

## Appendix Test Data

|                  |                 |                    |            |
|------------------|-----------------|--------------------|------------|
| Report No.:      | 18220WC30108902 | Test Sample No.:   | 1-2-2      |
| Start Test Date: | 2023.06.02      | Finish Test Date:  | 2023.06.09 |
| Test Engineer:   | Rick Luo        | Auditor:           | Edward Pan |
| Temperature:     | 26.3℃           | Relative Humidity: | 49%        |
| Pressure:        | 1012 hPa        |                    |            |

## Appendix A: DTS Bandwidth

## Test Result

| Test Mode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412           | 9.040        | 2407.480 | 2416.520 | ≥0.5       | PASS    |
|           |         | 2437           | 9.120        | 2432.440 | 2441.560 | ≥0.5       | PASS    |
|           |         | 2462           | 9.600        | 2456.960 | 2466.560 | ≥0.5       | PASS    |
| 11G       | Ant1    | 2412           | 15.080       | 2404.480 | 2419.560 | ≥0.5       | PASS    |
|           |         | 2437           | 14.000       | 2429.520 | 2443.520 | ≥0.5       | PASS    |
|           |         | 2462           | 14.440       | 2455.080 | 2469.520 | ≥0.5       | PASS    |
| 11N20SISO | Ant1    | 2412           | 16.520       | 2403.880 | 2420.400 | ≥0.5       | PASS    |
|           |         | 2437           | 16.920       | 2428.600 | 2445.520 | ≥0.5       | PASS    |
|           |         | 2462           | 15.080       | 2454.440 | 2469.520 | ≥0.5       | PASS    |



## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

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11G\_Ant1\_2412



11G\_Ant1\_2437



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## 11G\_Ant1\_2462



## 11N20SISO\_Ant1\_2412



## 11N20SISO\_Ant1\_2437

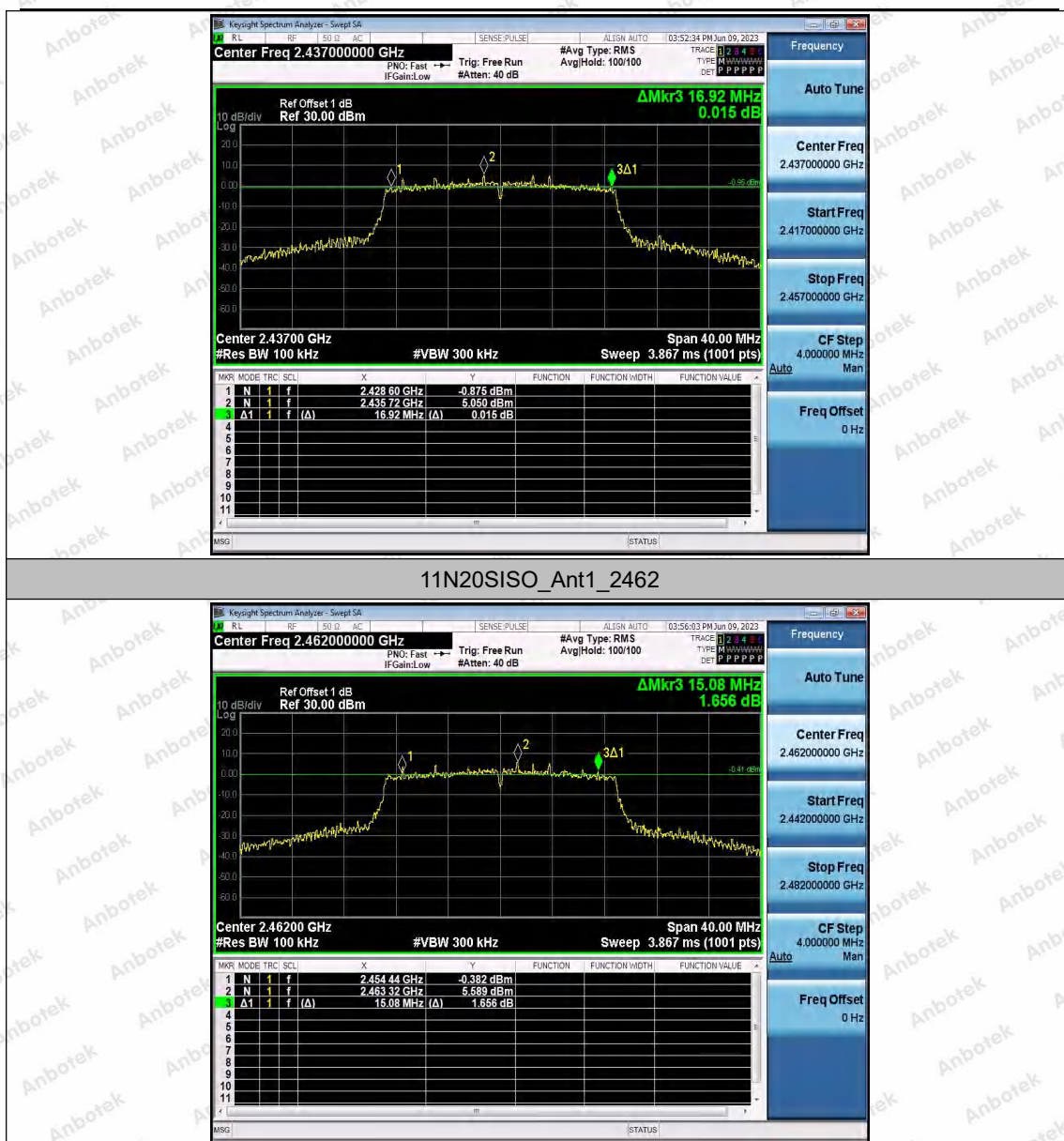
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## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|-----------|---------|------------------------|-----------|-----------|-----------|
| 11B       | Ant1    | 2412                   | 12.634    | 2405.7166 | 2418.3506 |
|           |         | 2437                   | 12.678    | 2430.6939 | 2443.3719 |
|           |         | 2462                   | 12.659    | 2455.7170 | 2468.3760 |
| 11G       | Ant1    | 2412                   | 16.831    | 2403.5886 | 2420.4196 |
|           |         | 2437                   | 16.882    | 2428.5820 | 2445.4640 |
|           |         | 2462                   | 16.939    | 2453.5802 | 2470.5192 |
| 11N20SISO | Ant1    | 2412                   | 17.740    | 2403.1483 | 2420.8883 |
|           |         | 2437                   | 17.817    | 2428.1236 | 2445.9406 |
|           |         | 2462                   | 17.822    | 2453.1238 | 2470.9458 |



## Test Graphs



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11G\_Ant1\_2412



11G\_Ant1\_2437



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## 11G\_Ant1\_2462



## 11N20SISO\_Ant1\_2412



## 11N20SISO\_Ant1\_2437

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11N20SISO\_Ant1\_2462



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## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Peak Power[dBm] | Conducted Limit[dBm] |
|-----------|---------|----------------|-----------------|----------------------|
| 11B       | Ant1    | 2412           | 20.84           | ≤30.00               |
|           |         | 2437           | 20.72           | ≤30.00               |
|           |         | 2462           | 20.72           | ≤30.00               |
| 11G       | Ant1    | 2412           | 21.03           | ≤30.00               |
|           |         | 2437           | 22.99           | ≤30.00               |
|           |         | 2462           | <b>23.14</b>    | ≤30.00               |
| 11N20SISO | Ant1    | 2412           | 21.09           | ≤30.00               |
|           |         | 2437           | 22.91           | ≤30.00               |
|           |         | 2462           | <b>23.14</b>    | ≤30.00               |



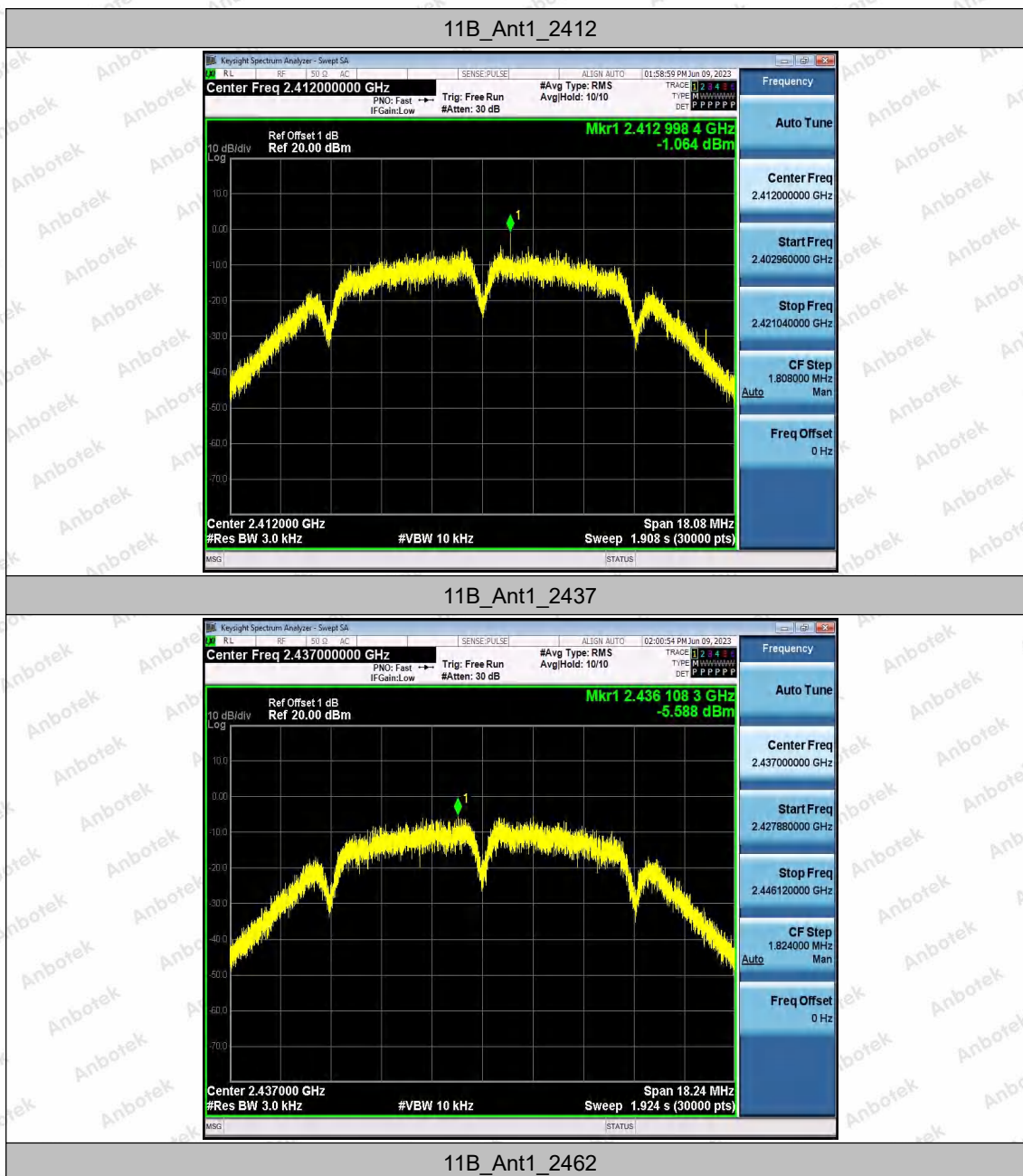
## Appendix D: Maximum power spectral density

### Test Result

| Test Mode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|------------------|-----------------|---------|
| 11B       | Ant1    | 2412           | -1.06            | ≤8.00           | PASS    |
|           |         | 2437           | -5.59            | ≤8.00           | PASS    |
|           |         | 2462           | -2.4             | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412           | -11.1            | ≤8.00           | PASS    |
|           |         | 2437           | -8.36            | ≤8.00           | PASS    |
|           |         | 2462           | -8.15            | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2412           | -10.38           | ≤8.00           | PASS    |
|           |         | 2437           | -8.14            | ≤8.00           | PASS    |
|           |         | 2462           | -9.04            | ≤8.00           | PASS    |



## Test Graphs



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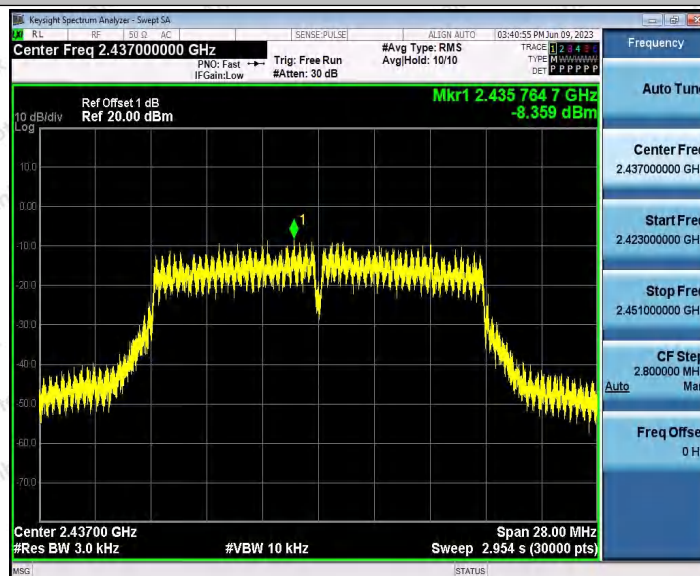




11G\_Ant1\_2412



11G\_Ant1\_2437



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11G\_Ant1\_2462



11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437

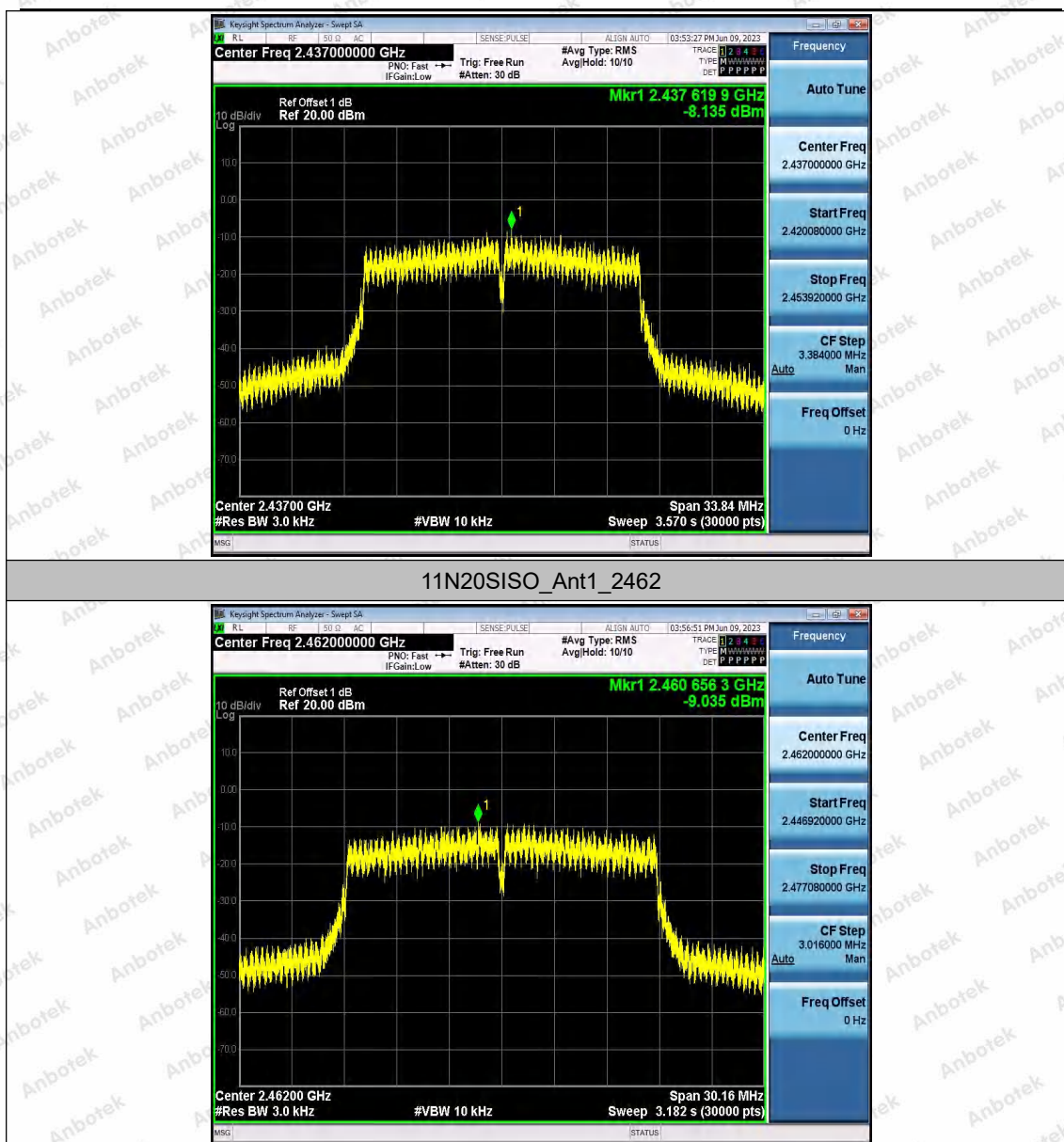
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## Appendix E: Band edge measurements

### Test Result

| Test Mode | Antenna | ChName | Frequency<br>[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|--------------------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low    | 2412               | 9.12          | -33.44      | ≤-10.88    | PASS    |
|           |         | High   | 2462               | 8.64          | -51.3       | ≤-11.36    | PASS    |
| 11G       | Ant1    | Low    | 2412               | 3.40          | -31.79      | ≤-16.6     | PASS    |
|           |         | High   | 2462               | 6.32          | -41.59      | ≤-13.68    | PASS    |
| 11N20SISO | Ant1    | Low    | 2412               | 2.40          | -30.74      | ≤-17.6     | PASS    |
|           |         | High   | 2462               | 5.78          | -39.43      | ≤-14.22    | PASS    |



## Test Graphs

11B\_Ant1\_Low\_2412



11B\_Ant1\_High\_2462



11G\_Ant1\_Low\_2412

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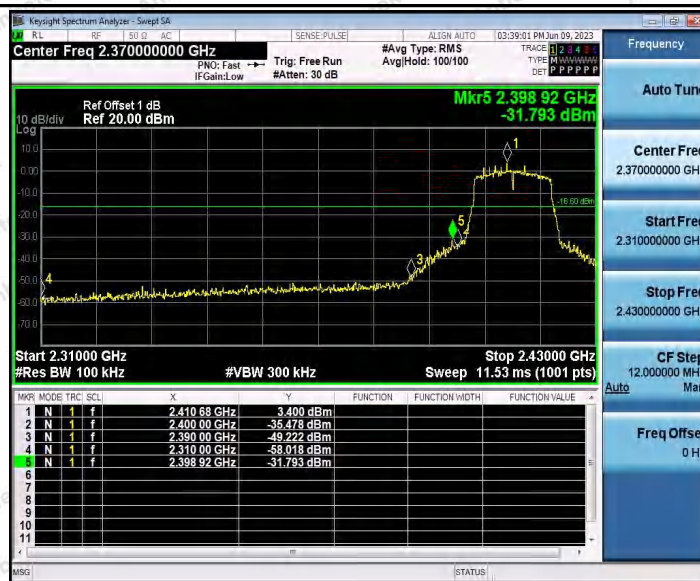


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11G\_Ant1\_High\_2462



11N20SISO\_Ant1\_Low\_2412



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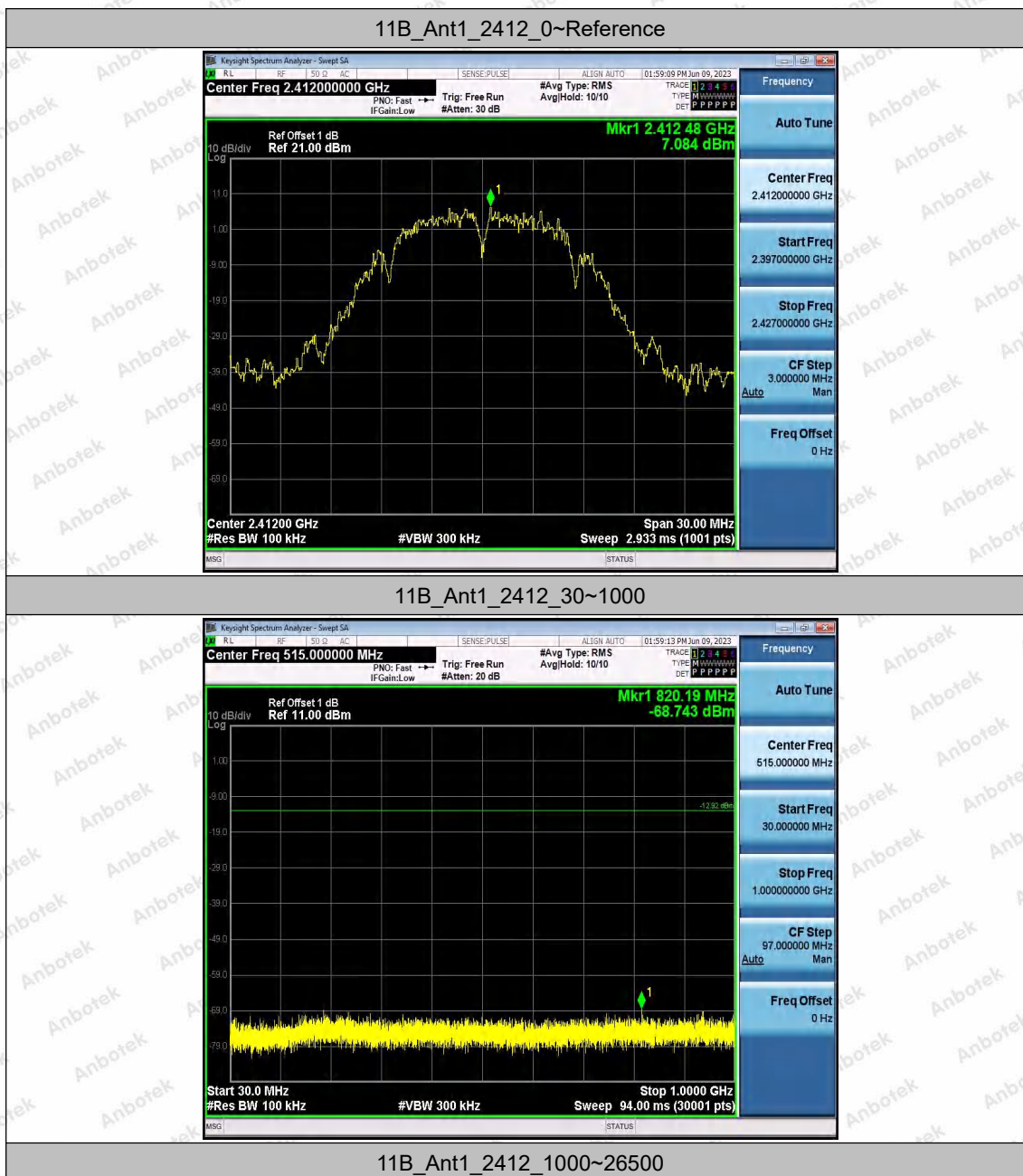
## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | Reference       | 7.08           | 7.08         | ---         | PASS    |
|           |         |                | 30~1000         | 7.08           | -68.74       | ≤-12.92     | PASS    |
|           |         |                | 1000~26500      | 7.08           | -45.55       | ≤-12.92     | PASS    |
|           |         | 2437           | Reference       | 8.40           | 8.40         | ---         | PASS    |
|           |         |                | 30~1000         | 8.40           | -68.65       | ≤-11.6      | PASS    |
|           |         |                | 1000~26500      | 8.40           | -45.58       | ≤-11.6      | PASS    |
|           |         | 2462           | Reference       | 7.66           | 7.66         | ---         | PASS    |
|           |         |                | 30~1000         | 7.66           | -68.58       | ≤-12.34     | PASS    |
|           |         |                | 1000~26500      | 7.66           | -45.85       | ≤-12.34     | PASS    |
| 11G       | Ant1    | 2412           | Reference       | 0.78           | 0.78         | ---         | PASS    |
|           |         |                | 30~1000         | 0.78           | -58.69       | ≤-19.22     | PASS    |
|           |         |                | 1000~26500      | 0.78           | -53.34       | ≤-19.22     | PASS    |
|           |         | 2437           | Reference       | 4.28           | 4.28         | ---         | PASS    |
|           |         |                | 30~1000         | 4.28           | -68.98       | ≤-15.72     | PASS    |
|           |         |                | 1000~26500      | 4.28           | -53.37       | ≤-15.72     | PASS    |
|           |         | 2462           | Reference       | 4.49           | 4.49         | ---         | PASS    |
|           |         |                | 30~1000         | 4.49           | -69.04       | ≤-15.51     | PASS    |
|           |         |                | 1000~26500      | 4.49           | -53.35       | ≤-15.51     | PASS    |
| 11N20SISO | Ant1    | 2412           | Reference       | 2.47           | 2.47         | ---         | PASS    |
|           |         |                | 30~1000         | 2.47           | -69.24       | ≤-17.53     | PASS    |
|           |         |                | 1000~26500      | 2.47           | -53.21       | ≤-17.53     | PASS    |
|           |         | 2437           | Reference       | 1.64           | 1.64         | ---         | PASS    |
|           |         |                | 30~1000         | 1.64           | -68.74       | ≤-18.36     | PASS    |
|           |         |                | 1000~26500      | 1.64           | -53.78       | ≤-18.36     | PASS    |
|           |         | 2462           | Reference       | 4.40           | 4.40         | ---         | PASS    |
|           |         |                | 30~1000         | 4.40           | -69.11       | ≤-15.6      | PASS    |
|           |         |                | 1000~26500      | 4.40           | -53.41       | ≤-15.6      | PASS    |



## Test Graphs



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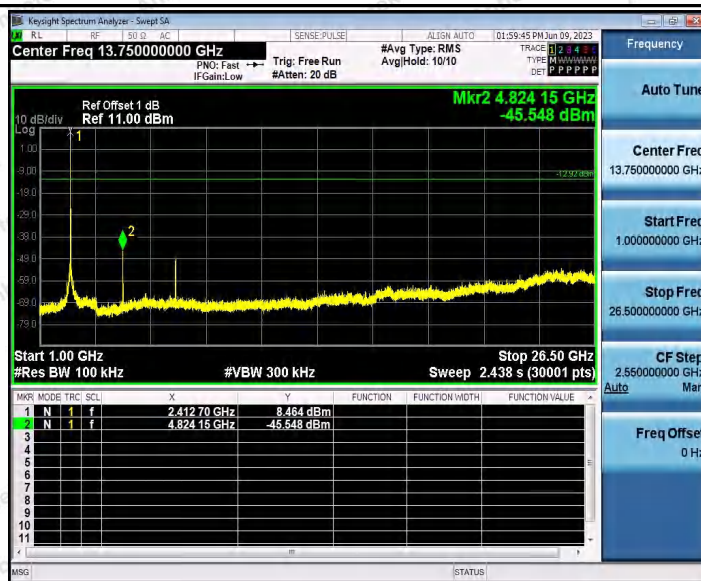


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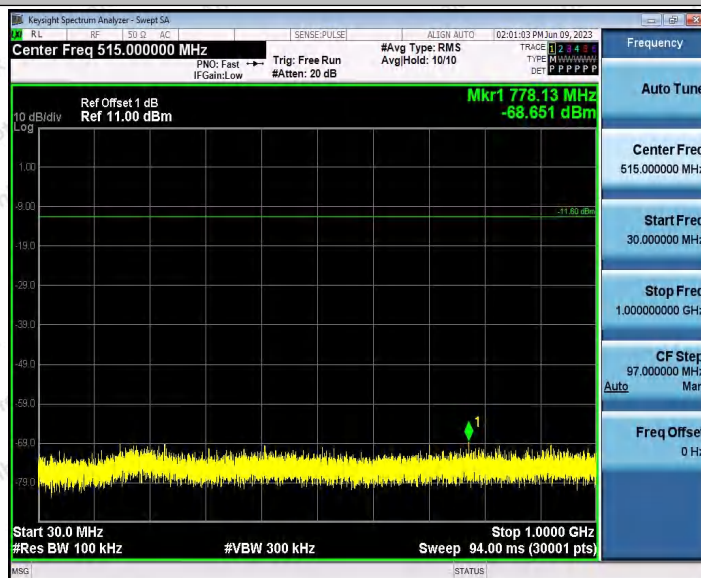




11B\_Ant1\_2437\_0~Reference



11B\_Ant1\_2437\_30~1000



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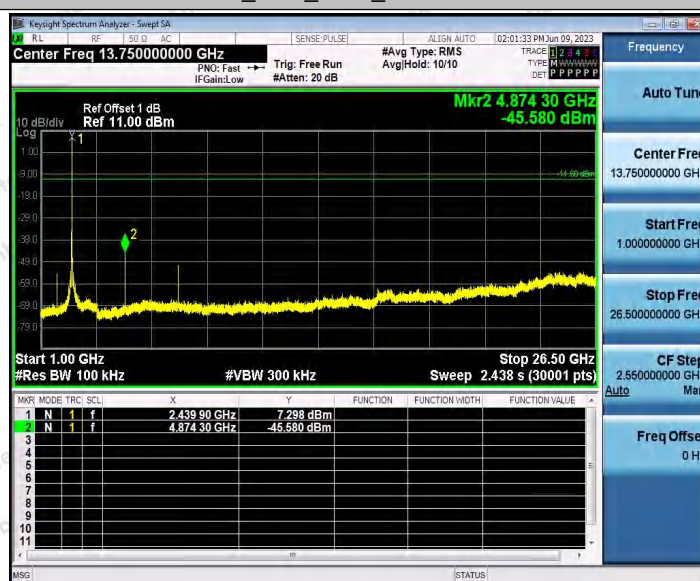
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## 11B\_Ant1\_2437\_1000~26500



## 11B\_Ant1\_2462\_0~Reference



## 11B\_Ant1\_2462\_30~1000

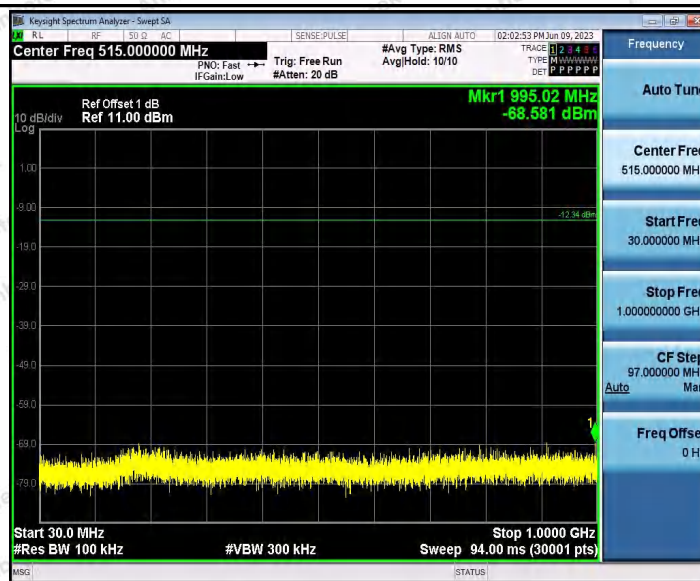
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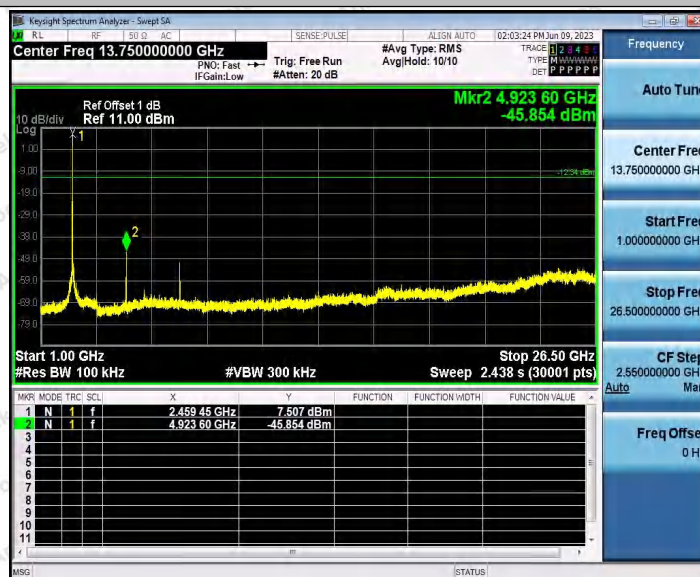


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11B\_Ant1\_2462\_1000~26500



11G\_Ant1\_2412\_0~Reference



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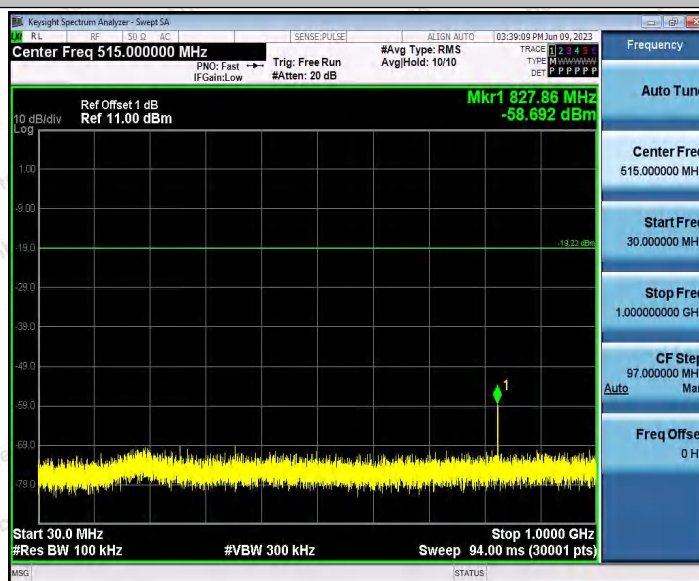
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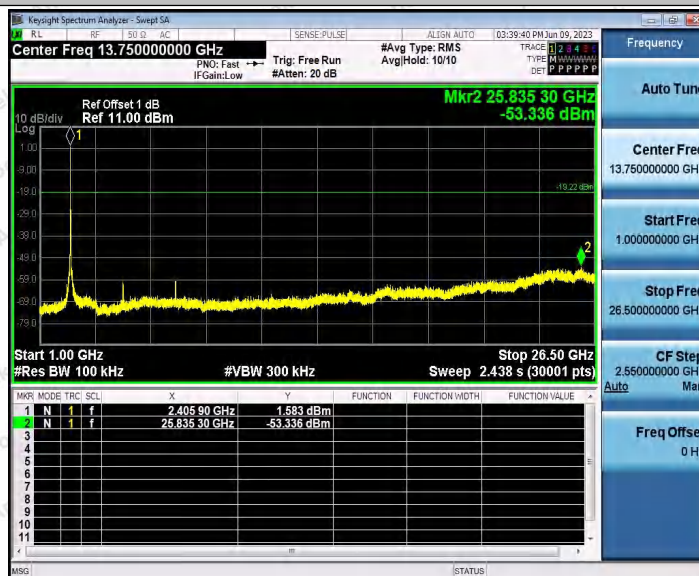
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## 11G\_Ant1\_2412\_30~1000



## 11G\_Ant1\_2412\_1000~26500



## 11G\_Ant1\_2437\_0~Reference

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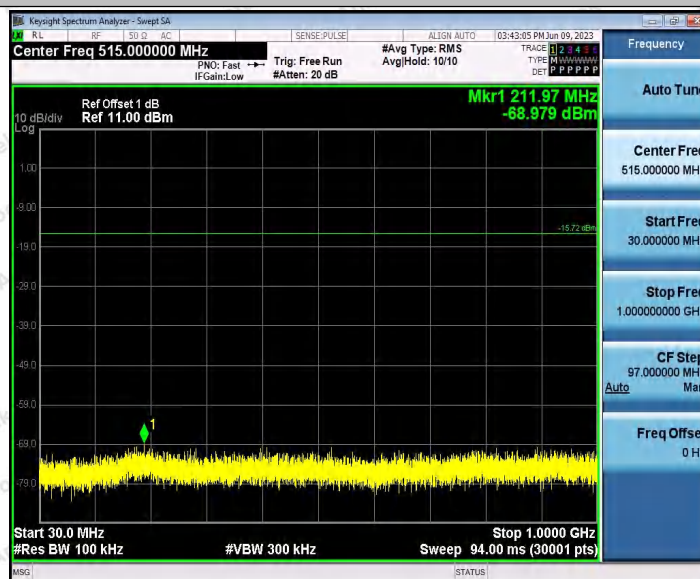


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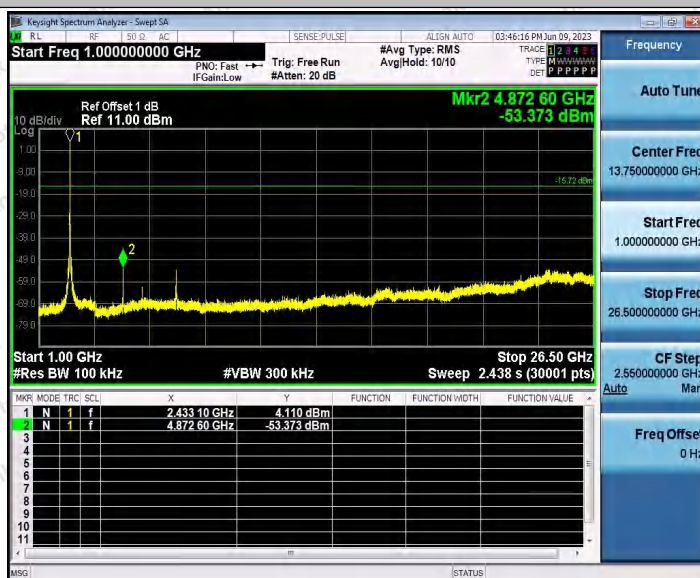




11G\_Ant1\_2437\_30~1000



11G\_Ant1\_2437\_1000~26500



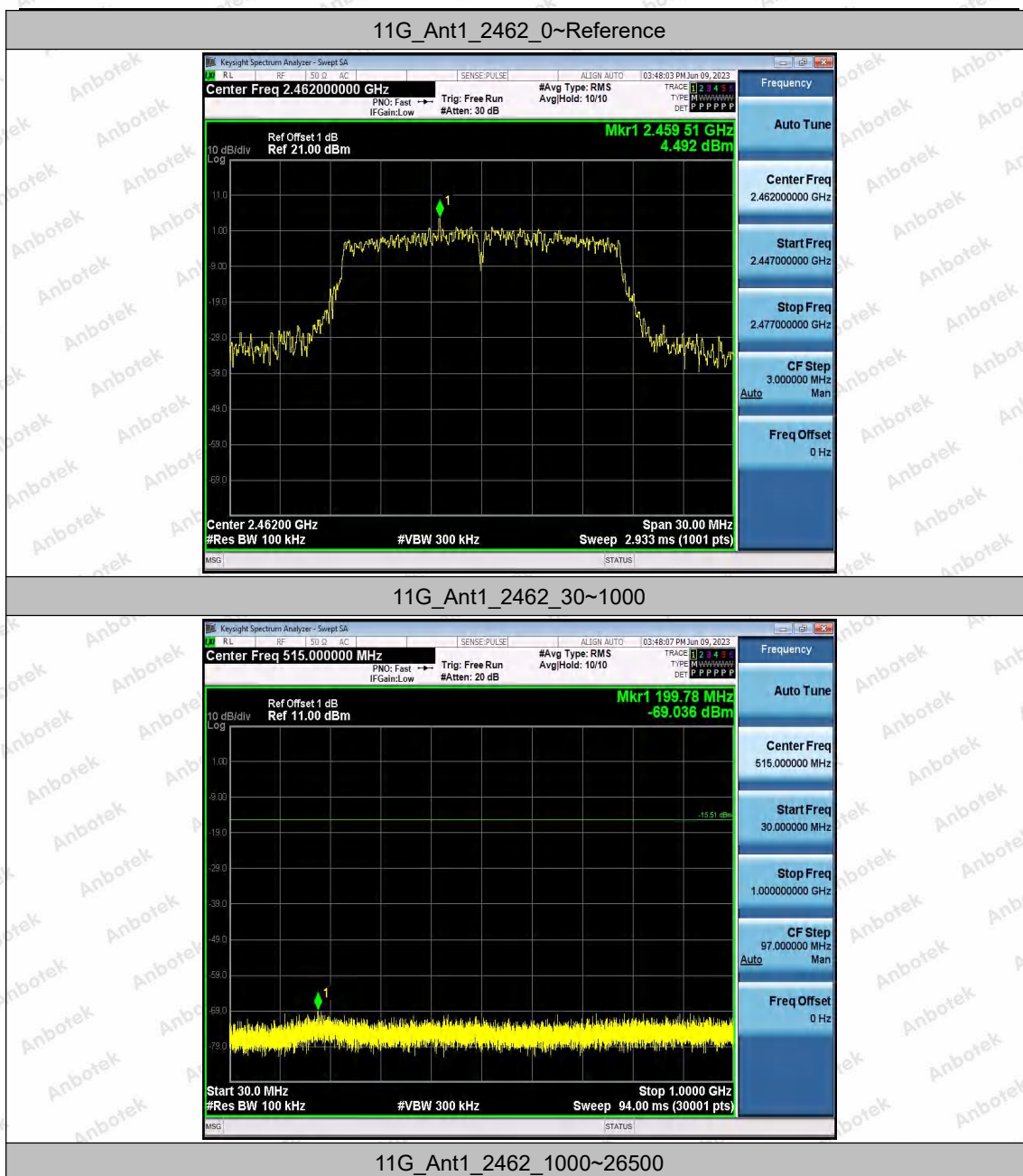
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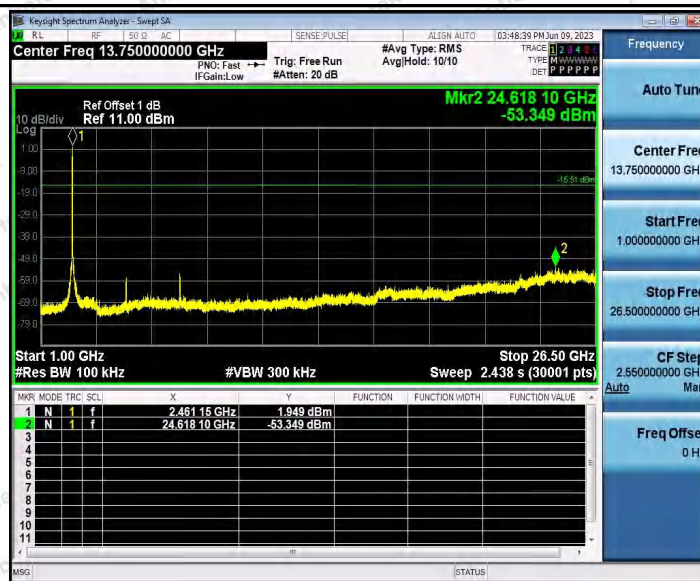
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11N20SISO\_Ant1\_2412\_0~Reference



11N20SISO\_Ant1\_2412\_30~1000



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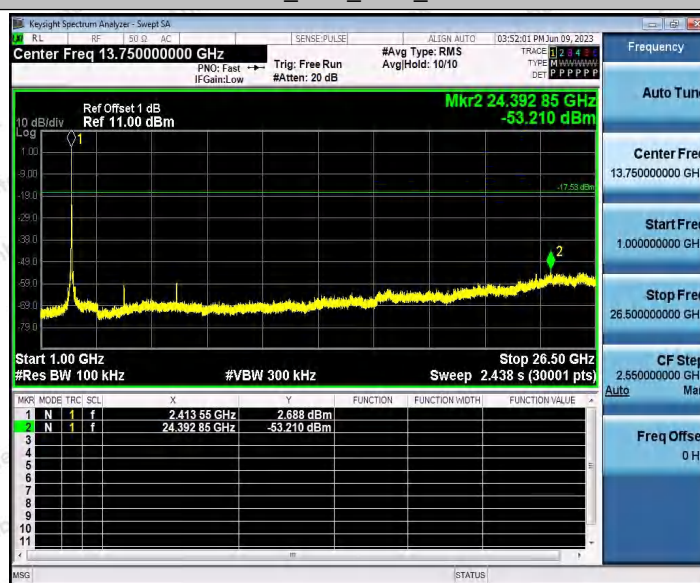
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## 11N20SISO\_Ant1\_2412\_1000~26500



## 11N20SISO\_Ant1\_2437\_0~Reference



## 11N20SISO\_Ant1\_2437\_30~1000

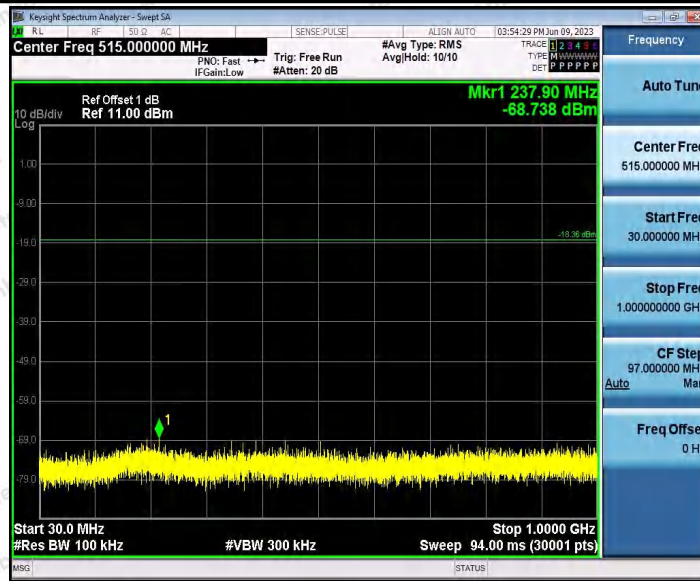
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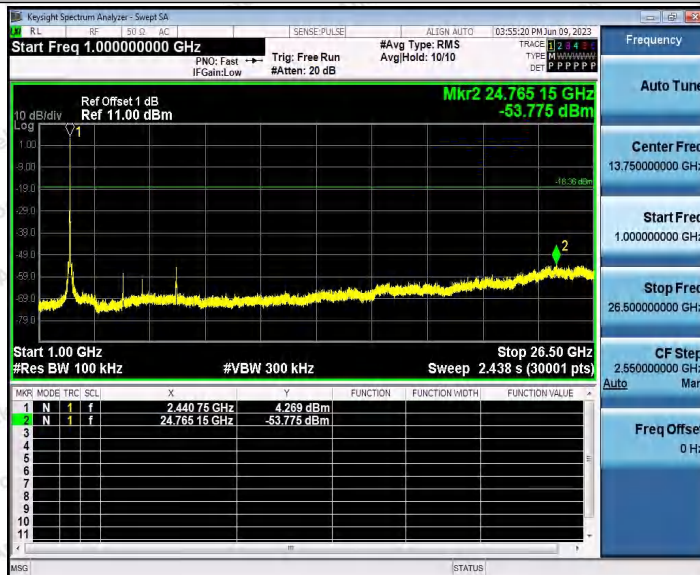


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11N20SISO\_Ant1\_2437\_1000~26500



11N20SISO\_Ant1\_2462\_0~Reference



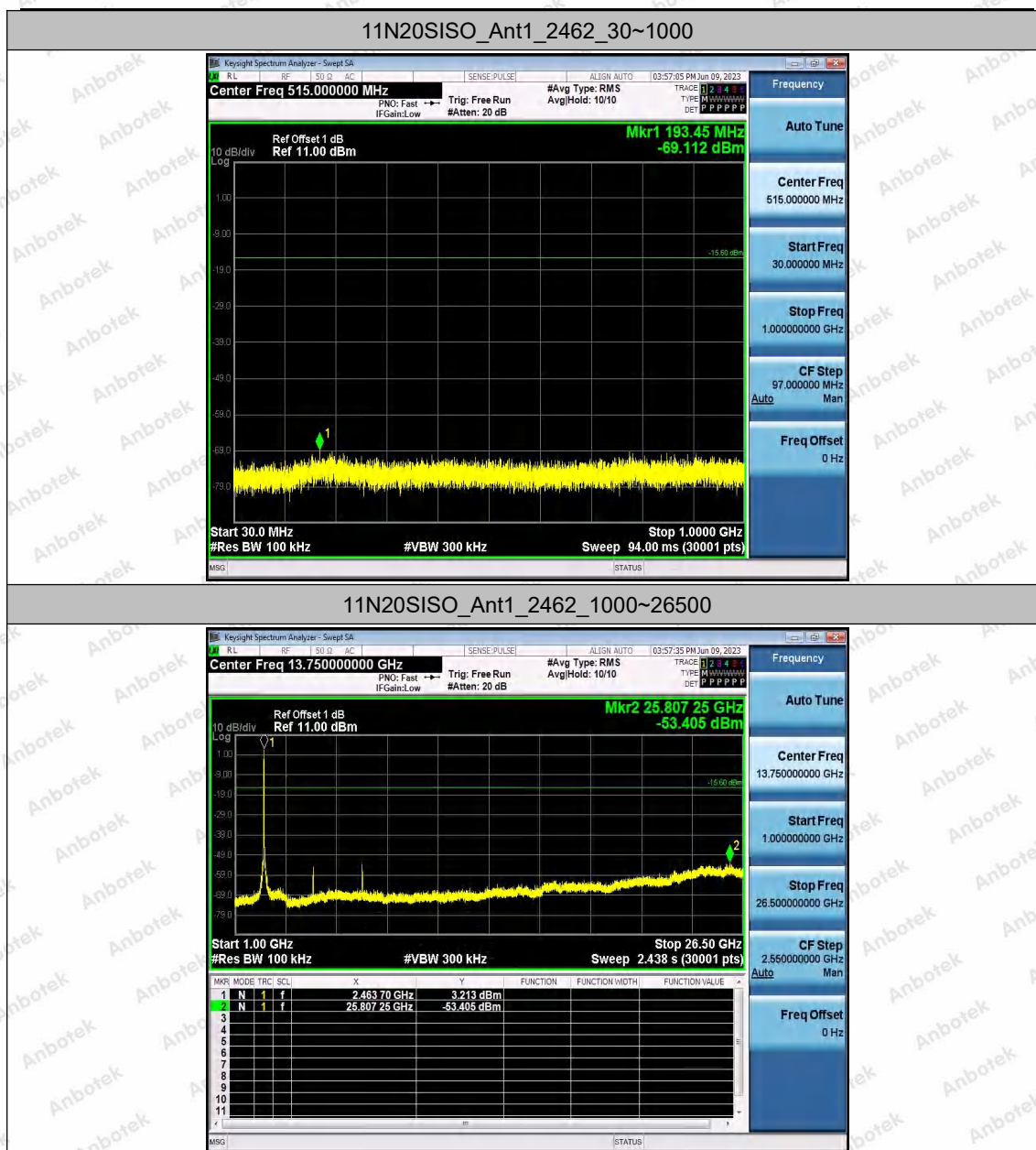
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## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline  
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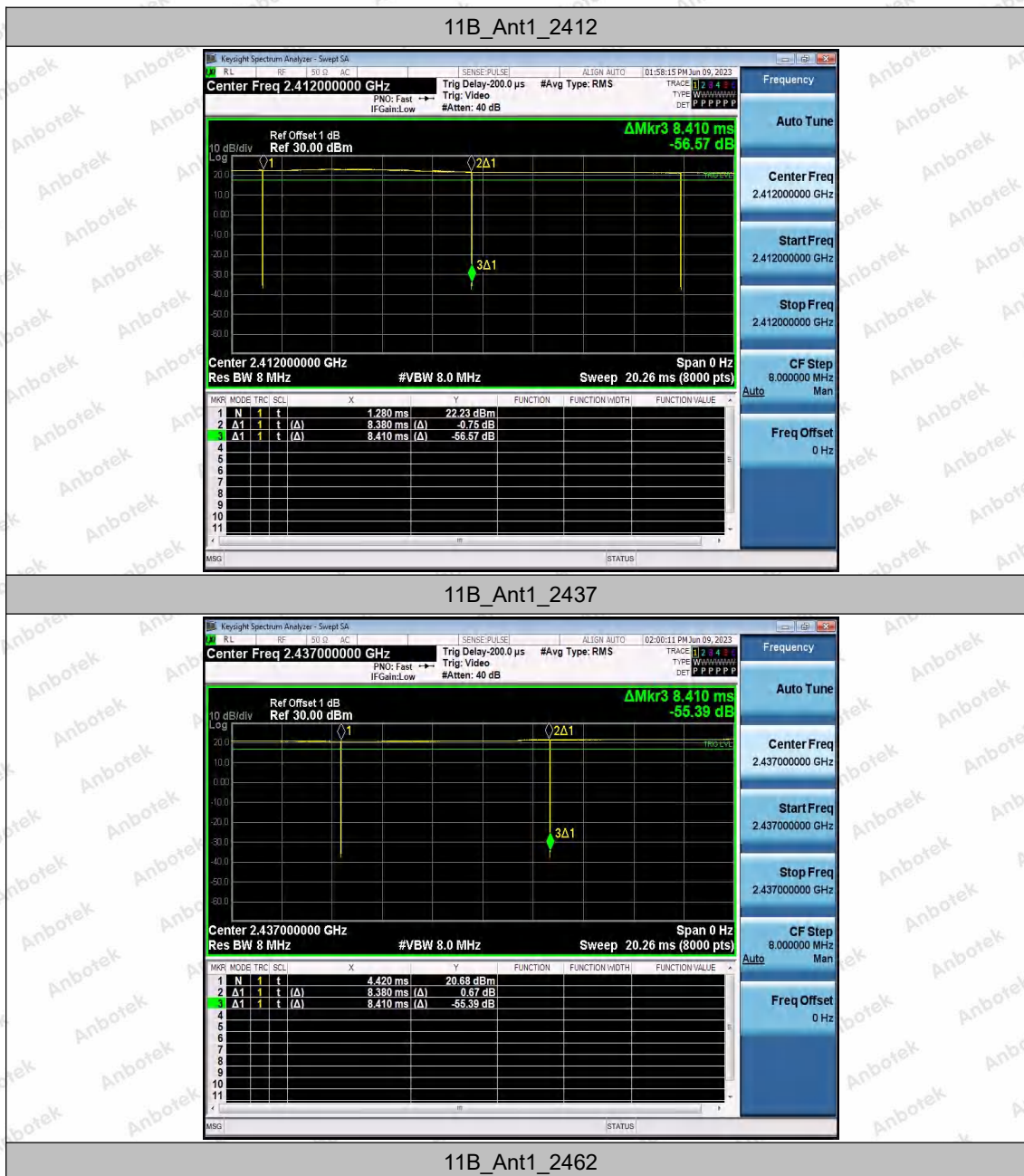
## Appendix G: Duty Cycle

### Test Result

| Test Mode | Antenna | Frequency<br>[MHz] | Transmission<br>Duration [ms] | Transmission<br>Period [ms] | Duty Cycle<br>[%] | Factor |
|-----------|---------|--------------------|-------------------------------|-----------------------------|-------------------|--------|
| 11B       | Ant1    | 2412               | 8.38                          | 8.41                        | 99.64             | 0.02   |
|           |         | 2437               | 8.38                          | 8.41                        | 99.64             | 0.02   |
|           |         | 2462               | 8.38                          | 8.41                        | 99.64             | 0.02   |
| 11G       | Ant1    | 2412               | 1.39                          | 1.43                        | 97.20             | 0.12   |
|           |         | 2437               | 1.39                          | 1.43                        | 97.20             | 0.12   |
|           |         | 2462               | 1.39                          | 1.43                        | 97.20             | 0.12   |
| 11N20SISO | Ant1    | 2412               | 1.30                          | 1.33                        | 97.74             | 0.10   |
|           |         | 2437               | 1.30                          | 1.33                        | 97.74             | 0.10   |
|           |         | 2462               | 1.30                          | 1.33                        | 97.74             | 0.10   |



## Test Graphs



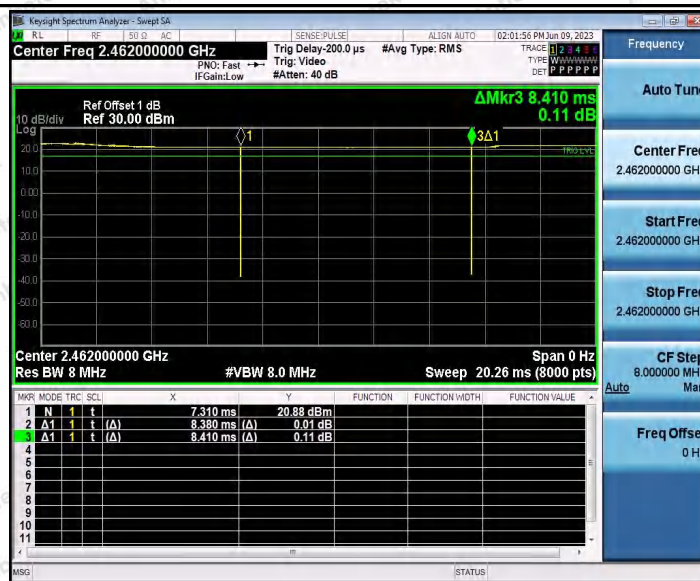
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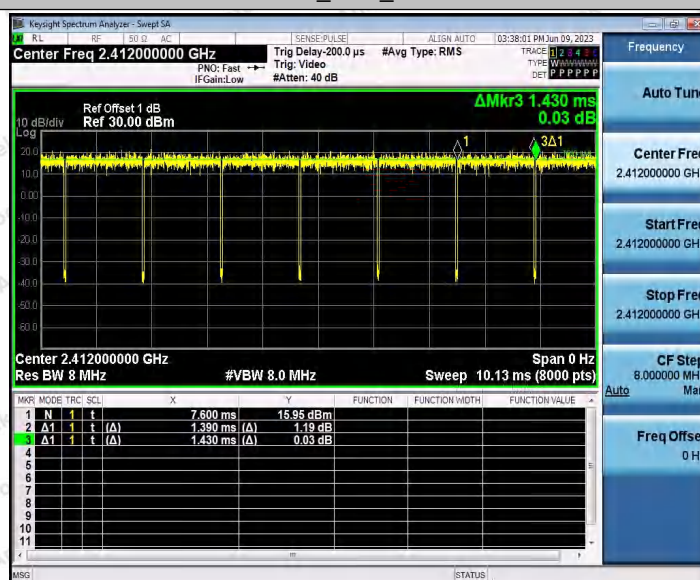


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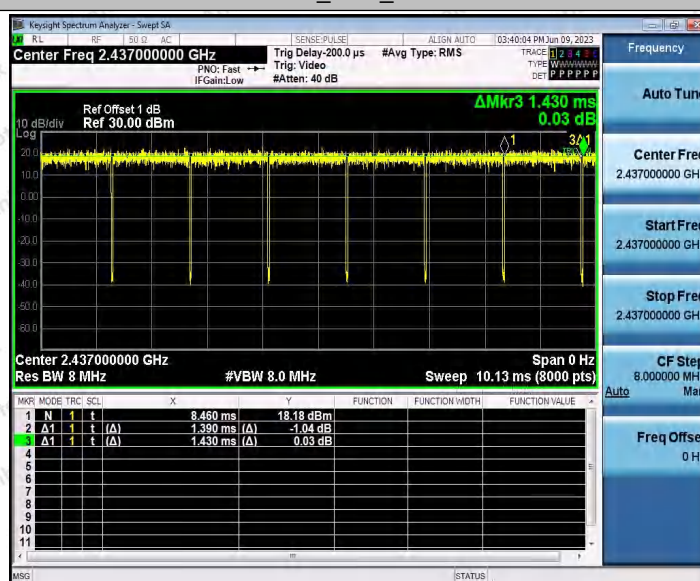




11G\_Ant1\_2412



11G\_Ant1\_2437



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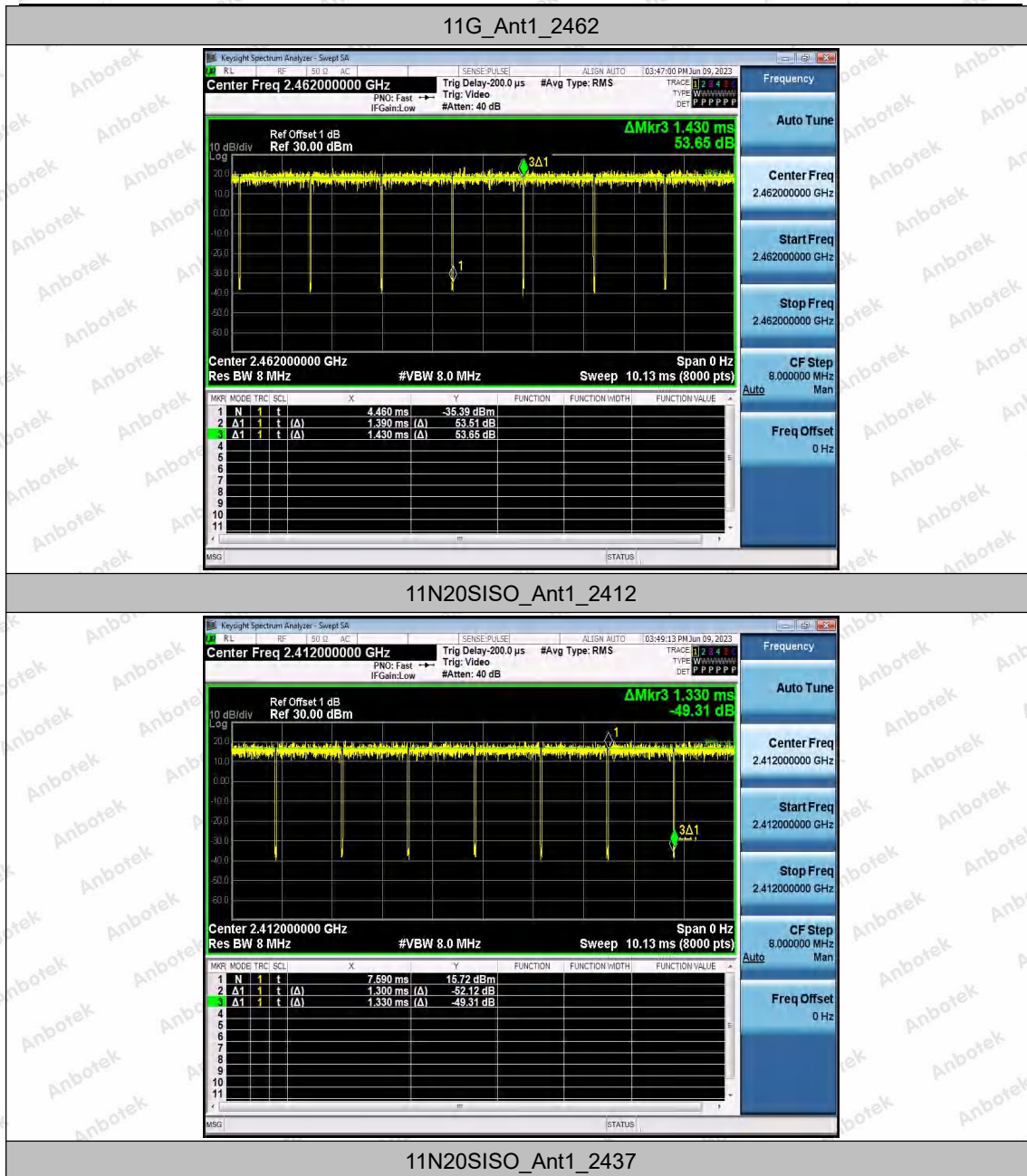


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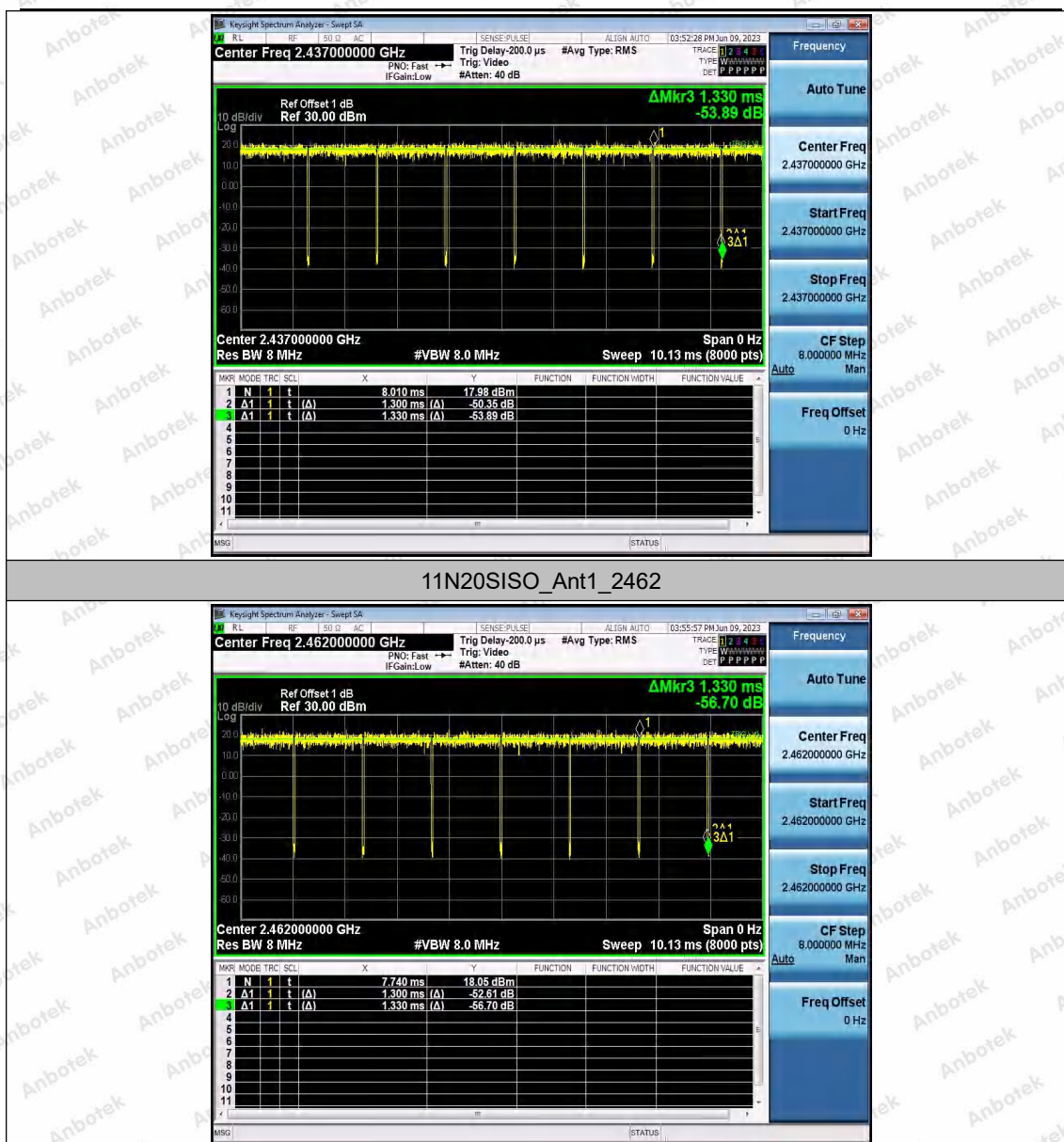
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