

Appendix Test Data

|                  |                 |                    |             |
|------------------|-----------------|--------------------|-------------|
| Report No.:      | 18220WC40035801 | Test Sample No.:   | 1-2-2       |
| Start Test Date: | 2024.3.15       | Finish Test Date:  | 2024.3.15   |
| Test Engineer:   | Joker Wong      | Auditor:           | Justin Feng |
| Temperature:     | 24℃             | Relative Humidity: | 45%         |
| Pressure:        | 101kPa          |                    |             |

Appendix A: 6dB Bandwidth

Test Result

| Test Mode | Antenna | Frequency[MHz] | 6dB BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412           | 7.120        | 2408.440 | 2415.560 | 0.5        | PASS    |
|           |         | 2437           | 7.560        | 2433.480 | 2441.040 | 0.5        | PASS    |
|           |         | 2462           | 8.520        | 2457.520 | 2466.040 | 0.5        | PASS    |
| 11G       | Ant1    | 2412           | 14.200       | 2405.360 | 2419.560 | 0.5        | PASS    |
|           |         | 2437           | 15.080       | 2429.440 | 2444.520 | 0.5        | PASS    |
|           |         | 2462           | 15.080       | 2454.520 | 2469.600 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412           | 15.080       | 2404.440 | 2419.520 | 0.5        | PASS    |
|           |         | 2437           | 15.000       | 2429.520 | 2444.520 | 0.5        | PASS    |
|           |         | 2462           | 14.080       | 2455.480 | 2469.560 | 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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11N20SISO\_Ant1\_2462



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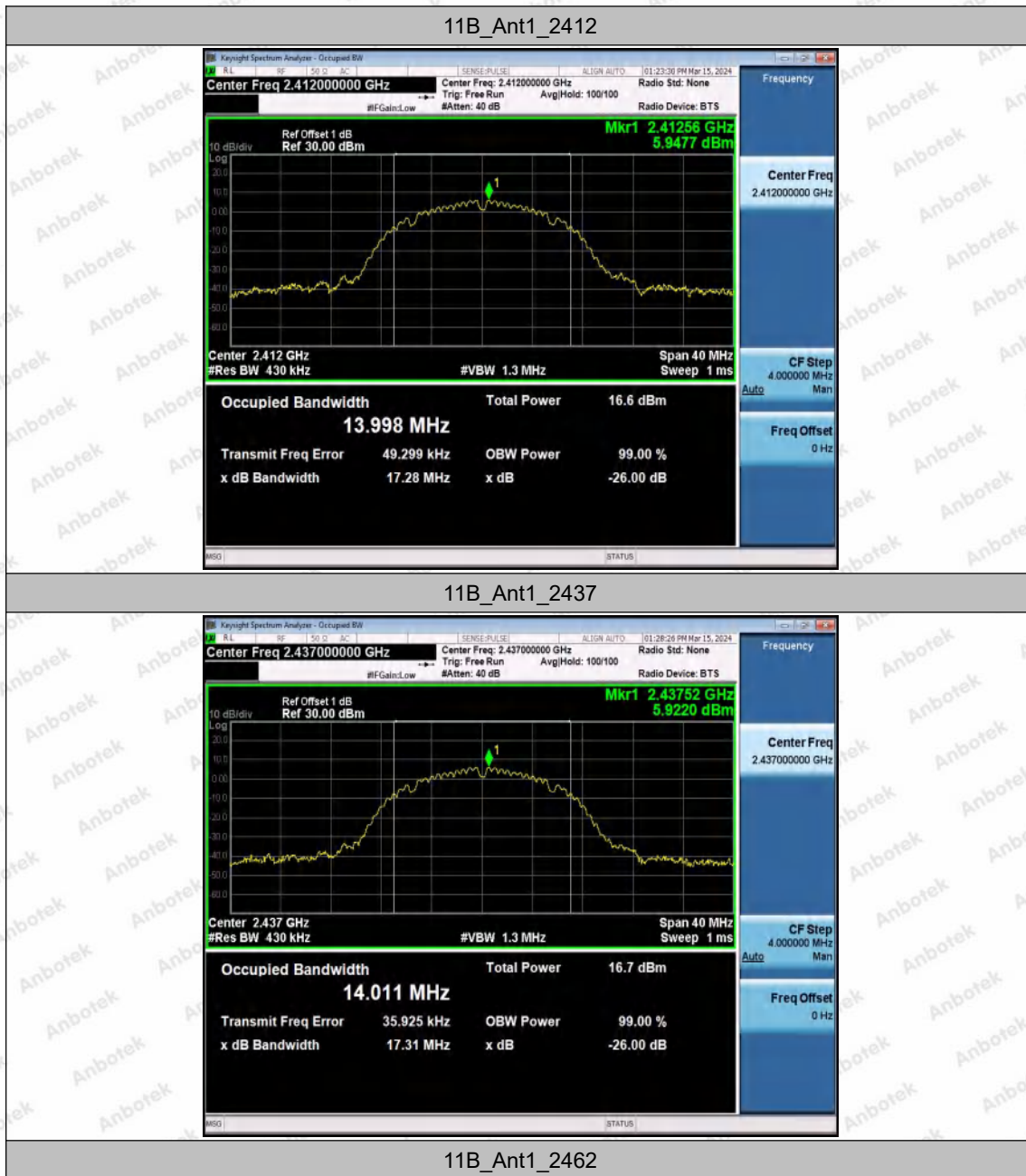
## Appendix B: 99% Occupied Bandwidth

### Test Result

| Test Mode | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|------------------------|-----------|-----------|-----------|------------|---------|
| 11B       | Ant1    | 2412                   | 13.998    | 2405.0503 | 2419.0483 | ---        | ---     |
|           |         | 2437                   | 14.011    | 2430.0304 | 2444.0414 | ---        | ---     |
|           |         | 2462                   | 14.026    | 2455.0072 | 2469.0332 | ---        | ---     |
| 11G       | Ant1    | 2412                   | 16.601    | 2403.7744 | 2420.3754 | ---        | ---     |
|           |         | 2437                   | 16.664    | 2428.6933 | 2445.3573 | ---        | ---     |
|           |         | 2462                   | 16.619    | 2453.7232 | 2470.3422 | ---        | ---     |
| 11N20SISO | Ant1    | 2412                   | 17.663    | 2403.2283 | 2420.8913 | ---        | ---     |
|           |         | 2437                   | 17.688    | 2428.1879 | 2445.8759 | ---        | ---     |
|           |         | 2462                   | 17.643    | 2453.2119 | 2470.8549 | ---        | ---     |



## 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

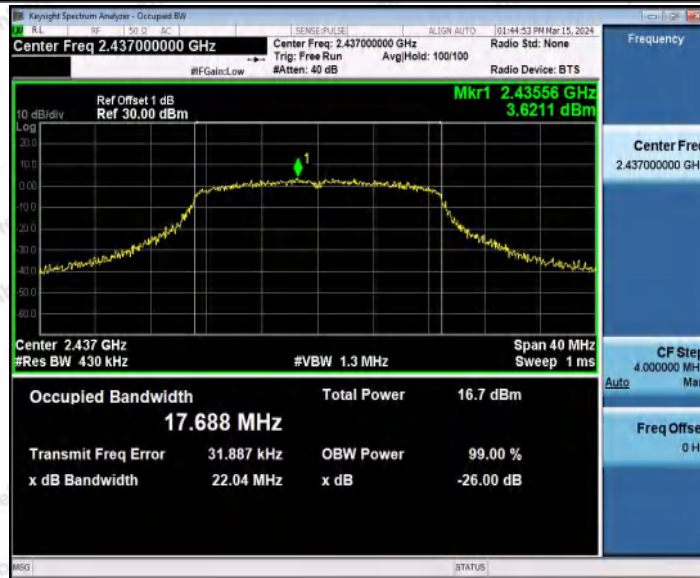
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## Appendix C: Maximum conducted output power

### Test Result Average

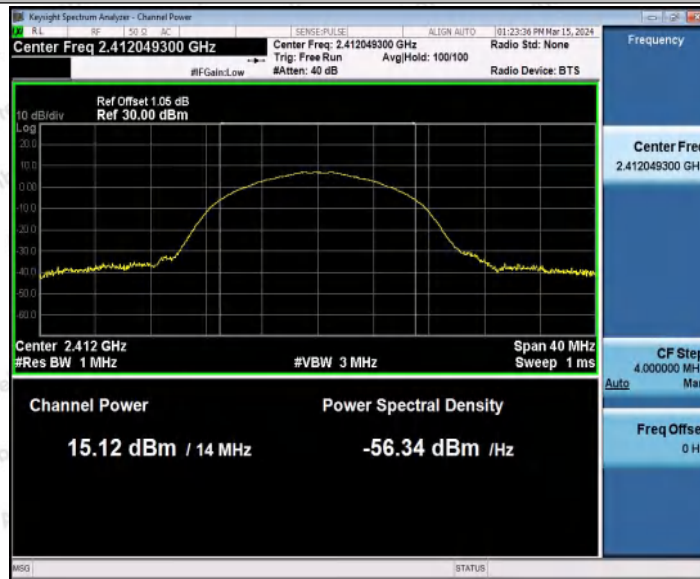
| Test Mode     | Antenna | Frequency [MHz] | Average power [dBm] | Duty Cycle [%] | DC Factor [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|---------------|---------|-----------------|---------------------|----------------|-----------------|--------------|-------------|---------|
| 11B           | Ant1    | 2412            | 15.07               | 98.94          | 0.05            | 15.12        | ≤30.0<br>0  | PASS    |
|               |         | 2437            | 15.13               | 98.82          | 0.05            | 15.18        | ≤30.0<br>0  | PASS    |
|               |         | 2462            | 15.28               | 98.94          | 0.05            | 15.33        | ≤30.0<br>0  | PASS    |
| 11G           | Ant1    | 2412            | 15.12               | 93.29          | 0.30            | 15.42        | ≤30.0<br>0  | PASS    |
|               |         | 2437            | 15.27               | 92.67          | 0.33            | 15.60        | ≤30.0<br>0  | PASS    |
|               |         | 2462            | 15.43               | 92.67          | 0.33            | 15.76        | ≤30.0<br>0  | PASS    |
| 11N20SI<br>SO | Ant1    | 2412            | 15.02               | 92.91          | 0.32            | 15.34        | ≤30.0<br>0  | PASS    |
|               |         | 2437            | 15.11               | 92.91          | 0.32            | 15.43        | ≤30.0<br>0  | PASS    |
|               |         | 2462            | 15.28               | 92.86          | 0.32            | 15.60        | ≤30.0<br>0  | PASS    |

Note: The Duty Cycle Factor( $10 \cdot \log(1/D)$ ) and cable loss are compensated in the graph.

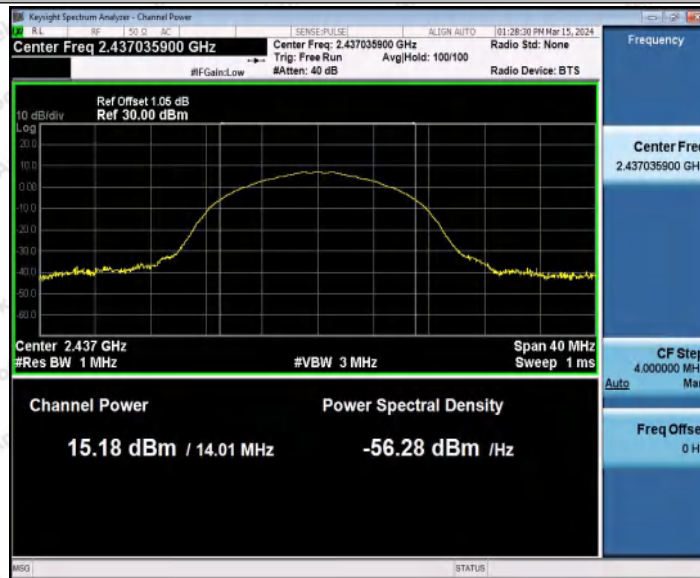


## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

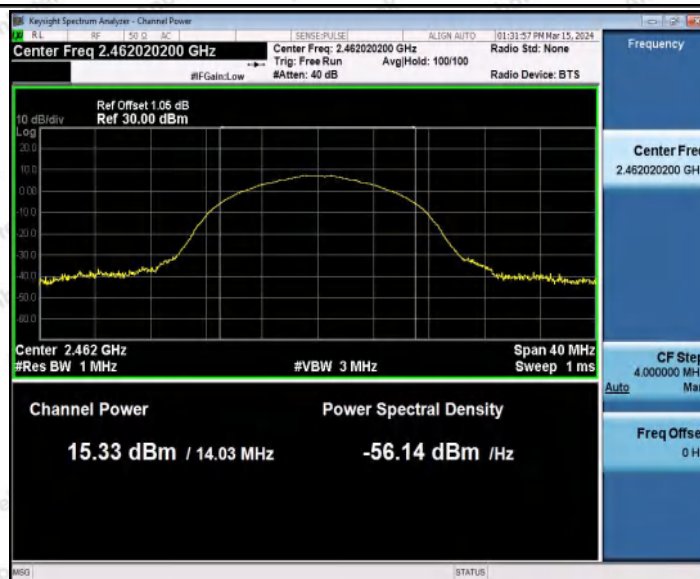
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11G\_Ant1\_2412



11G\_Ant1\_2437



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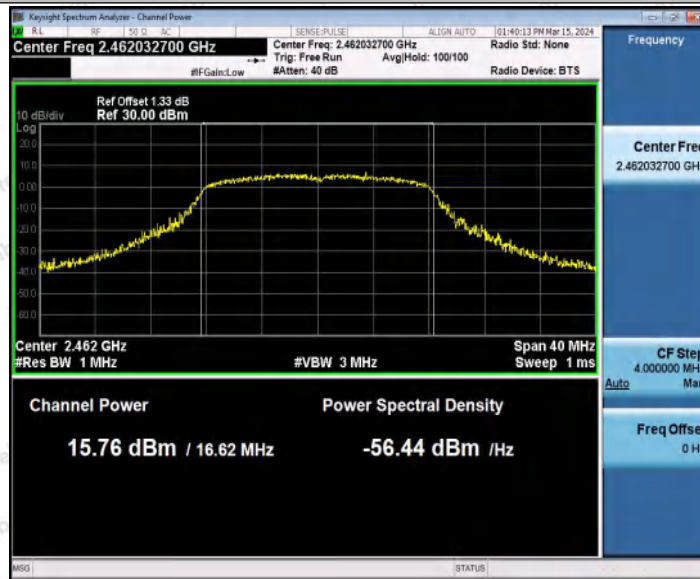
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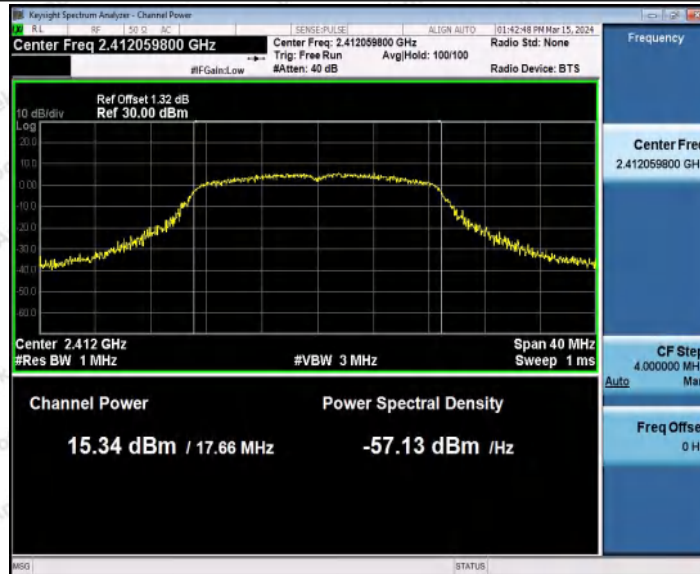
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11G\_Ant1\_2462



11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437

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11N20SISO\_Ant1\_2462



## Appendix D: Maximum power spectral density

### Test Result

| Test Mode | Antenna | Frequency<br>[MHz] | Result<br>[dBm/30kHz] | Result<br>[dBm/3kHz] | Result<br>[dBm/3kHz] | Limit<br>[dBm/3kHz] |
|-----------|---------|--------------------|-----------------------|----------------------|----------------------|---------------------|
| 11B       | Ant1    | 2412               | -7.94                 | -17.94               | ≤8.00                | PASS                |
|           |         | 2437               | -7.31                 | -17.31               | ≤8.00                | PASS                |
|           |         | 2462               | -7.20                 | -17.20               | ≤8.00                | PASS                |
| 11G       | Ant1    | 2412               | -13.00                | -23.00               | ≤8.00                | PASS                |
|           |         | 2437               | -12.46                | -22.46               | ≤8.00                | PASS                |
|           |         | 2462               | -12.59                | -22.59               | ≤8.00                | PASS                |
| 11N20SISO | Ant1    | 2412               | -12.98                | -22.98               | ≤8.00                | PASS                |
|           |         | 2437               | -12.68                | -22.68               | ≤8.00                | PASS                |
|           |         | 2462               | -12.29                | -22.29               | ≤8.00                | PASS                |

#### Note:

1. The Duty Cycle Factor( $10 \cdot \log(1/D)$ ) and cable loss are compensated in the graph.
2.  $\text{PSD(dBm/3kHz)} = \text{PSD(dBm/30kHz)} - (10 \cdot \log(30/3))$



## 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

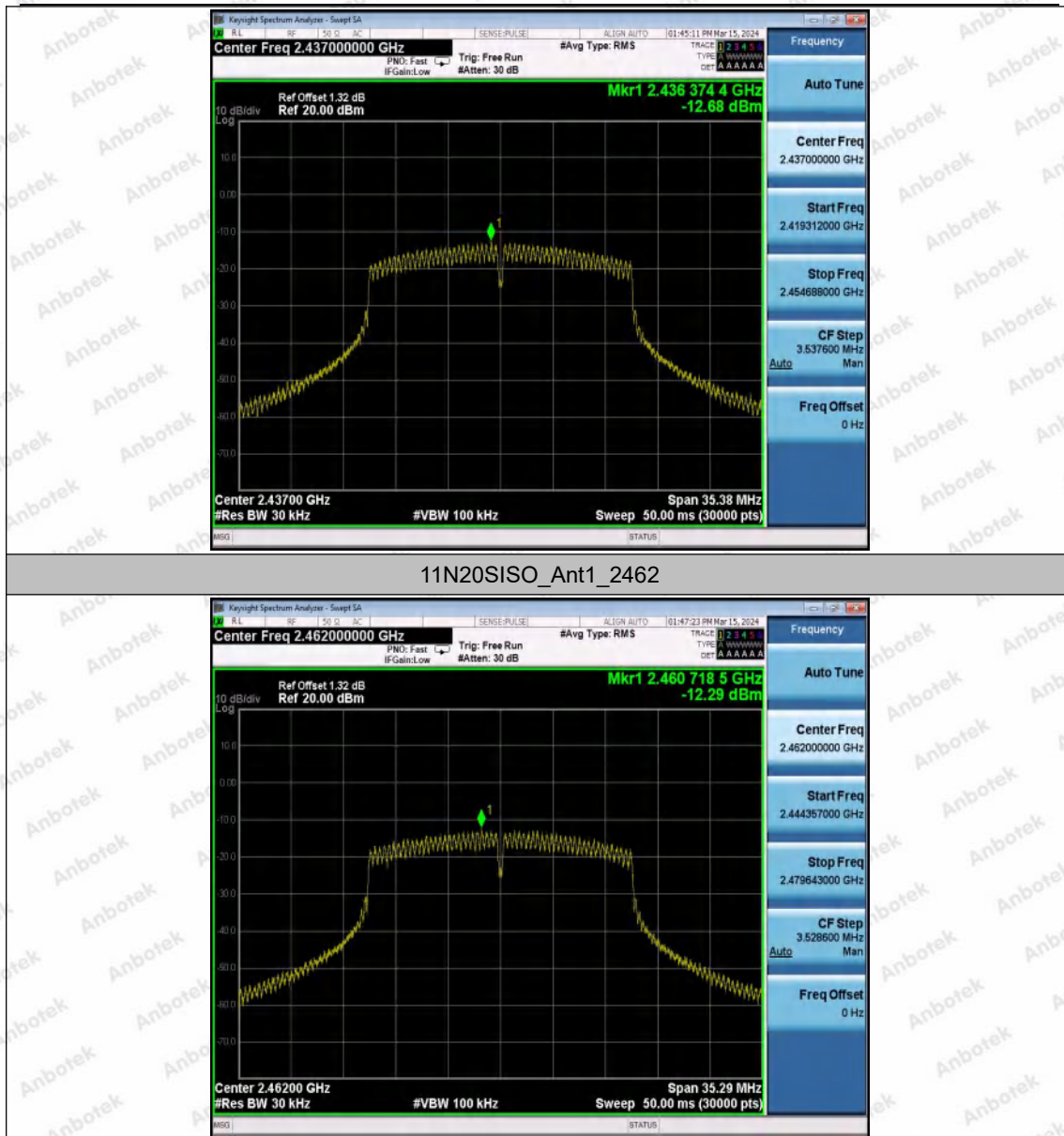
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## Appendix E: Conducted Band edge

### Test Result

| Test Mode | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|----------------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low    | 2412           | 5.47          | -40.34      | ≤-24.53    | PASS    |
|           |         | High   | 2462           | 5.74          | -51.42      | ≤-24.26    | PASS    |
| 11G       | Ant1    | Low    | 2412           | 0.82          | -31.97      | ≤-29.18    | PASS    |
|           |         | High   | 2462           | 0.23          | -47.83      | ≤-29.77    | PASS    |
| 11N20SISO | Ant1    | Low    | 2412           | 0.75          | -34.17      | ≤-29.25    | PASS    |
|           |         | High   | 2462           | 0.86          | -45.14      | ≤-29.14    | PASS    |

### Test Graphs



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11G\_Ant1\_Low\_2412



11G\_Ant1\_High\_2462



11N20SISO\_Ant1\_Low\_2412

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11N20SISO\_Ant1\_High\_2462



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## Appendix F: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | Reference       | 5.41           | 5.41         | ---         | PASS    |
|           |         |                | 30~1000         | 5.41           | -60.94       | ≤-24.59     | PASS    |
|           |         |                | 1000~26500      | 5.41           | -53.83       | ≤-24.59     | PASS    |
|           |         | 2437           | Reference       | 5.82           | 5.82         | ---         | PASS    |
|           |         |                | 30~1000         | 5.82           | -46.48       | ≤-24.18     | PASS    |
|           |         |                | 1000~26500      | 5.82           | -53.44       | ≤-24.18     | PASS    |
|           |         | 2462           | Reference       | 5.78           | 5.78         | ---         | PASS    |
|           |         |                | 30~1000         | 5.78           | -67.75       | ≤-24.22     | PASS    |
|           |         |                | 1000~26500      | 5.78           | -53.62       | ≤-24.22     | PASS    |
| 11G       | Ant1    | 2412           | Reference       | 0.18           | 0.18         | ---         | PASS    |
|           |         |                | 30~1000         | 0.18           | -68.11       | ≤-29.82     | PASS    |
|           |         |                | 1000~26500      | 0.18           | -53.66       | ≤-29.82     | PASS    |
|           |         | 2437           | Reference       | 0.77           | 0.77         | ---         | PASS    |
|           |         |                | 30~1000         | 0.77           | -68.32       | ≤-29.23     | PASS    |
|           |         |                | 1000~26500      | 0.77           | -49.39       | ≤-29.23     | PASS    |
|           |         | 2462           | Reference       | 1.05           | 1.05         | ---         | PASS    |
|           |         |                | 30~1000         | 1.05           | -68.38       | ≤-28.95     | PASS    |
|           |         |                | 1000~26500      | 1.05           | -49.49       | ≤-28.95     | PASS    |
| 11N20SISO | Ant1    | 2412           | Reference       | 0.63           | 0.63         | ---         | PASS    |
|           |         |                | 30~1000         | 0.63           | -68.24       | ≤-29.37     | PASS    |
|           |         |                | 1000~26500      | 0.63           | -53.08       | ≤-29.37     | PASS    |
|           |         | 2437           | Reference       | 0.51           | 0.51         | ---         | PASS    |
|           |         |                | 30~1000         | 0.51           | -68.56       | ≤-29.49     | PASS    |
|           |         |                | 1000~26500      | 0.51           | -51.86       | ≤-29.49     | PASS    |
|           |         | 2462           | Reference       | 1.15           | 1.15         | ---         | PASS    |
|           |         |                | 30~1000         | 1.15           | -54.99       | ≤-28.85     | PASS    |
|           |         |                | 1000~26500      | 1.15           | -46.29       | ≤-28.85     | PASS    |

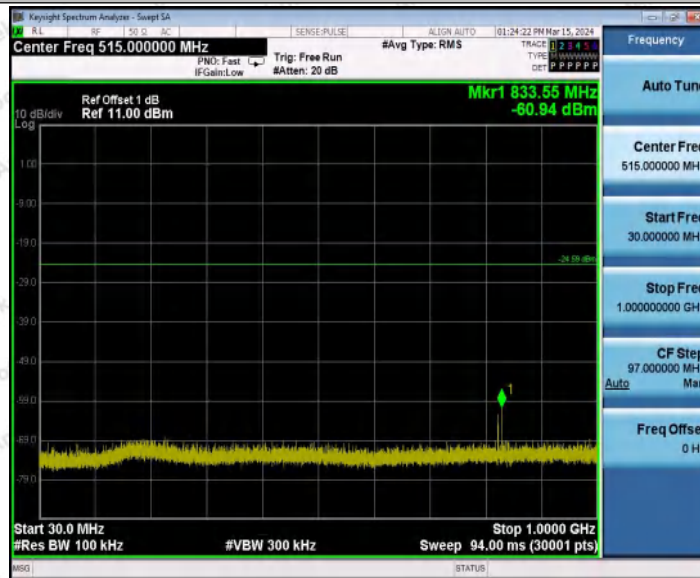


## Test Graphs

11B\_Ant1\_2412\_0~Reference



11B\_Ant1\_2412\_30~1000



11B\_Ant1\_2412\_1000~26500

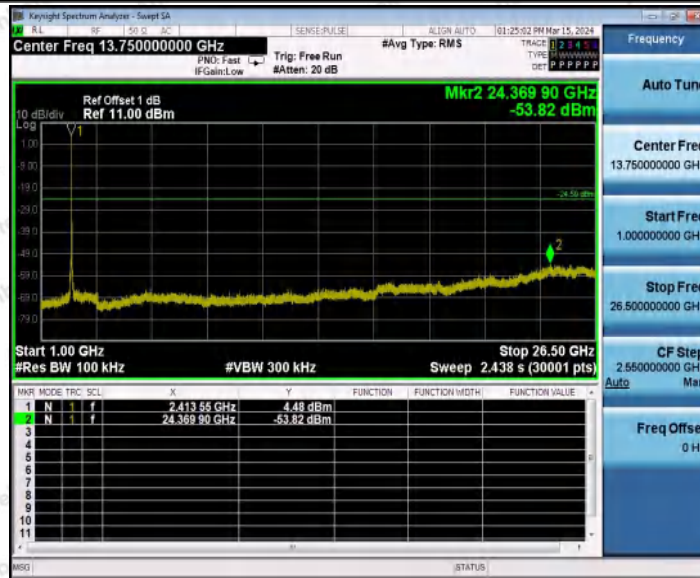
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11B\_Ant1\_2437\_0~Reference



11B\_Ant1\_2437\_30~1000



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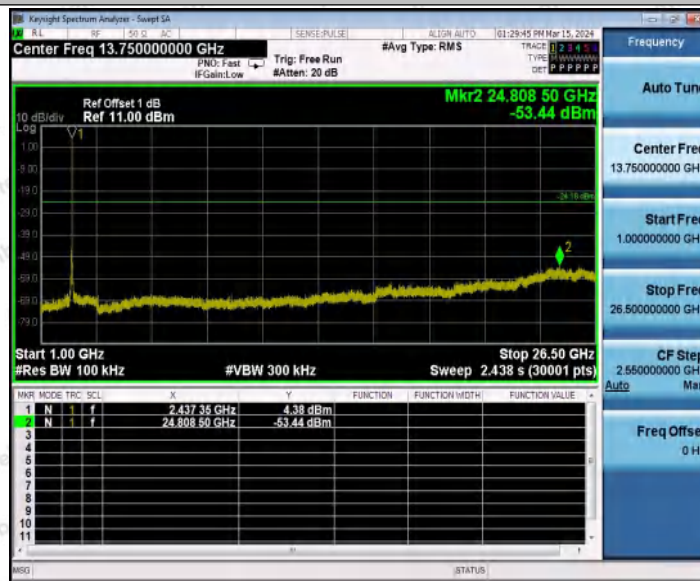
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11B\_Ant1\_2437\_1000~26500



11B\_Ant1\_2462\_0~Reference



11B\_Ant1\_2462\_30~1000

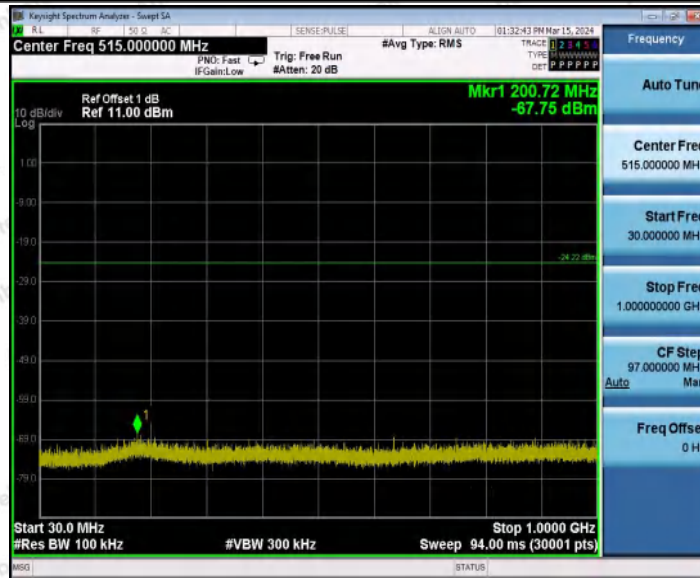
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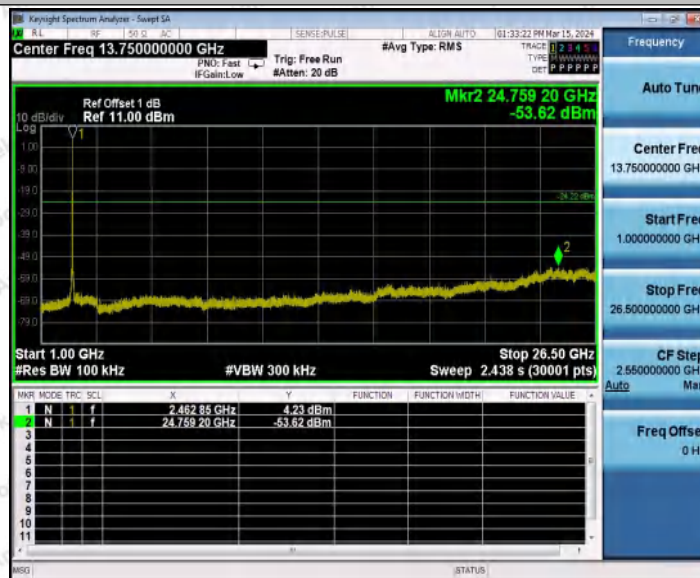


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11B\_Ant1\_2462\_1000~26500



11G\_Ant1\_2412\_0~Reference



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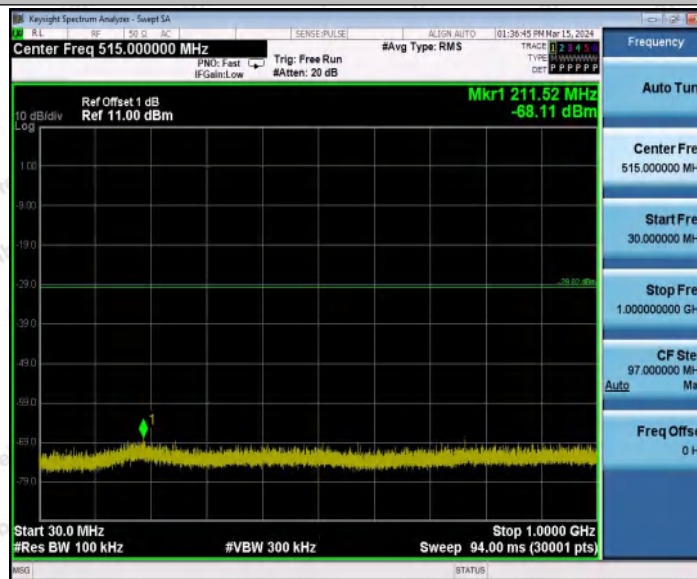
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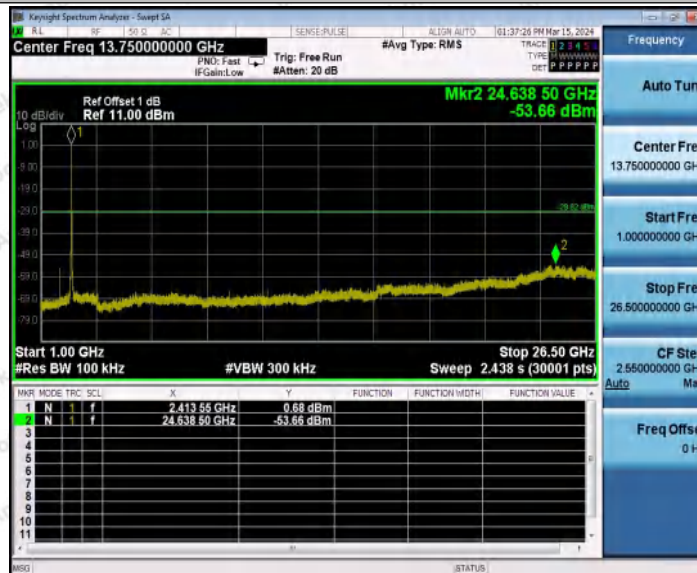
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## 11G\_Ant1\_2412\_30~1000



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



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

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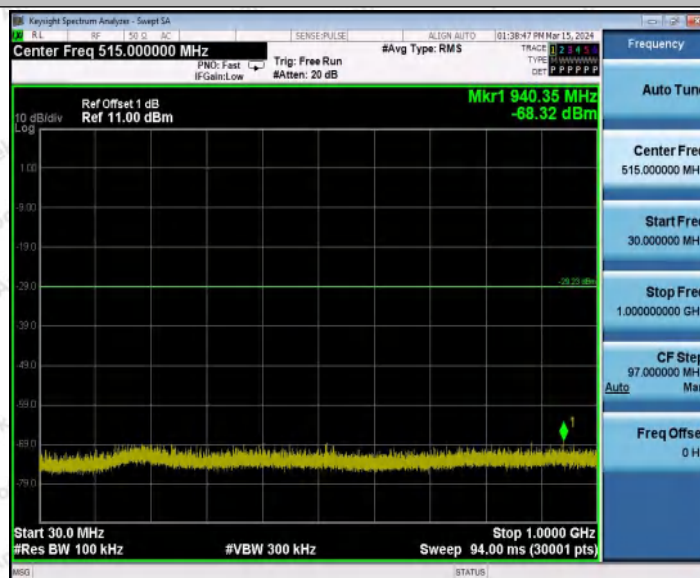


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11G\_Ant1\_2437\_30~1000



11G\_Ant1\_2437\_1000~26500



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



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



## 11G\_Ant1\_2462\_1000~26500

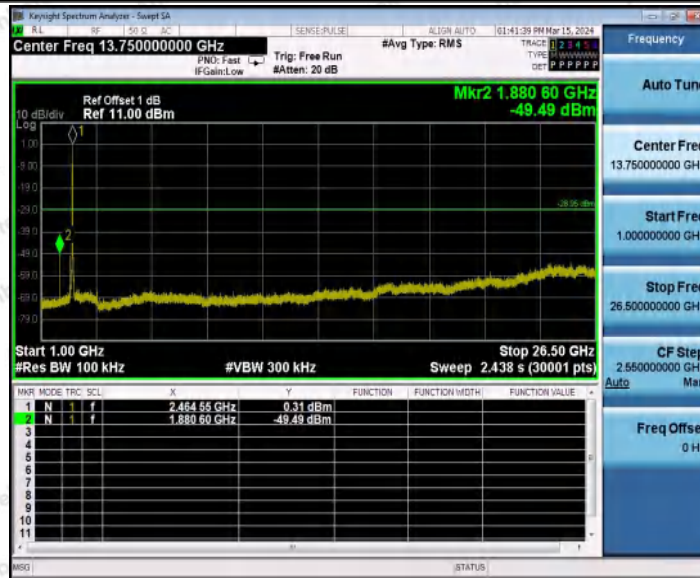
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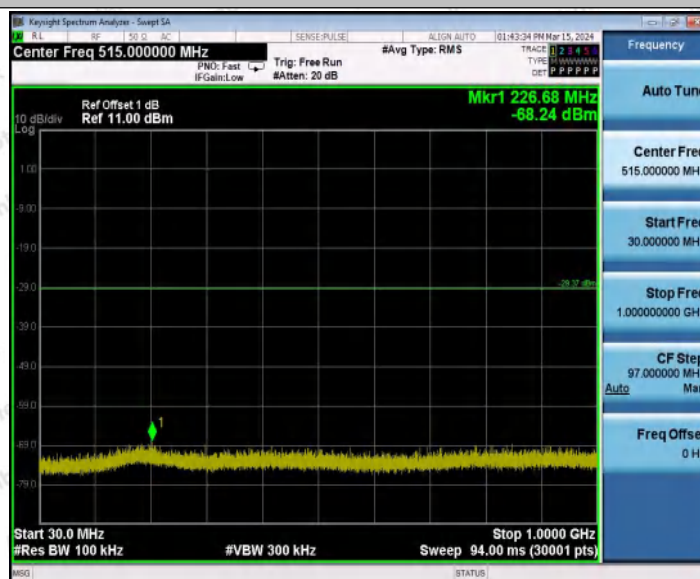




11N20SISO\_Ant1\_2412\_0~Reference



11N20SISO\_Ant1\_2412\_30~1000



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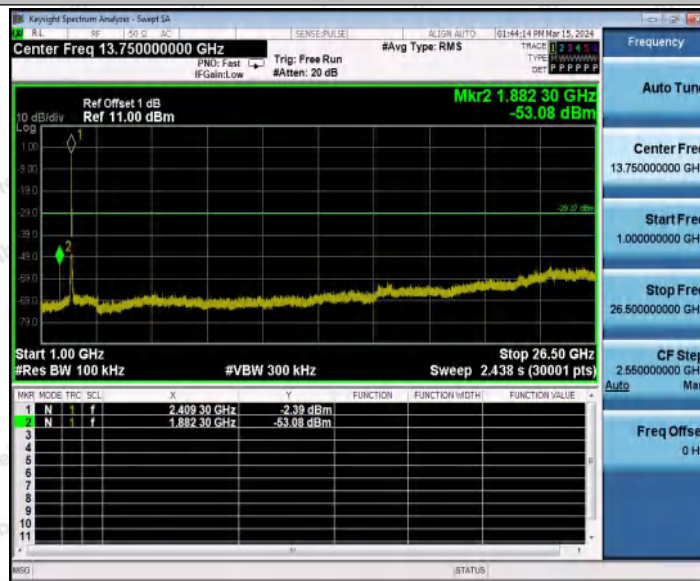
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11N20SISO\_Ant1\_2412\_1000~26500



11N20SISO\_Ant1\_2437\_0~Reference



11N20SISO\_Ant1\_2437\_30~1000

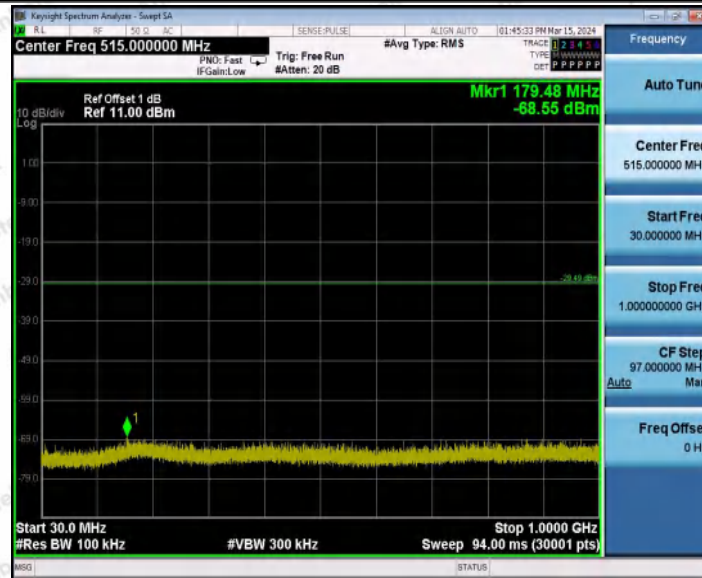
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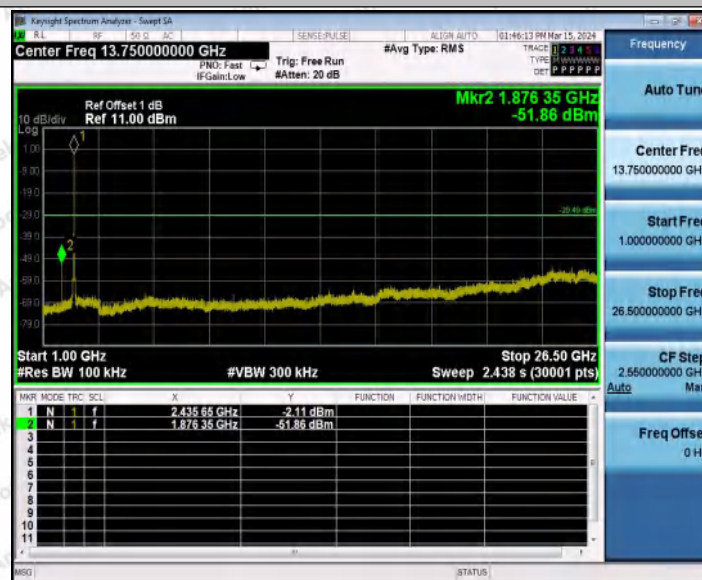


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11N20SISO\_Ant1\_2437\_1000~26500



11N20SISO\_Ant1\_2462\_0~Reference



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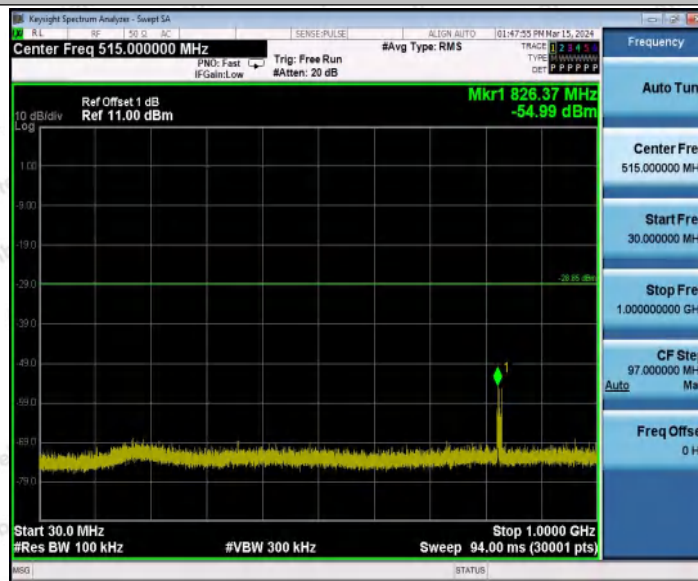
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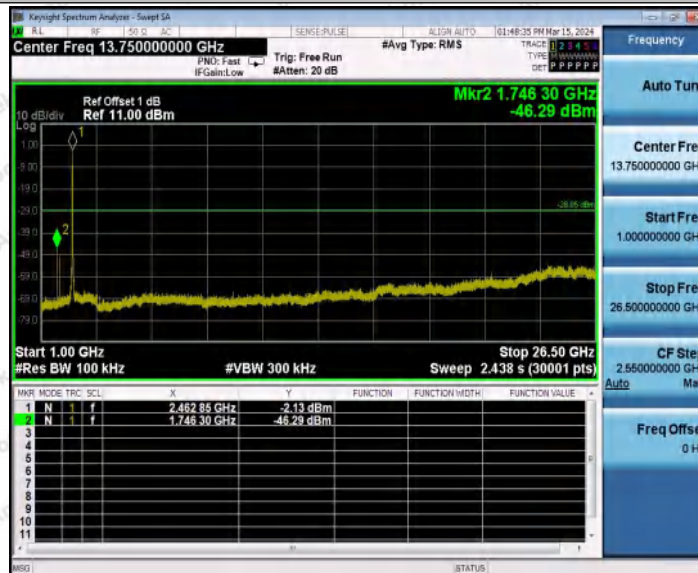
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11N20SISO\_Ant1\_2462\_30~1000



11N20SISO\_Ant1\_2462\_1000~26500

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## Appendix G: Duty Cycle

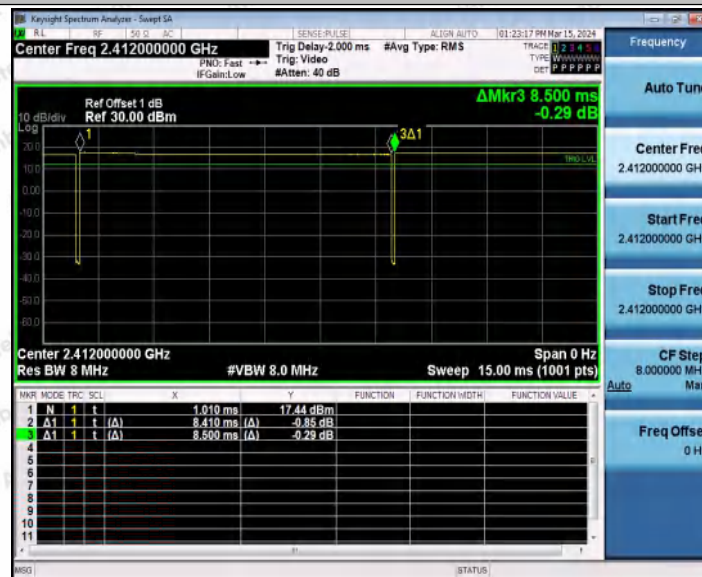
### Test Result

| Test Mode | Antenna | Frequency[MHz] | Transmission<br>Duration<br>[ms] | Transmission<br>Period [ms] | Duty Cycle<br>[%] | Factor |
|-----------|---------|----------------|----------------------------------|-----------------------------|-------------------|--------|
| 11B       | Ant1    | 2412           | 8.41                             | 8.50                        | 98.94             | 0.05   |
|           |         | 2437           | 8.41                             | 8.51                        | 98.82             | 0.05   |
|           |         | 2462           | 8.42                             | 8.51                        | 98.94             | 0.05   |
| 11G       | Ant1    | 2412           | 1.39                             | 1.49                        | 93.29             | 0.30   |
|           |         | 2437           | 1.39                             | 1.50                        | 92.67             | 0.33   |
|           |         | 2462           | 1.39                             | 1.50                        | 92.67             | 0.33   |
| 11N20SISO | Ant1    | 2412           | 1.31                             | 1.41                        | 92.91             | 0.32   |
|           |         | 2437           | 1.31                             | 1.41                        | 92.91             | 0.32   |
|           |         | 2462           | 1.30                             | 1.40                        | 92.86             | 0.32   |

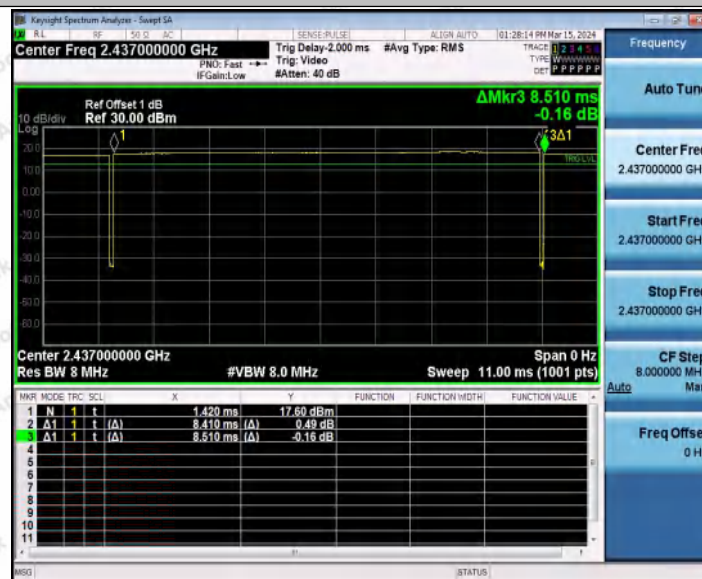


## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

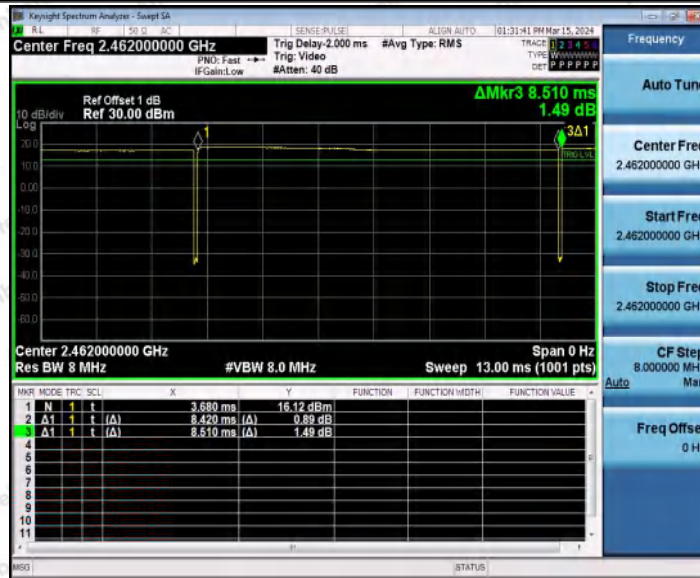
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

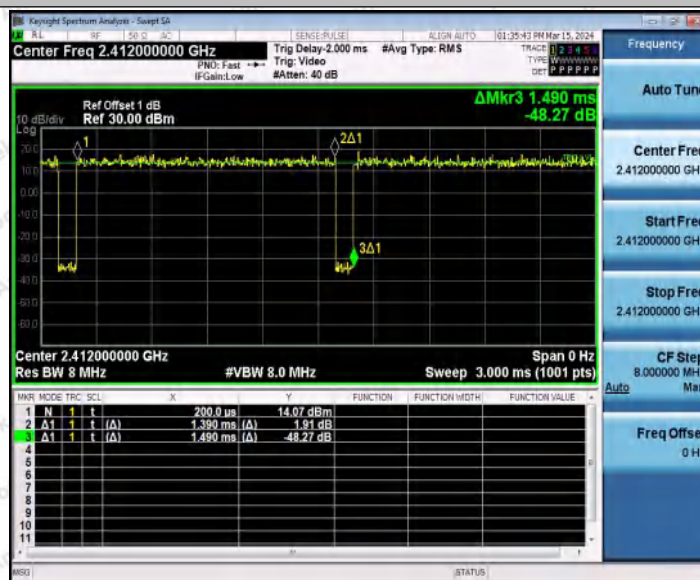


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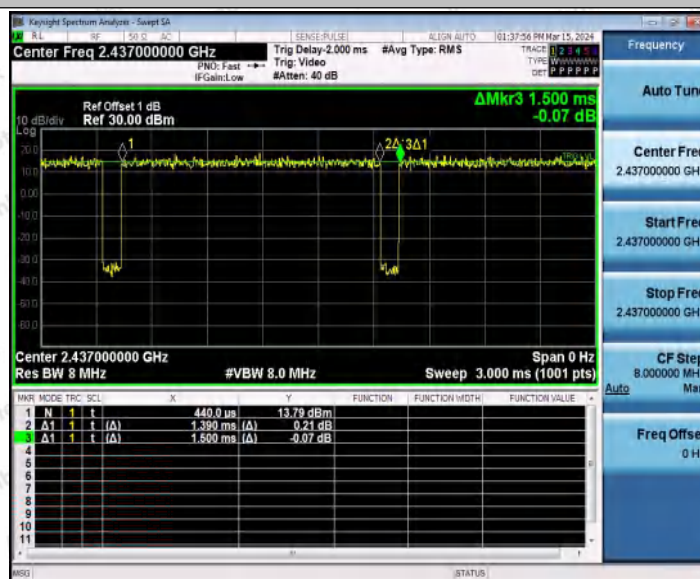




11G\_Ant1\_2412



11G\_Ant1\_2437



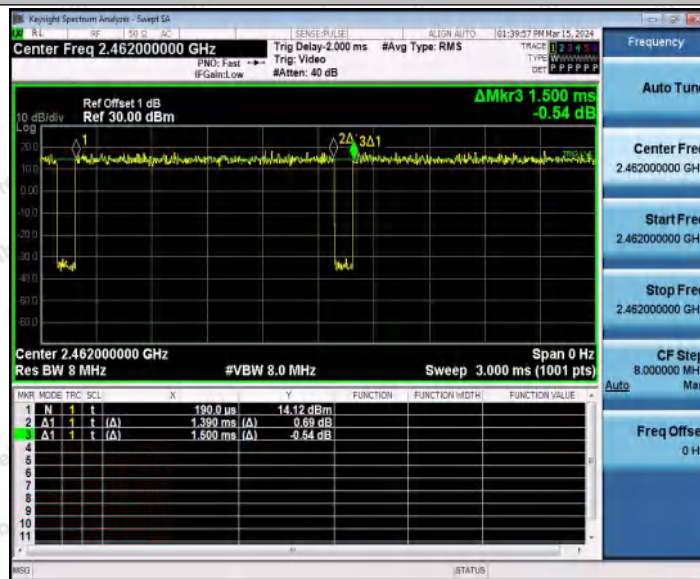
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

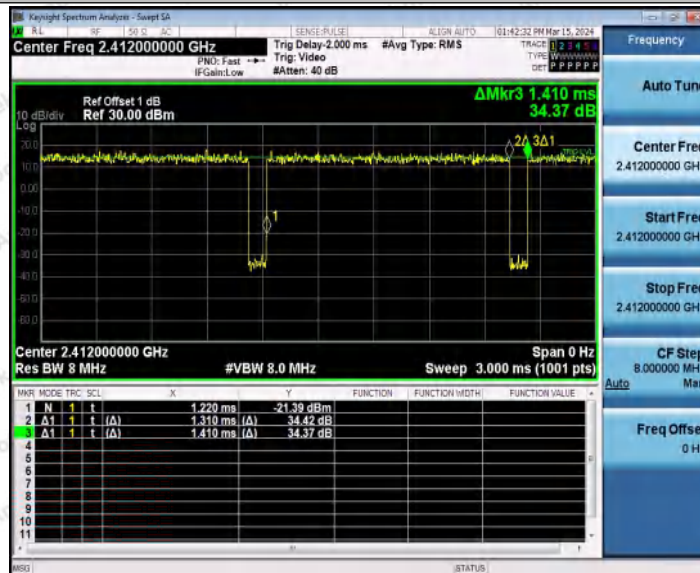
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11G\_Ant1\_2462



11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437

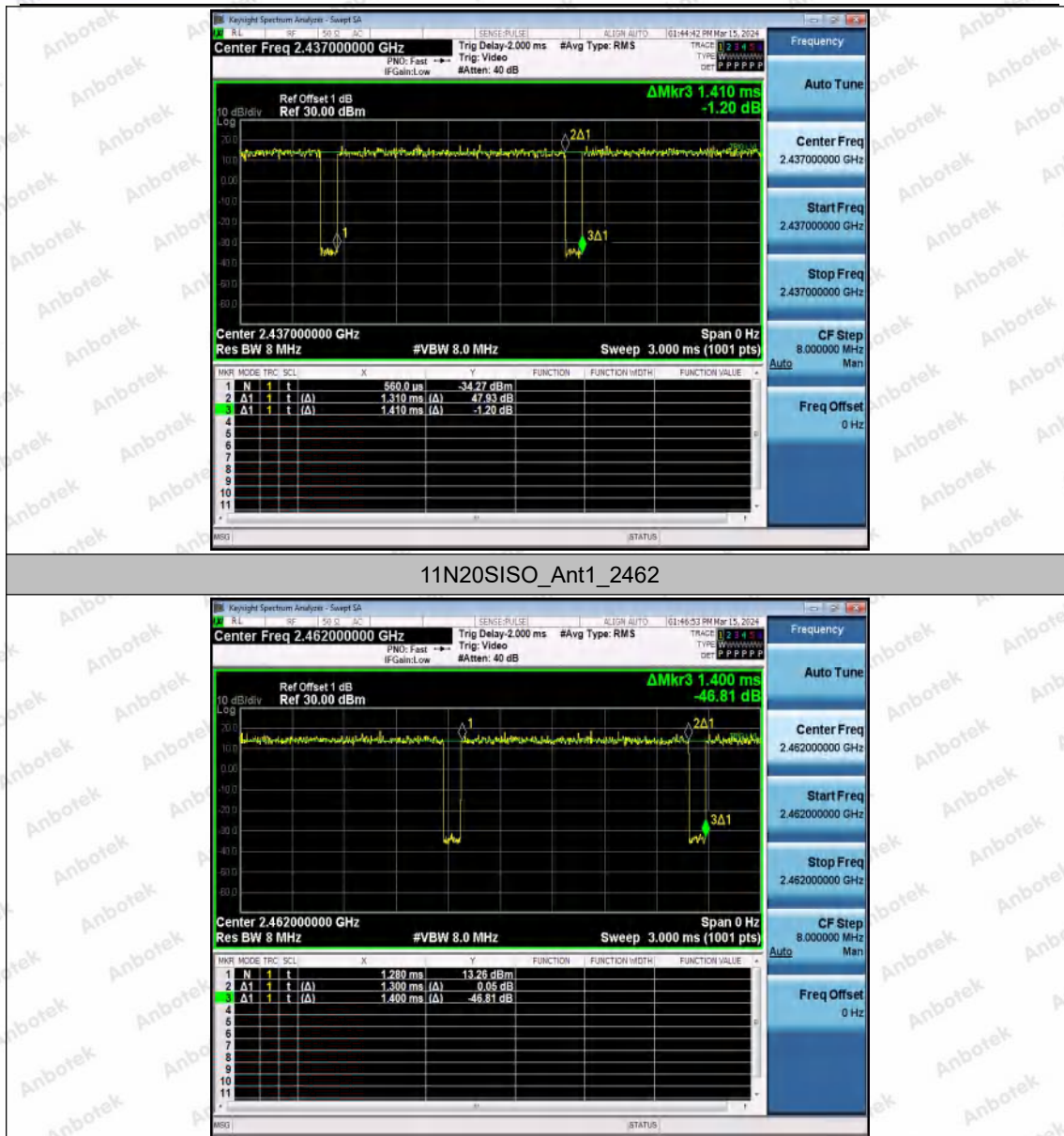
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