

## Appendix Test Data

|                  |                     |                    |                    |
|------------------|---------------------|--------------------|--------------------|
| Report No.:      | 1812C50631712502-01 | Test Sample No.:   | 1-2-2              |
| Start Test Date: | 2025-12-16          | Finish Test Date:  | 2025-12-16         |
| Test Engineer:   | <i>Alex Peng</i>    | Auditor:           | <i>Justin Feng</i> |
| Temperature:     | 23.8°C              | Relative Humidity: | 42%                |
| Pressure:        | 101kPa              |                    |                    |

## Appendix A: 20dB Bandwidth

### Test Result

| Test Mode | Antenna | Frequency [MHz] | 20db EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|-----------------|---------------|----------|----------|------------|---------|
| 2.4G      | Ant1    | 2403            | 2.328         | 2401.854 | 2404.182 | ---        | ---     |
| 2.4G      | Ant1    | 2441            | 2.256         | 2439.920 | 2442.176 | ---        | ---     |
| 2.4G      | Ant1    | 2480            | 2.238         | 2478.938 | 2481.176 | ---        | ---     |

## Test Graphs



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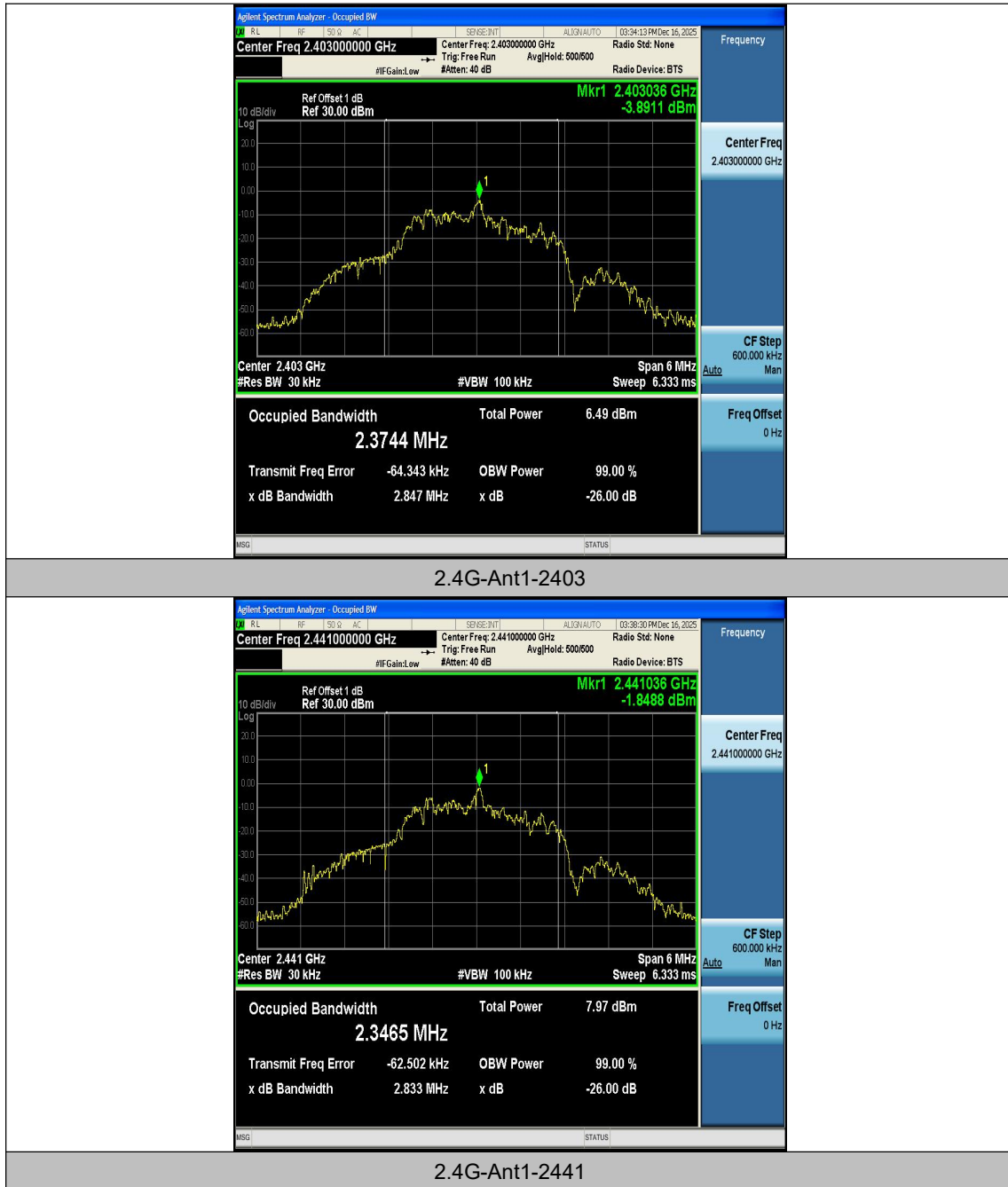


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**Appendix B: 99% Occupied Bandwidth****Test Result**

| Test Mode | Antenna | Frequency [MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|-----------------|-----------|-----------|-----------|------------|---------|
| 2.4G      | Ant1    | 2403            | 2.3744    | 2401.7485 | 2404.1229 | ---        | ---     |
| 2.4G      | Ant1    | 2441            | 2.3465    | 2439.7643 | 2442.1108 | ---        | ---     |
| 2.4G      | Ant1    | 2480            | 2.2878    | 2478.8220 | 2481.1098 | ---        | ---     |

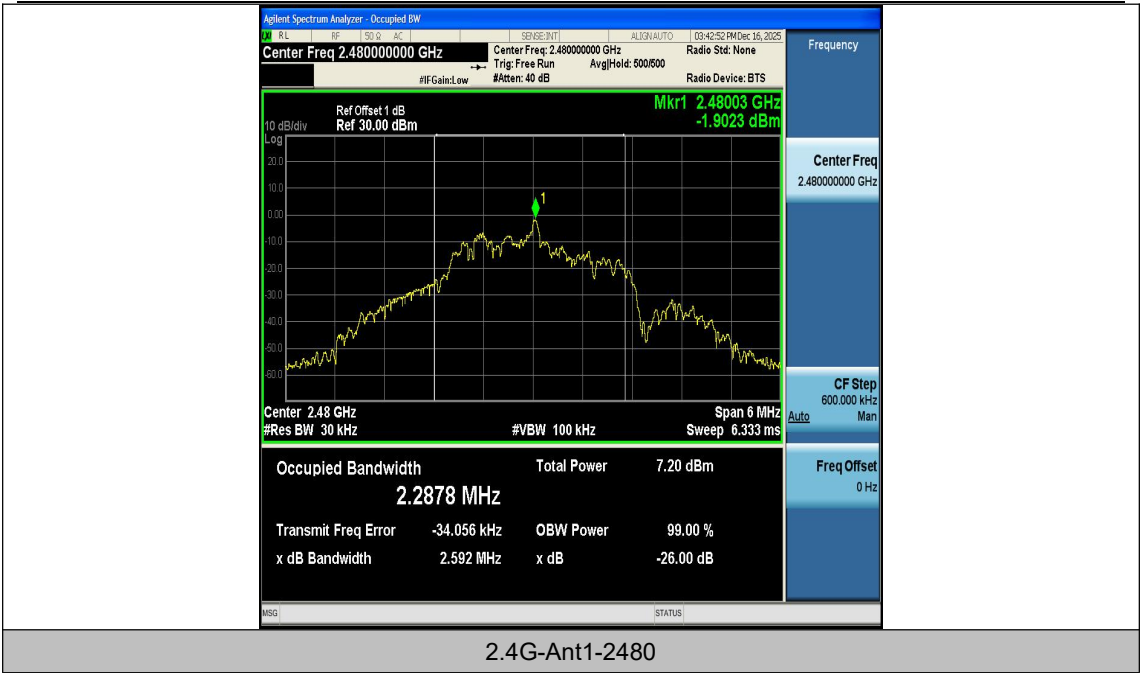
## Test Graphs



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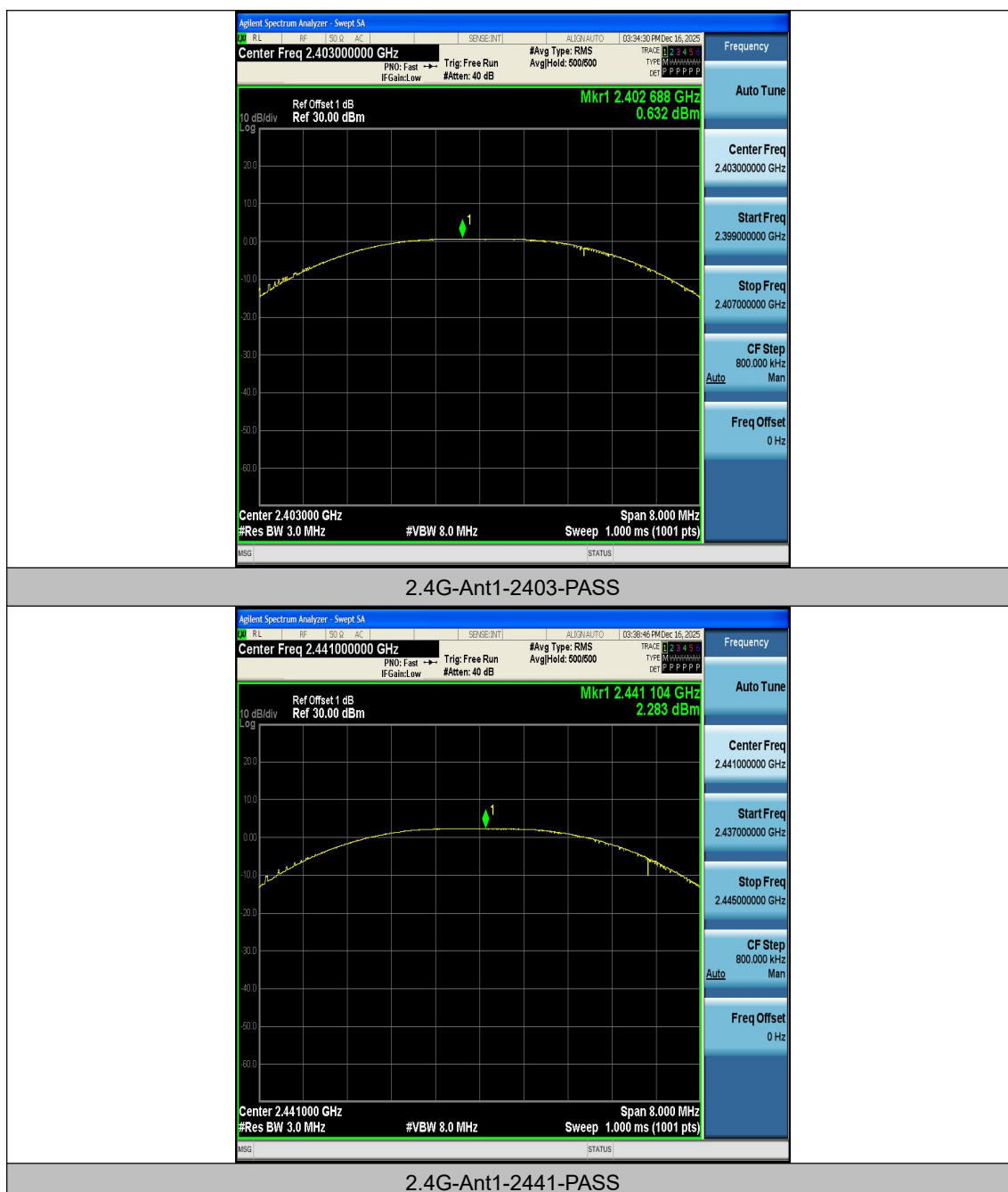
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## Appendix C: Maximum Conducted Output Power

### Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|---------------------------|----------------------|---------|
| 2.4G      | Ant1    | 2403           | 0.63                      | ≤20.97               | PASS    |
| 2.4G      | Ant1    | 2441           | <b>2.28</b>               | ≤20.97               | PASS    |
| 2.4G      | Ant1    | 2480           | 1.54                      | ≤20.97               | PASS    |

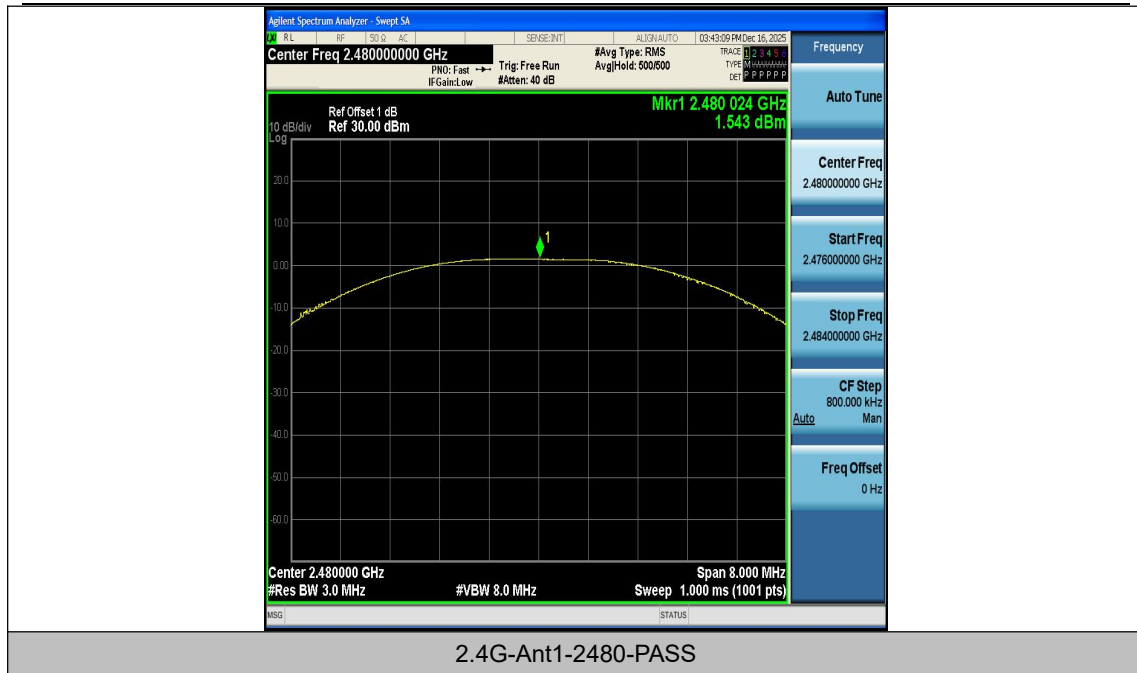
### Test Graphs



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## Appendix D: Carrier frequency separation

### Test Result

| Test Mode | Antenna | Frequency<br>[MHz] | Result<br>[MHz] | Limit[MHz] | Verdict |
|-----------|---------|--------------------|-----------------|------------|---------|
| 2.4G      | ANT1    | Hop                | 1.995           | >1.552     | PASS    |

Note: Only record the worst data in the report.

## Test Graphs



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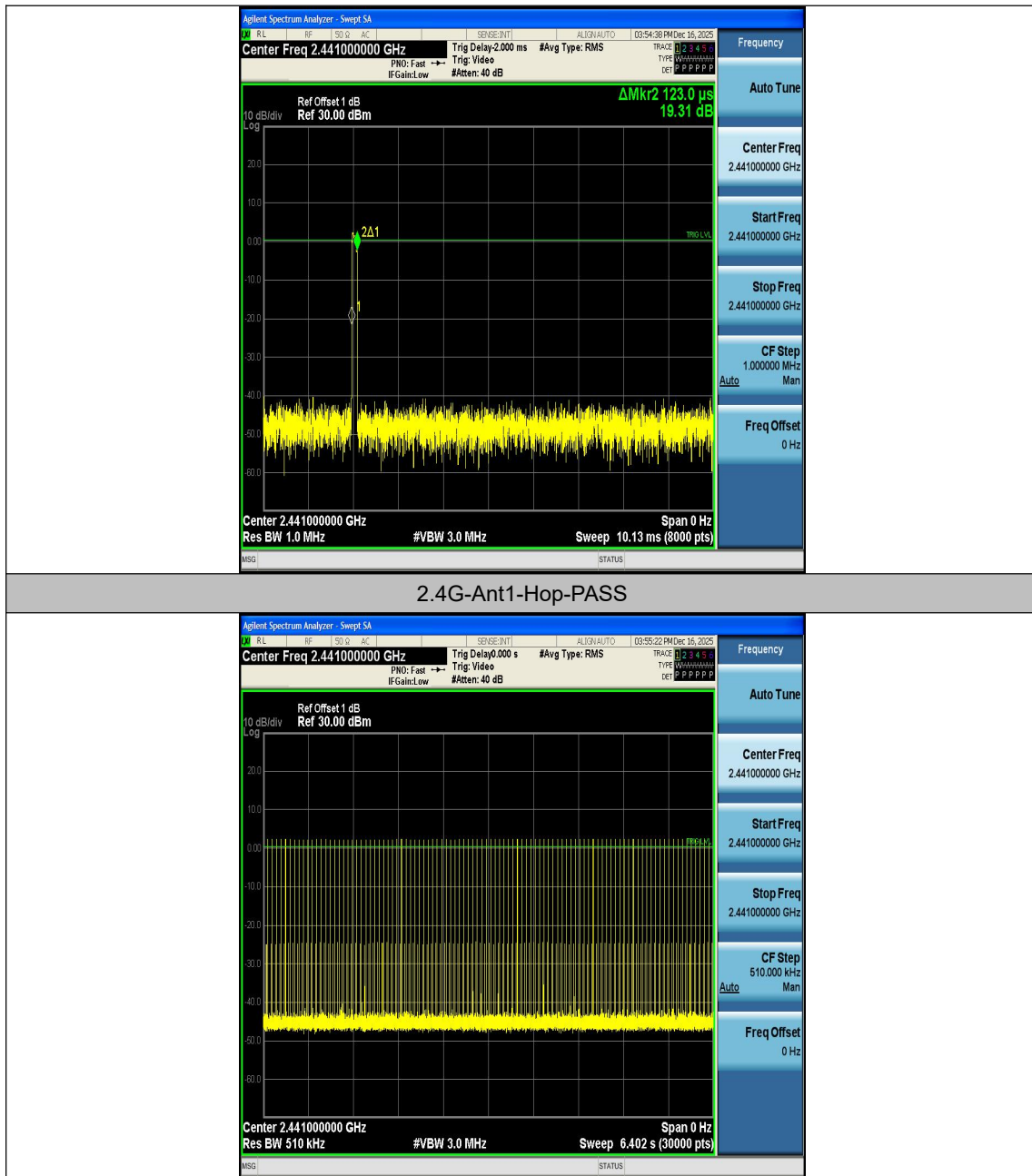
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## Appendix E: Dwell Time

### Test Result

| Test Mode | Antenna | Frequency [MHz] | Burst Width [ms] | Total Hops [Num] | Result [s] | Limit [s] | Verdict |
|-----------|---------|-----------------|------------------|------------------|------------|-----------|---------|
| 2.4G      | Ant1    | Hop             | 0.123            | 101              | 0.012      | ≤0.4      | PASS    |

## Test Graphs



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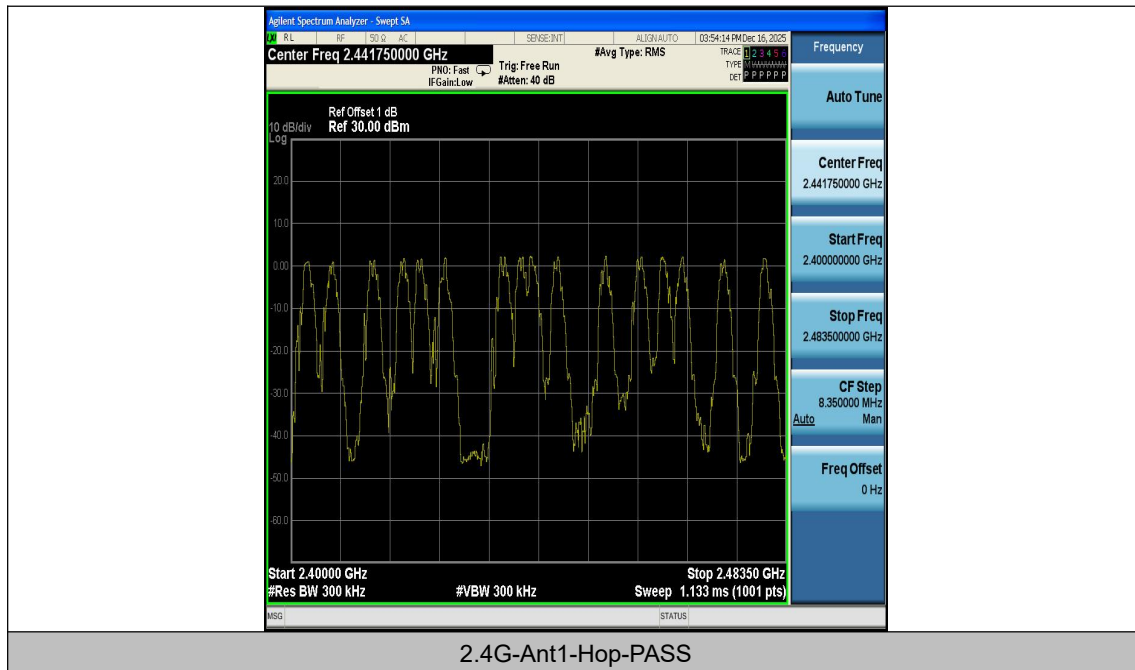
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## Appendix F: Number of Hopping Channel

### Test Result

| Test Mode | Antenna | Frequency<br>[MHz] | Result<br>[Num] | Limit<br>[Num] | Verdict |
|-----------|---------|--------------------|-----------------|----------------|---------|
| 2.4G      | Ant1    | Hop                | 16              | ≥15            | PASS    |

## Test Graphs



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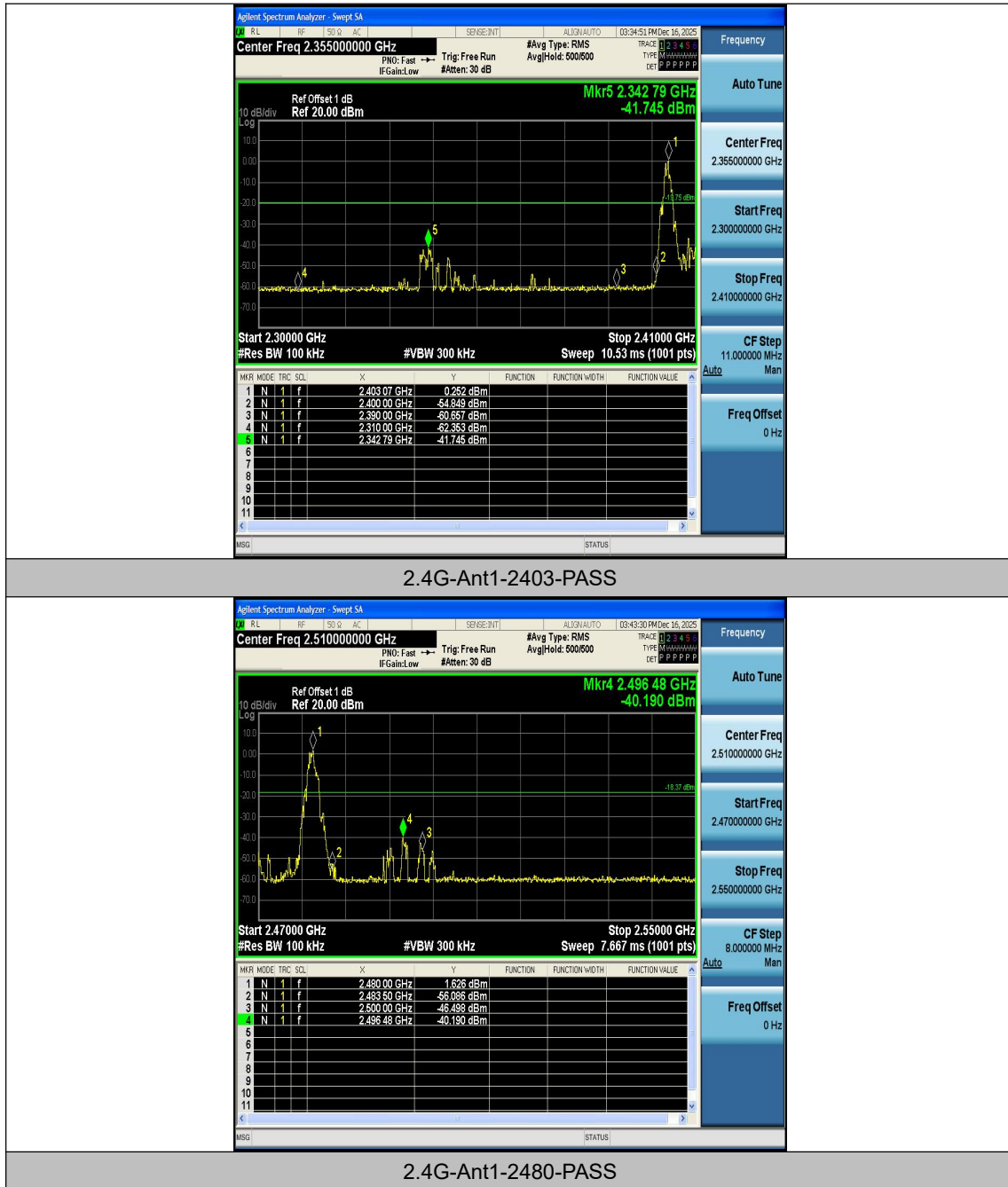
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## Appendix G: Conducted Band edge

### Test Result

| Test Mode | Antenna | Ch. Name | Frequency [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------|-----------------|------------------|--------------|-------------|---------|
| 2.4G      | Ant1    | Low      | 2403            | 0.25             | -41.75       | ≤-19.75     | PASS    |
| 2.4G      | Ant1    | High     | 2480            | 1.63             | -40.19       | ≤-18.37     | PASS    |
| 2.4G      | Ant1    | Low      | Hop             | 0.73             | -42.42       | ≤-19.27     | PASS    |
| 2.4G      | Ant1    | High     | Hop             | 1.13             | -32.23       | ≤-18.87     | PASS    |

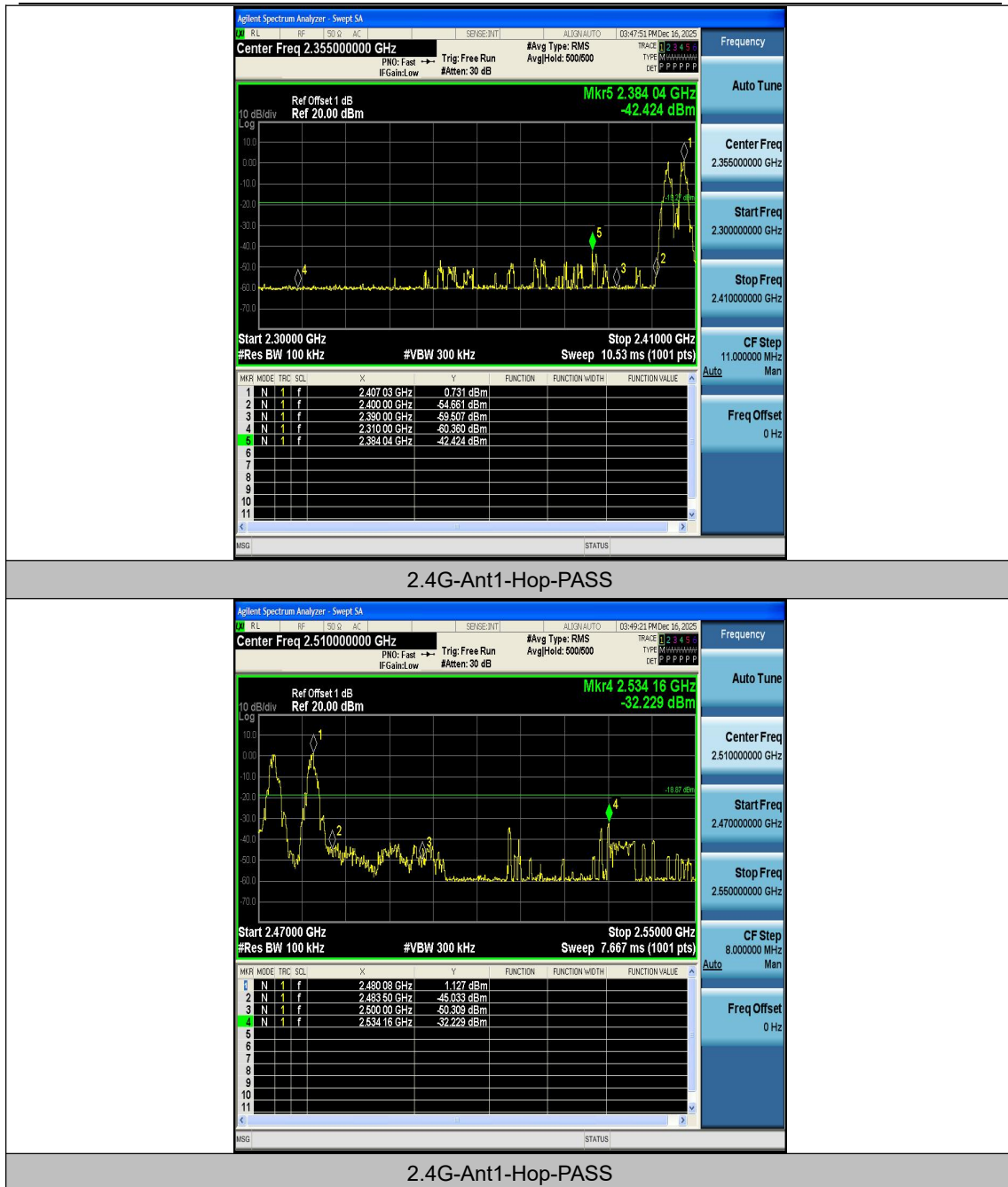
## Test Graphs



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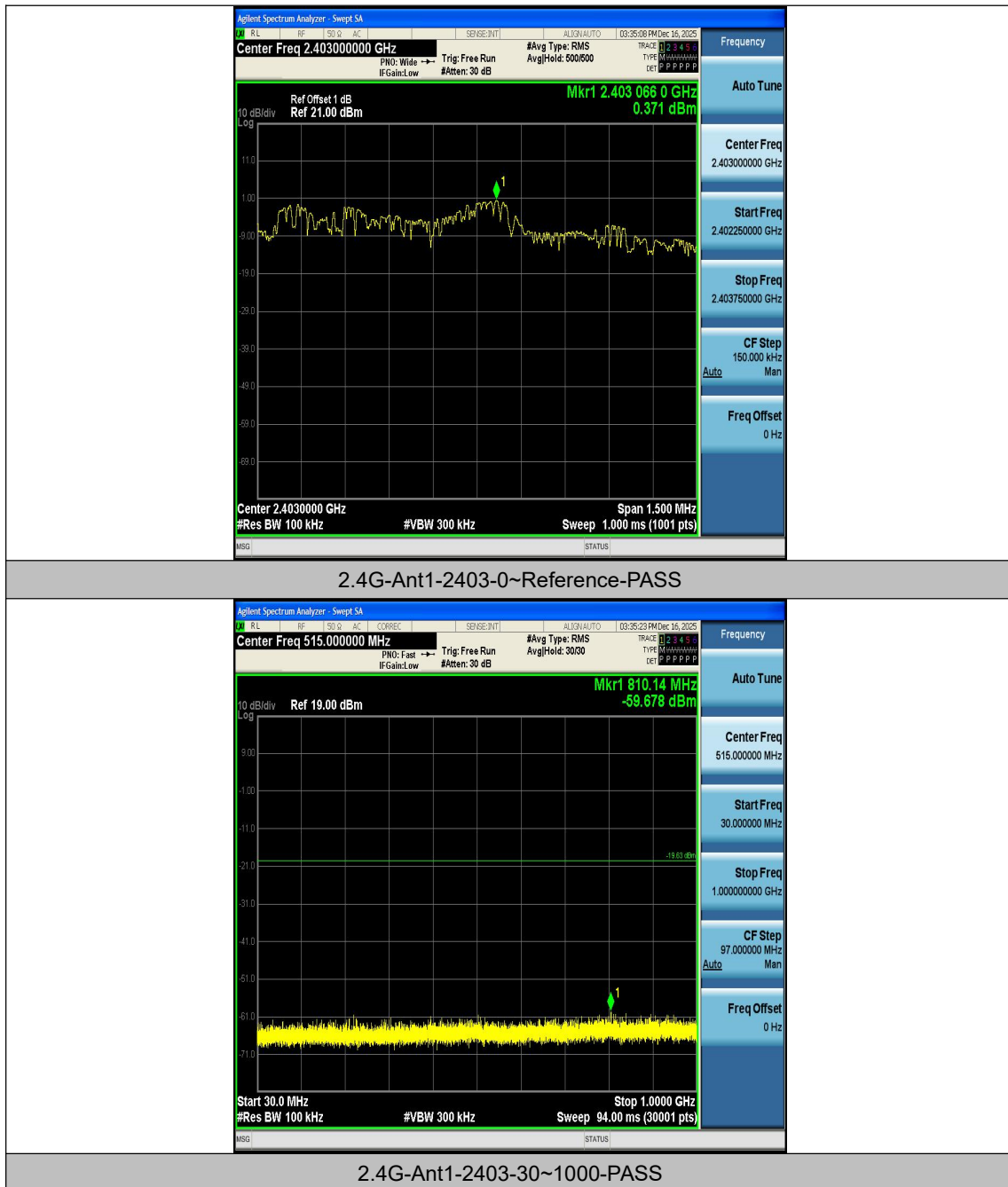
## Appendix H: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Frequency[MHz] | Freq. Range [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-------------------|------------------|--------------|-------------|---------|
| 2.4G      | Ant1    | 2403           | 0~Reference       | 0.37             | 0.37         | ---         | PASS    |
| 2.4G      | Ant1    | 2403           | 30~1000           | 0.37             | -59.68       | ≤-19.63     | PASS    |
| 2.4G      | Ant1    | 2403           | 1000~26500        | 0.37             | -37.29       | ≤-19.63     | PASS    |
| 2.4G      | Ant1    | 2441           | 0~Reference       | 2.06             | 2.06         | ---         | PASS    |
| 2.4G      | Ant1    | 2441           | 30~1000           | 2.06             | -59.13       | ≤-17.94     | PASS    |
| 2.4G      | Ant1    | 2441           | 1000~26500        | 2.06             | -31.9        | ≤-17.94     | PASS    |
| 2.4G      | Ant1    | 2480           | 0~Reference       | 1.35             | 1.35         | ---         | PASS    |
| 2.4G      | Ant1    | 2480           | 30~1000           | 1.35             | -59.89       | ≤-18.65     | PASS    |
| 2.4G      | Ant1    | 2480           | 1000~26500        | 1.35             | -40.89       | ≤-18.65     | PASS    |

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable loss have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

## Test Graphs



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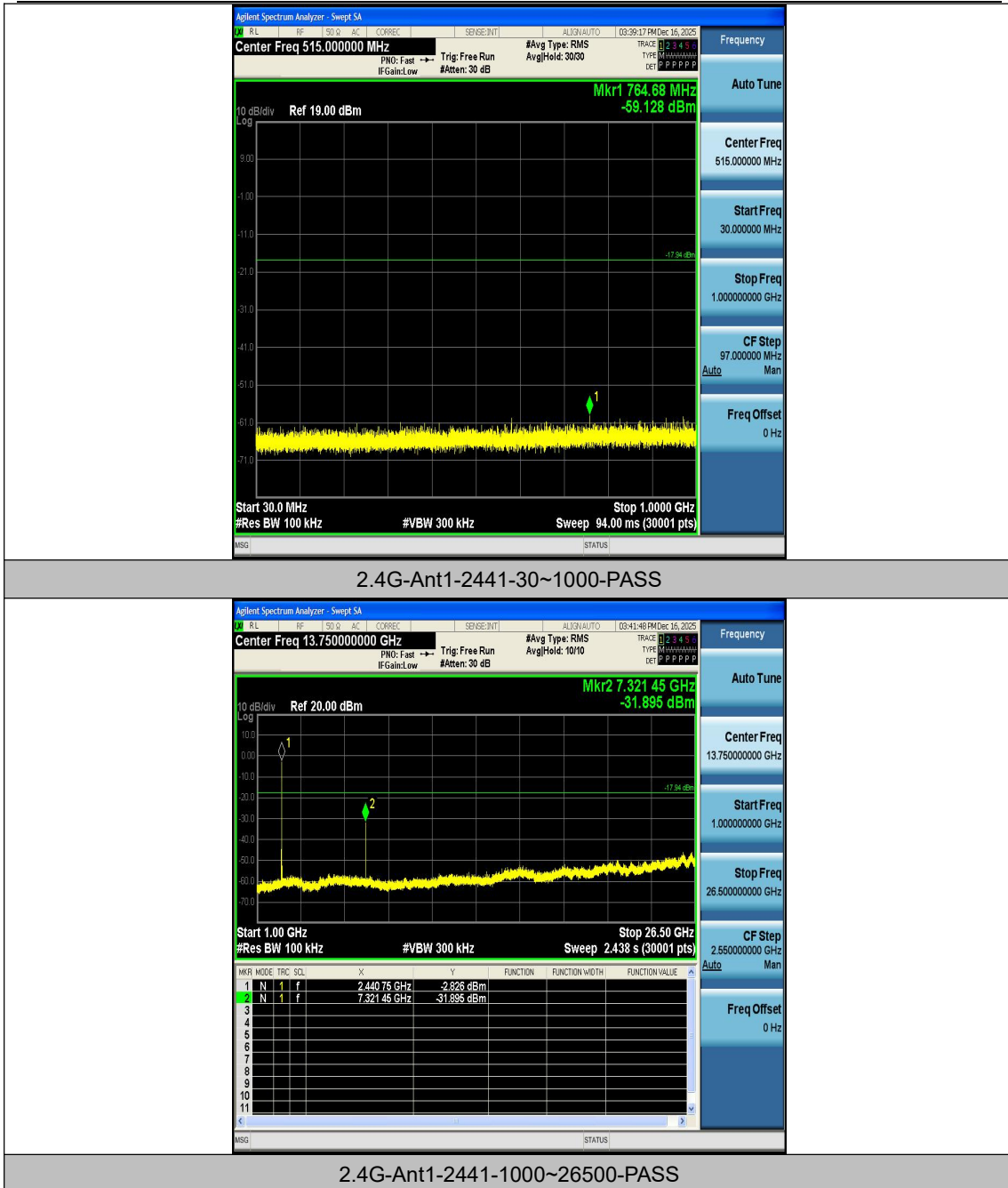
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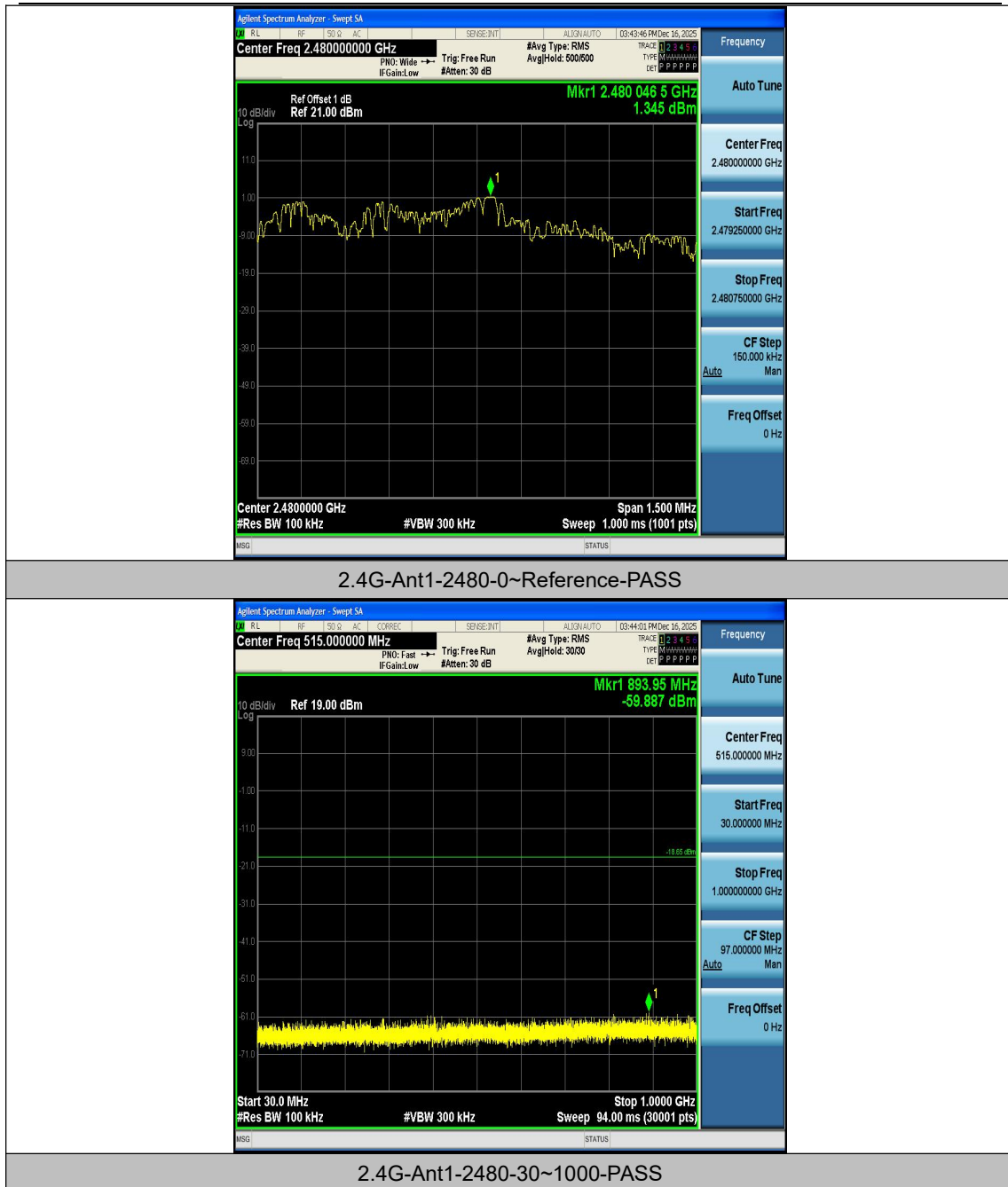
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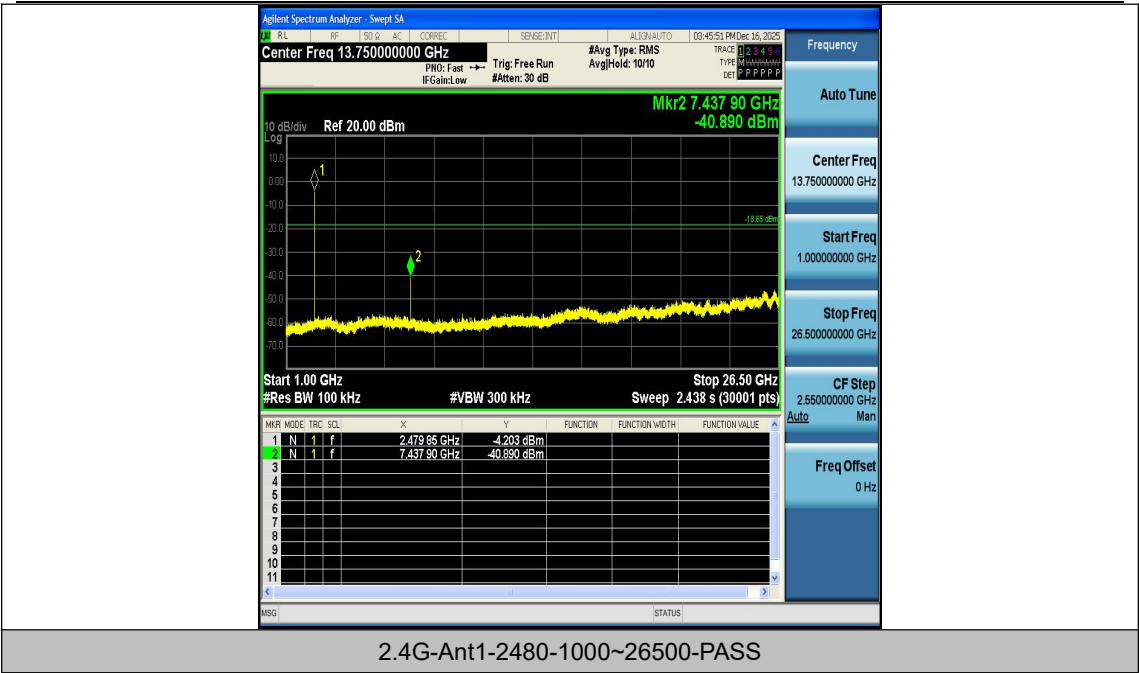
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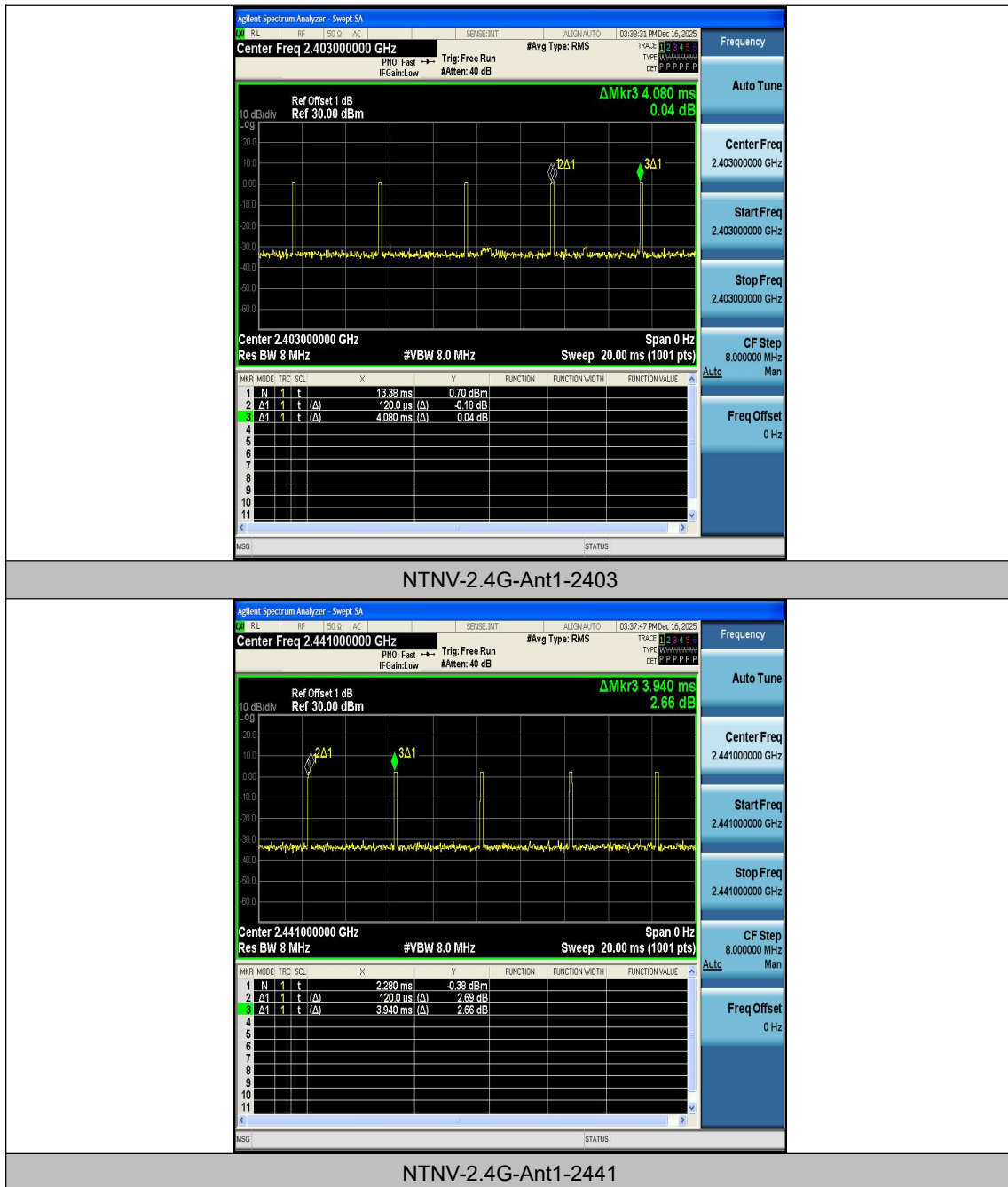
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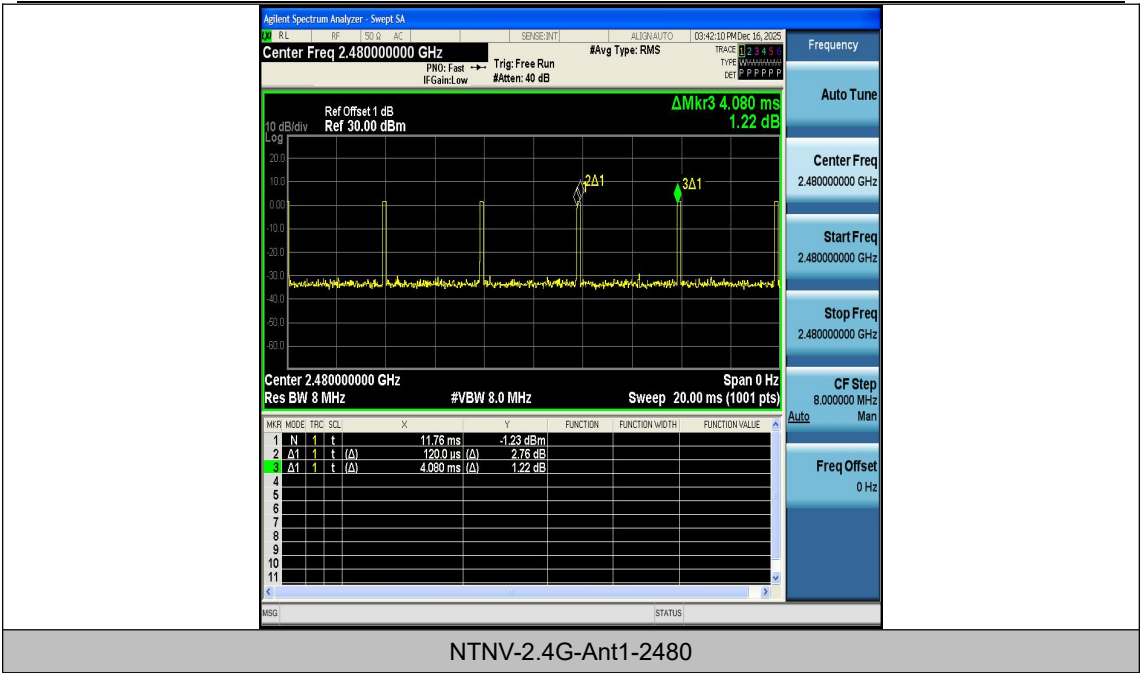
## Appendix I: Duty Cycle

### Test Result

| Test Mode | Antenna | Frequency[MHz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>Factor[dB] |
|-----------|---------|----------------|-----------------|----------------|-------------------|--------------------------|
| 2.4G      | Ant1    | 2403           | 0.12            | 4.08           | 2.94              | 15.32                    |
| 2.4G      | Ant1    | 2441           | 0.12            | 3.94           | 3.05              | 15.16                    |
| 2.4G      | Ant1    | 2480           | 0.12            | 4.08           | 2.94              | 15.32                    |

## Test Graphs





NTNV-2.4G-Ant1-2480

---End---