



## Appendix A

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

Product Name: LED smart floodlight

Test Model: 3-LBW55M

#### Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 23.8° C    |
| Relative Humidity: | 52.1%      |
| ATM Pressure:      | 100.0 kPa  |
| Test Engineer:     | Paddi Chen |
| Supervised by:     | Ling Zhu   |



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## A.1 DTS Bandwidth

### Test Result

| TestMode  | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412           | 9.080        | 2407.480 | 2416.560 | 0.5        | PASS    |
|           |         | 2437           | 9.600        | 2431.960 | 2441.560 | 0.5        | PASS    |
|           |         | 2462           | 9.040        | 2457.480 | 2466.520 | 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       | 2453.840 | 2470.200 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412           | 17.600       | 2403.200 | 2420.800 | 0.5        | PASS    |
|           |         | 2437           | 17.560       | 2428.200 | 2445.760 | 0.5        | PASS    |
|           |         | 2462           | 17.600       | 2453.200 | 2470.800 | 0.5        | PASS    |



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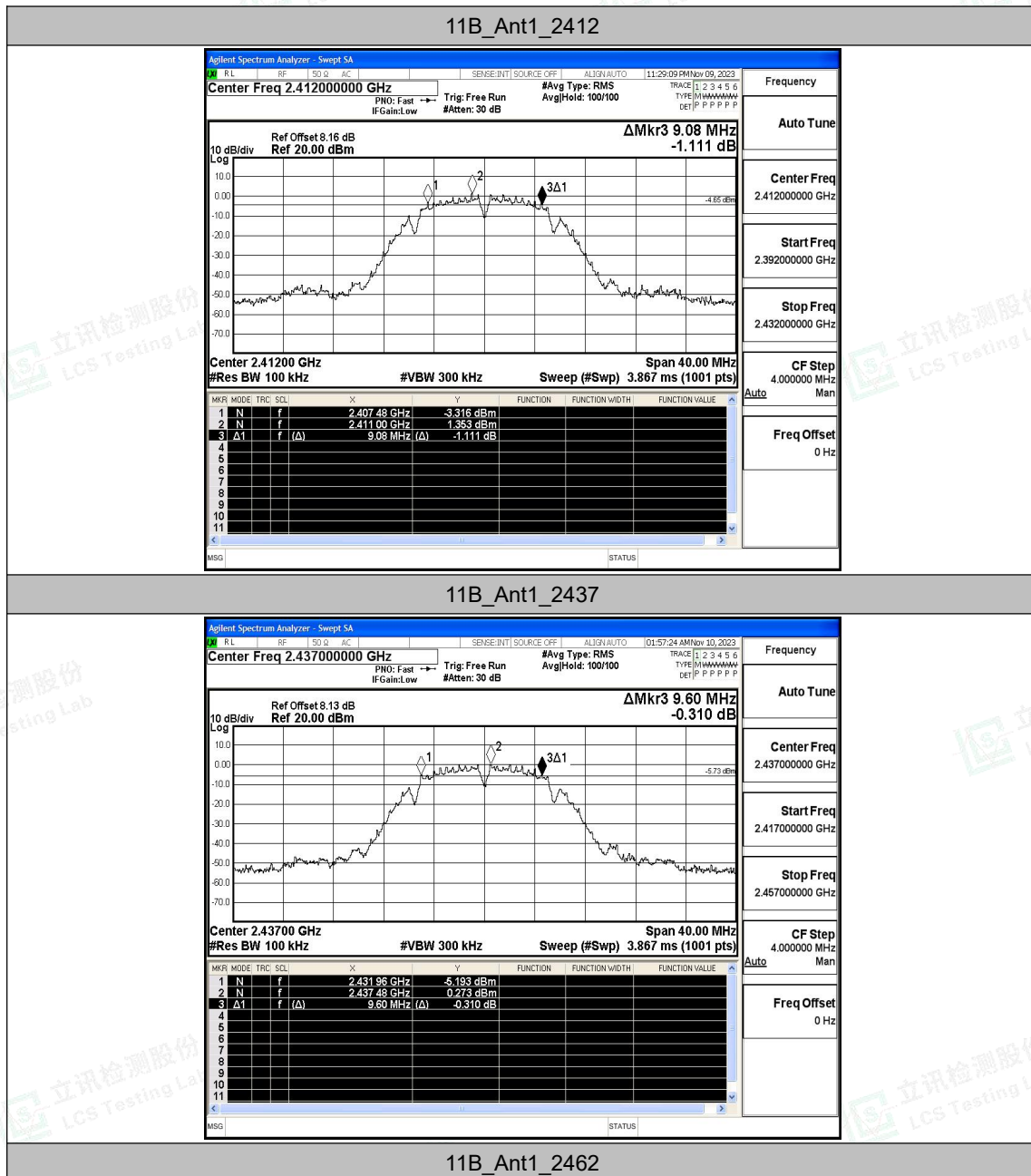
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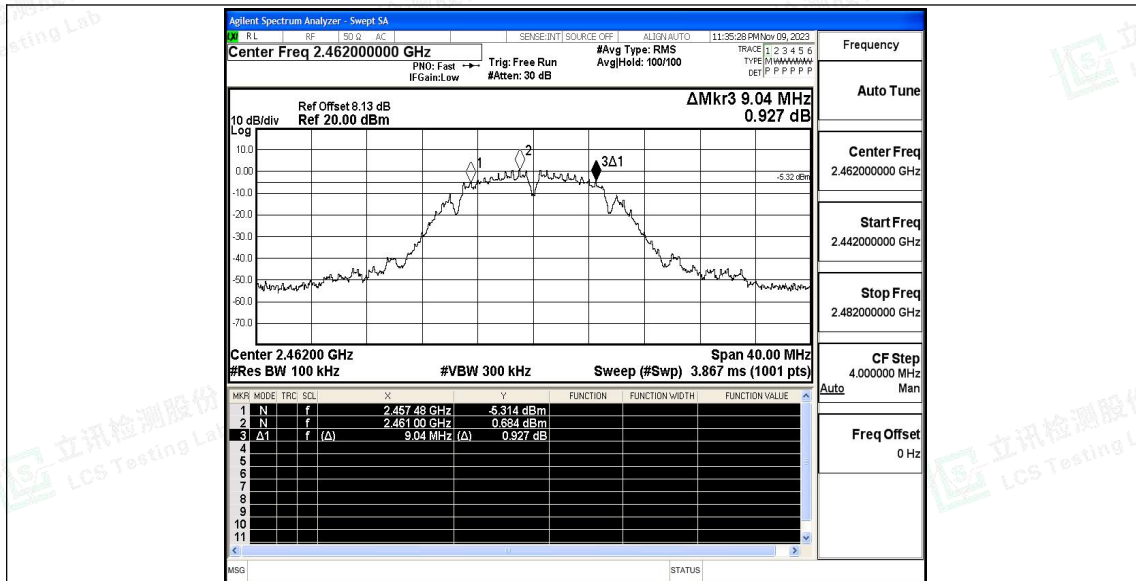
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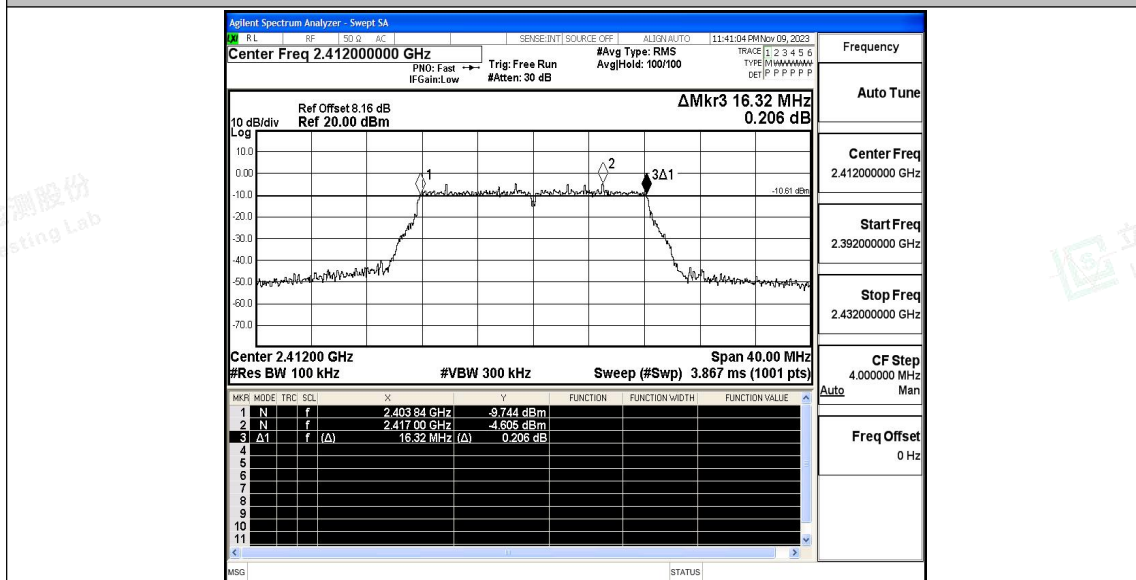
## Test Graphs



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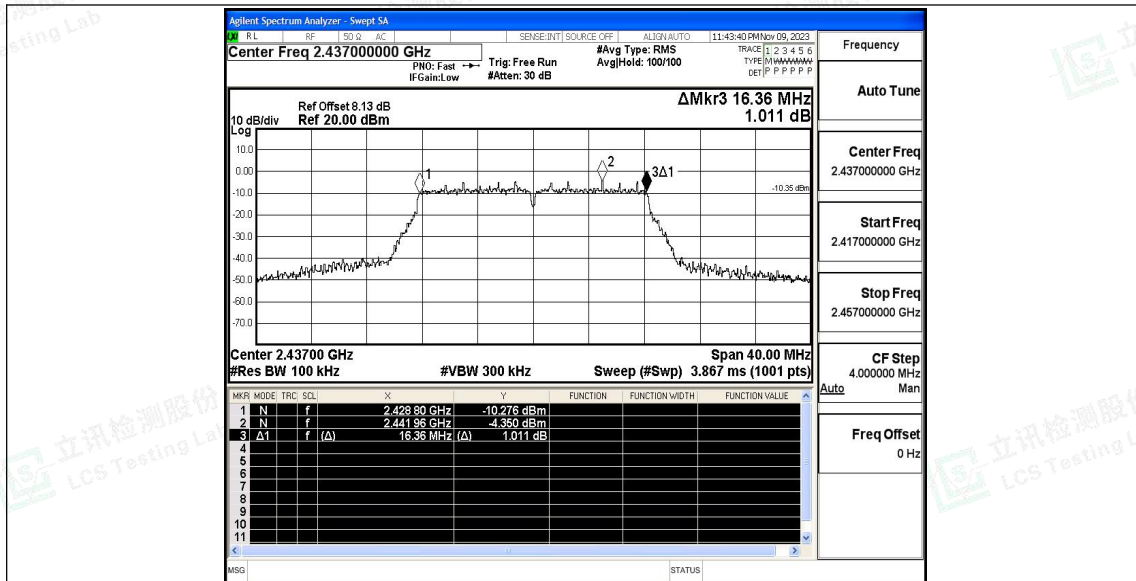


11G\_Ant1\_2412

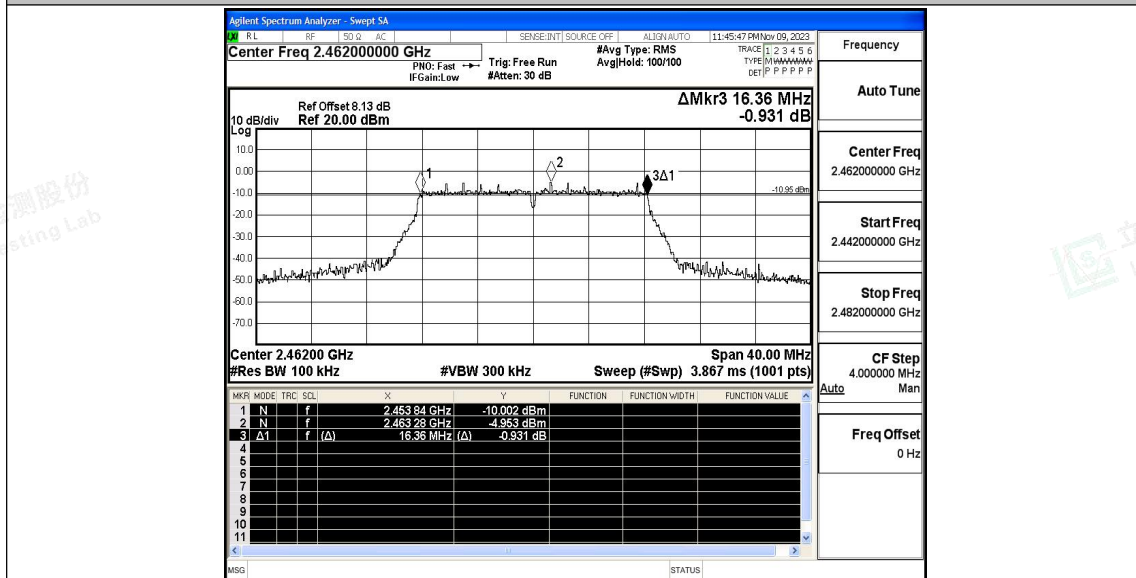


11G\_Ant1\_2437



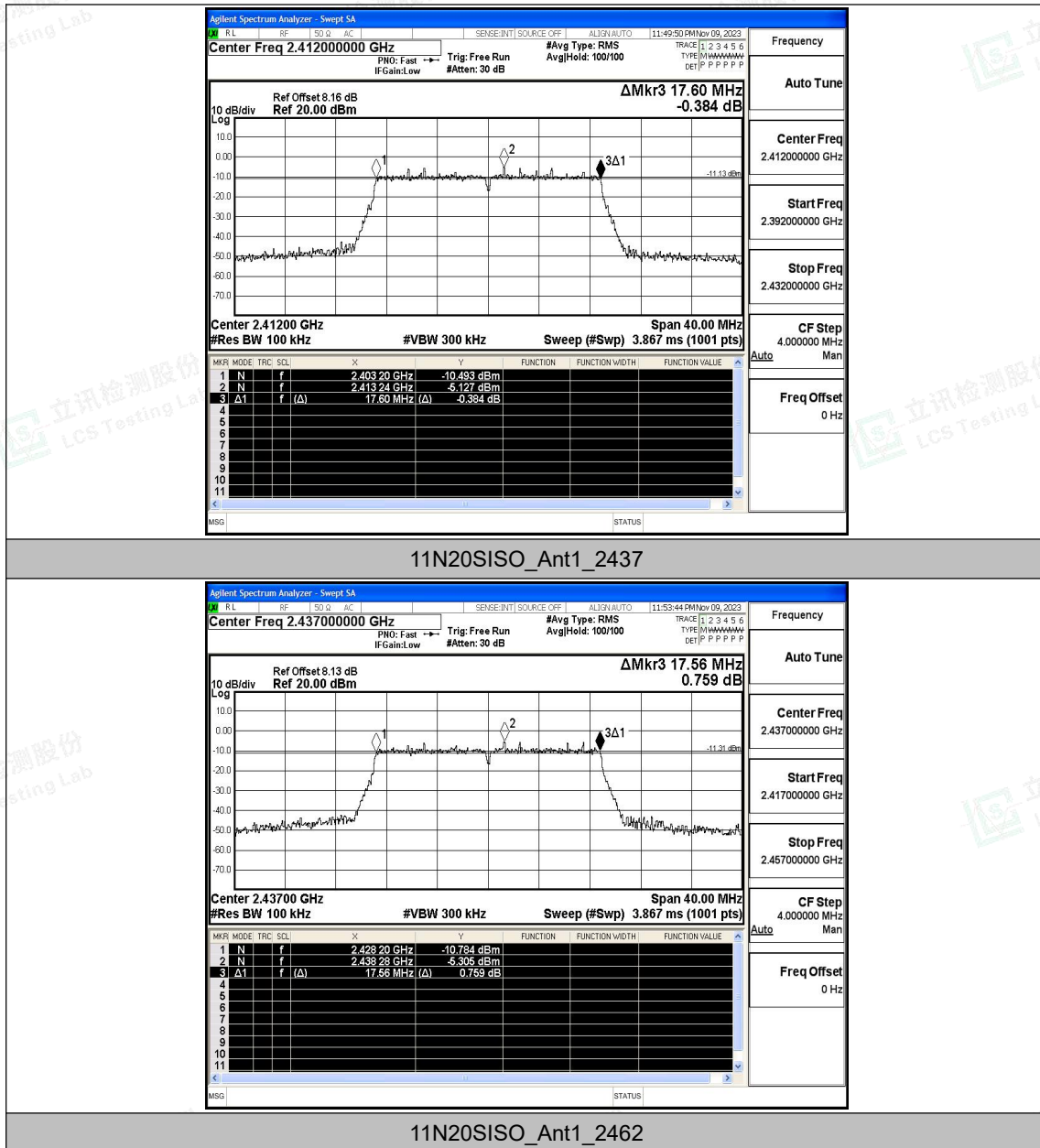


11G\_Ant1\_2462

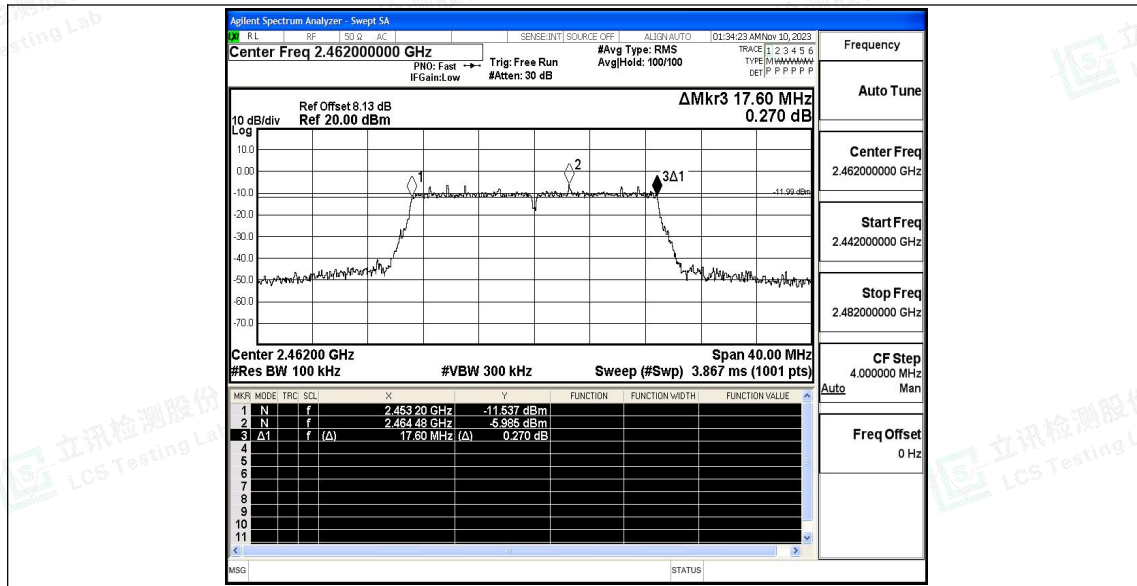


11N20SISO\_Ant1\_2412









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## A.2 Maximum conducted output power

### Test Result Peak

| TestMode  | Antenna | Frequency[MHz] | Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------------|---------|
| 11B       | Ant1    | 2412           | 12.94           | ≤30.00               | PASS    |
|           |         | 2437           | 12.60           | ≤30.00               | PASS    |
|           |         | 2462           | 12.36           | ≤30.00               | PASS    |
| 11G       | Ant1    | 2412           | 13.18           | ≤30.00               | PASS    |
|           |         | 2437           | 13.31           | ≤30.00               | PASS    |
|           |         | 2462           | 12.45           | ≤30.00               | PASS    |
| 11N20SISO | Ant1    | 2412           | 12.37           | ≤30.00               | PASS    |
|           |         | 2437           | 12.48           | ≤30.00               | PASS    |
|           |         | 2462           | 12.14           | ≤30.00               | PASS    |



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### A.3 Maximum power spectral density

#### Test Result

| TestMode  | Antenna | Frequency[MHz] | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|----------------------|-----------------|---------|
| 11B       | Ant1    | 2412           | -13.36               | ≤8.00           | PASS    |
|           |         | 2437           | -5.99                | ≤8.00           | PASS    |
|           |         | 2462           | -10.38               | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412           | -17.98               | ≤8.00           | PASS    |
|           |         | 2437           | -17.48               | ≤8.00           | PASS    |
|           |         | 2462           | -18.85               | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2412           | -18.58               | ≤8.00           | PASS    |
|           |         | 2437           | -17.21               | ≤8.00           | PASS    |
|           |         | 2462           | -19.69               | ≤8.00           | PASS    |



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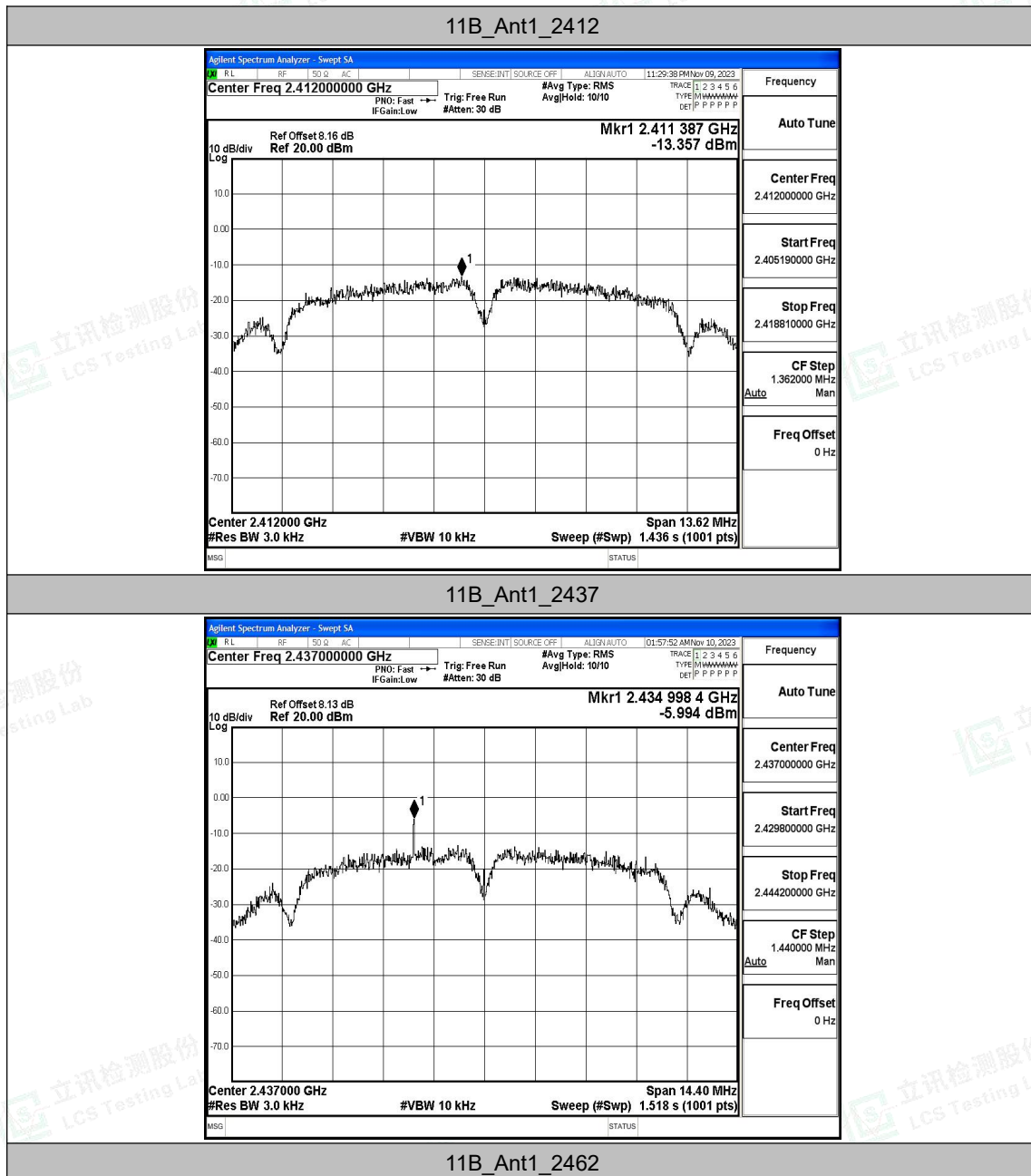
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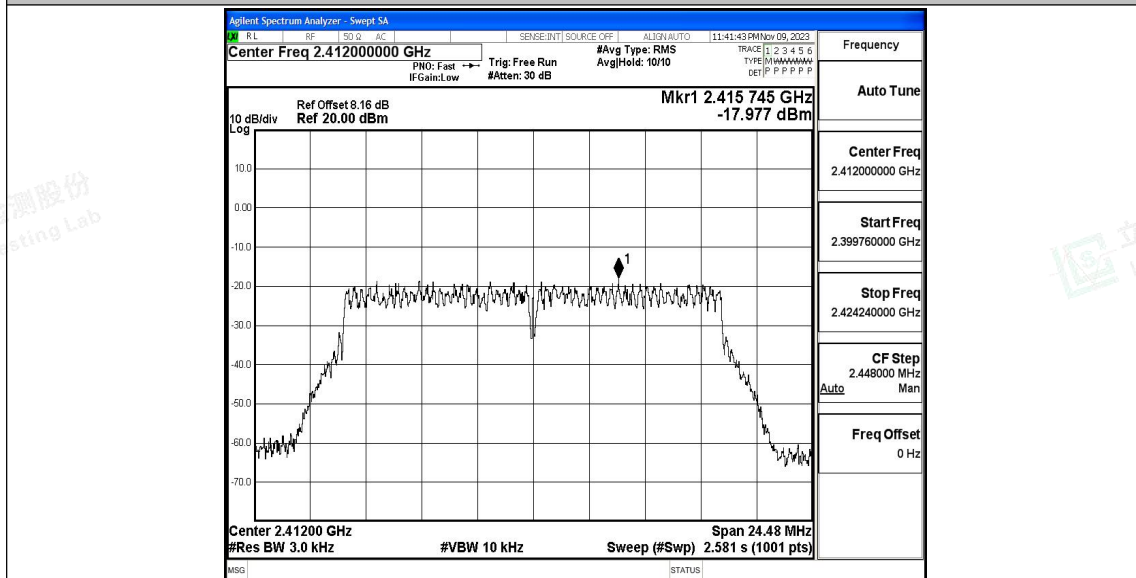
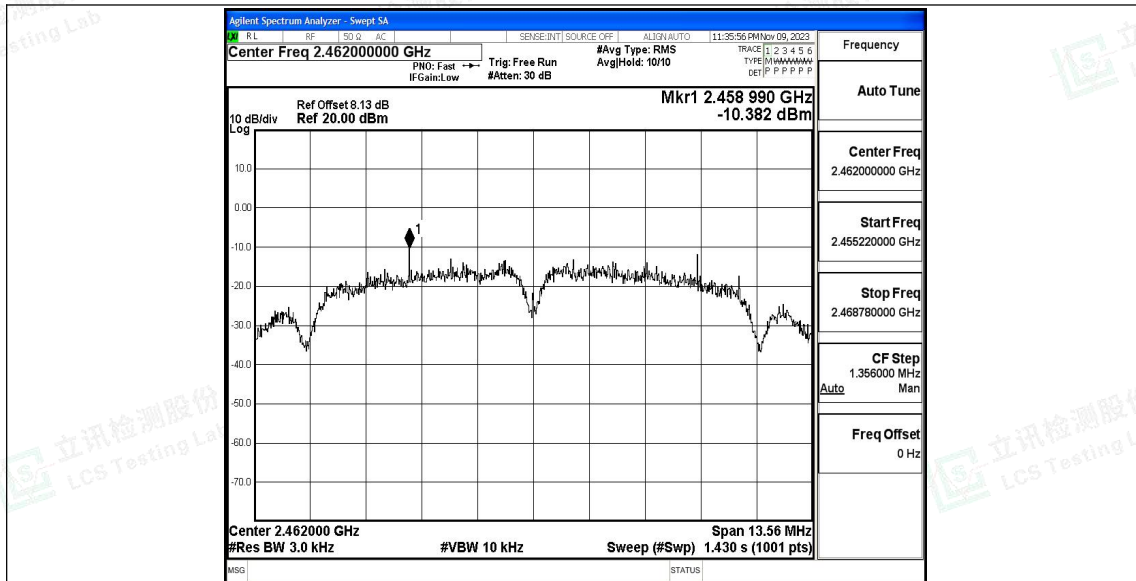
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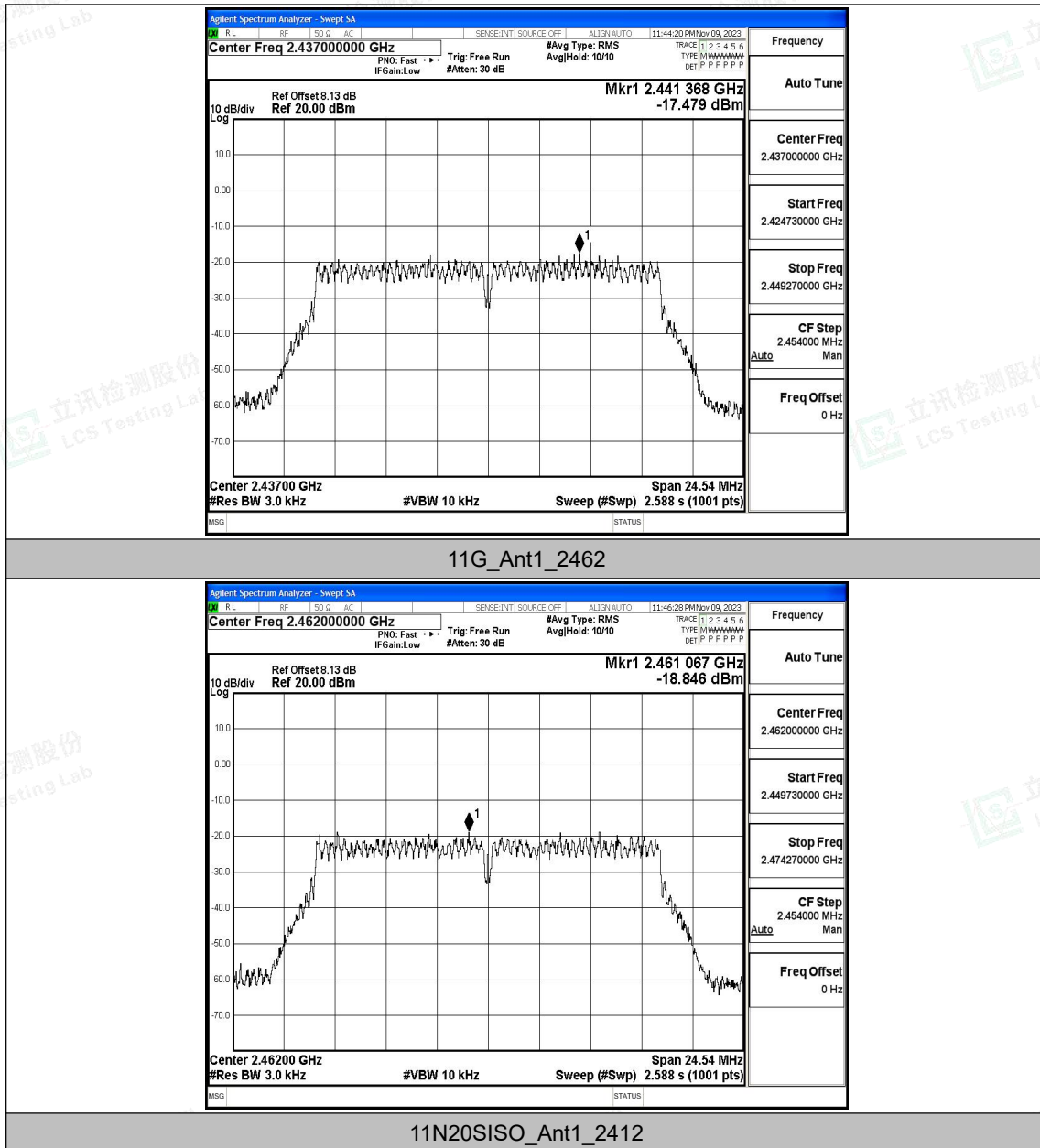
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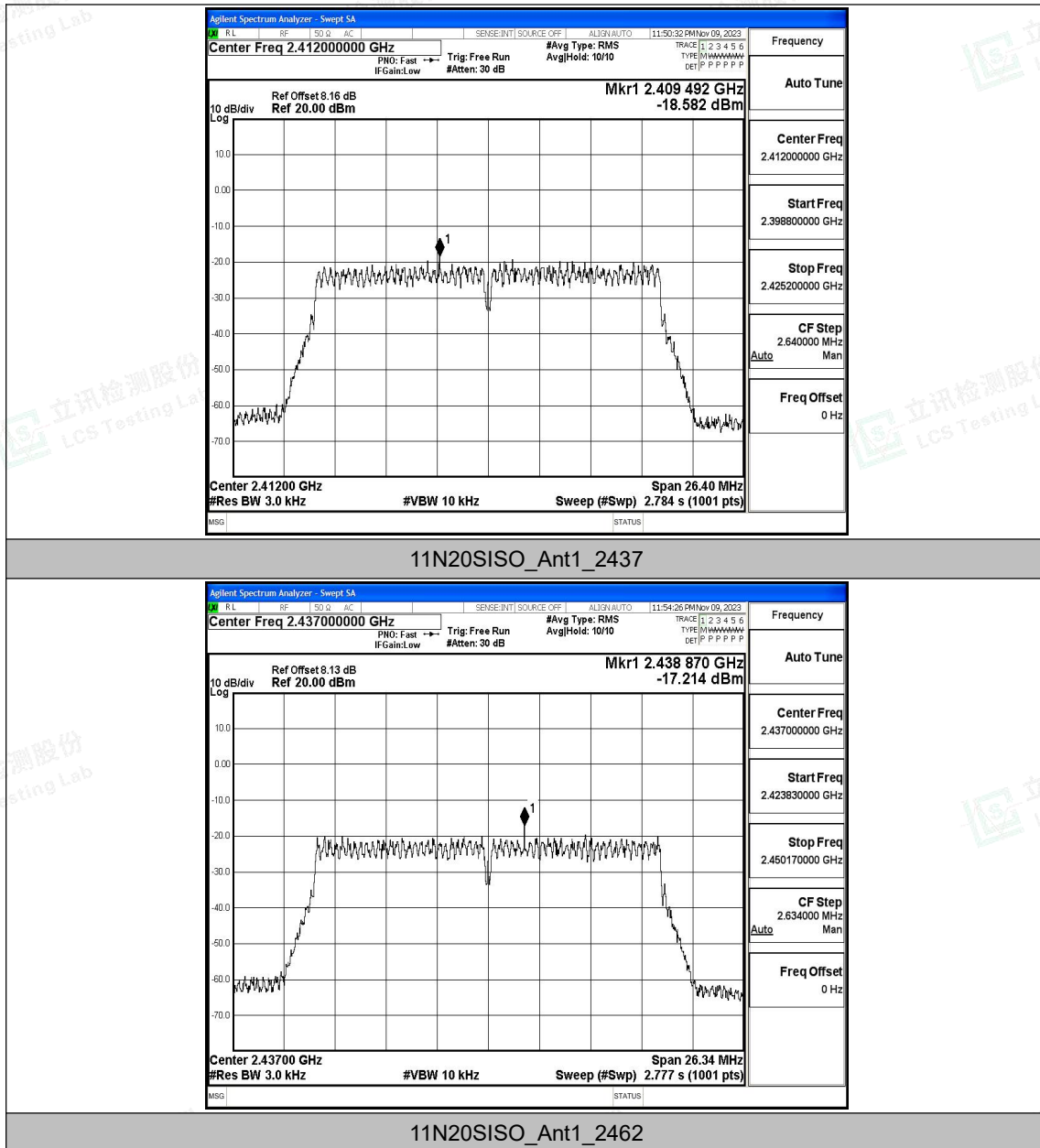


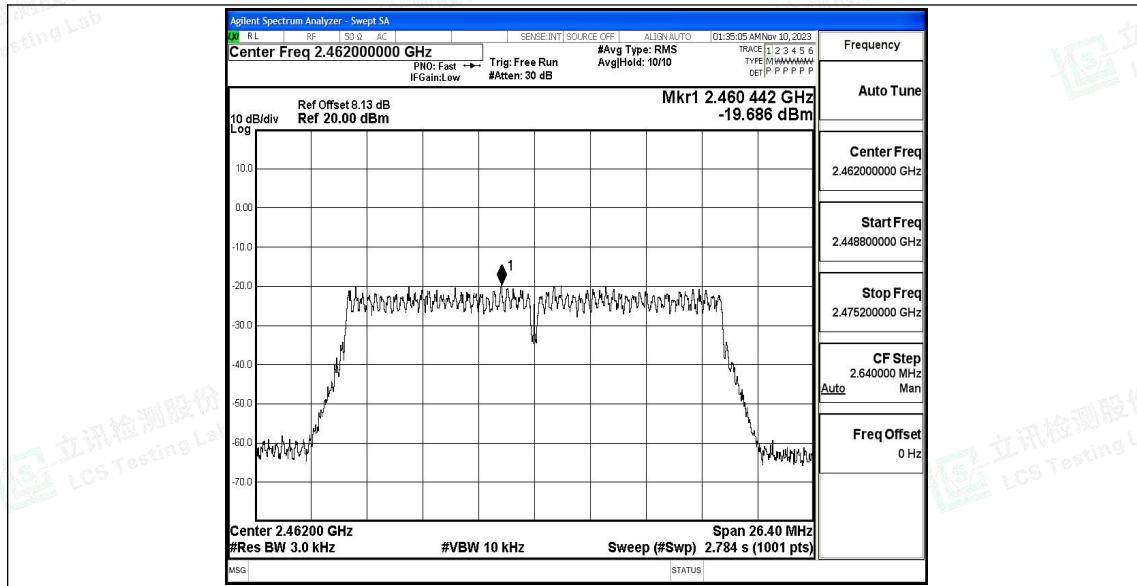
## Test Graphs













## A.4 Band edge measurements

### Reference level measurement Test Result

| TestMode  | Antenna | Freq(MHz) | Max.Point[MHz] | Result[dBm] |
|-----------|---------|-----------|----------------|-------------|
| 11B       | Ant1    | 2412      | 2410.49        | 0.86        |
|           |         | 2437      | 2438.50        | 0.37        |
|           |         | 2462      | 2461.00        | 0.70        |
| 11G       | Ant1    | 2412      | 2414.50        | -4.72       |
|           |         | 2437      | 2441.98        | -4.37       |
|           |         | 2462      | 2465.73        | -5.45       |
| 11N20SISO | Ant1    | 2412      | 2408.25        | -6.62       |
|           |         | 2437      | 2432.00        | -5.37       |
|           |         | 2462      | 2466.99        | -5.66       |

### Band edge measurements Test Result

| TestMode  | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|----------------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low    | 2412           | 0.86          | -45.51      | ≤-19.14    | PASS    |
|           |         | High   | 2462           | 0.70          | -50.2       | ≤-19.3     | PASS    |
| 11G       | Ant1    | Low    | 2412           | -4.72         | -43.89      | ≤-24.72    | PASS    |
|           |         | High   | 2462           | -5.45         | -49.09      | ≤-25.45    | PASS    |
| 11N20SISO | Ant1    | Low    | 2412           | -6.62         | -45.38      | ≤-26.62    | PASS    |
|           |         | High   | 2462           | -5.66         | -49.66      | ≤-25.66    | PASS    |



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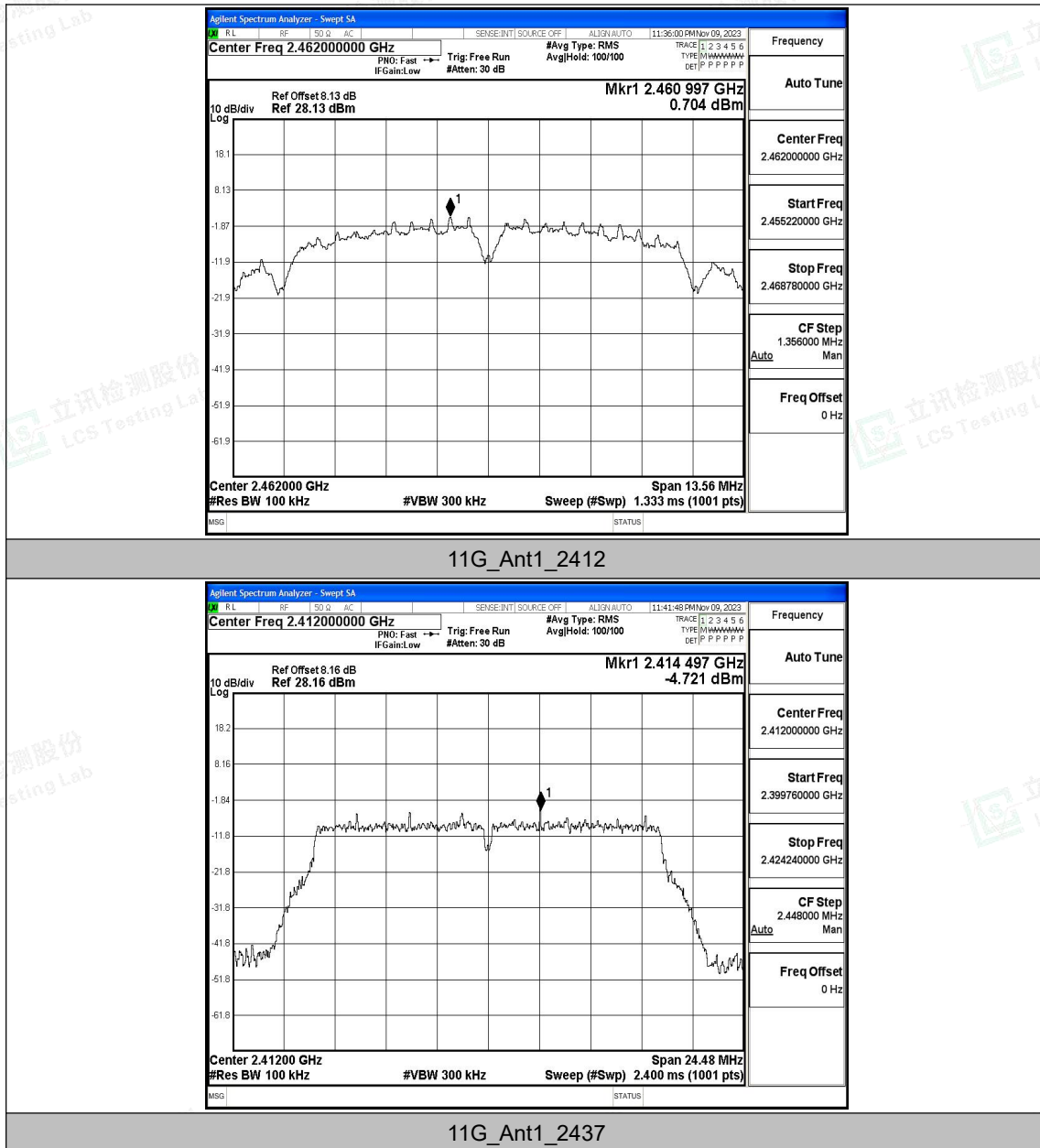
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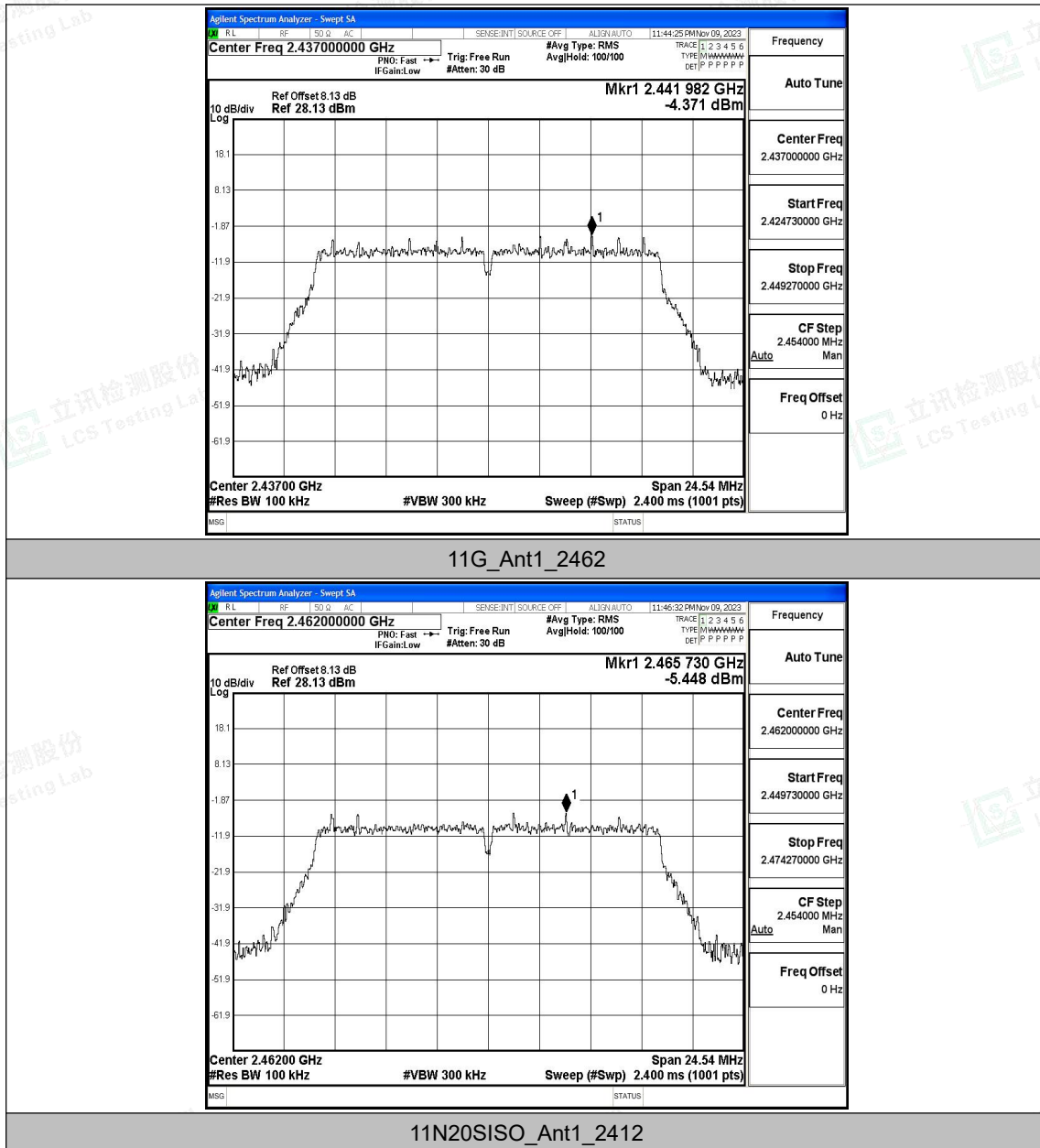


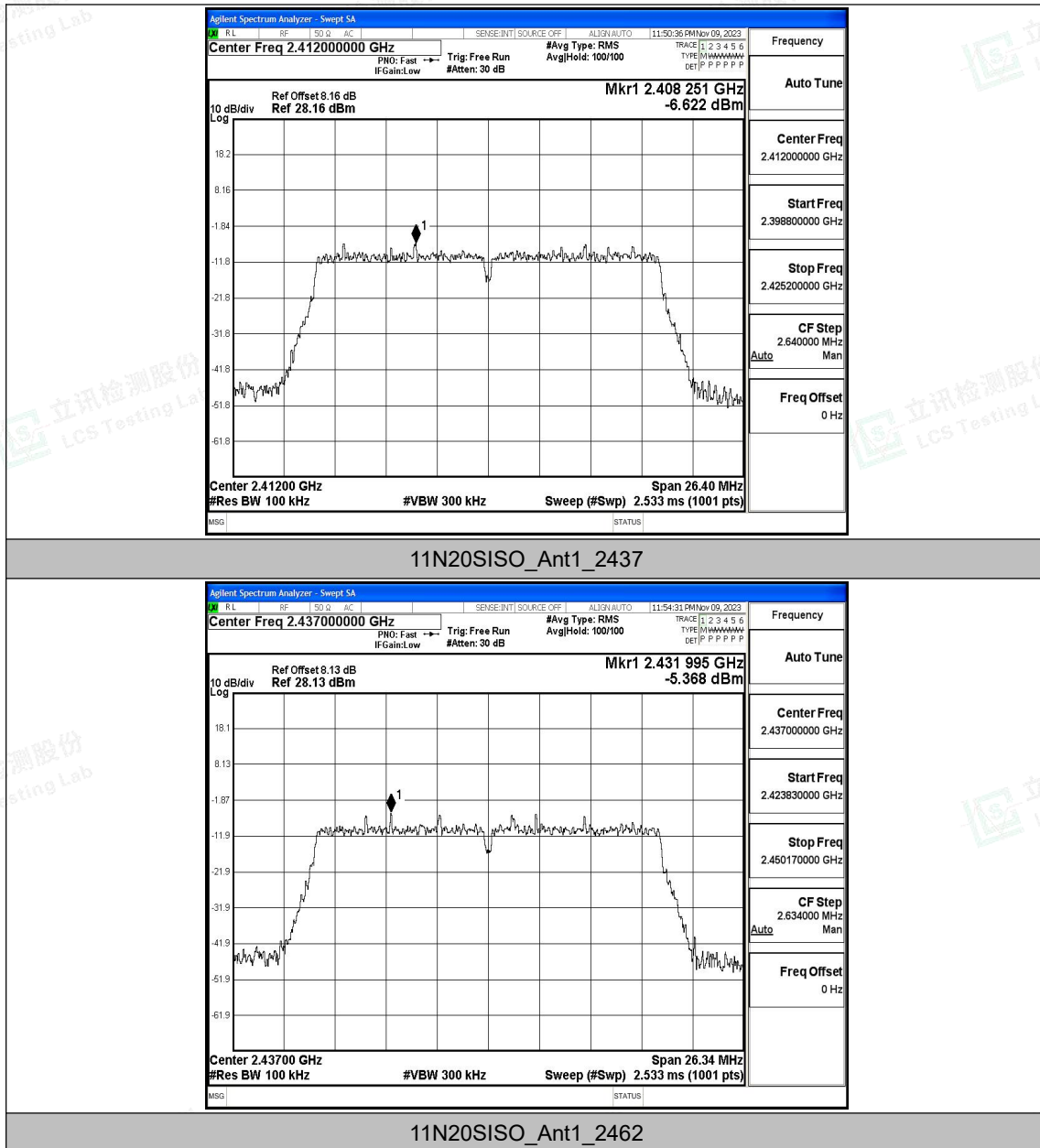


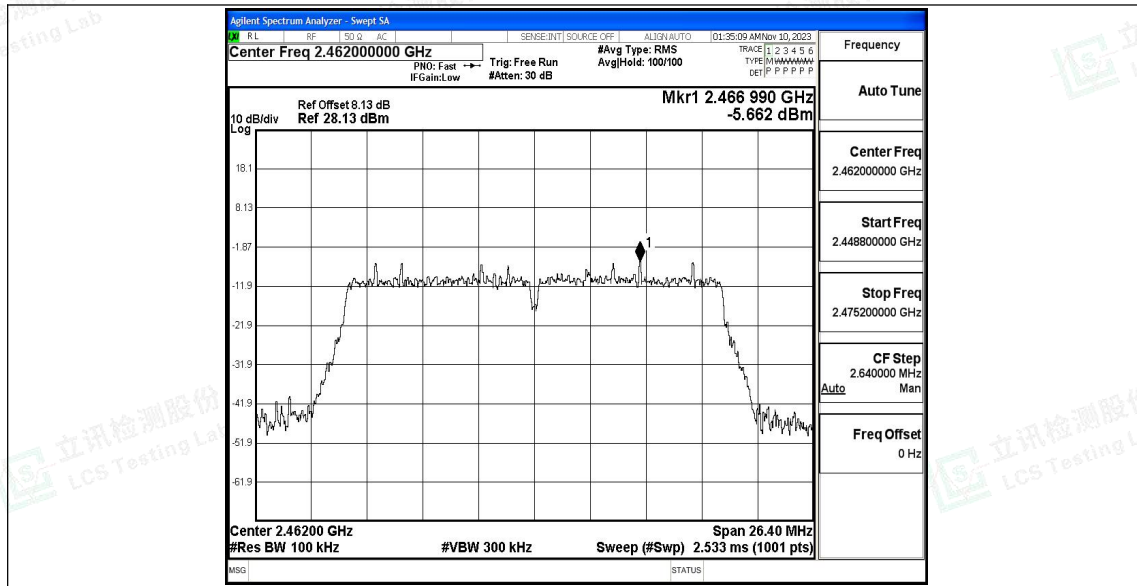
## Reference level measurement Test Graphs







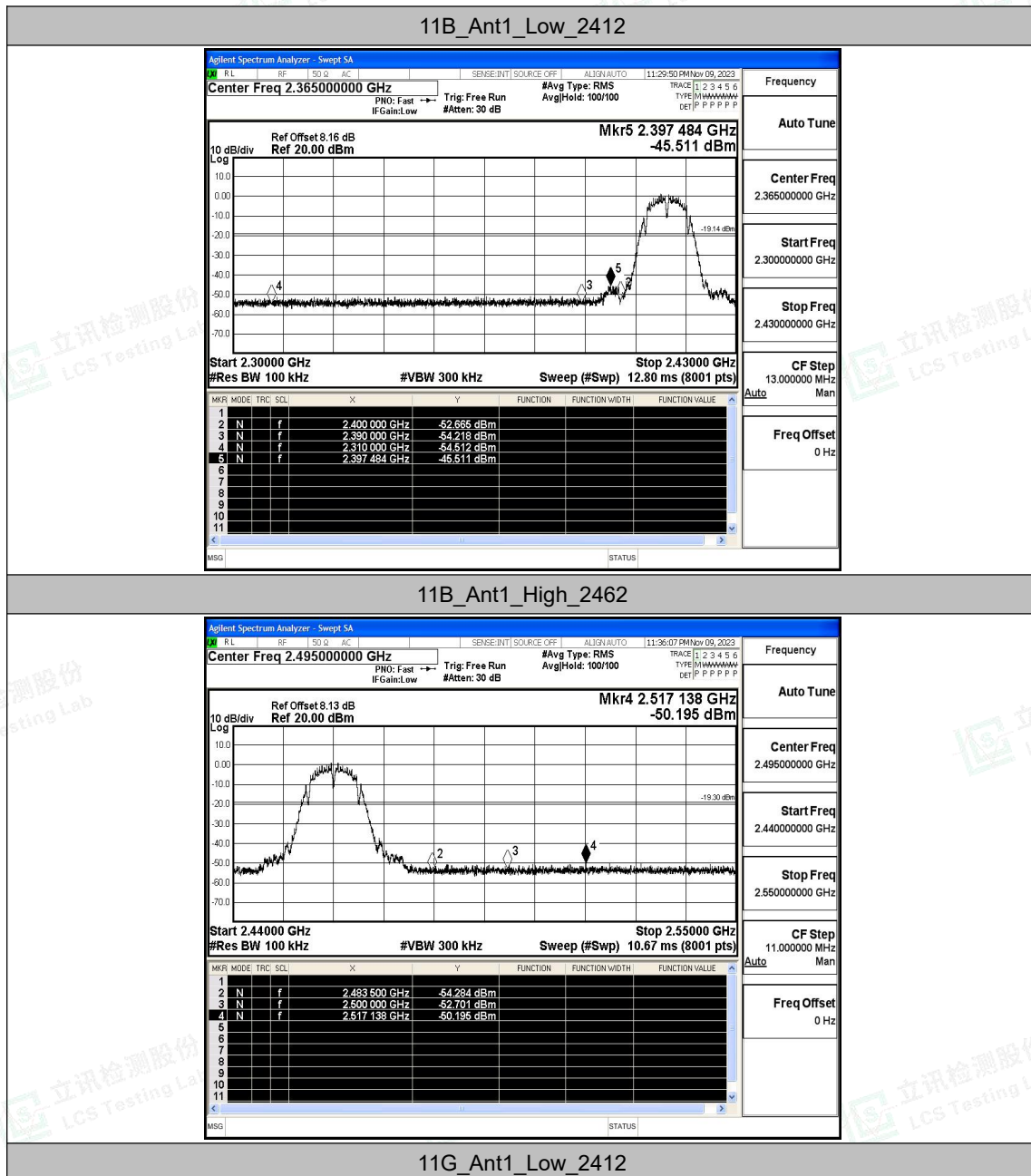




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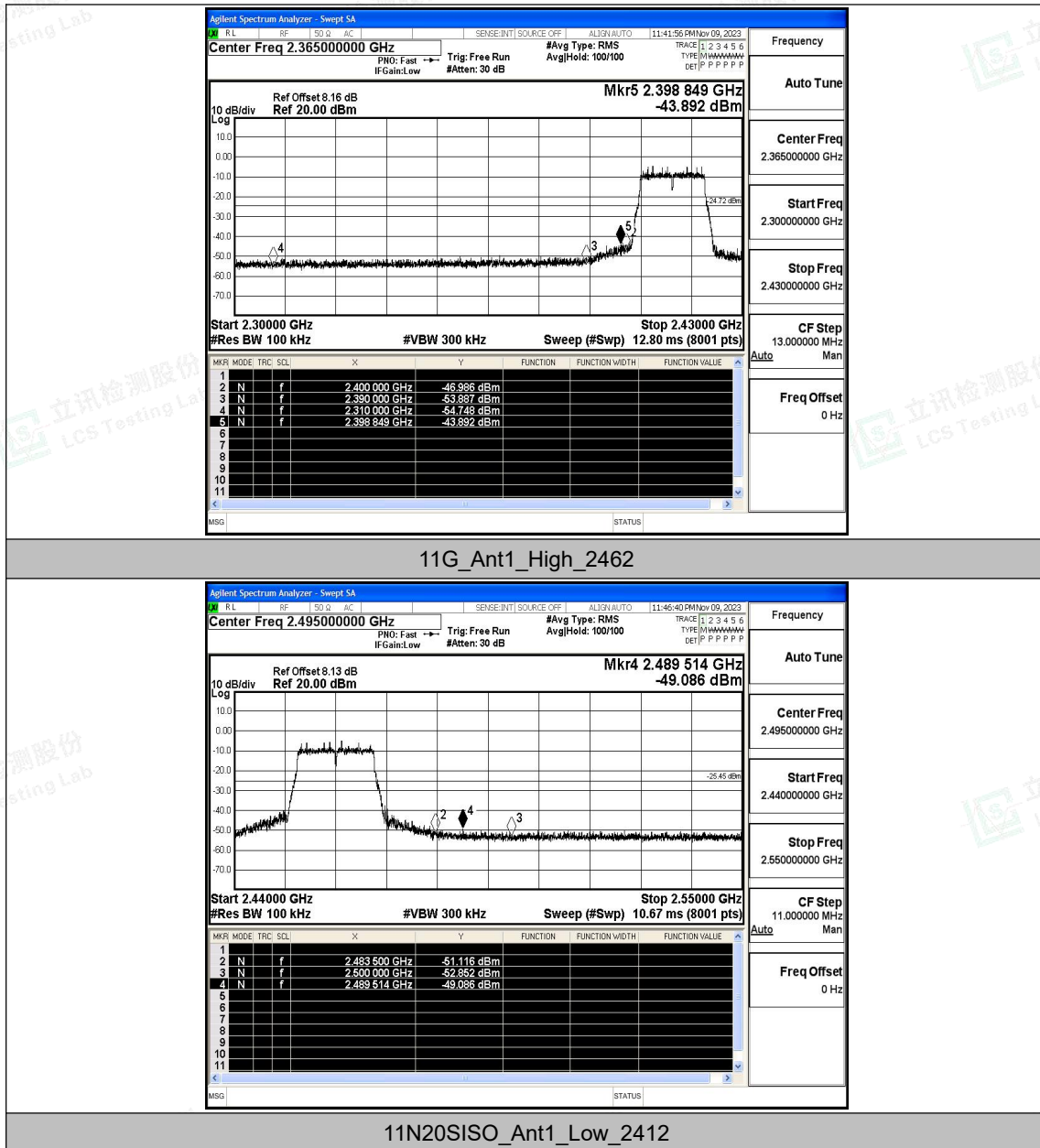


## Band edge measurements Test Graphs

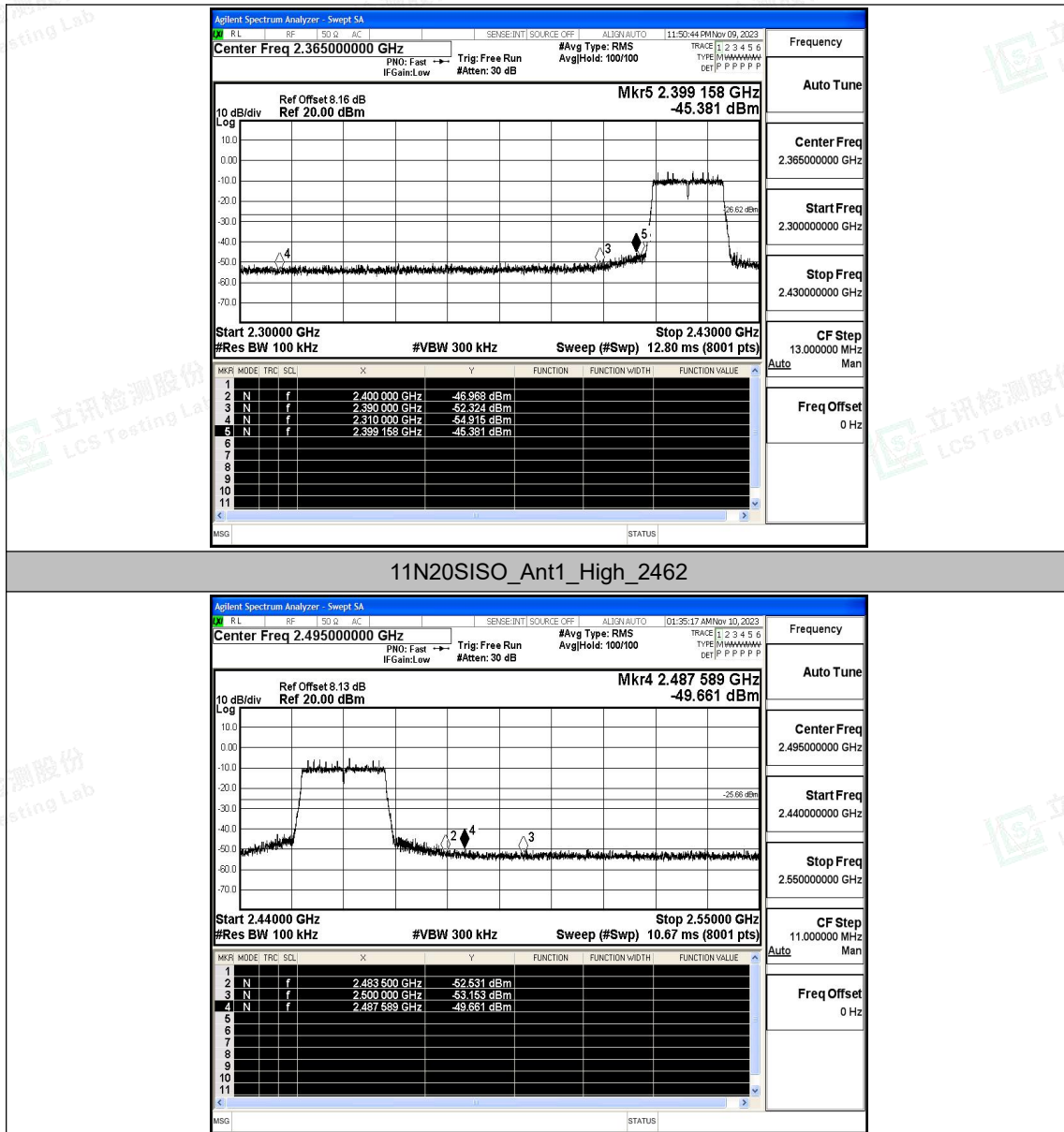


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## A.5 Conducted Spurious Emission

### Reference level measurement Test Result

| TestMode  | Antenna | Freq(MHz) | Max.Point[MHz] | Result[dBm] |
|-----------|---------|-----------|----------------|-------------|
| 11B       | Ant1    | 2412      | 2410.49        | 0.86        |
|           |         | 2437      | 2438.50        | 0.37        |
|           |         | 2462      | 2461.00        | 0.70        |
| 11G       | Ant1    | 2412      | 2414.50        | -4.72       |
|           |         | 2437      | 2441.98        | -4.37       |
|           |         | 2462      | 2465.73        | -5.45       |
| 11N20SISO | Ant1    | 2412      | 2408.25        | -6.62       |
|           |         | 2437      | 2432.00        | -5.37       |
|           |         | 2462      | 2466.99        | -5.66       |

### Conducted Spurious Emission Test Result

| TestMode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | 30~1000         | 0.86           | -61.5        | ≤-19.14     | PASS    |
|           |         |                | 1000~26500      | 0.86           | -46.65       | ≤-19.14     | PASS    |
|           |         | 2437           | 30~1000         | 0.37           | -61.77       | ≤-19.63     | PASS    |
|           |         |                | 1000~26500      | 0.37           | -49.18       | ≤-19.63     | PASS    |
|           |         | 2462           | 30~1000         | 0.70           | -61.64       | ≤-19.3      | PASS    |
|           |         |                | 1000~26500      | 0.70           | -48.86       | ≤-19.3      | PASS    |
| 11G       | Ant1    | 2412           | 30~1000         | -4.72          | -61.6        | ≤-24.72     | PASS    |
|           |         |                | 1000~26500      | -4.72          | -47.58       | ≤-24.72     | PASS    |
|           |         | 2437           | 30~1000         | -4.37          | -61.88       | ≤-24.37     | PASS    |
|           |         |                | 1000~26500      | -4.37          | -42.77       | ≤-24.37     | PASS    |
|           |         | 2462           | 30~1000         | -5.45          | -62.15       | ≤-25.45     | PASS    |
|           |         |                | 1000~26500      | -5.45          | -46.59       | ≤-25.45     | PASS    |
| 11N20SISO | Ant1    | 2412           | 30~1000         | -6.62          | -61.48       | ≤-26.62     | PASS    |
|           |         |                | 1000~26500      | -6.62          | -48.97       | ≤-26.62     | PASS    |
|           |         | 2437           | 30~1000         | -5.37          | -61.12       | ≤-25.37     | PASS    |
|           |         |                | 1000~26500      | -5.37          | -48.4        | ≤-25.37     | PASS    |
|           |         | 2462           | 30~1000         | -5.66          | -61.8        | ≤-25.66     | PASS    |
|           |         |                | 1000~26500      | -5.66          | -49.06       | ≤-25.66     | PASS    |



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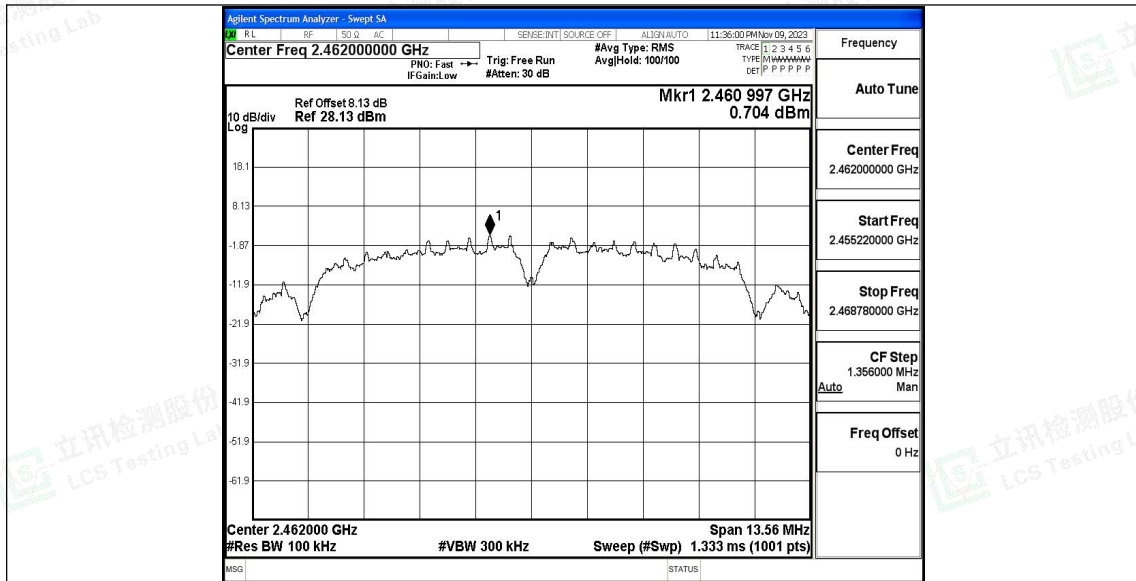
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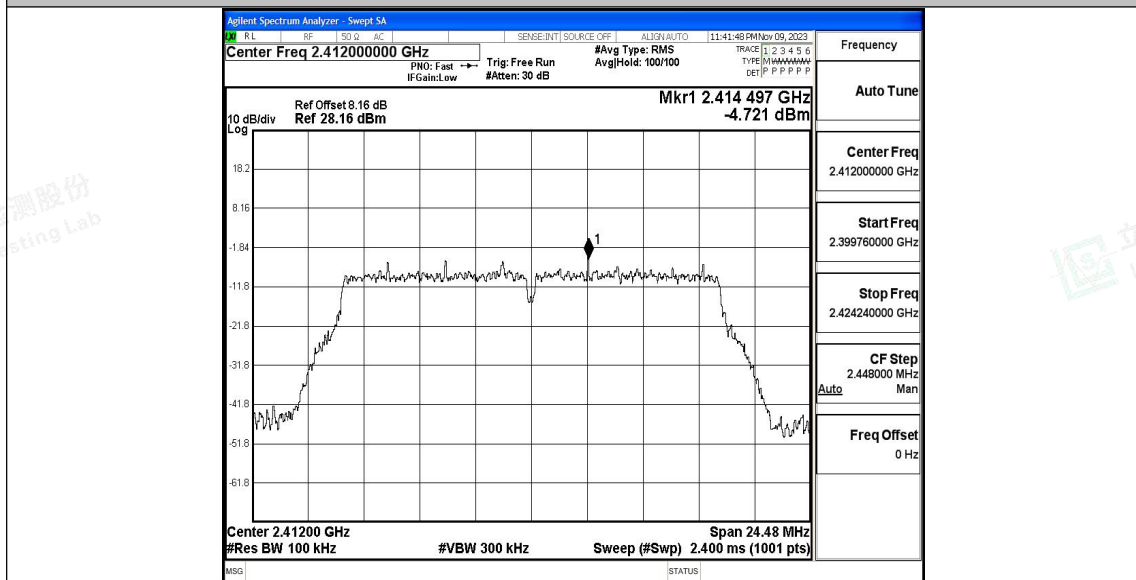


## Reference level measurement Test Graphs



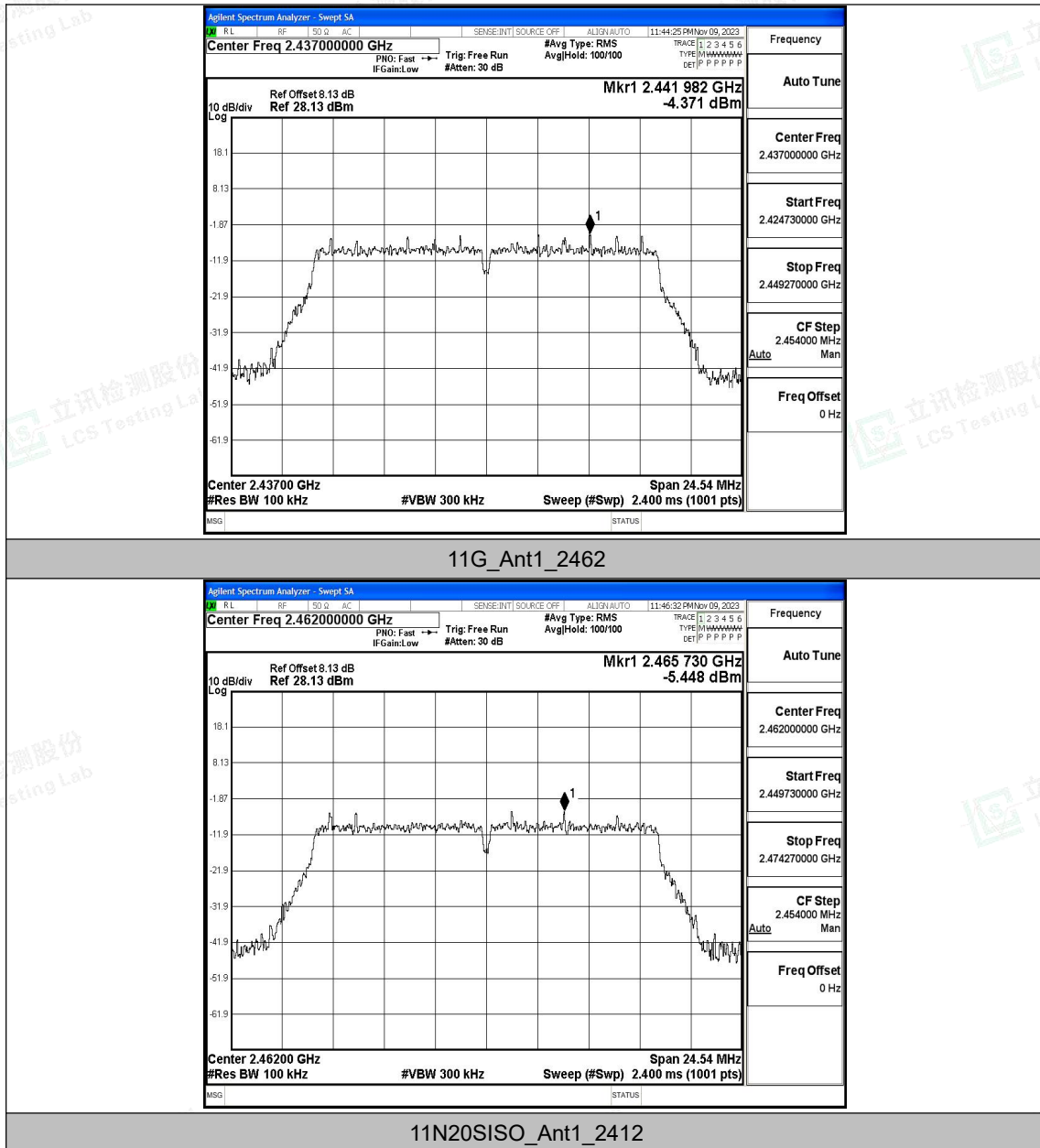


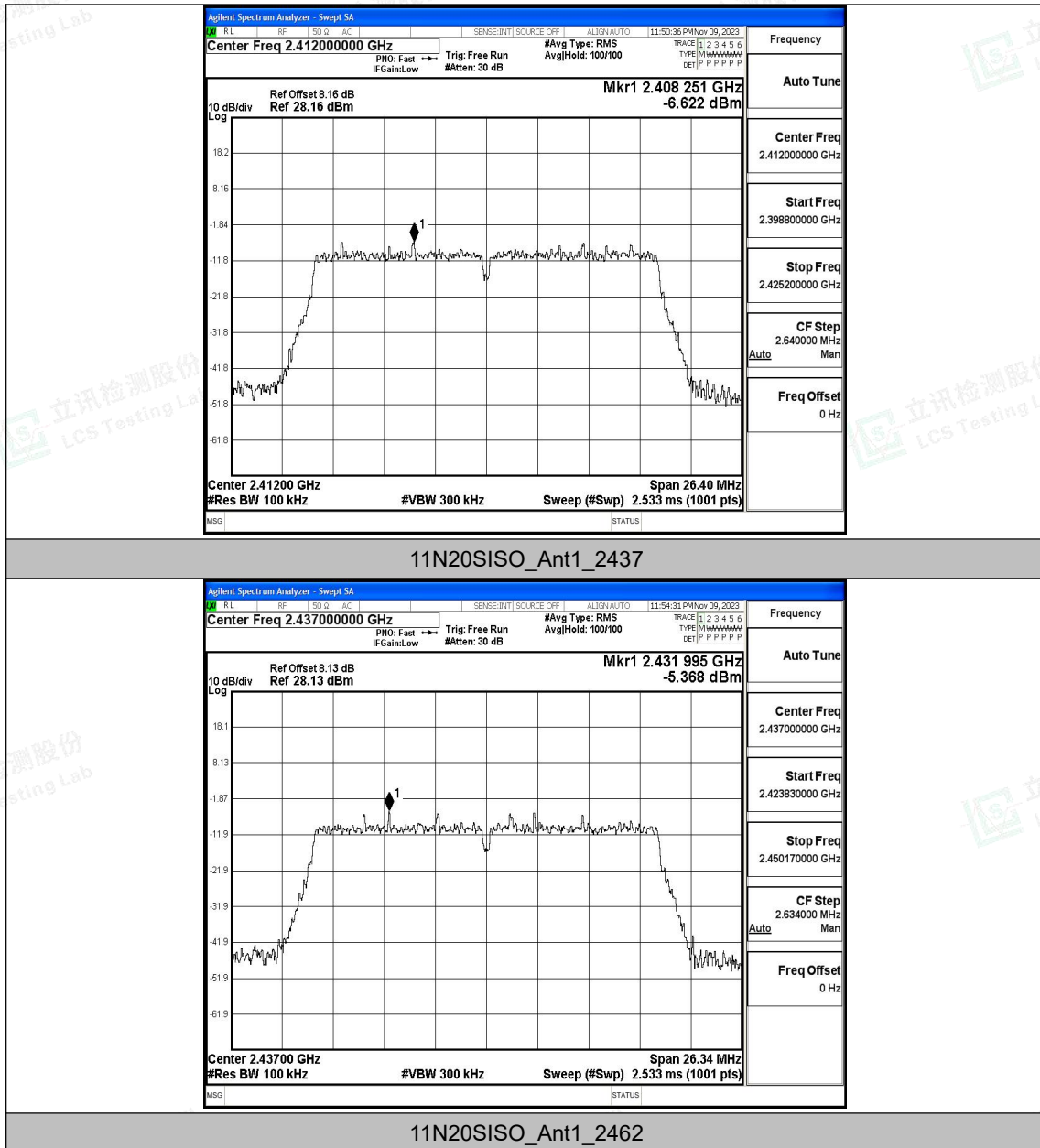
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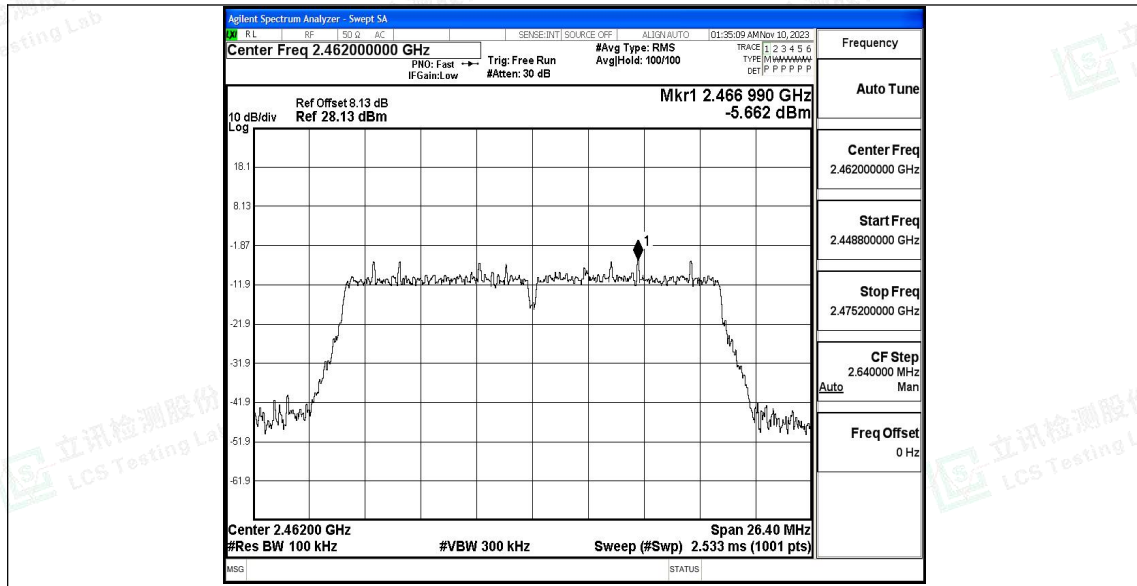
11G\_Ant1\_2437









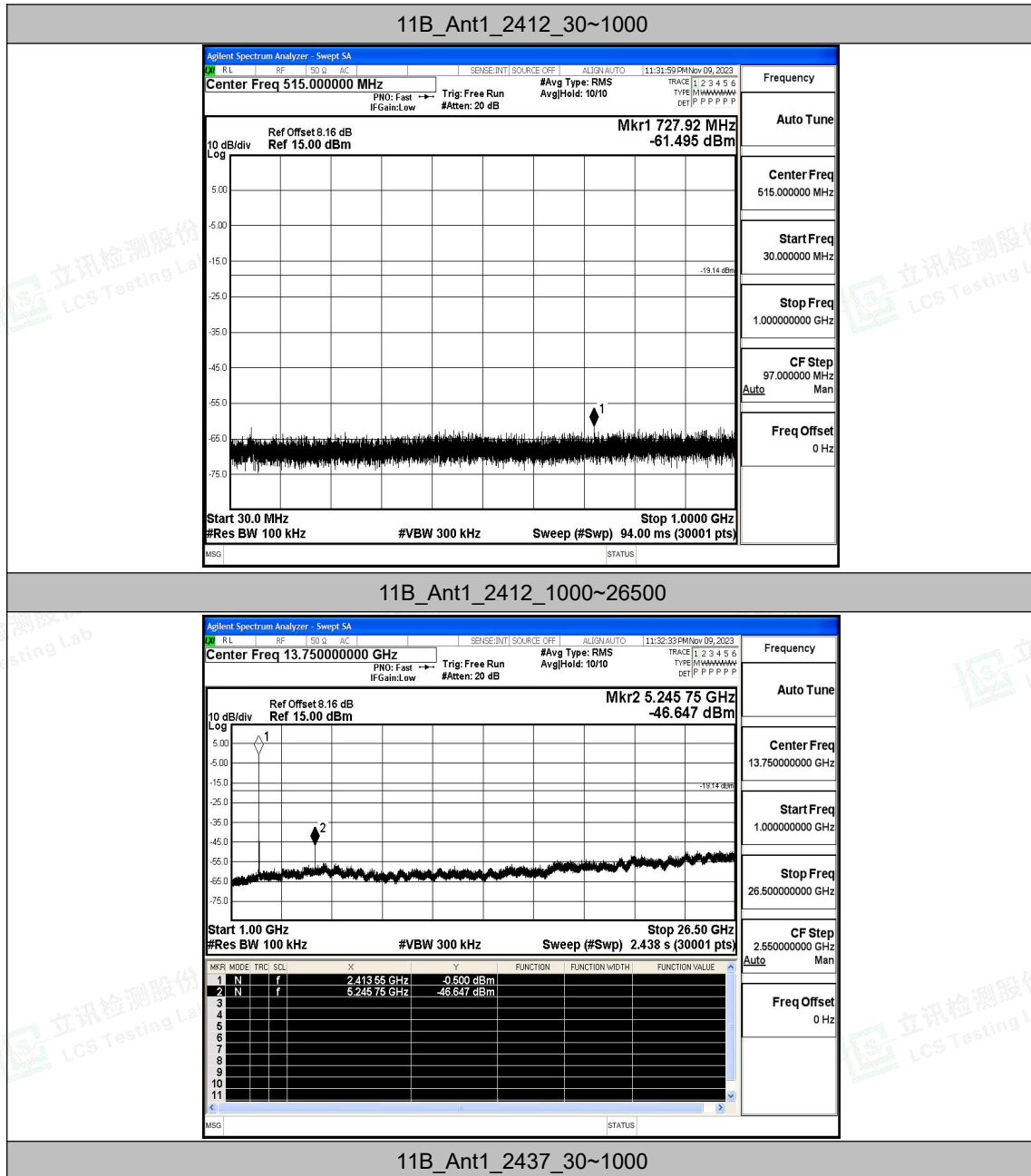


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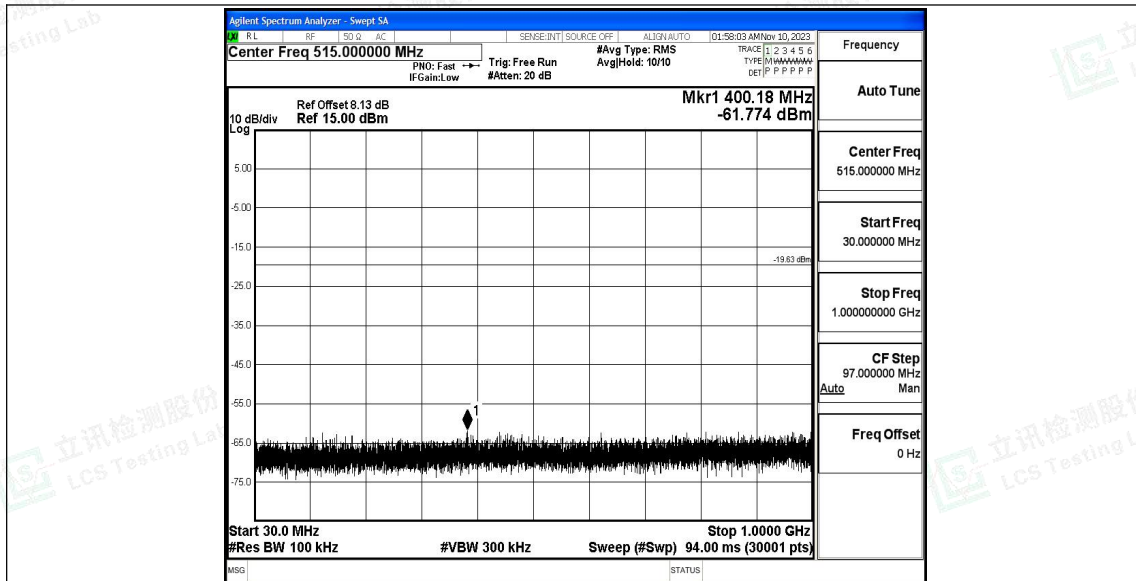




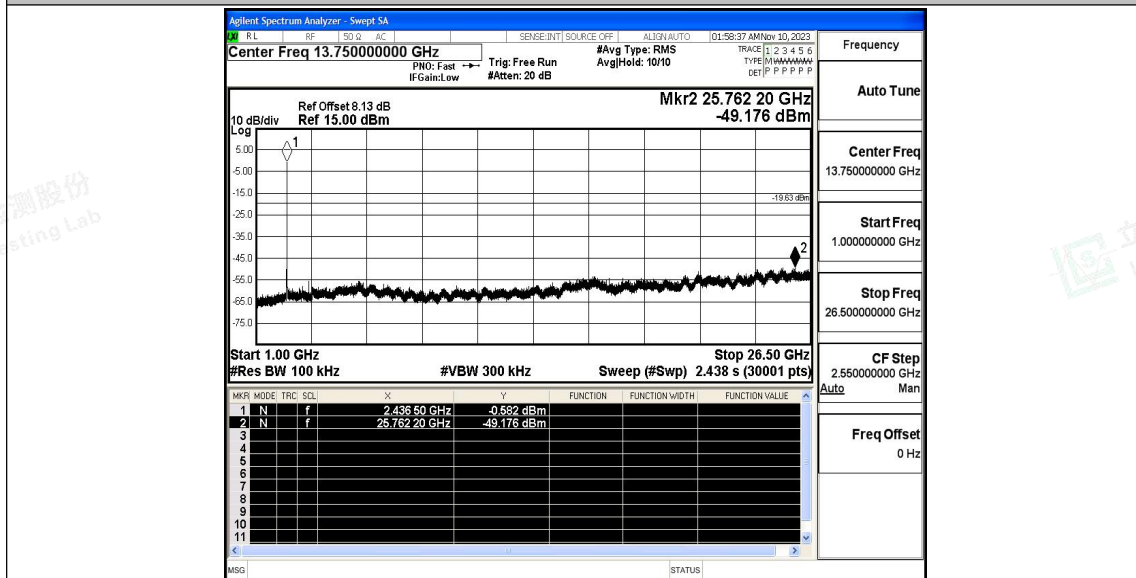
## Conducted Spurious Emission Test Graphs



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11B\_Ant1\_2437\_1000~26500



11B\_Ant1\_2462\_30~1000



