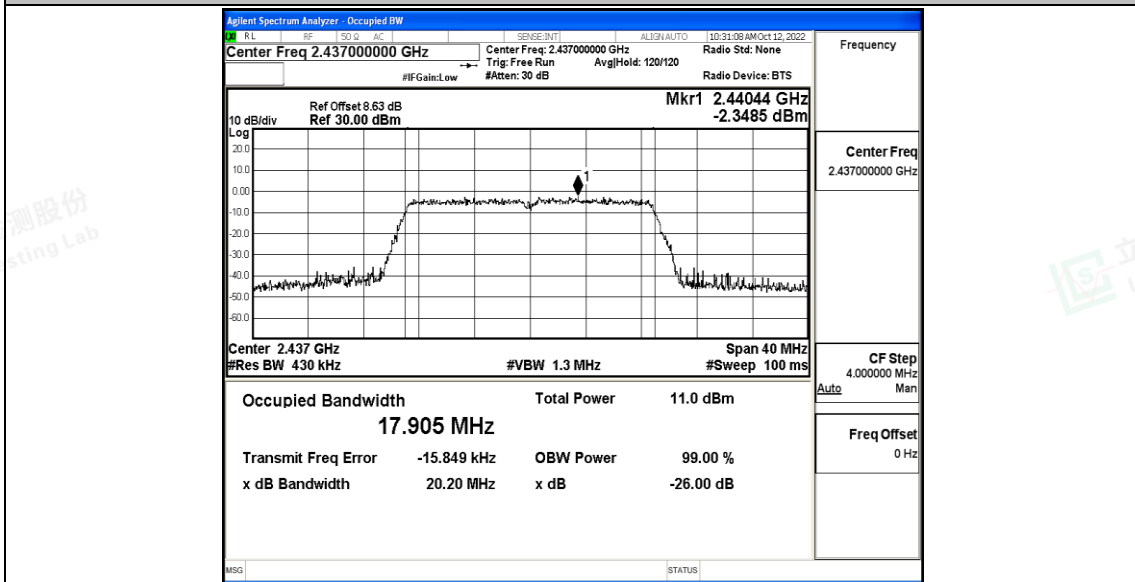
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11N20SISO\_Ant\_2437



11N20SISO\_Ant\_2462

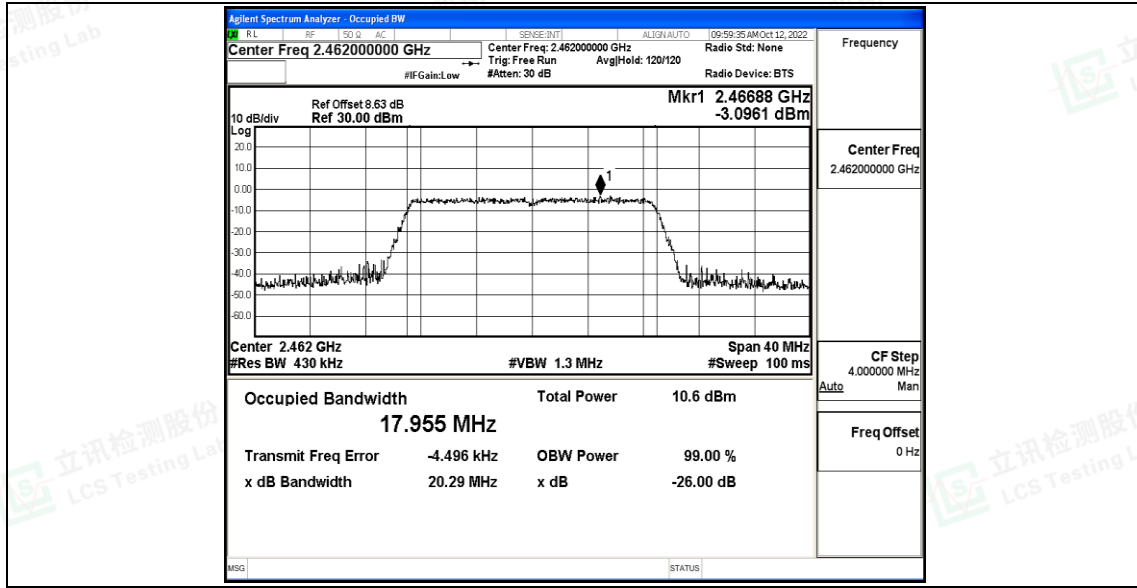


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### B.3 Maximum conducted output power

#### Test Result

| TestMode  | Antenna | Freq(MHz) | Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------|------------|----------------------|---------|
| 11B       | Ant     | 2412      | 15.01      | ≤30.00               | PASS    |
|           |         | 2437      | 14.05      | ≤30.00               | PASS    |
|           |         | 2462      | 13.91      | ≤30.00               | PASS    |
| 11G       | Ant     | 2412      | 13.88      | ≤30.00               | PASS    |
|           |         | 2437      | 13.40      | ≤30.00               | PASS    |
|           |         | 2462      | 13.20      | ≤30.00               | PASS    |
| 11N20SISO | Ant     | 2412      | 13.87      | ≤30.00               | PASS    |
|           |         | 2437      | 13.58      | ≤30.00               | PASS    |
|           |         | 2462      | 13.14      | ≤30.00               | PASS    |





### B.4 Maximum power spectral density

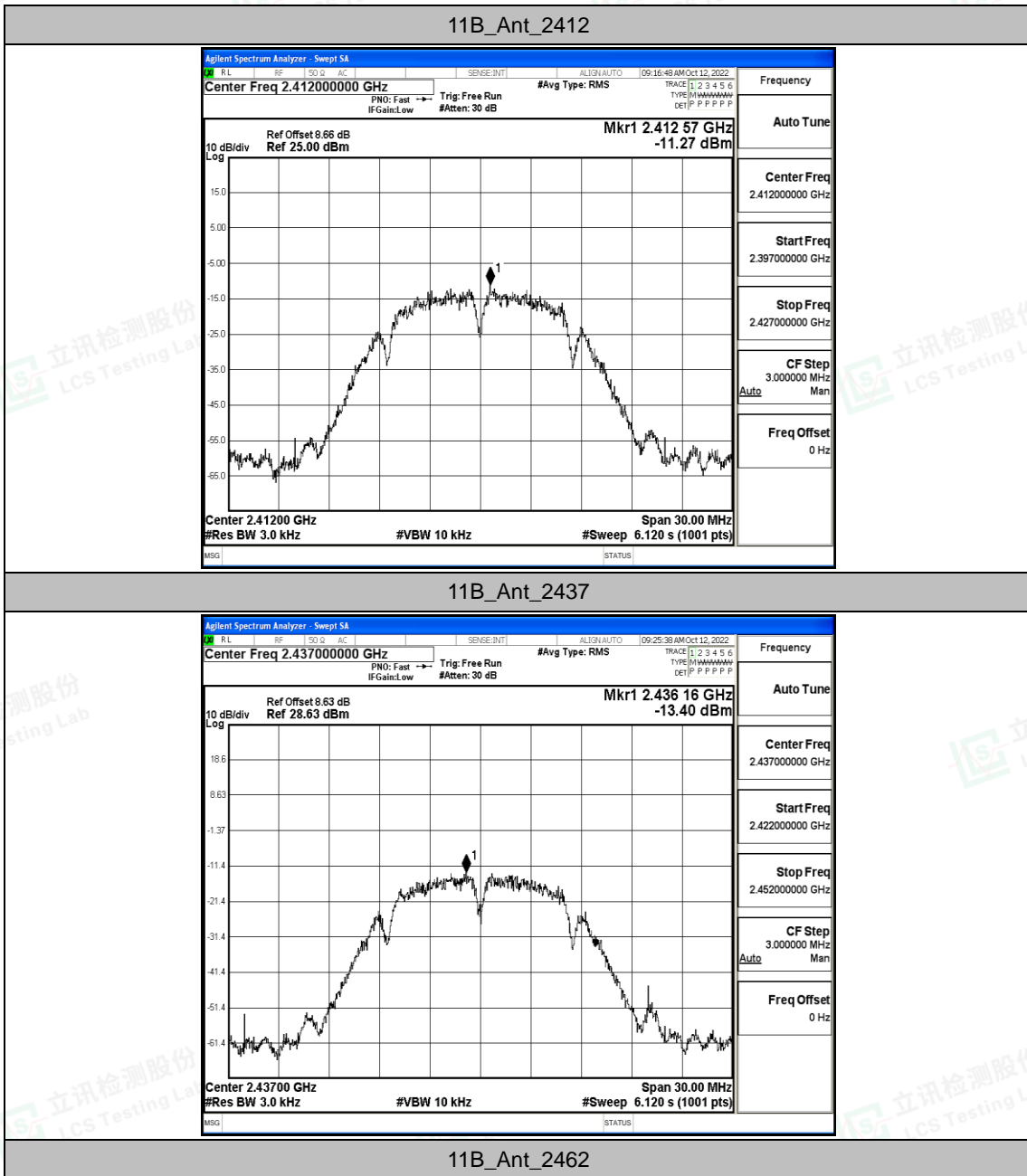
#### Test Result

| TestMode  | Antenna | Freq(MHz) | Result [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |
|-----------|---------|-----------|-------------------|------------------|---------|
| 11B       | Ant     | 2412      | -11.27            | ≤8.00            | PASS    |
|           |         | 2437      | -13.4             | ≤8.00            | PASS    |
|           |         | 2462      | -12.44            | ≤8.00            | PASS    |
| 11G       | Ant     | 2412      | -19.65            | ≤8.00            | PASS    |
|           |         | 2437      | -19.76            | ≤8.00            | PASS    |
|           |         | 2462      | -20.36            | ≤8.00            | PASS    |
| 11N20SISO | Ant     | 2412      | -19.35            | ≤8.00            | PASS    |
|           |         | 2437      | -20.4             | ≤8.00            | PASS    |
|           |         | 2462      | -20.6             | ≤8.00            | PASS    |





### Test Graphs



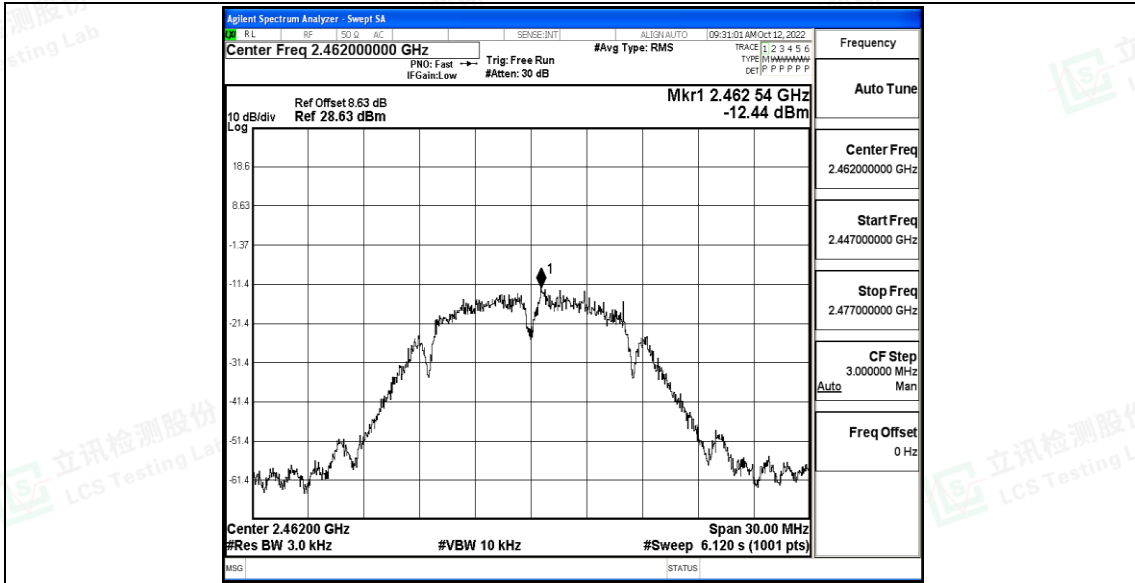
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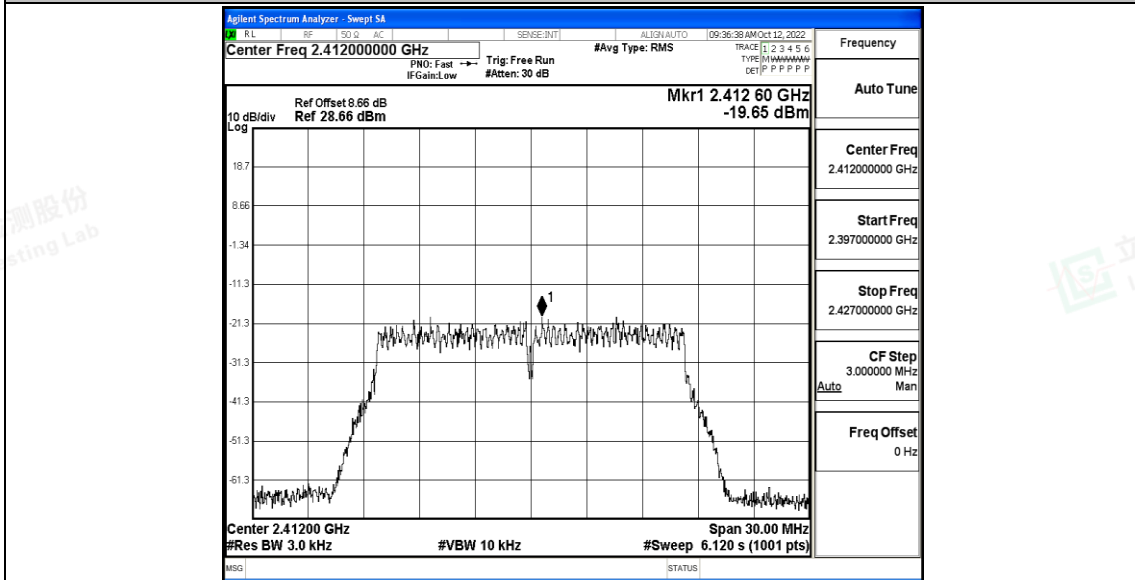
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11G\_Ant\_2412



11G\_Ant\_2437

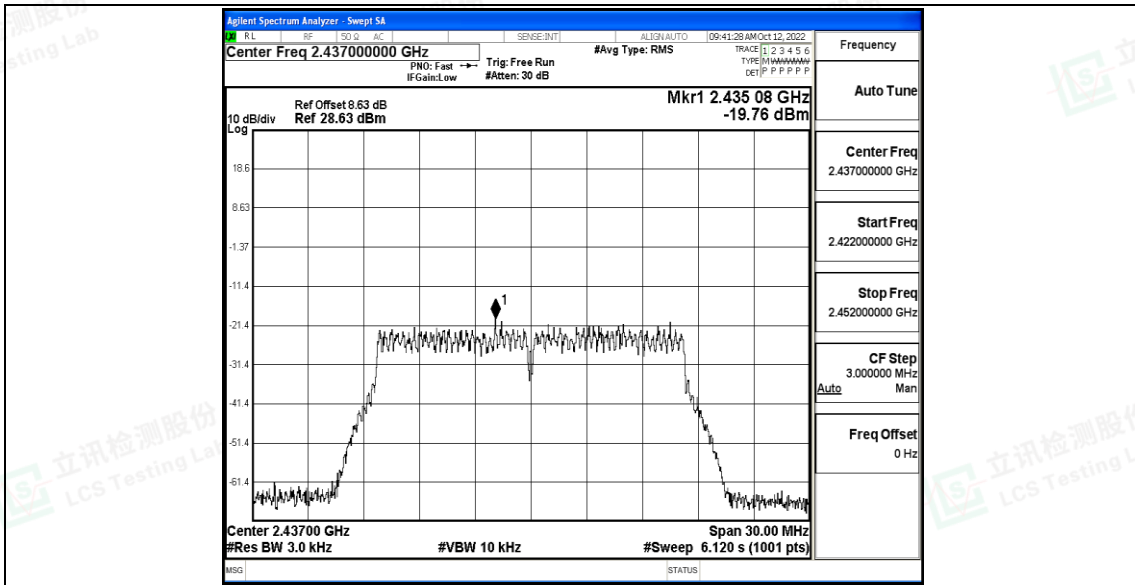


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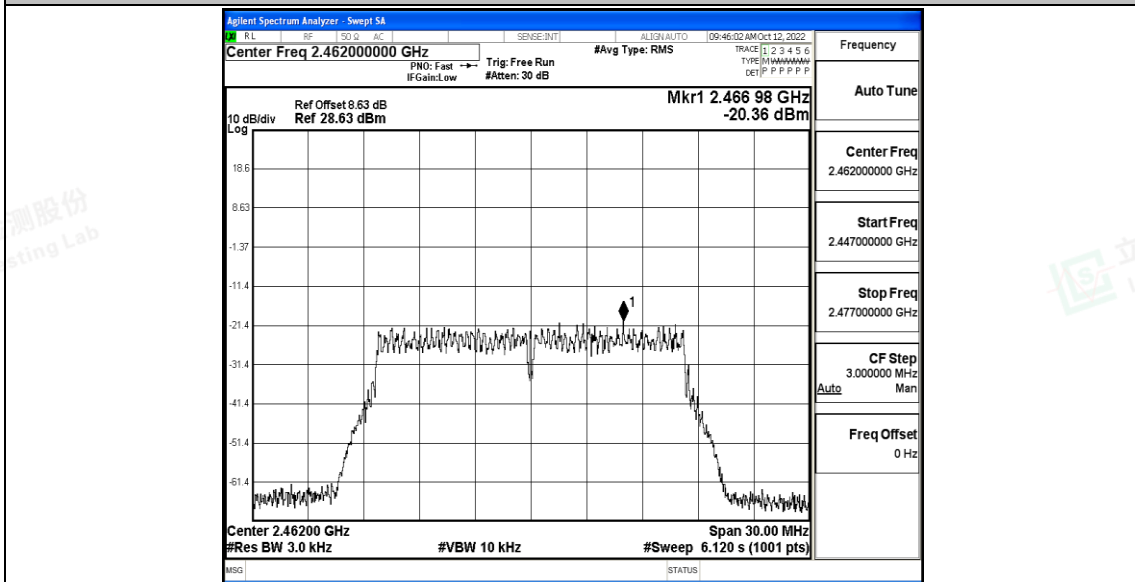
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11G\_Ant\_2462



11N20SISO\_Ant\_2412

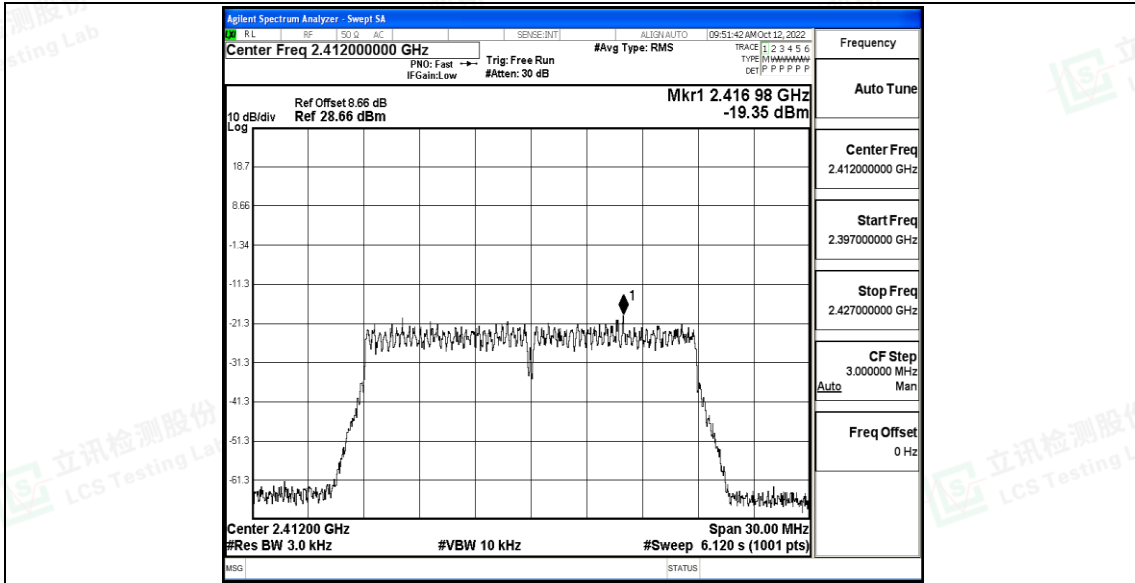


Shenzhen LCS Compliance Testing Laboratory Ltd.

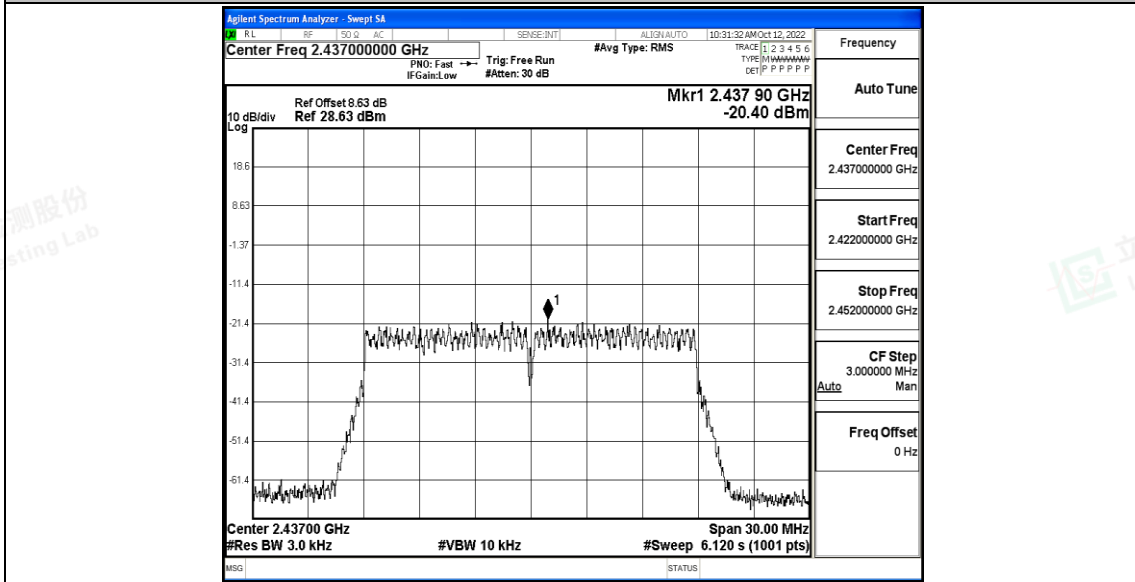
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11N20SISO\_Ant\_2437



11N20SISO\_Ant\_2462

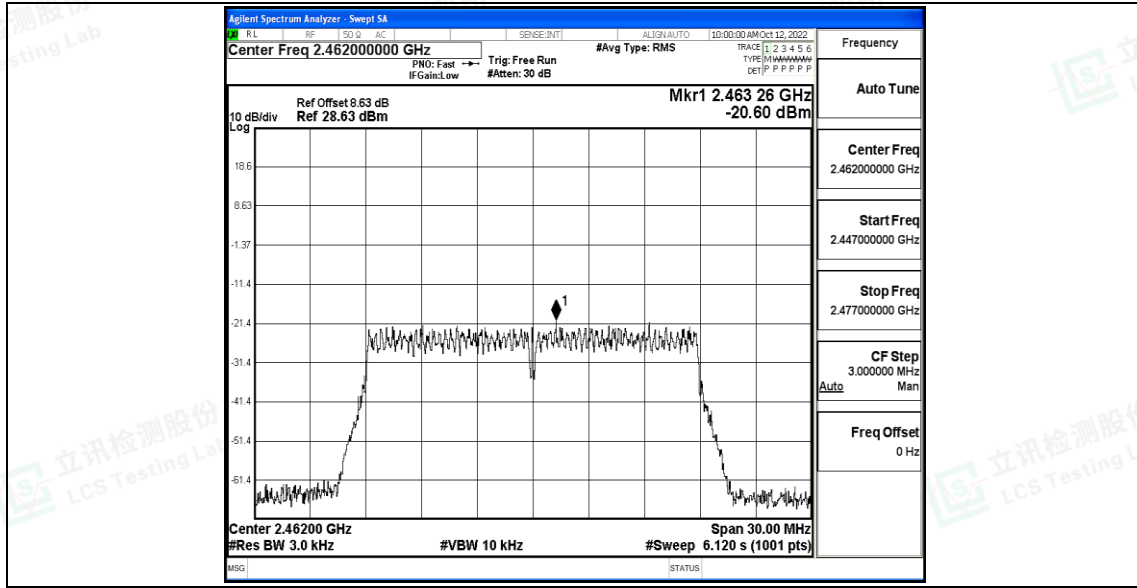


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### B.5 Band edge measurements

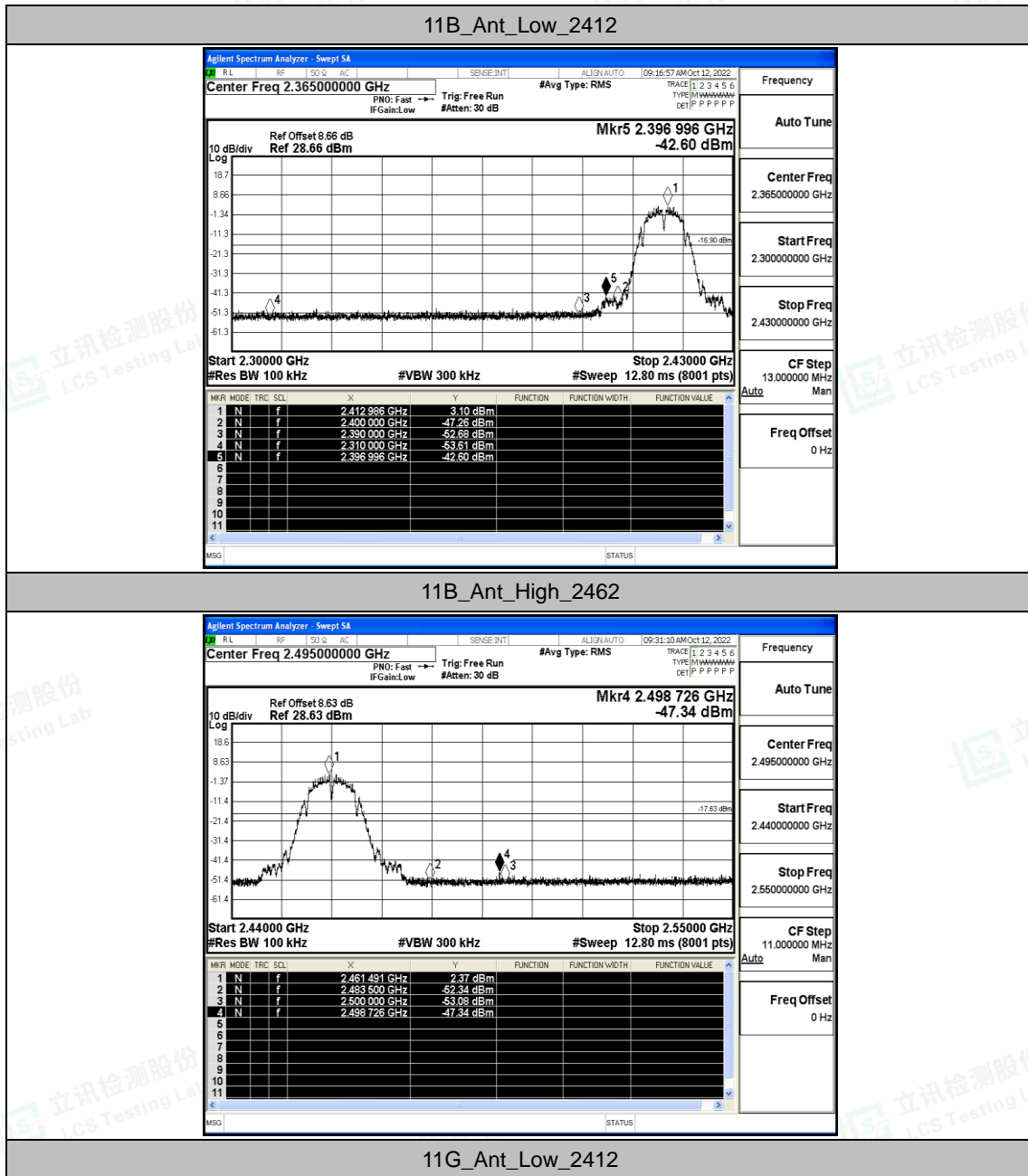
#### Test Result

| TestMode  | Antenna | ChName | Freq(MHz) | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|-----------|---------------|-------------|------------|---------|
| 11B       | Ant     | Low    | 2412      | 3.10          | -42.6       | ≤-16.9     | PASS    |
|           |         | High   | 2462      | 2.37          | -47.34      | ≤-17.63    | PASS    |
| 11G       | Ant     | Low    | 2412      | -6.66         | -47.4       | ≤-26.66    | PASS    |
|           |         | High   | 2462      | -6.80         | -48.28      | ≤-26.8     | PASS    |
| 11N20SISO | Ant     | Low    | 2412      | -5.28         | -46.11      | ≤-25.28    | PASS    |
|           |         | High   | 2462      | -6.52         | -48.56      | ≤-26.52    | PASS    |





### Test Graphs

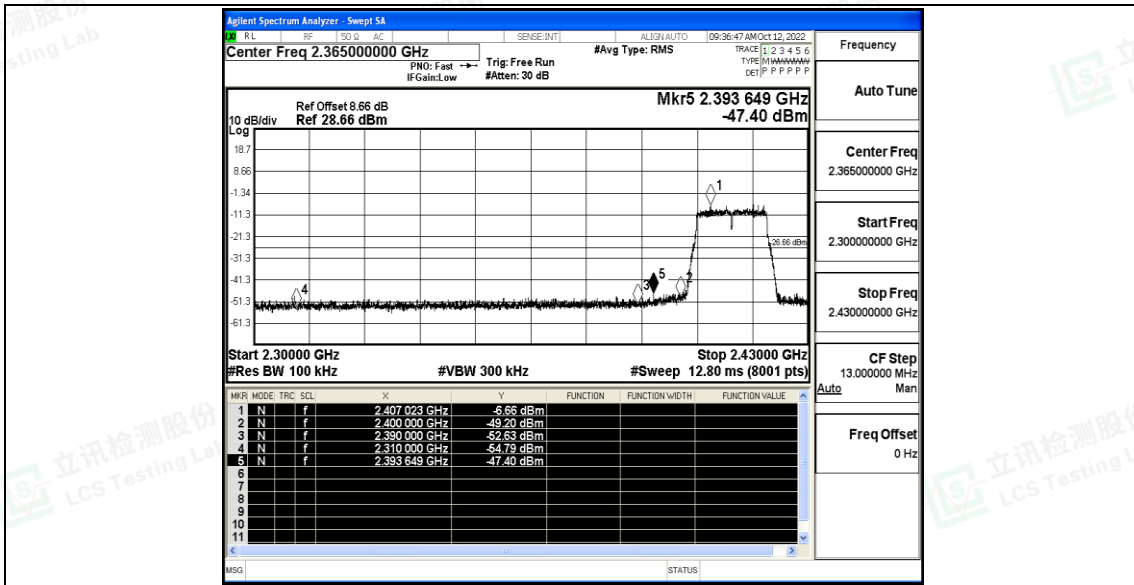


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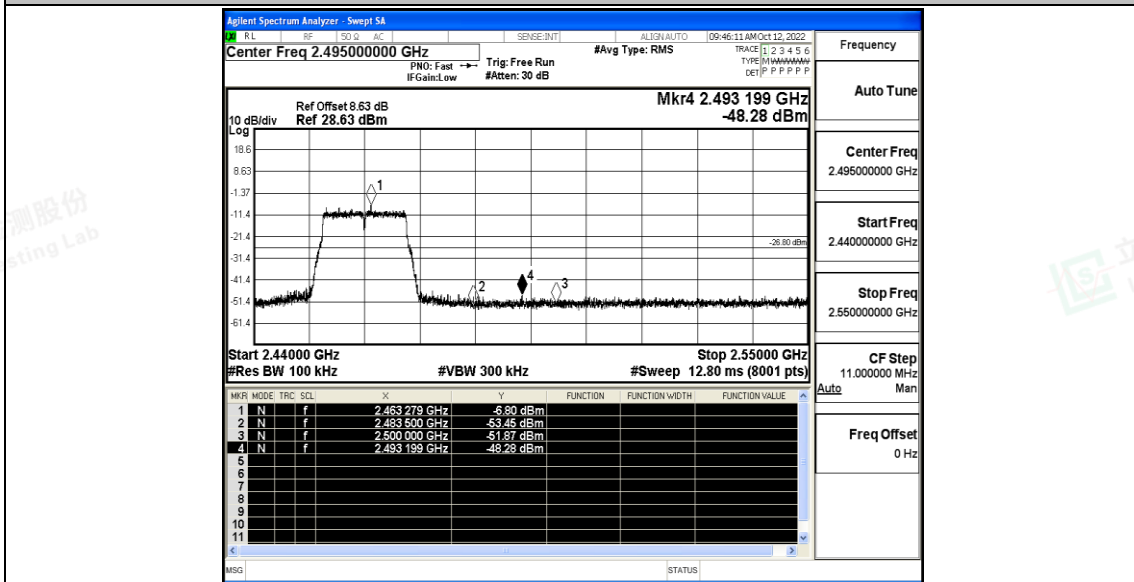
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11G\_Ant\_High\_2462



11N20SISO\_Ant\_Low\_2412

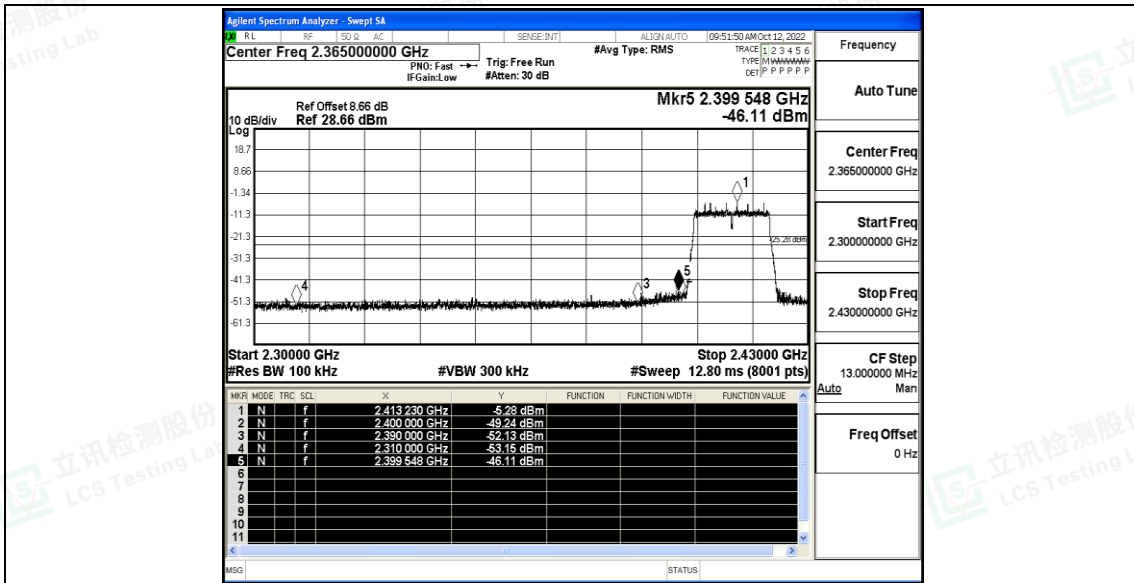


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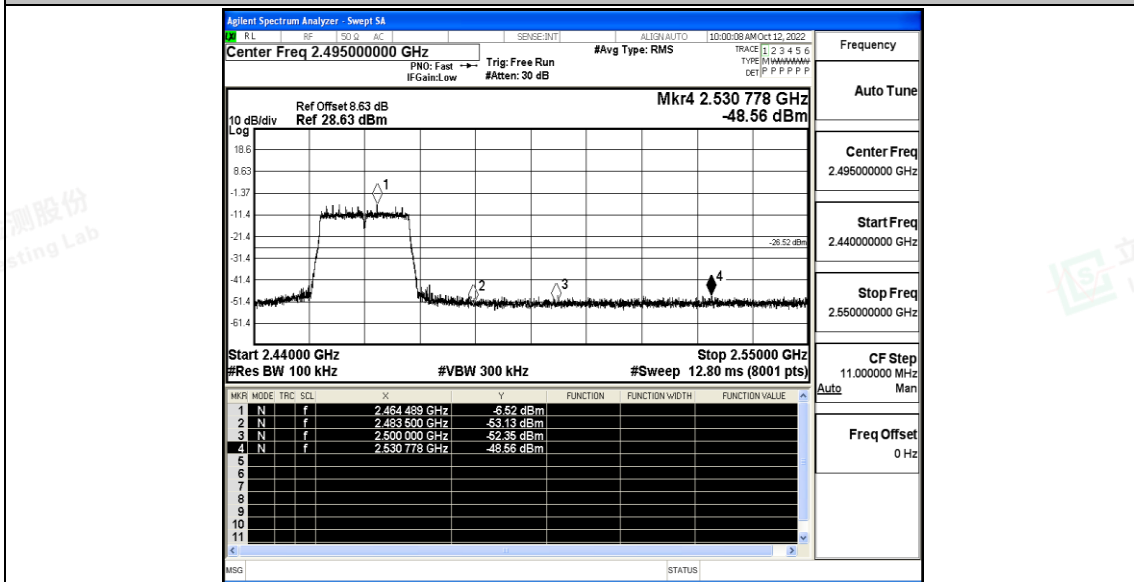
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## B.6 Conducted Spurious Emission

### Test Result

| TestMode  | Antenna | Freq(MHz) | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant     | 2412      | Reference       | 2.93           | 2.93         | ---         | PASS    |
|           |         |           | 30~1000         | 2.93           | -60.58       | ≤-17.07     | PASS    |
|           |         |           | 1000~26500      | 2.93           | -46.49       | ≤-17.07     | PASS    |
|           |         | 2437      | Reference       | 1.27           | 1.27         | ---         | PASS    |
|           |         |           | 30~1000         | 1.27           | -60.49       | ≤-18.73     | PASS    |
|           |         |           | 1000~26500      | 1.27           | -46.12       | ≤-18.73     | PASS    |
|           |         | 2462      | Reference       | 0.18           | 0.18         | ---         | PASS    |
|           |         |           | 30~1000         | 0.18           | -60.42       | ≤-19.82     | PASS    |
|           |         |           | 1000~26500      | 0.18           | -46.22       | ≤-19.82     | PASS    |
| 11G       | Ant     | 2412      | Reference       | -8.61          | -8.61        | ---         | PASS    |
|           |         |           | 30~1000         | -8.61          | -60.73       | ≤-28.61     | PASS    |
|           |         |           | 1000~26500      | -8.61          | -45.71       | ≤-28.61     | PASS    |
|           |         | 2437      | Reference       | -9.64          | -9.64        | ---         | PASS    |
|           |         |           | 30~1000         | -9.64          | -60.36       | ≤-29.64     | PASS    |
|           |         |           | 1000~26500      | -9.64          | -45.56       | ≤-29.64     | PASS    |
|           |         | 2462      | Reference       | -6.85          | -6.85        | ---         | PASS    |
|           |         |           | 30~1000         | -6.85          | -60.65       | ≤-26.85     | PASS    |
|           |         |           | 1000~26500      | -6.85          | -46.43       | ≤-26.85     | PASS    |
| 11N20SISO | Ant     | 2412      | Reference       | -9.11          | -9.11        | ---         | PASS    |
|           |         |           | 30~1000         | -9.11          | -60.75       | ≤-29.11     | PASS    |
|           |         |           | 1000~26500      | -9.11          | -46.45       | ≤-29.11     | PASS    |
|           |         | 2437      | Reference       | -9.61          | -9.61        | ---         | PASS    |
|           |         |           | 30~1000         | -9.61          | -59.83       | ≤-29.61     | PASS    |
|           |         |           | 1000~26500      | -9.61          | -46.25       | ≤-29.61     | PASS    |
|           |         | 2462      | Reference       | -7.65          | -7.65        | ---         | PASS    |
|           |         |           | 30~1000         | -7.65          | -60.7        | ≤-27.65     | PASS    |
|           |         |           | 1000~26500      | -7.65          | -45.6        | ≤-27.65     | PASS    |



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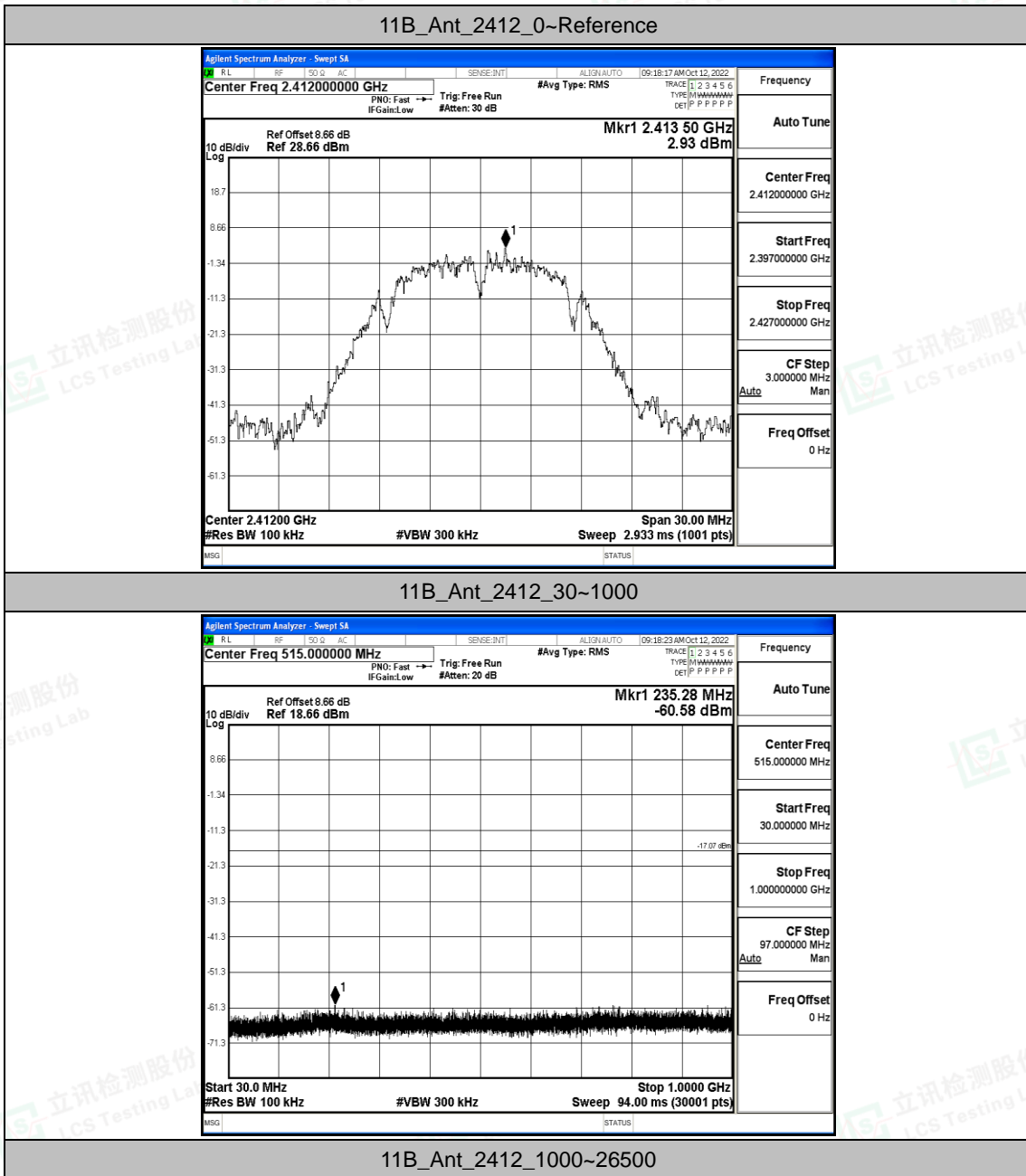
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### Test Graphs

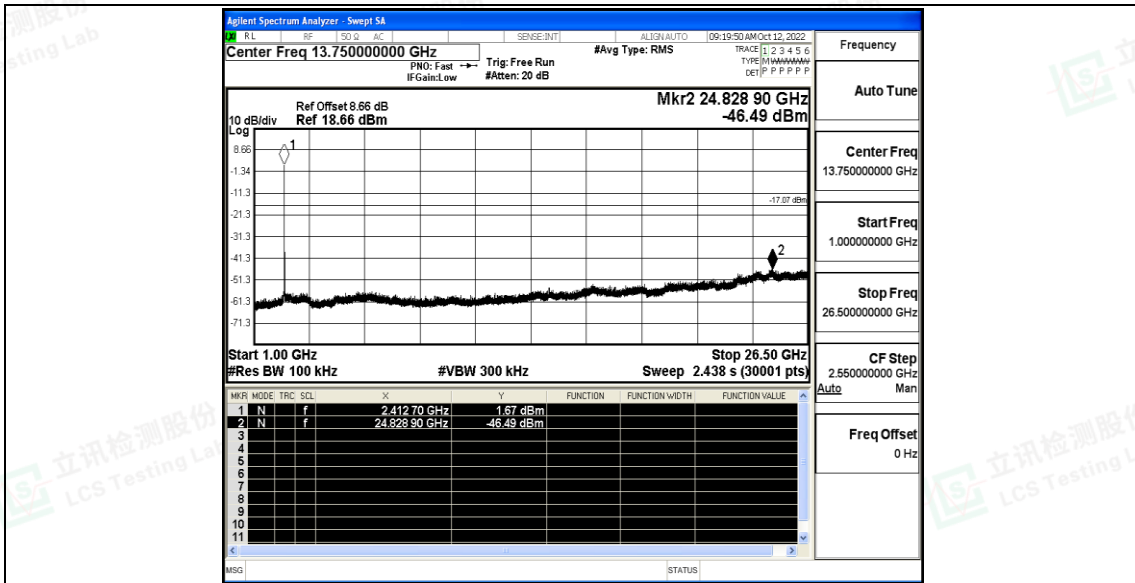


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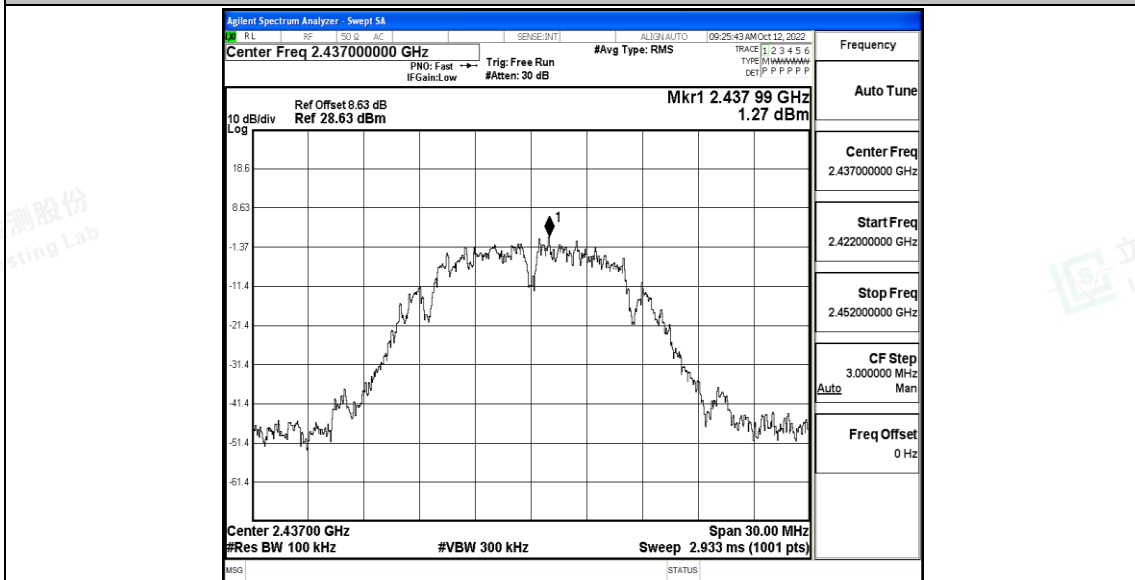
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11B\_Ant\_2437\_0~Reference



11B\_Ant\_2437\_30~1000

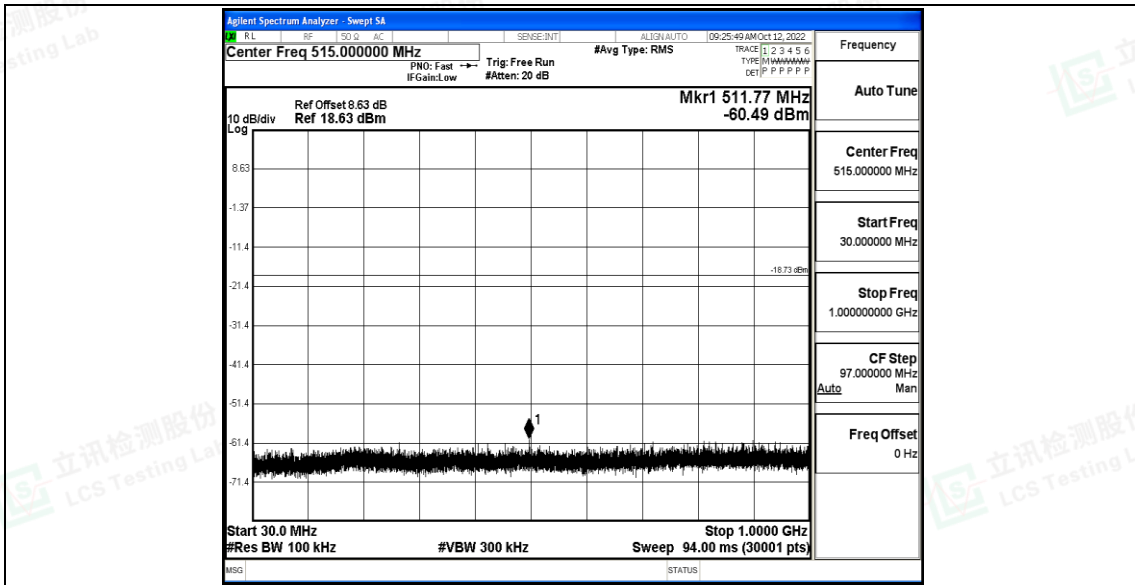


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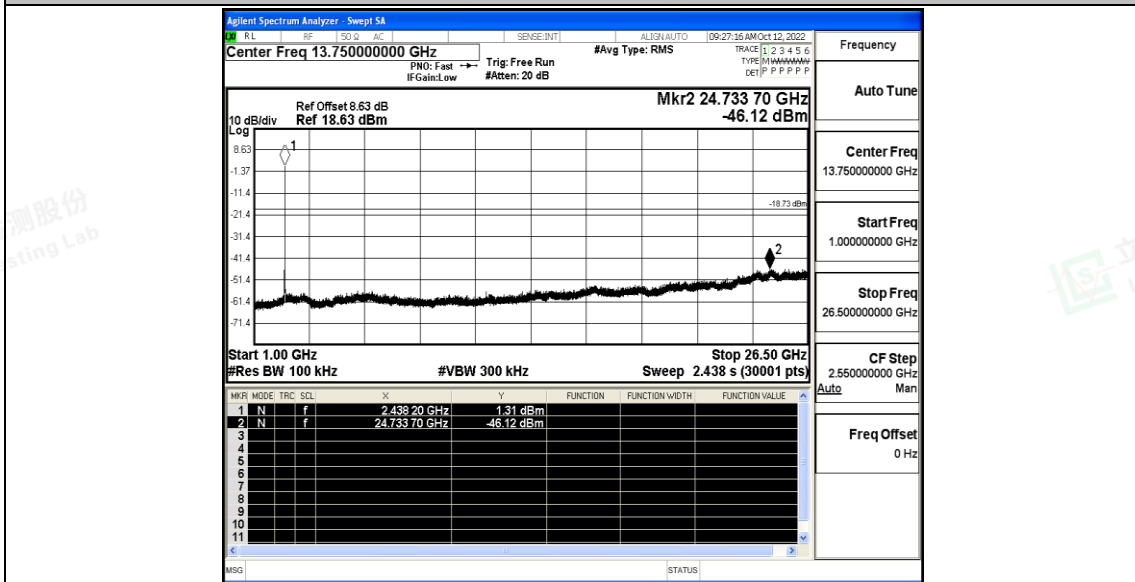
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11B\_Ant\_2437\_1000-26500



11B\_Ant\_2462\_0-Reference

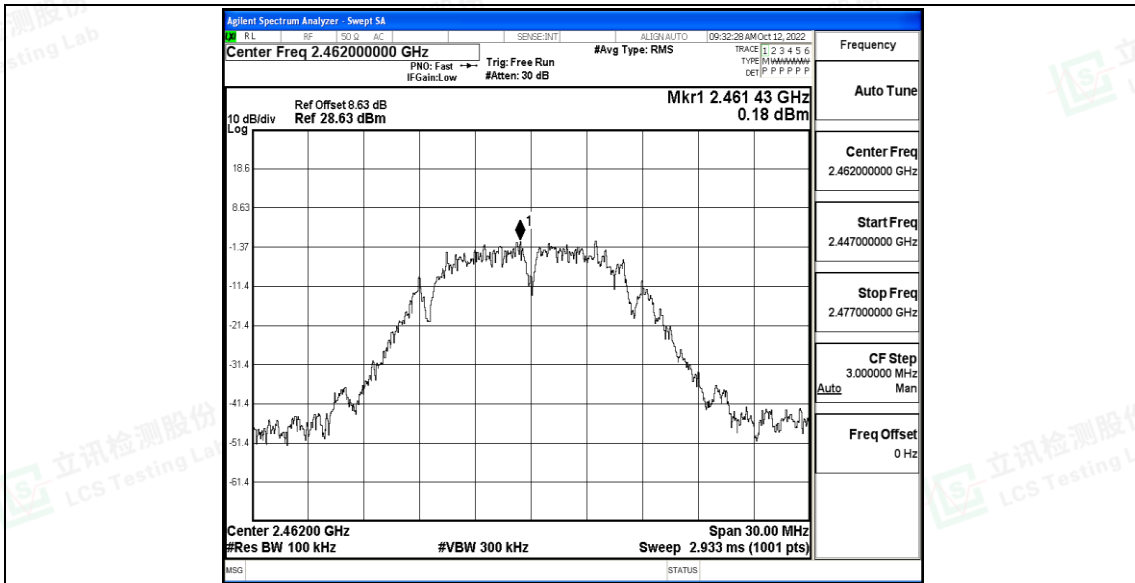


Shenzhen LCS Compliance Testing Laboratory Ltd.

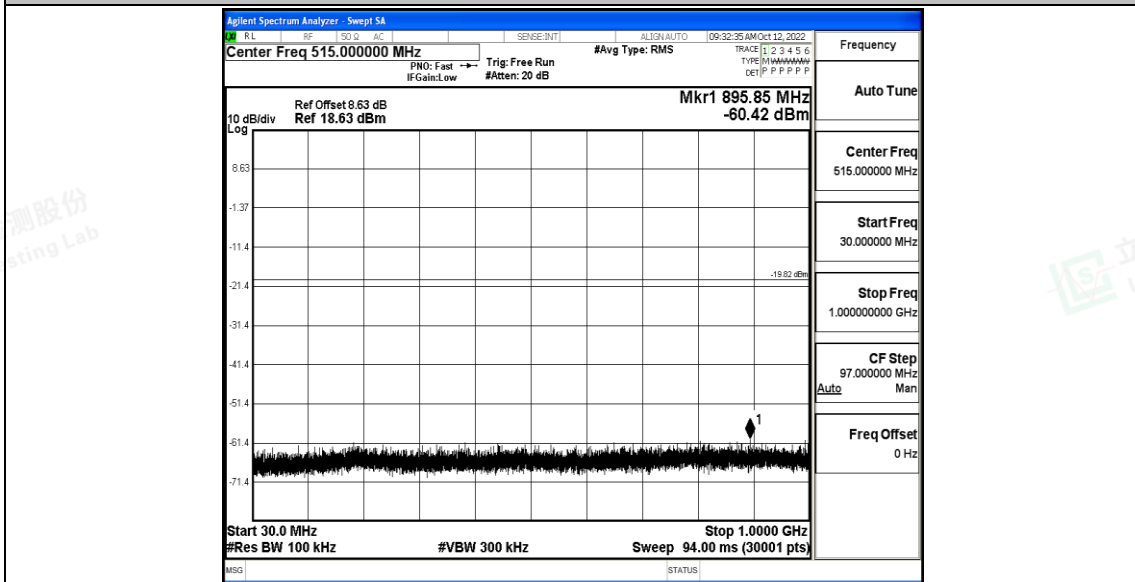
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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11B\_Ant\_2462\_30~100



11B\_Ant\_2462\_1000~26500

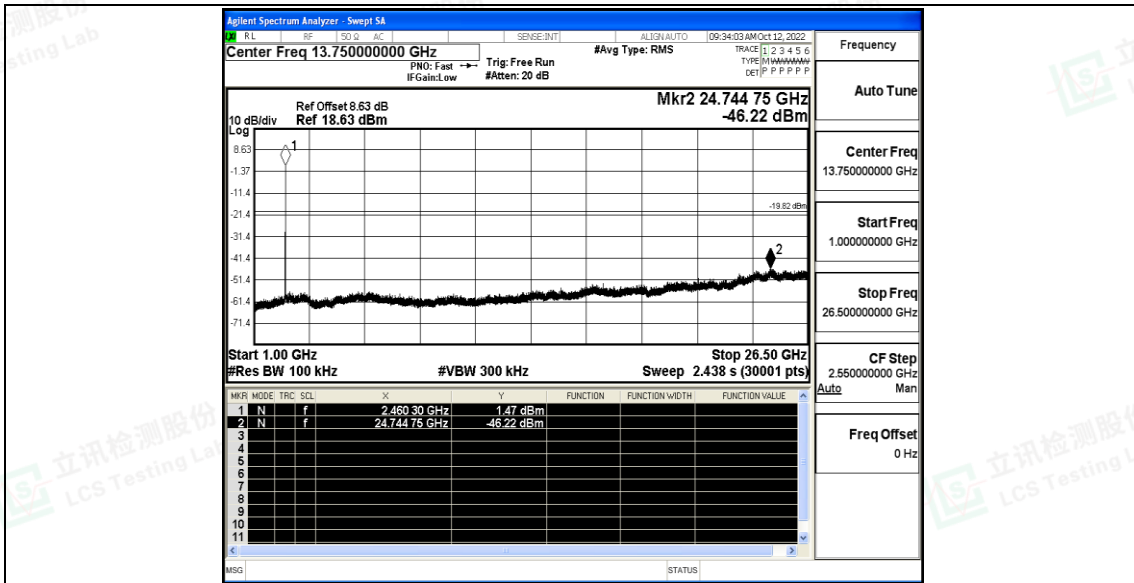


Shenzhen LCS Compliance Testing Laboratory Ltd.

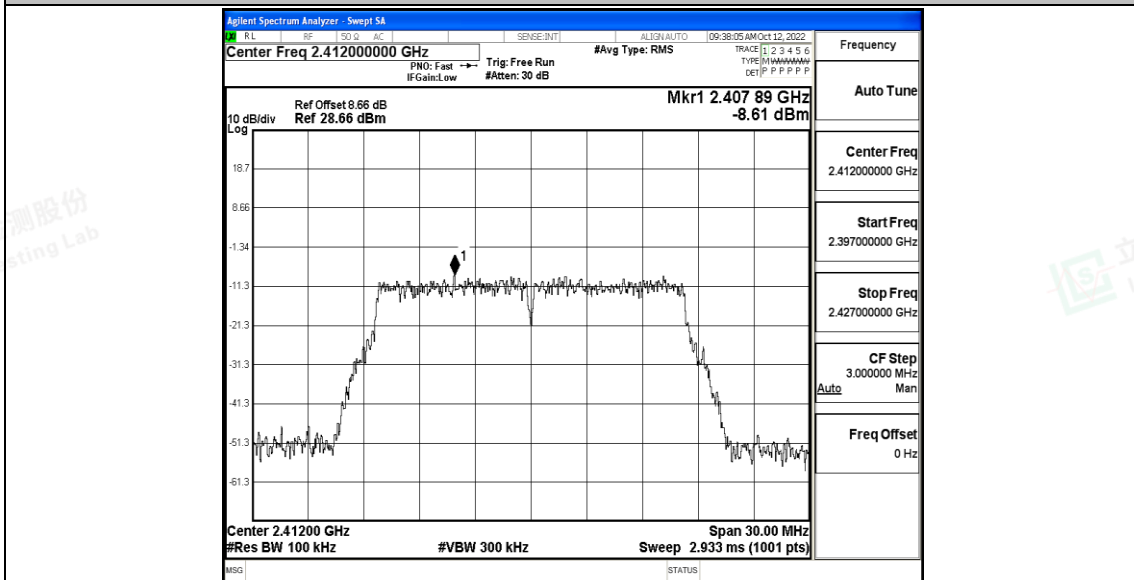
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11G\_Ant\_2412\_0~Reference



11G\_Ant\_2412\_30~1000

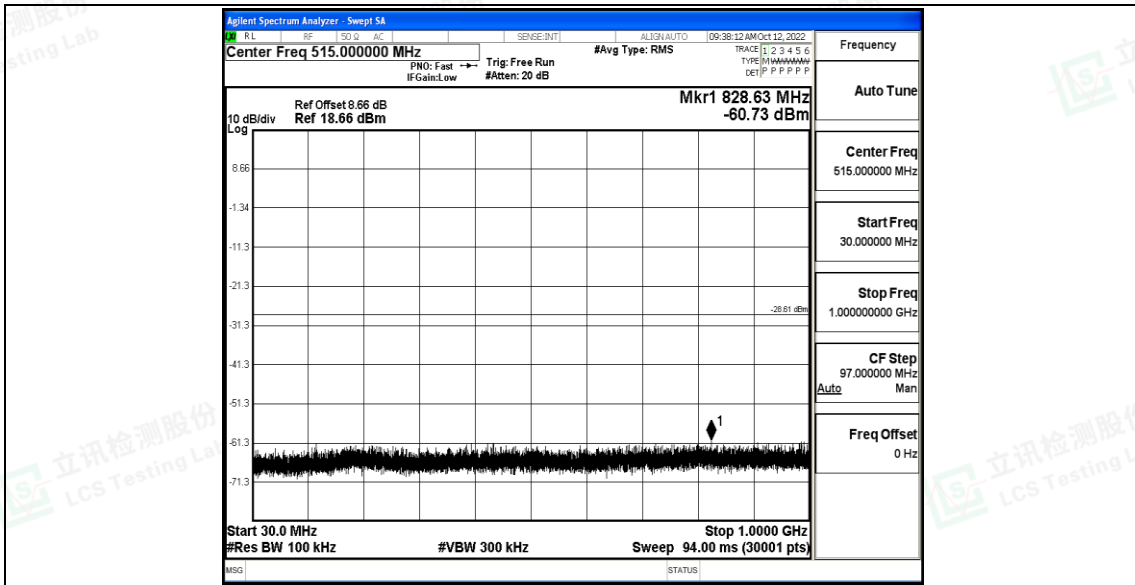


Shenzhen LCS Compliance Testing Laboratory Ltd.

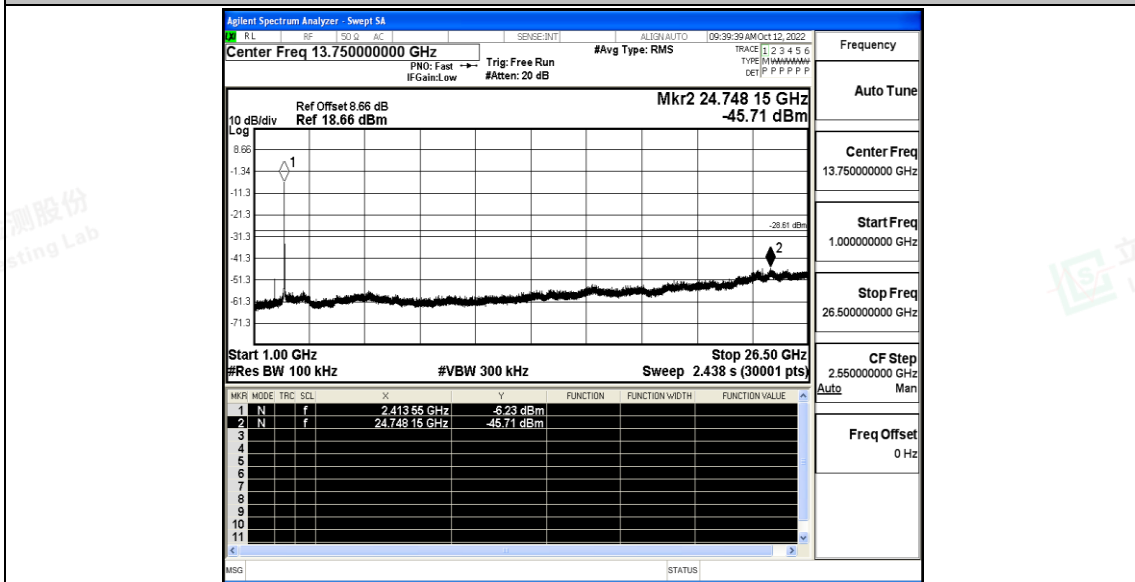
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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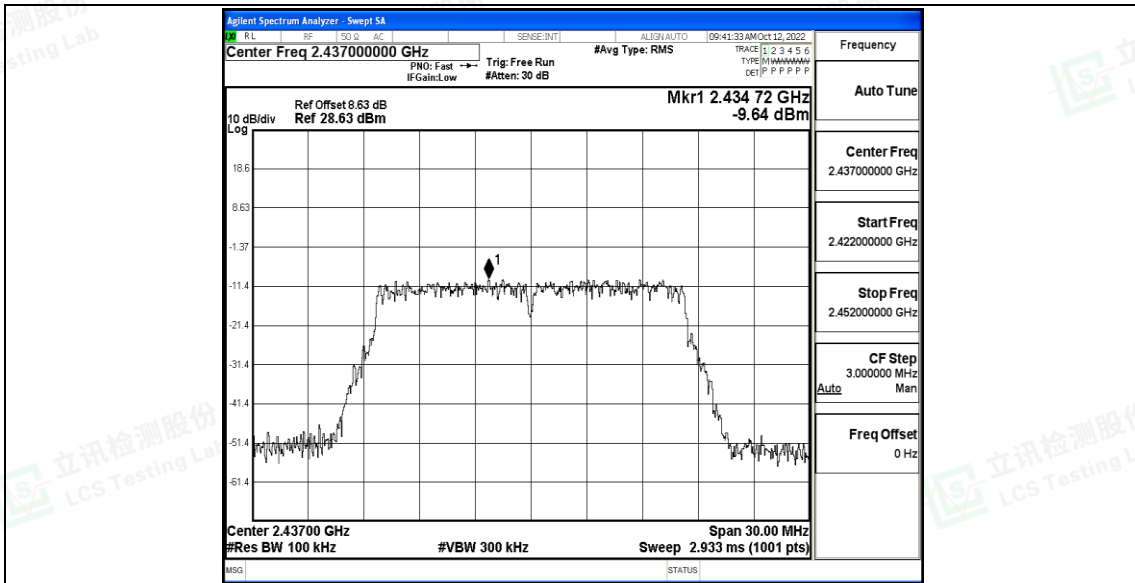


11G\_Ant\_2412\_1000~26500

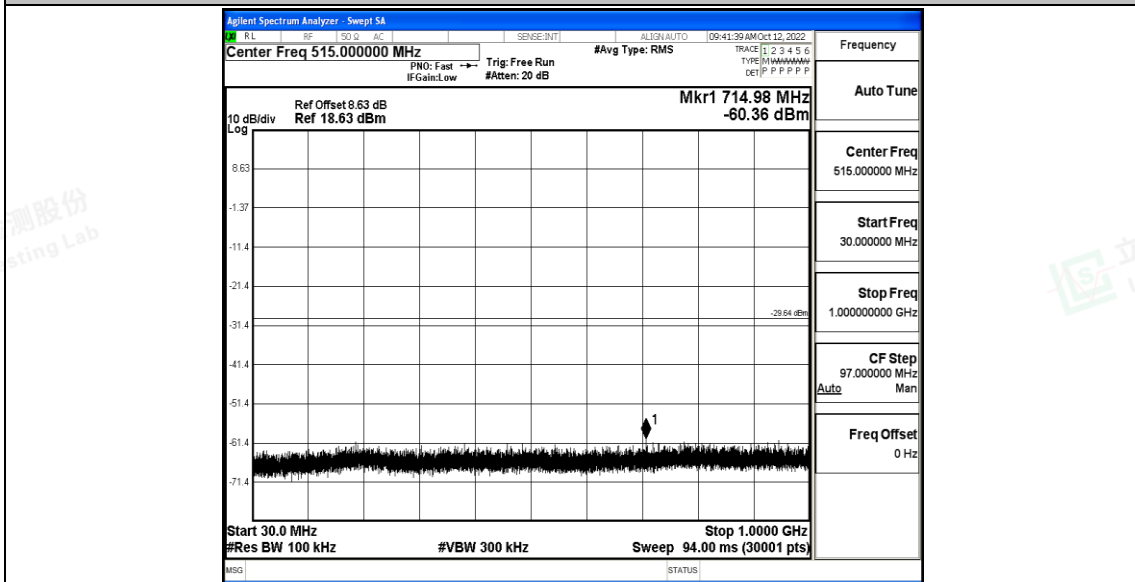


11G\_Ant\_2437\_0~Reference





11G\_Ant\_2437\_30~1000



11G\_Ant\_2437\_1000~26500



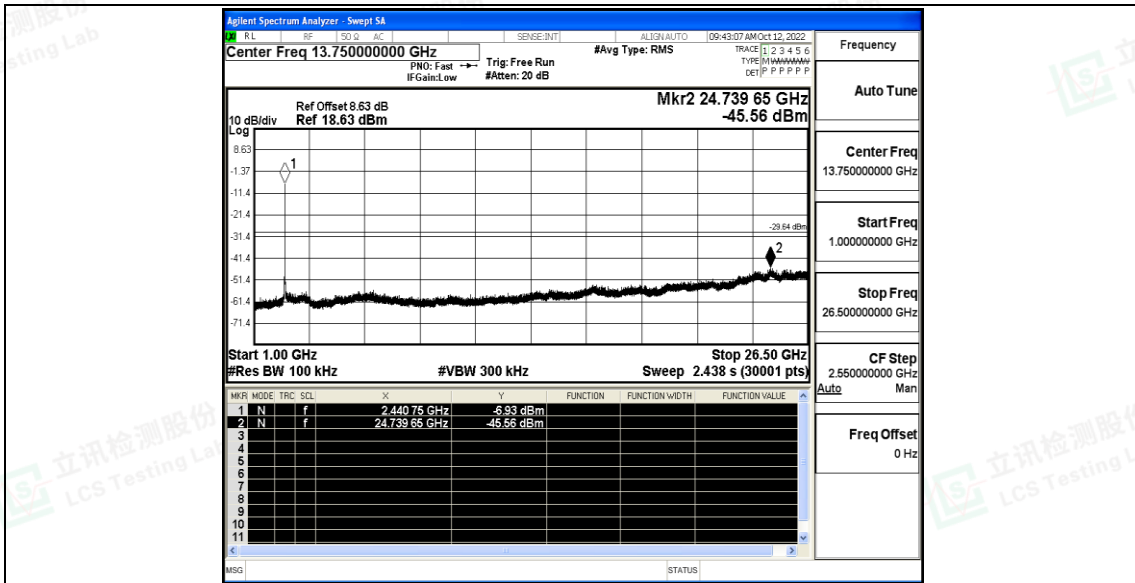
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Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

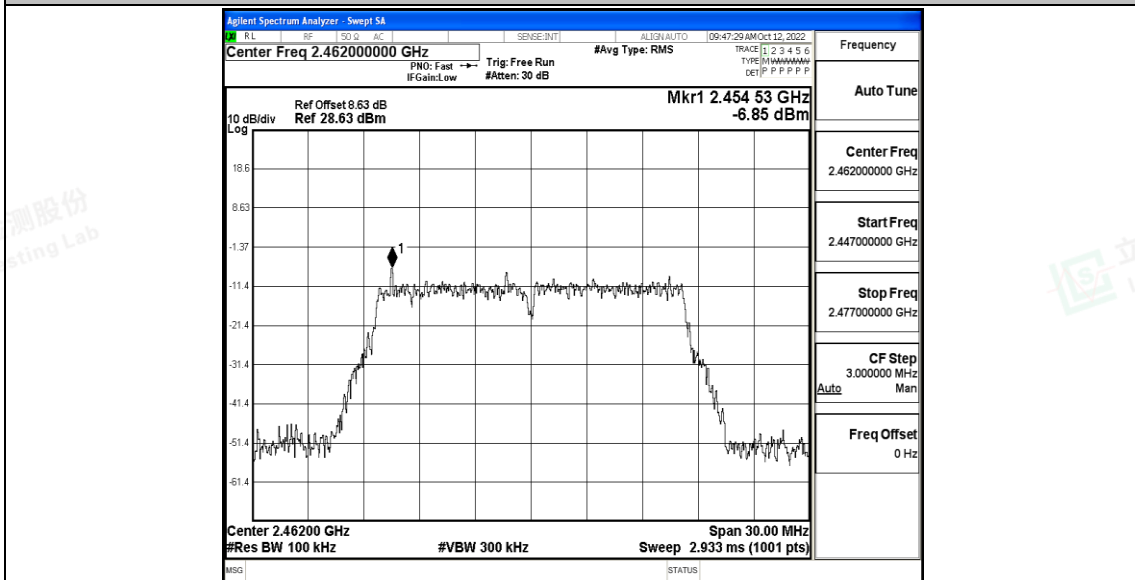
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11G\_Ant\_2462\_0~Reference



11G\_Ant\_2462\_30~1000

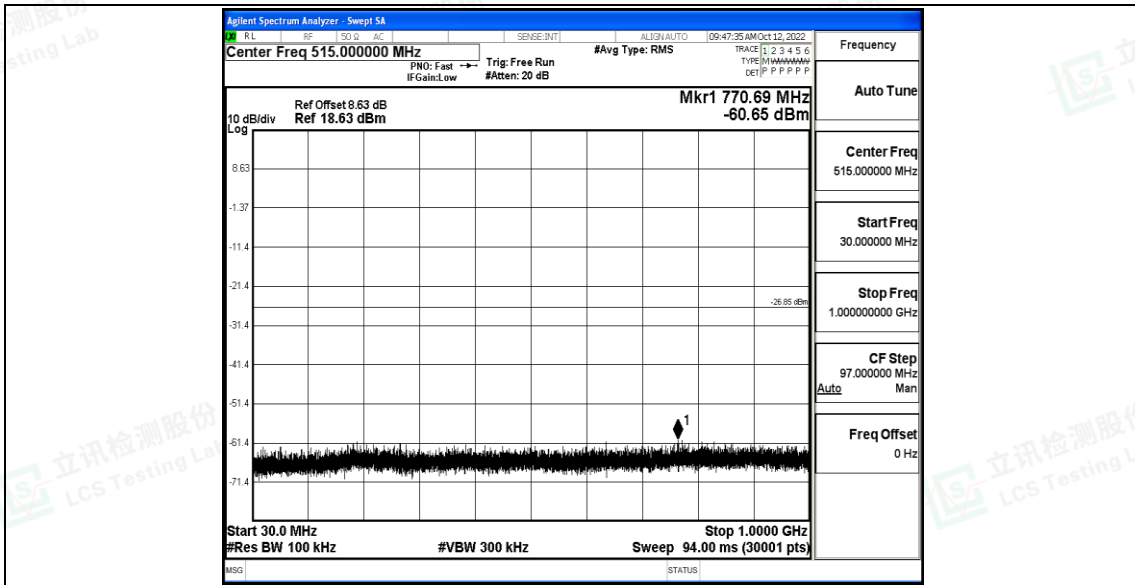


Shenzhen LCS Compliance Testing Laboratory Ltd.

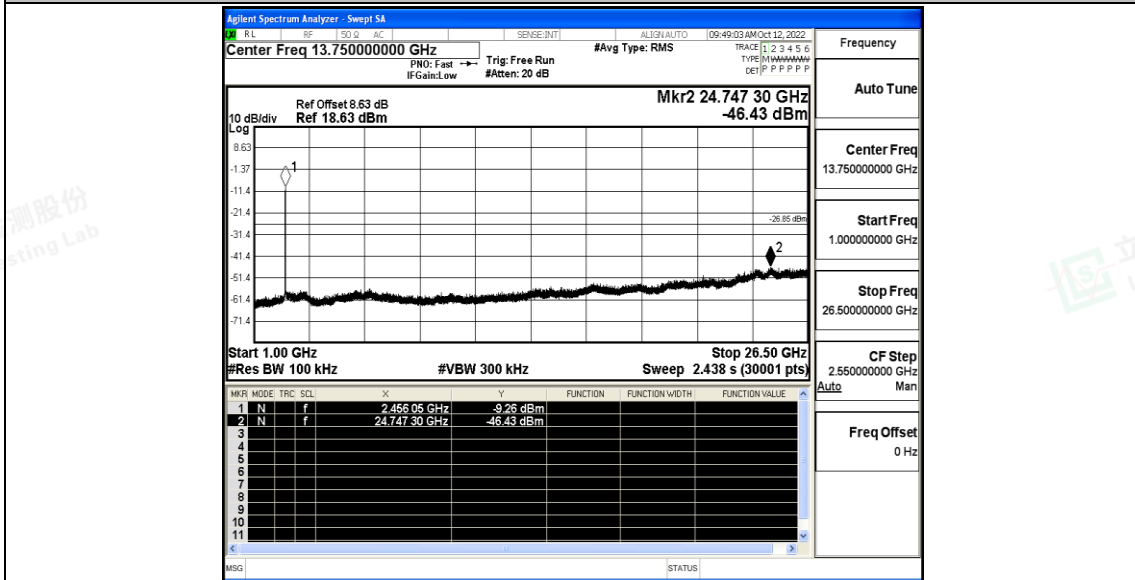
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G\_Ant\_2462\_1000-26500



11N20SISO\_Ant\_2412\_0-Reference

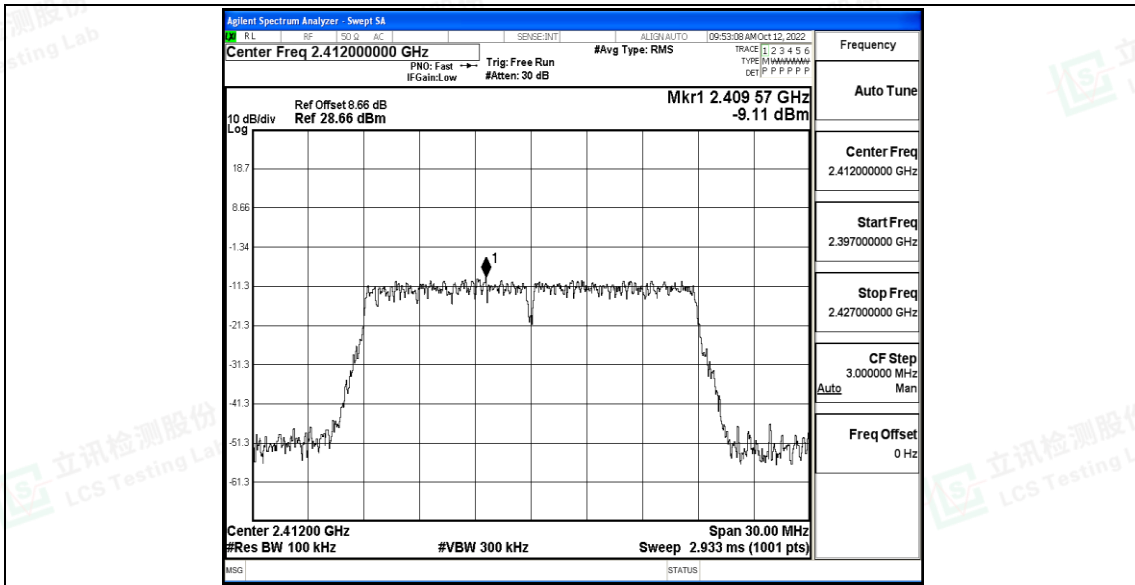


Shenzhen LCS Compliance Testing Laboratory Ltd.

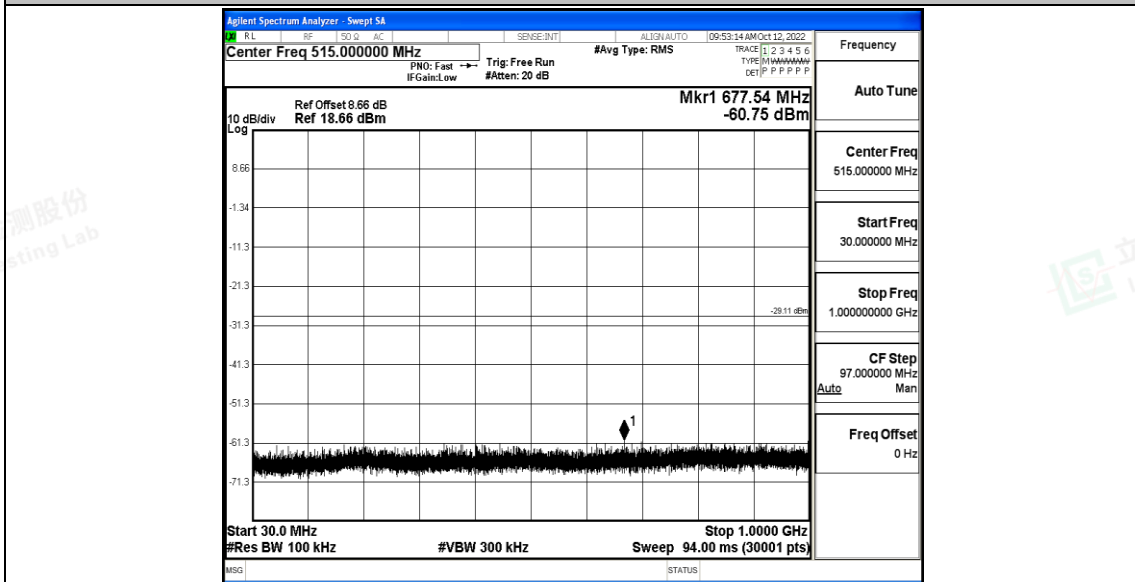
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11N20SISO\_Ant\_2412\_30~1000



11N20SISO\_Ant\_2412\_1000~26500

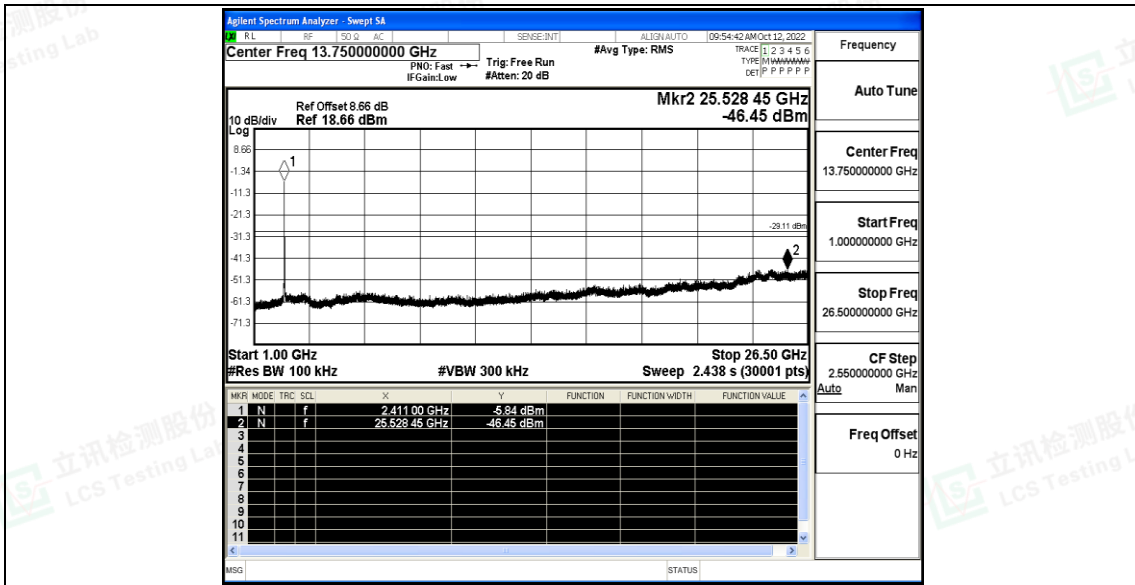


Shenzhen LCS Compliance Testing Laboratory Ltd.

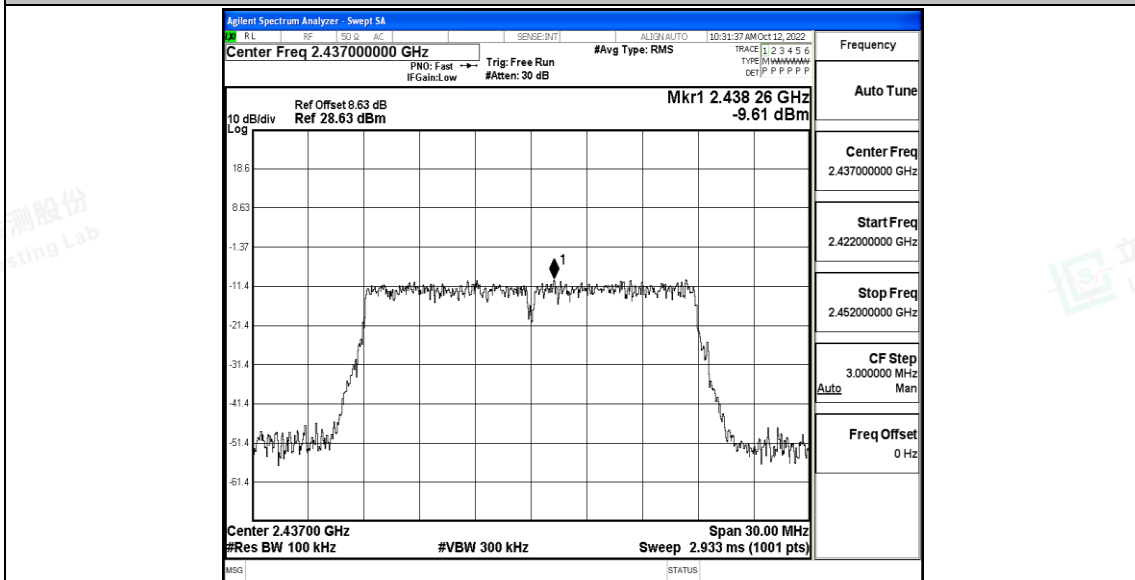
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO\_Ant\_2437\_0~Reference



11N20SISO\_Ant\_2437\_30~1000

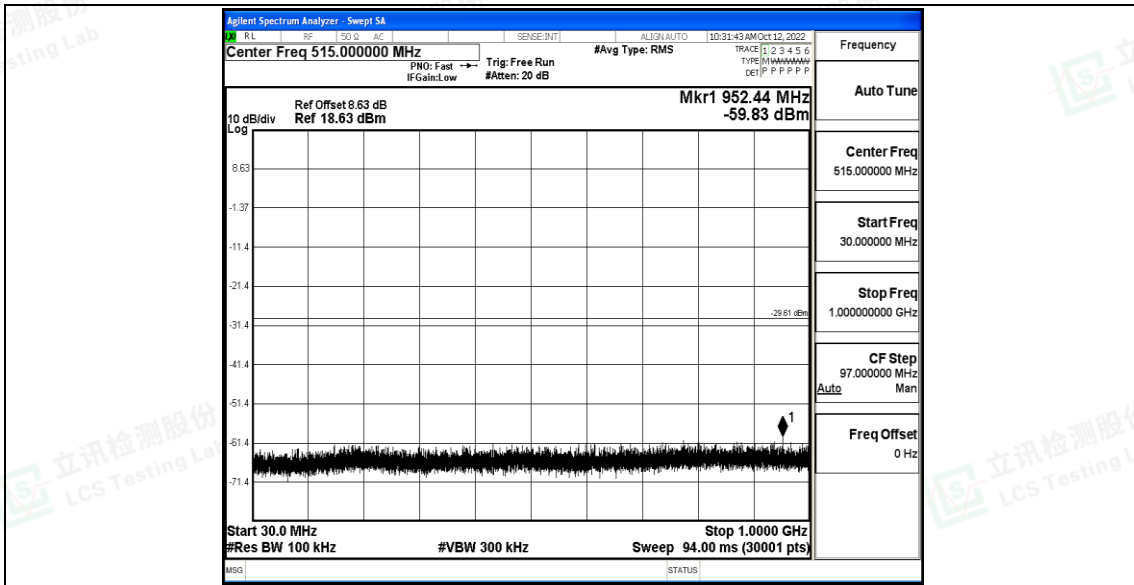


Shenzhen LCS Compliance Testing Laboratory Ltd.

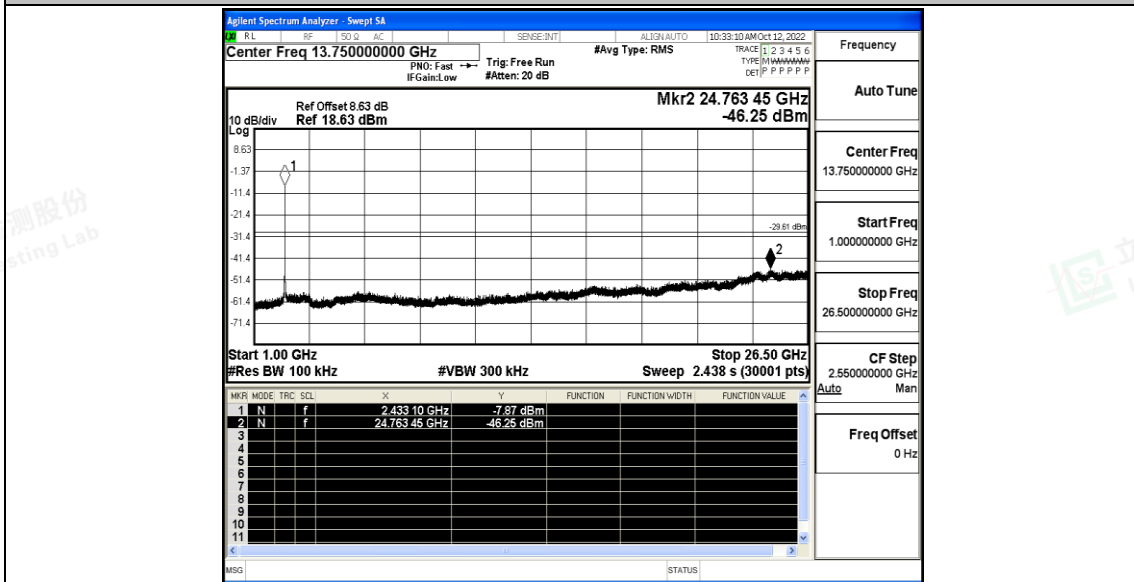
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO\_Ant\_2437\_1000~26500



11N20SISO\_Ant\_2462\_0~Reference

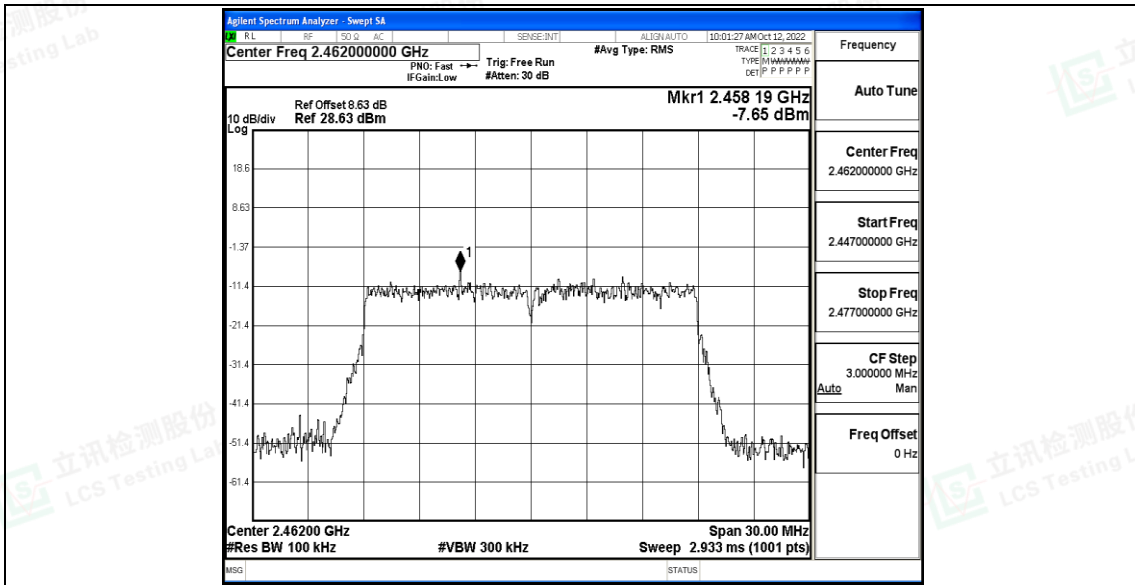


Shenzhen LCS Compliance Testing Laboratory Ltd.

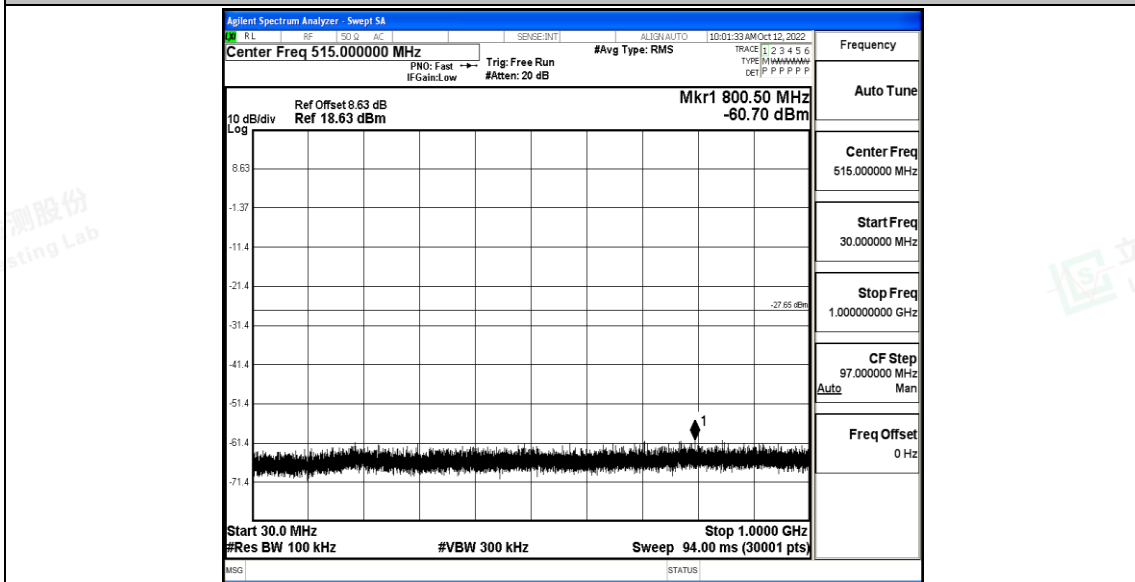
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11N20SISO\_Ant\_2462\_30~1000



11N20SISO\_Ant\_2462\_1000~26500

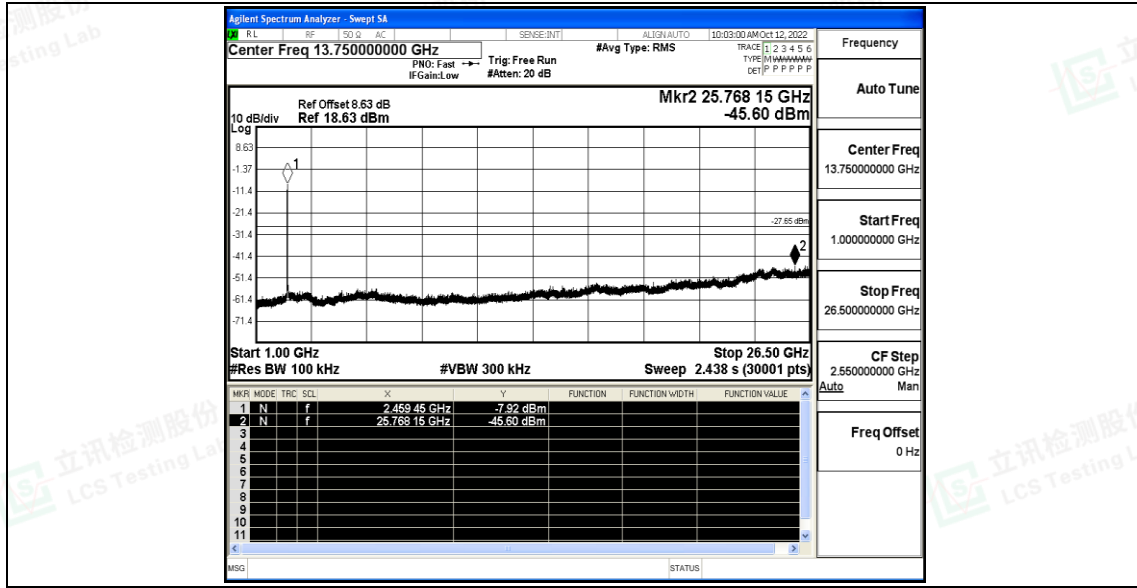


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### B.7 Duty Cycle

#### Test Result

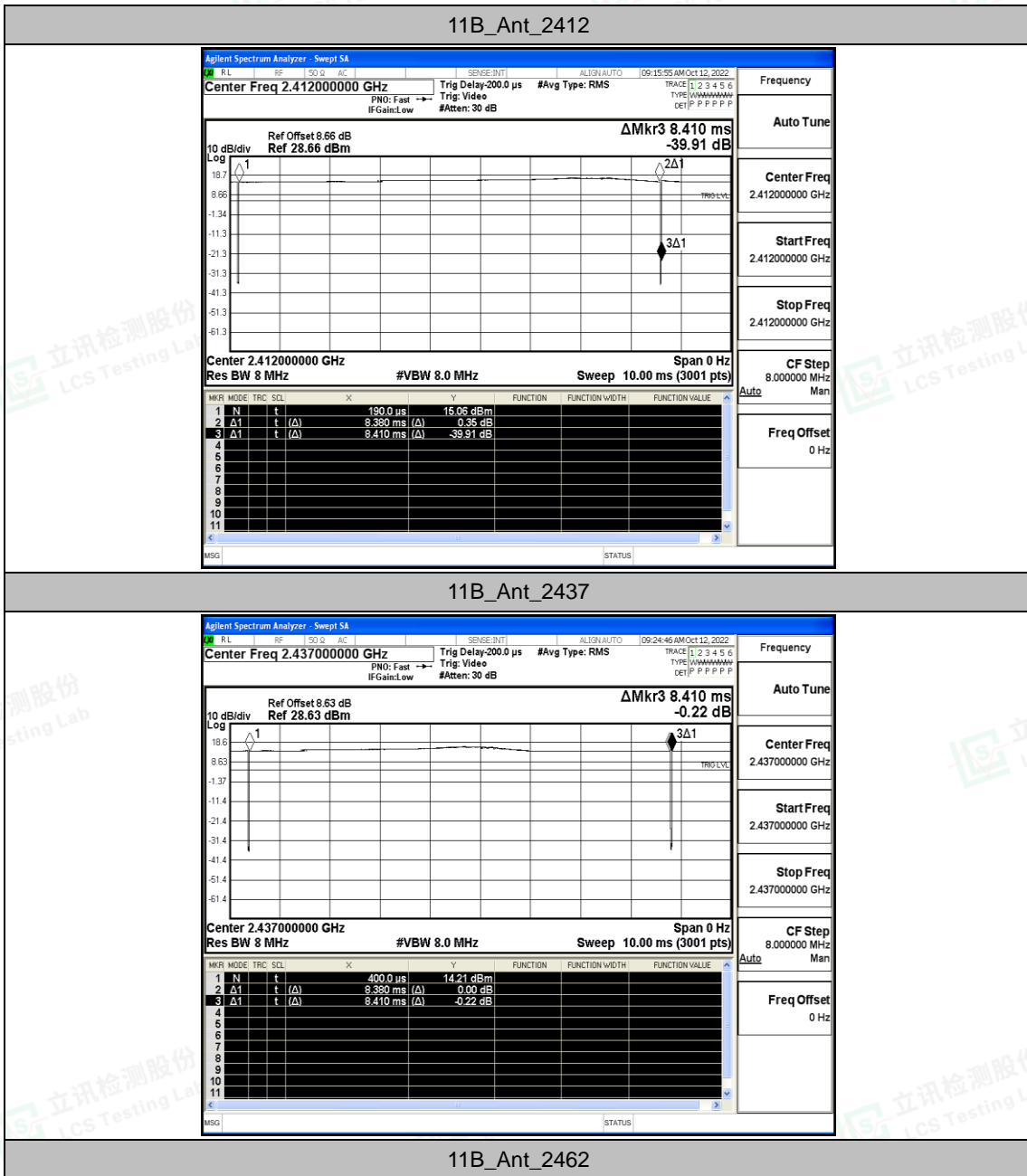
| TestMode  | Antenna | Freq(MHz) | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Factor | 1/T(kHz) |
|-----------|---------|-----------|----------------------------|--------------------------|----------------|--------|----------|
| 11B       | Ant     | 2412      | 8.38                       | 8.41                     | 99.64          | 0.02   | 0.12     |
|           |         | 2437      | 8.38                       | 8.41                     | 99.64          | 0.02   | 0.12     |
|           |         | 2462      | 8.38                       | 8.41                     | 99.64          | 0.02   | 0.12     |
| 11G       | Ant     | 2412      | 1.39                       | 1.43                     | 97.20          | 0.12   | 0.72     |
|           |         | 2437      | 1.39                       | 1.43                     | 97.20          | 0.12   | 0.72     |
|           |         | 2462      | 1.39                       | 1.43                     | 97.20          | 0.12   | 0.72     |
| 11N20SISO | Ant     | 2412      | 1.30                       | 1.34                     | 97.01          | 0.13   | 0.77     |
|           |         | 2437      | 1.30                       | 1.33                     | 97.74          | 0.10   | 0.77     |
|           |         | 2462      | 1.30                       | 1.34                     | 97.01          | 0.13   | 0.77     |







### Test Graphs

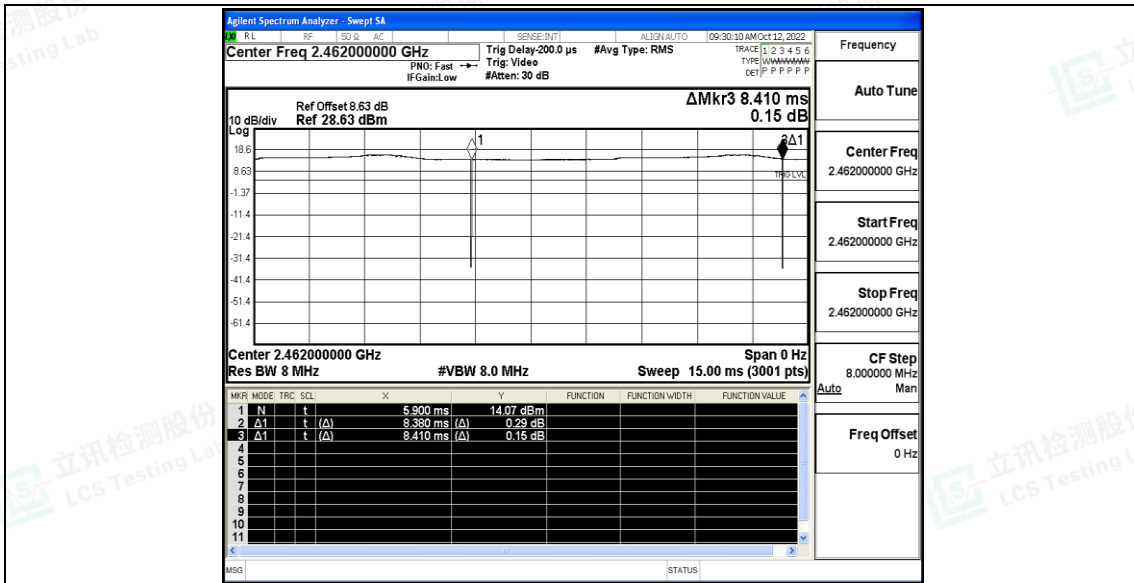


Shenzhen LCS Compliance Testing Laboratory Ltd.

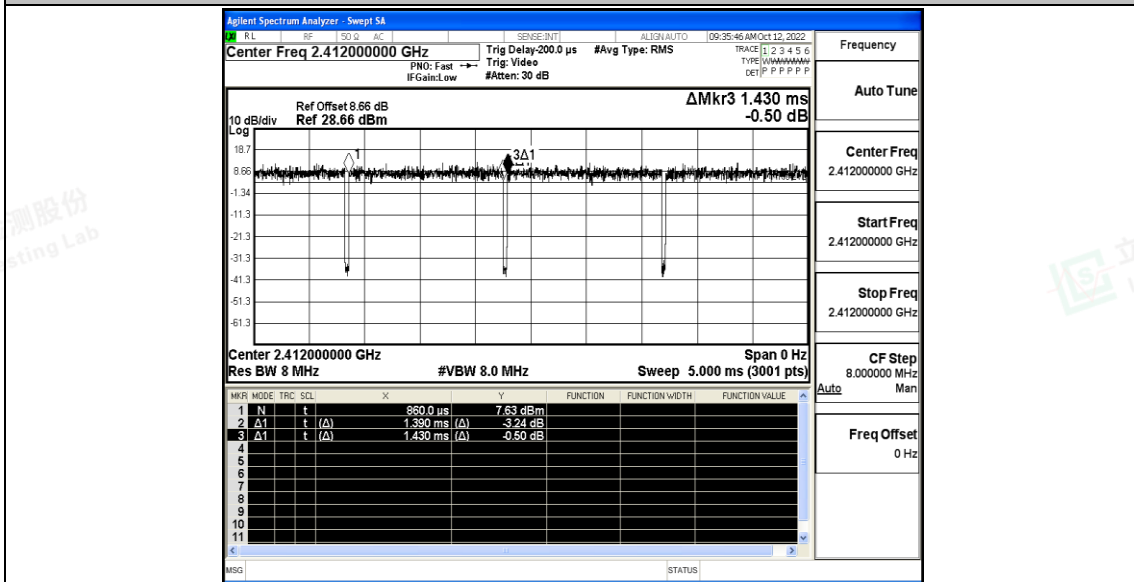
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G\_Ant\_2412



11G\_Ant\_2437

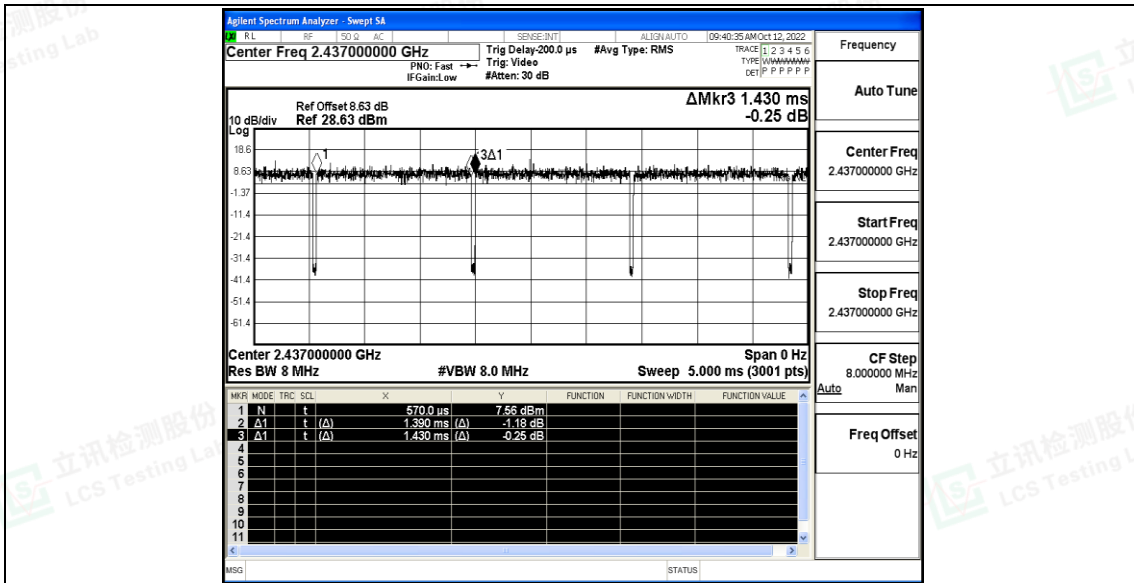


Shenzhen LCS Compliance Testing Laboratory Ltd.

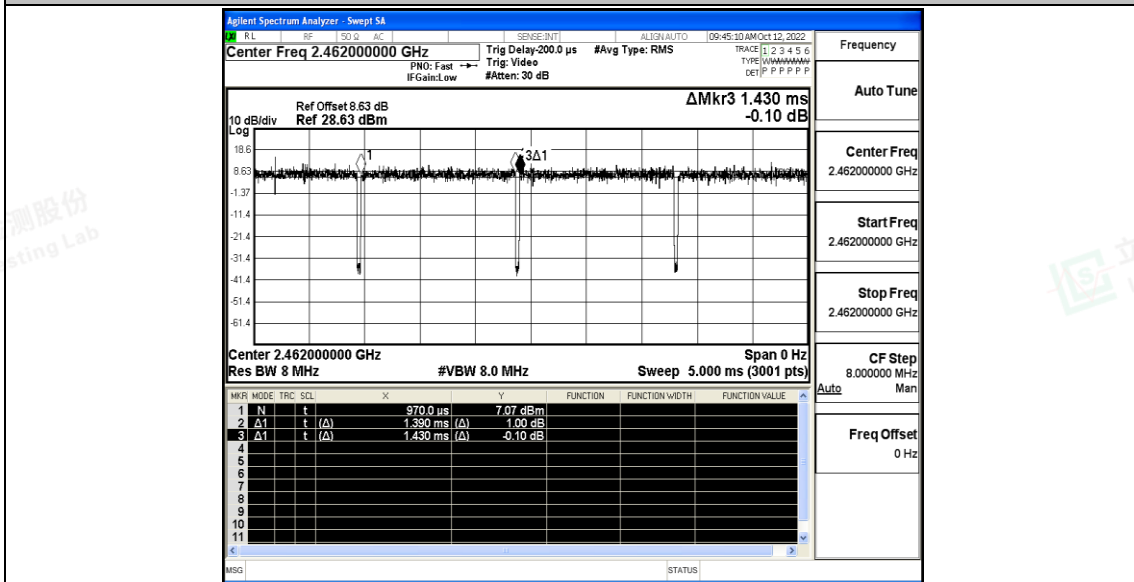
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G\_Ant\_2462



11N20SISO\_Ant\_2412

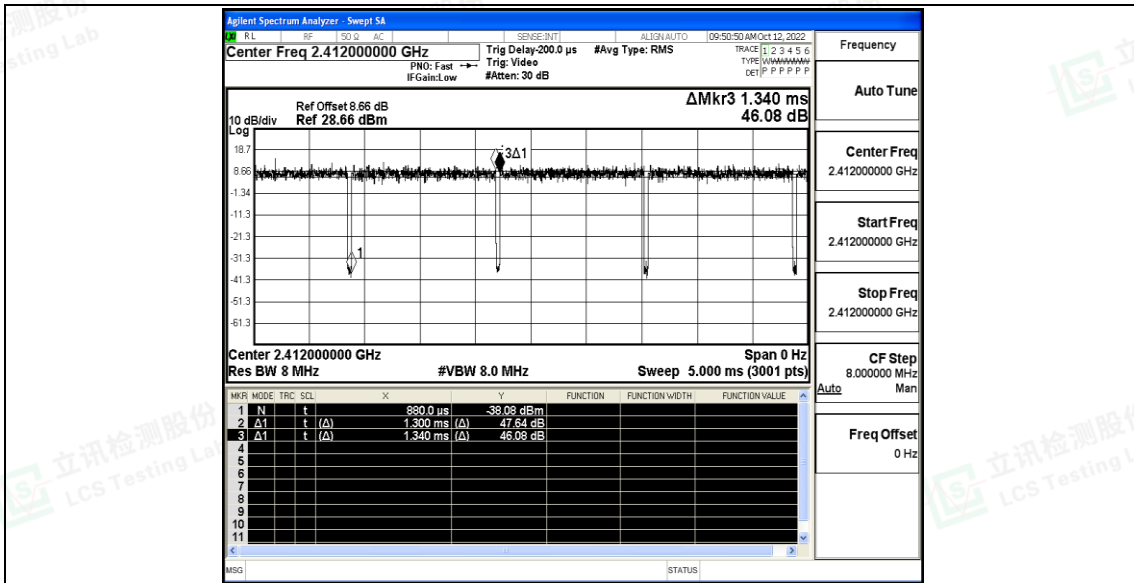


Shenzhen LCS Compliance Testing Laboratory Ltd.

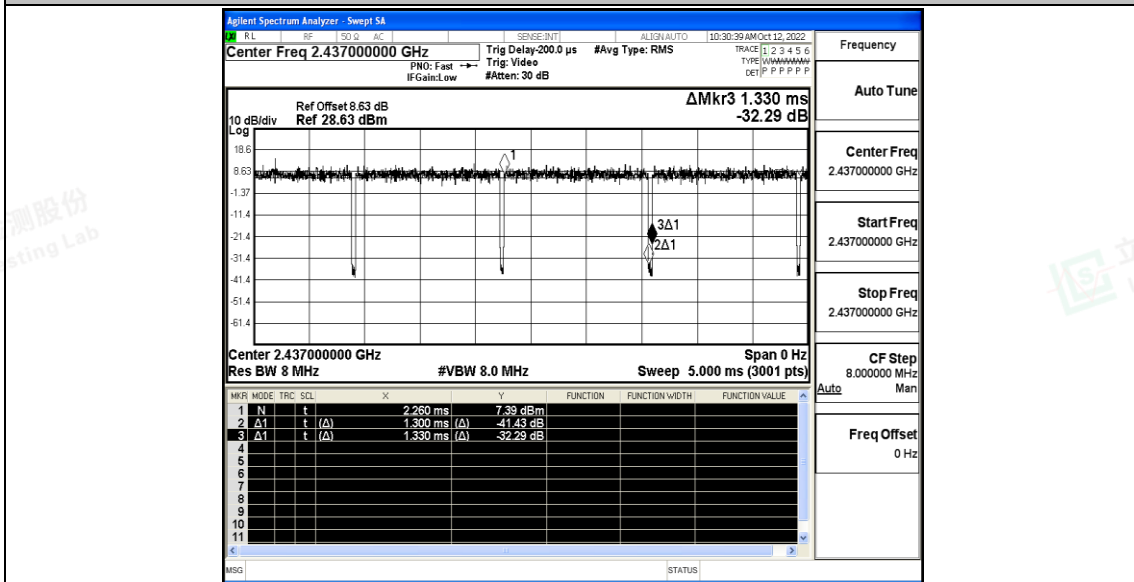
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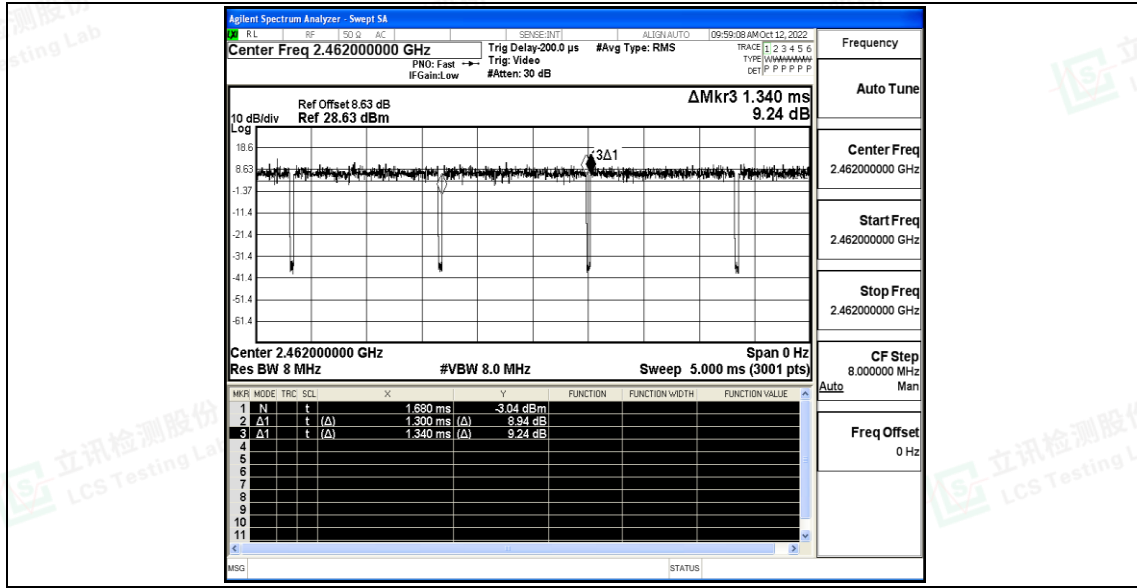


11N20SISO\_Ant\_2437



11N20SISO\_Ant\_2462





**B.8 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           | Ant      | Low    | 2412       | AV       | 2310.000   | -58.23       | ≤-41.20     | 36.97           | ≤54            | PASS    |
|               |          |        |            | AV       | 2388.140   | -54.74       | ≤-41.20     | 40.46           | ≤54            | PASS    |
|               |          |        |            | AV       | 2390.000   | -55.13       | ≤-41.20     | 40.07           | ≤54            | PASS    |
|               |          |        |            | Peak     | 2310.000   | -47.51       | ≤-21.20     | 47.69           | ≤74            | PASS    |
|               |          |        |            | Peak     | 2388.010   | -43.93       | ≤-21.20     | 51.27           | ≤74            | PASS    |
|               |          |        |            | Peak     | 2390.000   | -44.49       | ≤-21.20     | 50.71           | ≤74            | PASS    |
|               |          | High   | 2462       | AV       | 2483.500   | -55.13       | ≤-41.20     | 40.07           | ≤54            | PASS    |
|               |          |        |            | AV       | 2483.560   | -55.13       | ≤-41.20     | 40.07           | ≤54            | PASS    |
|               |          |        |            | AV       | 2500.000   | -57.03       | ≤-41.20     | 38.17           | ≤54            | PASS    |
|               |          |        |            | Peak     | 2483.500   | -45.56       | ≤-21.20     | 49.64           | ≤74            | PASS    |
|               |          |        |            | Peak     | 2487.960   | -44.5        | ≤-21.20     | 50.70           | ≤74            | PASS    |
|               |          |        |            | Peak     | 2500.000   | -46.37       | ≤-21.20     | 48.83           | ≤74            | PASS    |
| 11G           | Ant      | Low    | 2412       | AV       | 2310.000   | -57.8        | ≤-41.20     | 37.40           | ≤54            | PASS    |
|               |          |        |            | AV       | 2389.830   | -53.22       | ≤-41.20     | 41.98           | ≤54            | PASS    |
|               |          |        |            | AV       | 2390.000   | -53.26       | ≤-41.20     | 41.94           | ≤54            | PASS    |
|               |          |        |            | Peak     | 2310.000   | -47.35       | ≤-21.20     | 47.85           | ≤74            | PASS    |
|               |          |        |            | Peak     | 2389.960   | -37.9        | ≤-21.20     | 57.30           | ≤74            | PASS    |
|               |          |        |            | Peak     | 2390.000   | -37.91       | ≤-21.20     | 57.29           | ≤74            | PASS    |
|               |          | High   | 2462       | AV       | 2483.500   | -53.59       | ≤-41.20     | 41.61           | ≤54            | PASS    |
|               |          |        |            | AV       | 2483.560   | -53.65       | ≤-41.20     | 41.55           | ≤54            | PASS    |
|               |          |        |            | AV       | 2500.000   | -55.8        | ≤-41.20     | 39.40           | ≤54            | PASS    |
|               |          |        |            | Peak     | 2483.500   | -37.93       | ≤-21.20     | 57.27           | ≤74            | PASS    |
|               |          |        |            | Peak     | 2483.780   | -37.81       | ≤-21.20     | 57.39           | ≤74            | PASS    |
|               |          |        |            | Peak     | 2500.000   | -45.89       | ≤-21.20     | 49.31           | ≤74            | PASS    |
| 11N20SIS<br>O | Ant      | Low    | 2412       | AV       | 2310.000   | -57.58       | ≤-41.20     | 37.62           | ≤54            | PASS    |
|               |          |        |            | AV       | 2389.960   | -51.91       | ≤-41.20     | 43.29           | ≤54            | PASS    |
|               |          |        |            | AV       | 2390.000   | -51.91       | ≤-41.20     | 43.29           | ≤54            | PASS    |
|               |          |        |            | Peak     | 2310.000   | -47.89       | ≤-21.20     | 47.31           | ≤74            | PASS    |
|               |          |        |            | Peak     | 2389.960   | -36.48       | ≤-21.20     | 58.72           | ≤74            | PASS    |
|               |          |        |            | Peak     | 2390.000   | -36.48       | ≤-21.20     | 58.72           | ≤74            | PASS    |
|               |          | High   | 2462       | AV       | 2483.500   | -52.89       | ≤-41.20     | 42.31           | ≤54            | PASS    |
|               |          |        |            | AV       | 2484.660   | -51.44       | ≤-41.20     | 43.76           | ≤54            | PASS    |
|               |          |        |            | AV       | 2500.000   | -55.8        | ≤-41.20     | 39.40           | ≤54            | PASS    |
|               |          |        |            | Peak     | 2483.500   | -36.65       | ≤-21.20     | 58.55           | ≤74            | PASS    |
| Peak          | 2483.890 | -35.49 | ≤-21.20    | 59.71    | ≤74        | PASS         |             |                 |                |         |



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|  |  |  |  |      |          |        |         |       |     |      |
|--|--|--|--|------|----------|--------|---------|-------|-----|------|
|  |  |  |  | Peak | 2500.000 | -45.93 | ≤-21.20 | 49.27 | ≤74 | PASS |
|--|--|--|--|------|----------|--------|---------|-------|-----|------|

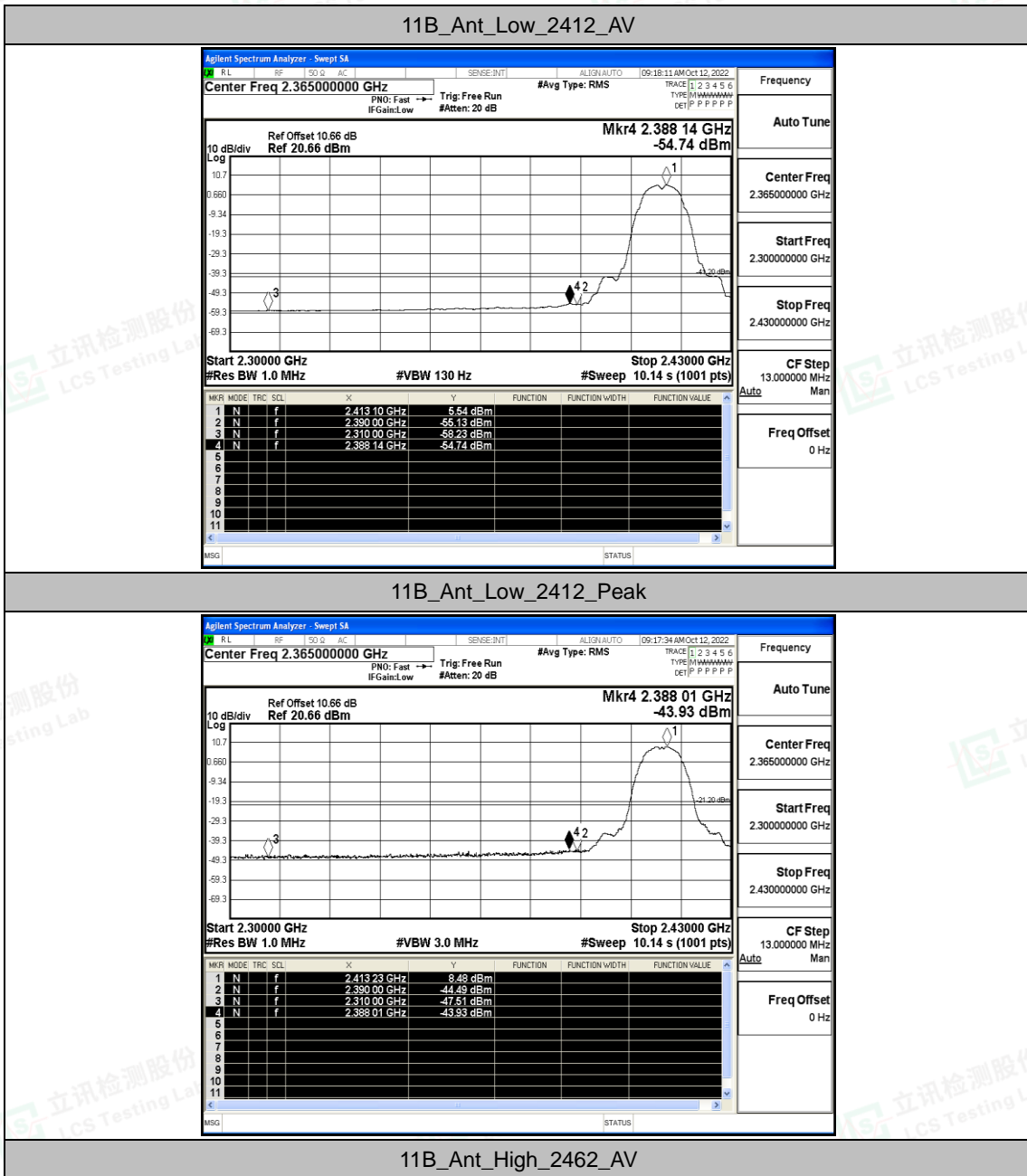
Note:

1. The Antenna Gain 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.





### Test Graphs



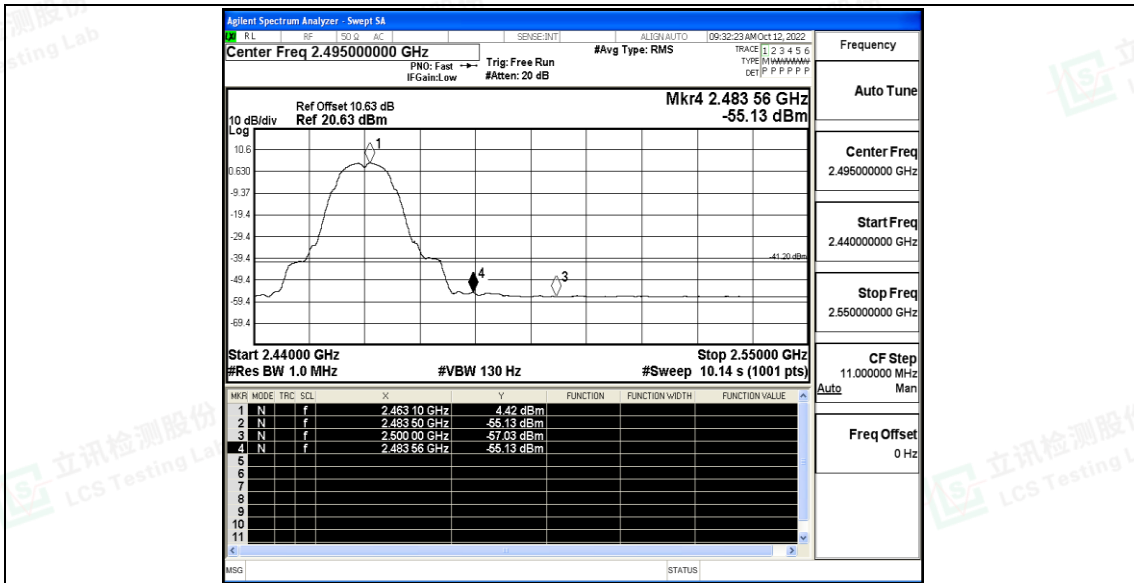
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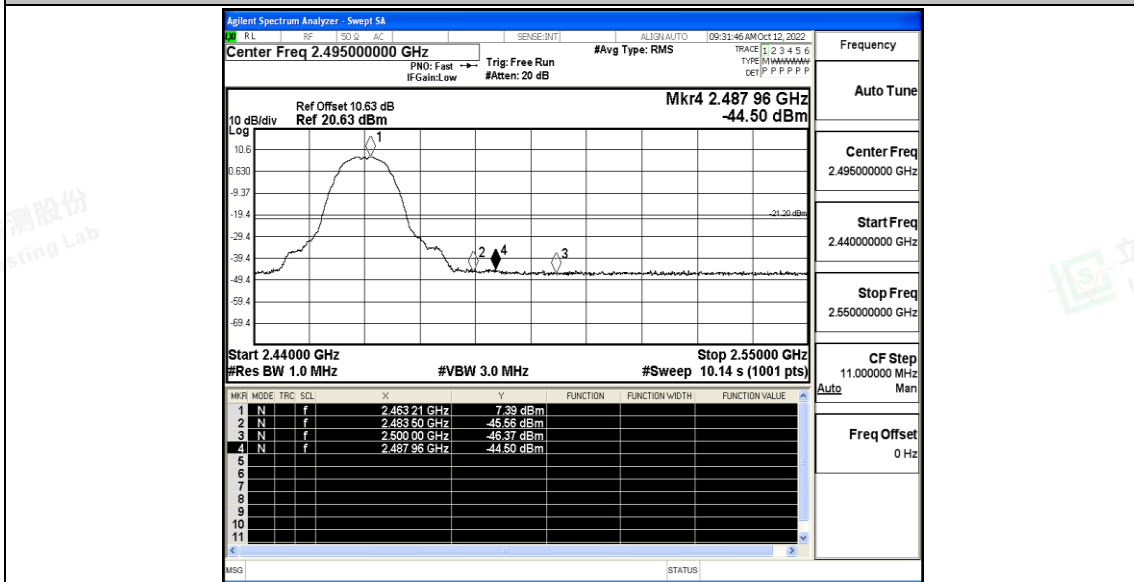
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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11B\_Ant\_High\_2462\_Peak



11G\_Ant\_Low\_2412\_AV

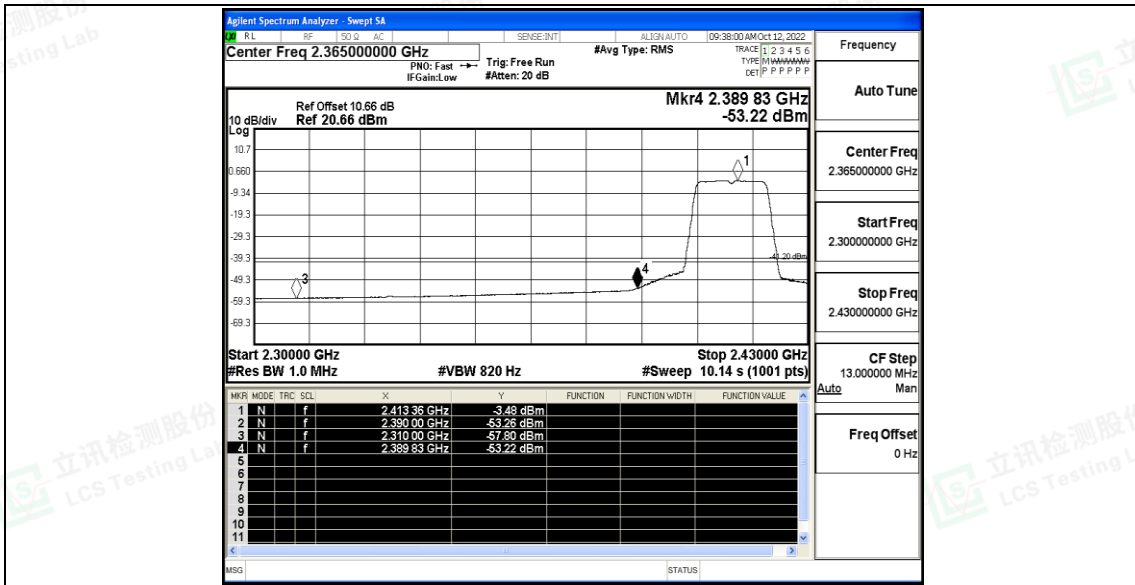


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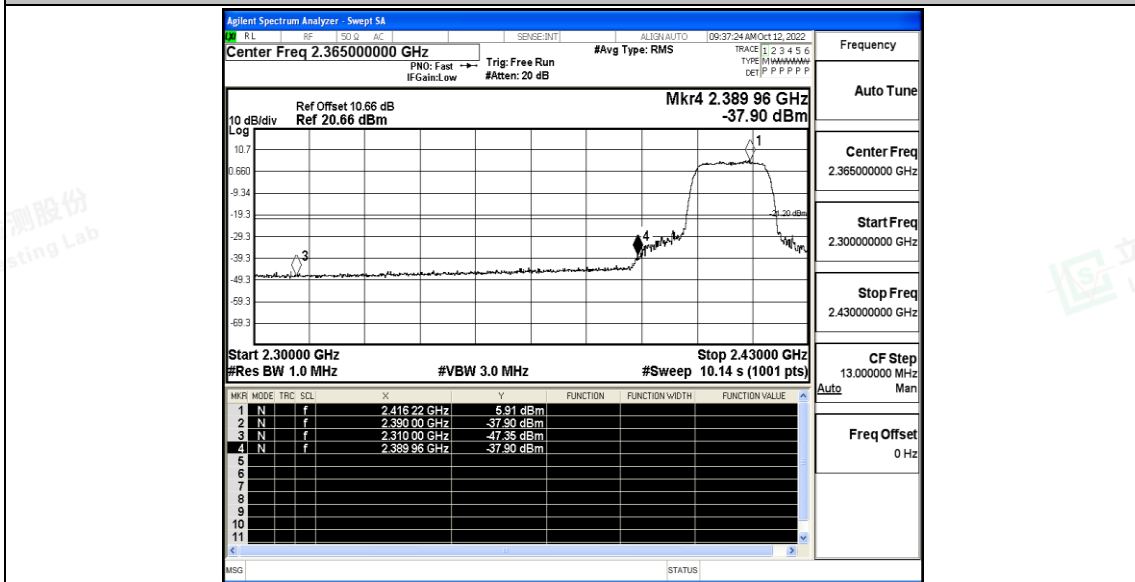
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11G\_Ant\_Low\_2412\_Peak



11G\_Ant\_High\_2462\_AV

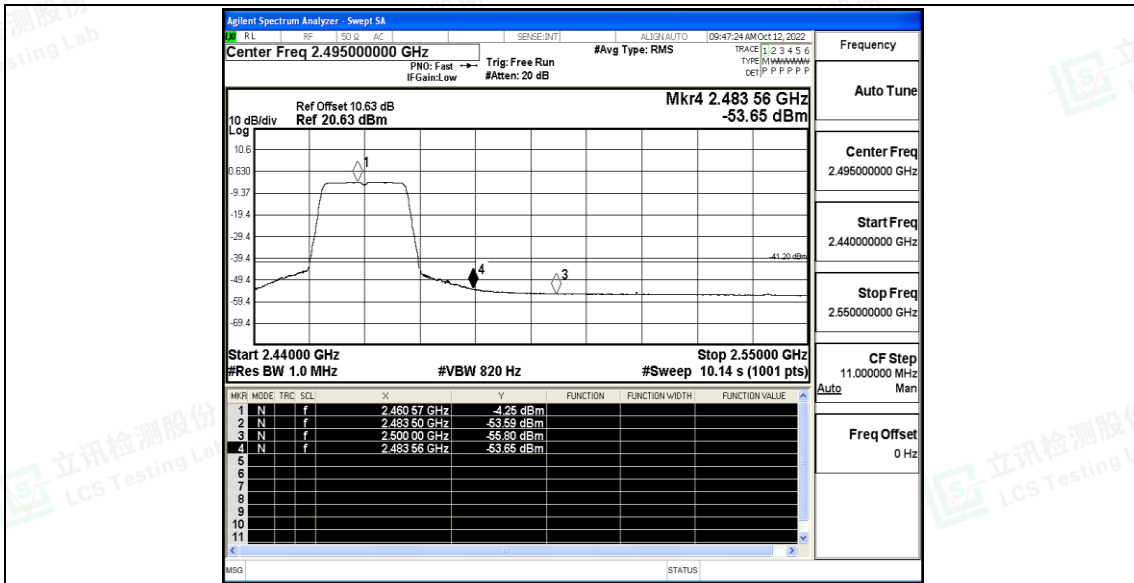


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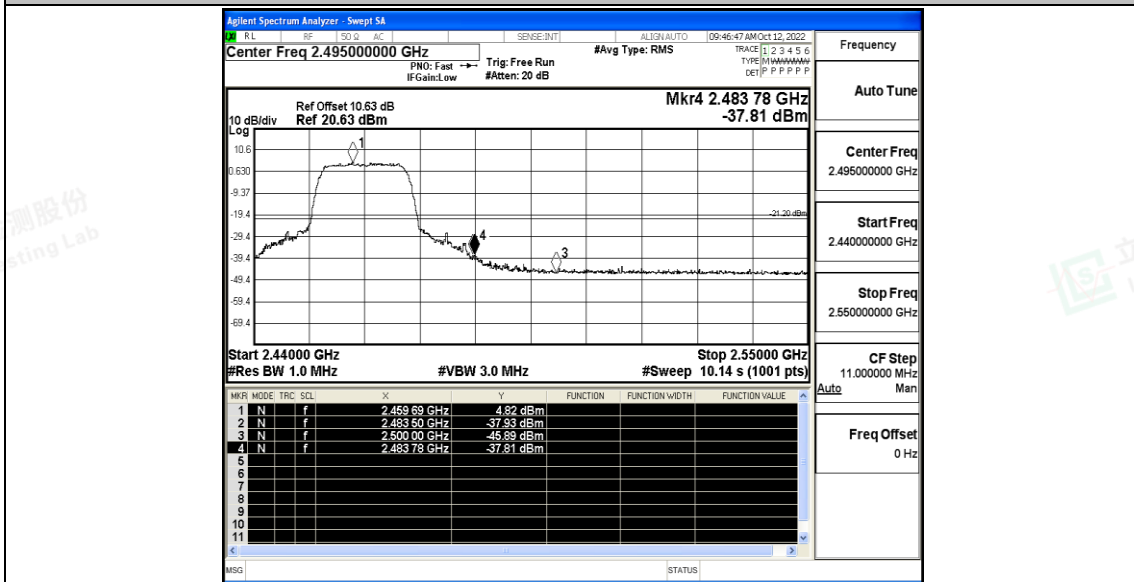
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11G\_Ant\_High\_2462\_Peak



11N20SIS0\_Ant\_Low\_2412\_AV

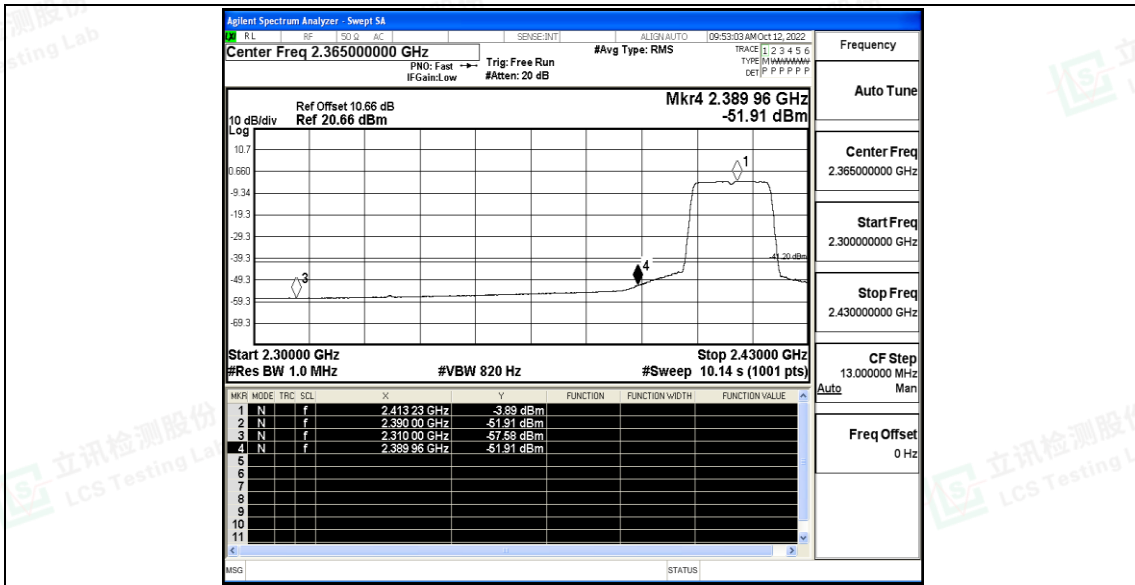


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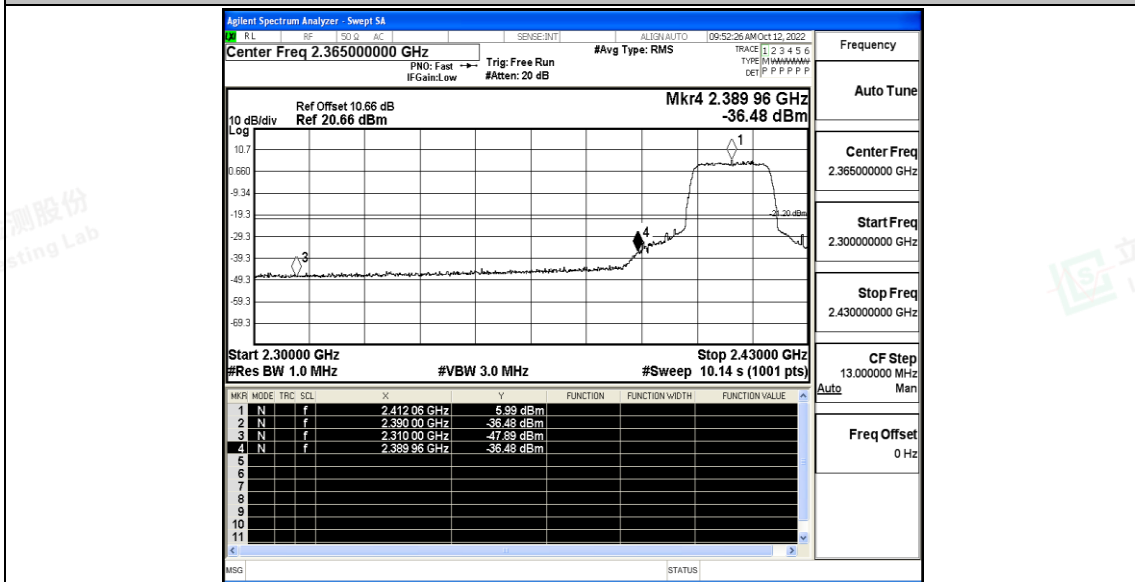
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11N20SISO\_Ant\_Low\_2412\_Peak



11N20SISO\_Ant\_High\_2462\_AV

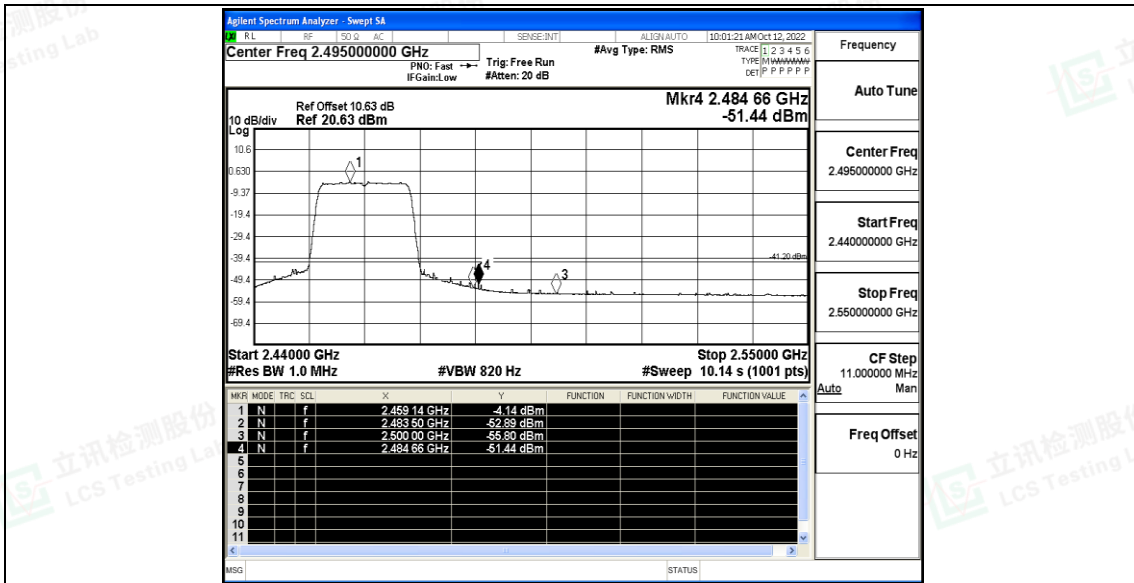


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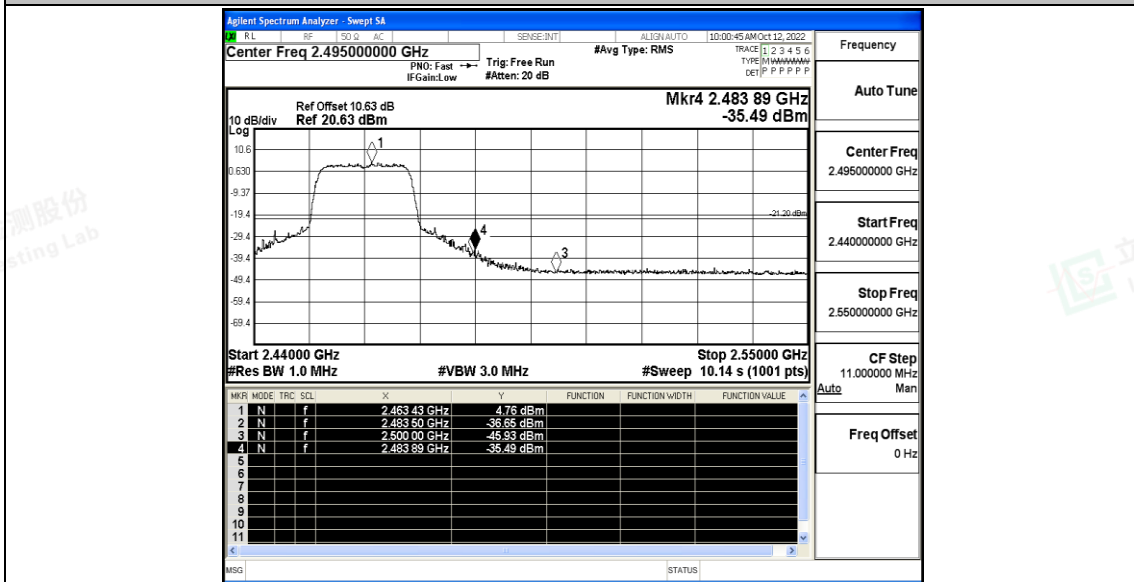
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO\_Ant\_High\_2462\_Peak



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