

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20009301 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.1.18       | Finish Test Date:  | 2022.1.24         |
| Test Engineer:   | <i>Jony.He</i>  | Auditor:           | <i>Edward.Pan</i> |
| Temperature:     | 24.3°C          | Relative Humidity: | 56.2 %            |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: 20dB Emission Bandwidth

## Test Result

| TestMode | Antenna | Channel | 20db<br>EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|------------------|----------|----------|------------|---------|
| 2.4      | Ant1    | 2403    | 2.300            | 2401.875 | 2404.175 | ---        | PASS    |
|          |         | 2441    | 2.265            | 2439.900 | 2442.165 | ---        | PASS    |
|          |         | 2480    | 2.260            | 2478.900 | 2481.160 | ---        | PASS    |

## Test Graphs

2.4\_Ant1\_2403



2.4\_Ant1\_2441



2.4\_Ant1\_2480



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## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]      | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|--------------|----------|------------|---------|
| 2.4      | Ant1    | 2403    | 2.2522    | 2401.83<br>9 | 2404.106 | ---        | PASS    |
|          |         | 2441    | 2.2279    | 2439.87<br>7 | 2442.105 | ---        | PASS    |
|          |         | 2480    | 2.1745    | 2478.91<br>9 | 2481.093 | ---        | PASS    |

## Test Graphs

2.4\_Ant1\_2403



2.4\_Ant1\_2441



2.4\_Ant1\_2480

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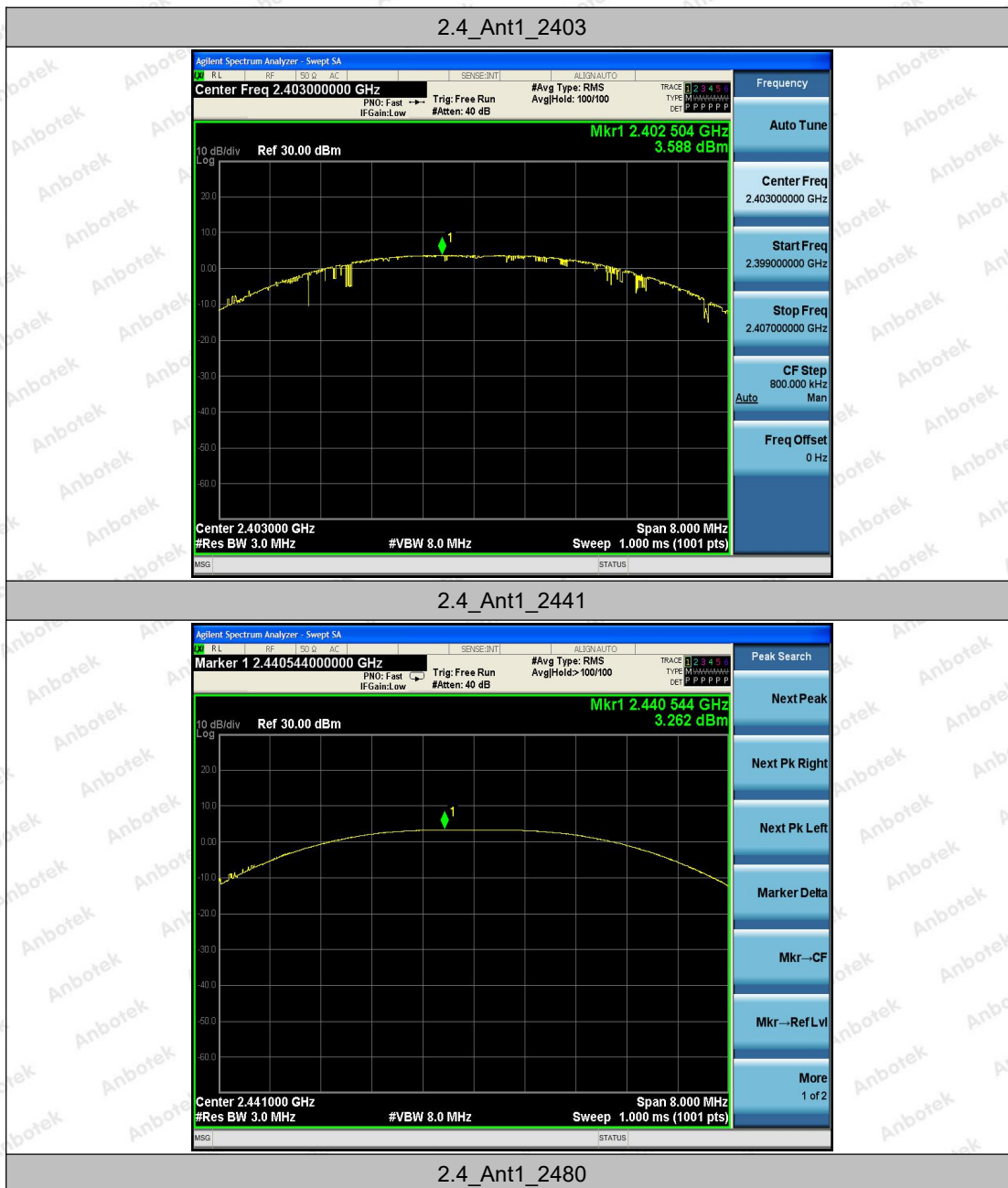
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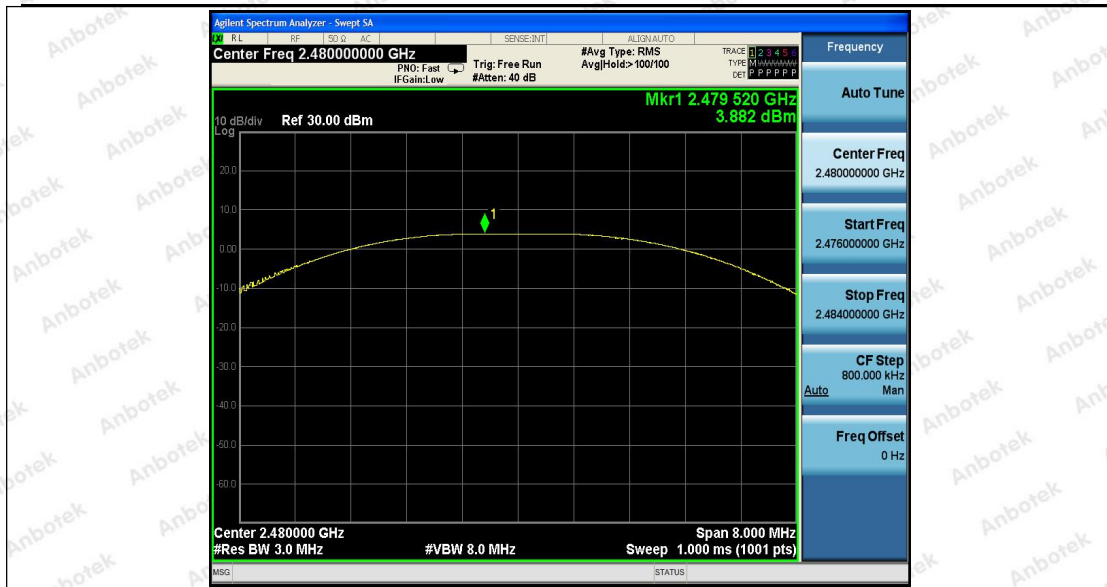
## Appendix C: Maximum conducted output power

### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| 2.4      | Ant1    | 2403    | 3.59        | ≤30        | PASS    |
|          |         | 2441    | 3.26        | ≤30        | PASS    |
|          |         | 2480    | 3.88        | ≤30        | PASS    |

## Test Graphs





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## Appendix D: Carrier frequency separation

### Test Result

| TestMode | Antenna | Channel | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|---------|-------------|--------------|---------|
| 2.4      | Ant1    | Hop     | 2           | $\geq 1.510$ | PASS    |

## Test Graphs



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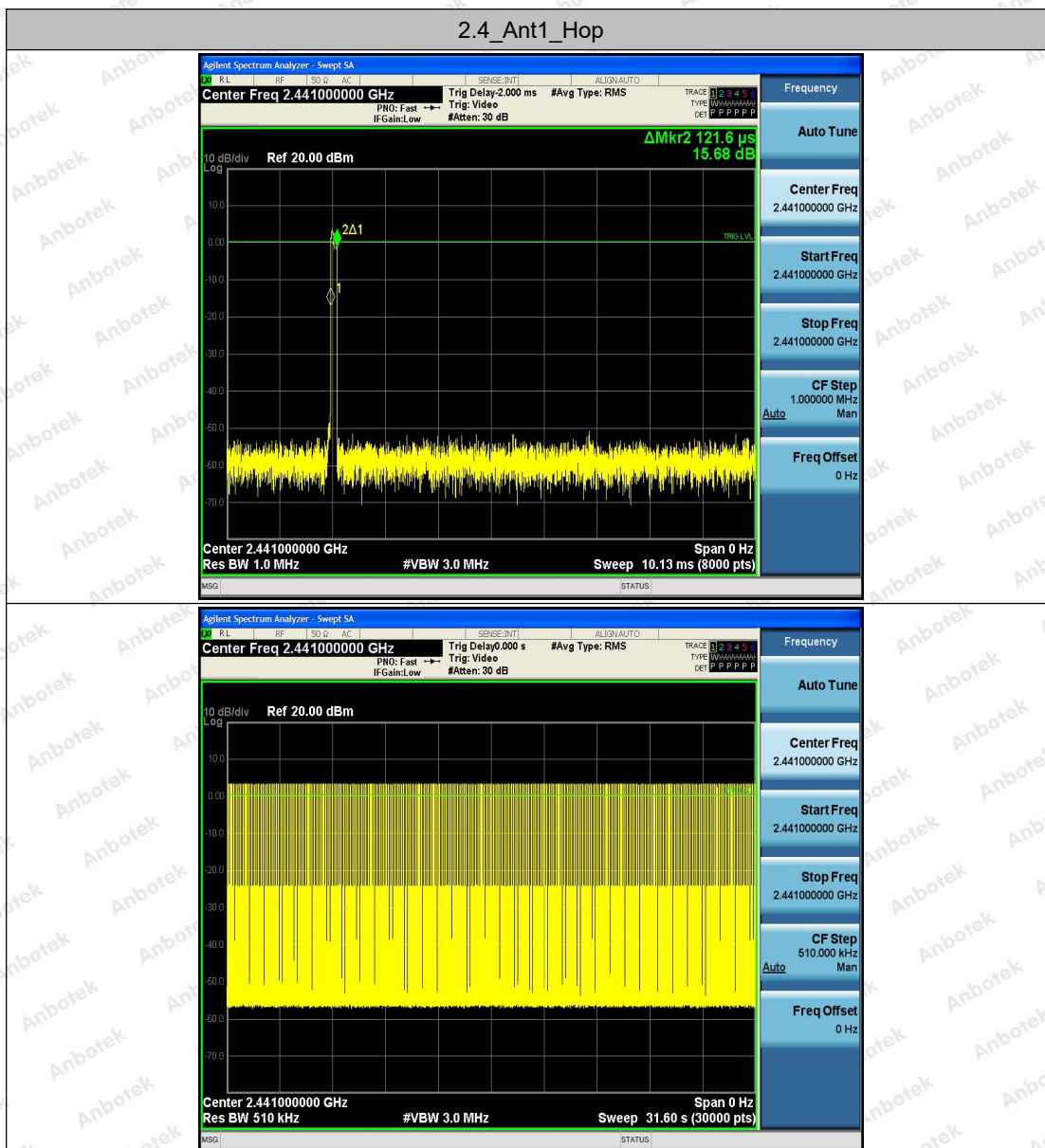
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## Appendix E: Time of occupancy

### Test Result

| TestMode | Antenna | Channel | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|---------|--------------------|--------------------|-----------|----------|---------|
| 2.4      | Ant1    | Hop     | 0.12               | 498                | 0.061     | ≤0.4     | PASS    |

## Test Graphs



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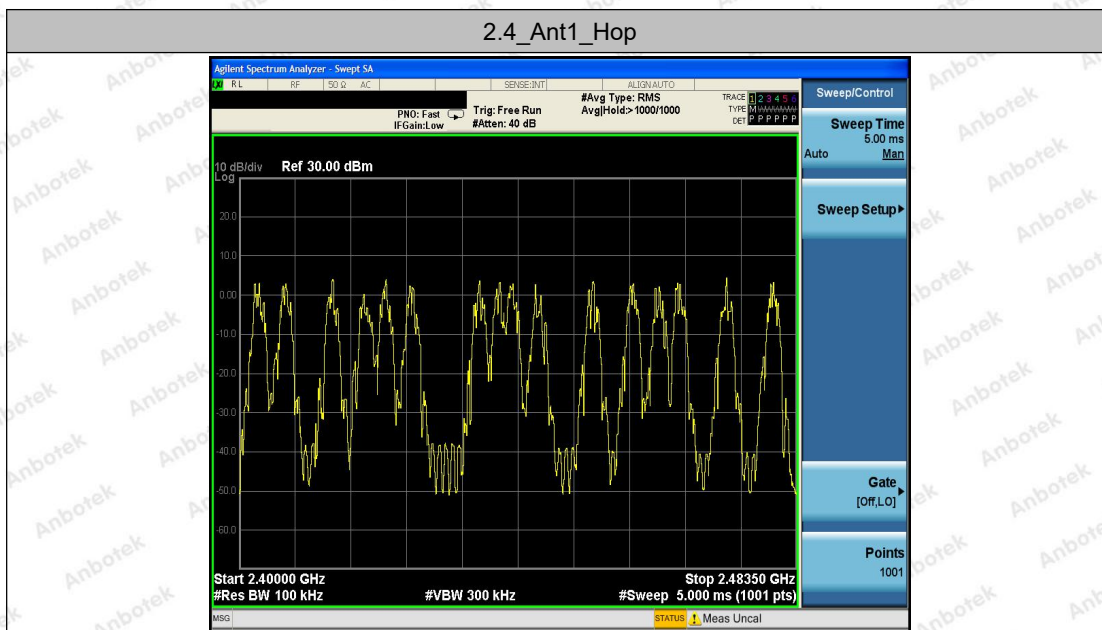
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## Appendix F: Number of hopping channels

### Test Result

| TestMode | Antenna | Channel | Result[Num] | Limit[Num] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| 2.4      | Ant1    | Hop     | 16          | ≥15        | PASS    |

## Test Graphs



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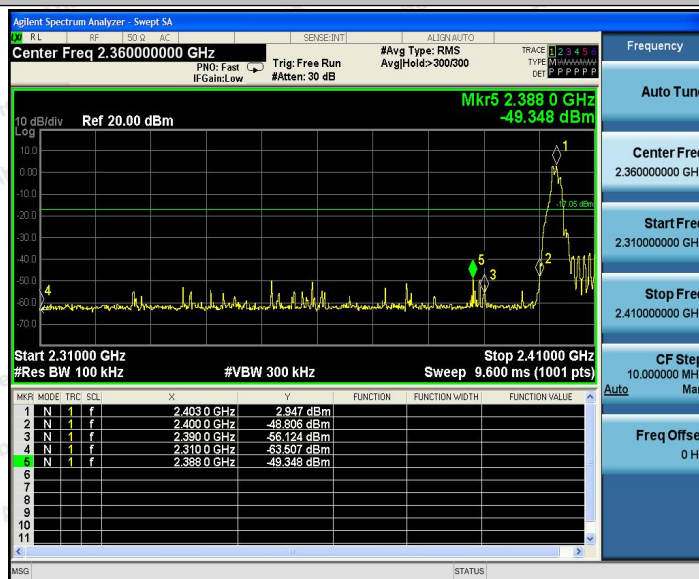
## Appendix G: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Channel | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------|---------|-------------------|-----------------|----------------|---------|
| 2.4      | Ant1    | Low    | 2403    | 2.95              | -49.35          | ≤-17.05        | PASS    |
|          |         | High   | 2480    | 3.78              | -51.61          | ≤-16.22        | PASS    |
|          |         | Low    | Hop     | 3.62              | -50.85          | ≤-16.38        | PASS    |
|          |         | High   | Hop     | 3.41              | -60.27          | ≤-16.59        | PASS    |

## Test Graphs

2.4\_Ant1\_Low\_2403



2.4\_Ant1\_High\_2480



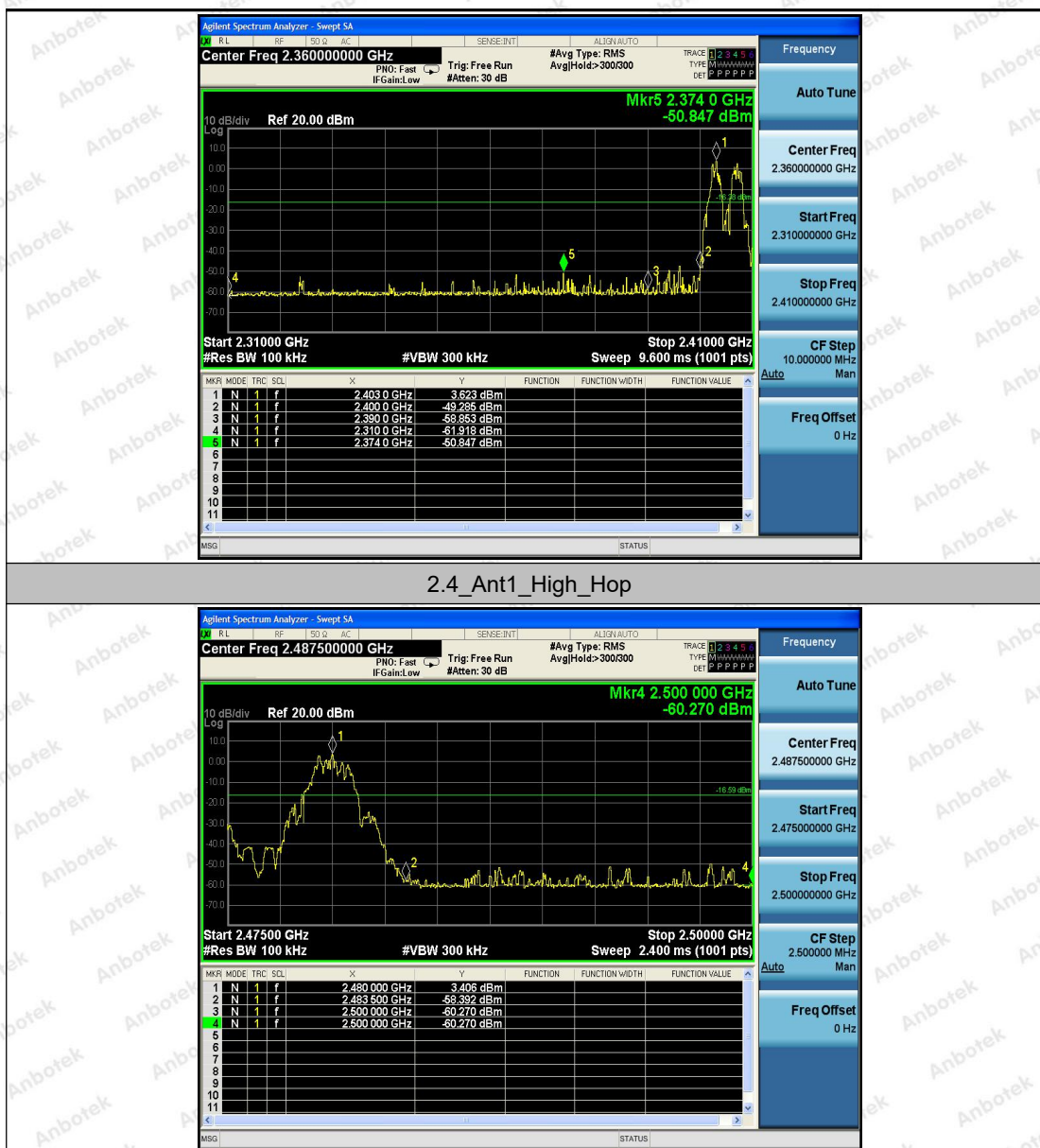
2.4\_Ant1\_Low\_Hop

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## Appendix H: Conducted Spurious Emission

### Test Result

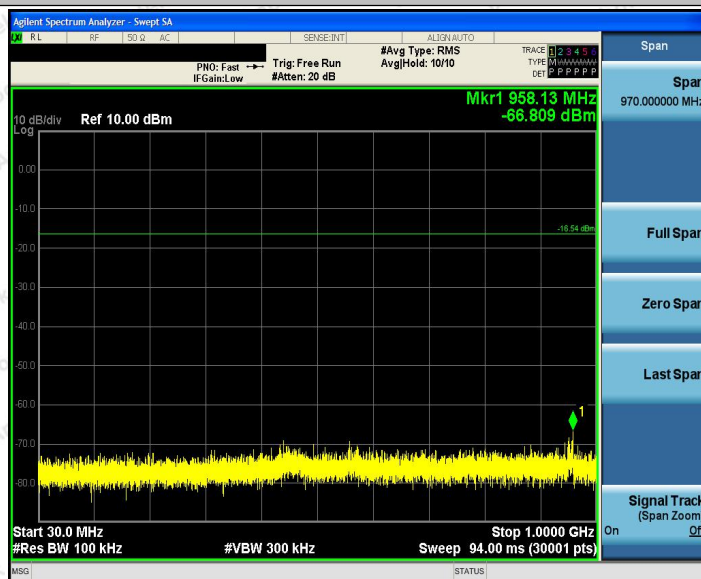
| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-----------------|----------------|---------|
| 2.4      | Ant1    | 2403    | Reference          | 3.46              | 3.46            | ---            | PASS    |
|          |         |         | 30~1000            | 3.46              | -66.81          | ≤-16.54        | PASS    |
|          |         |         | 1000~26500         | 3.46              | -55.11          | ≤-16.54        | PASS    |
|          |         | 2441    | Reference          | 2.94              | 2.94            | ---            | PASS    |
|          |         |         | 30~1000            | 2.94              | -66             | ≤-17.06        | PASS    |
|          |         |         | 1000~26500         | 2.94              | -55.42          | ≤-17.06        | PASS    |
|          |         | 2480    | Reference          | 3.72              | 3.72            | ---            | PASS    |
|          |         |         | 30~1000            | 3.72              | -68.89          | ≤-16.28        | PASS    |
|          |         |         | 1000~26500         | 3.72              | -55.76          | ≤-16.28        | PASS    |

## Test Graphs

2.4\_Ant1\_2403\_0~Reference



2.4\_Ant1\_2403\_30~1000



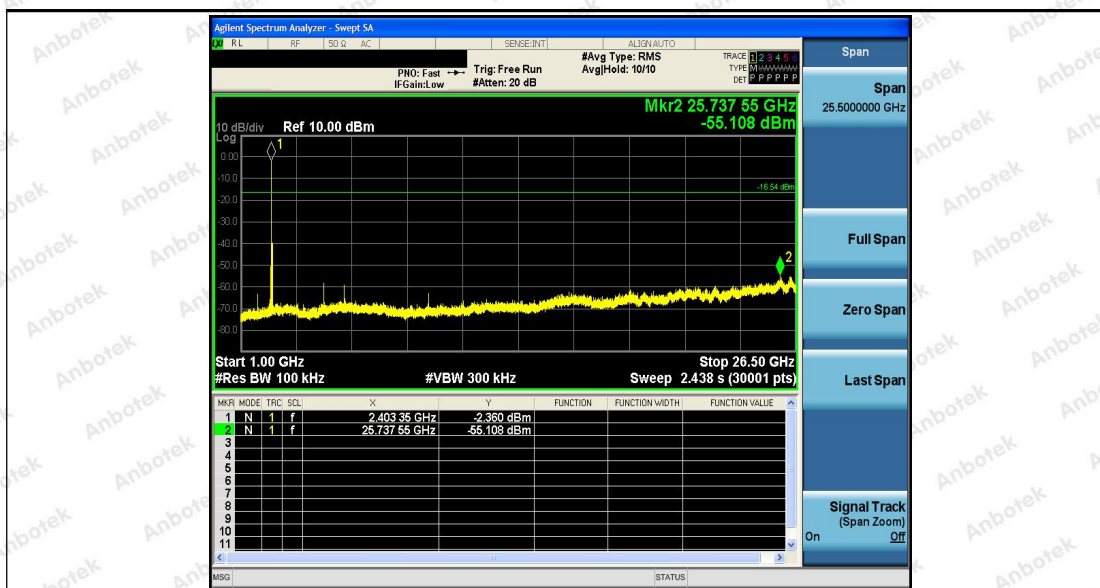
2.4\_Ant1\_2403\_1000~26500

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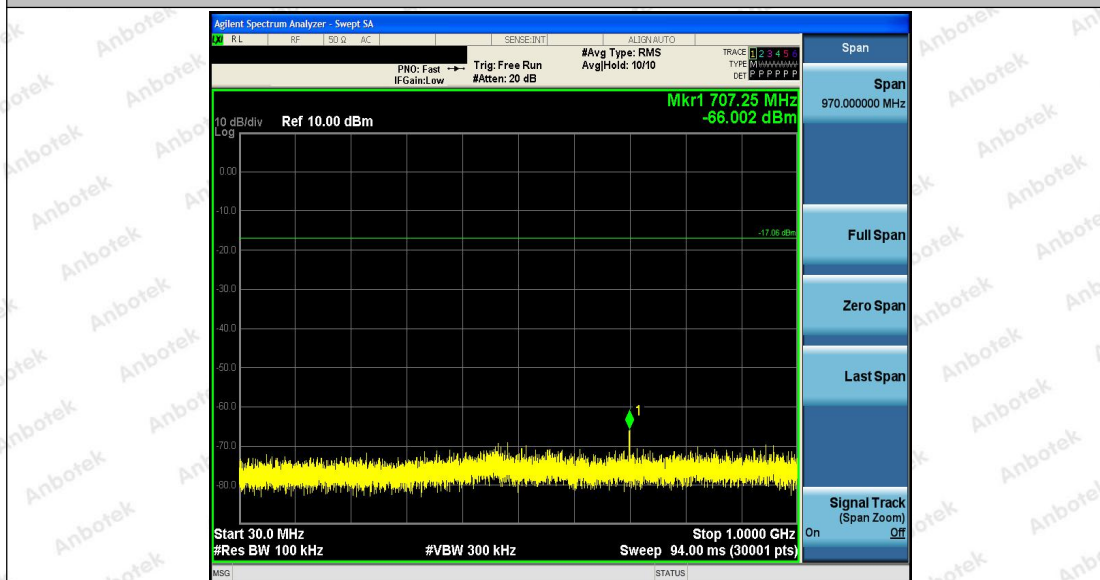
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2.4\_Ant1\_2441\_0~Reference



2.4\_Ant1\_2441\_30~1000



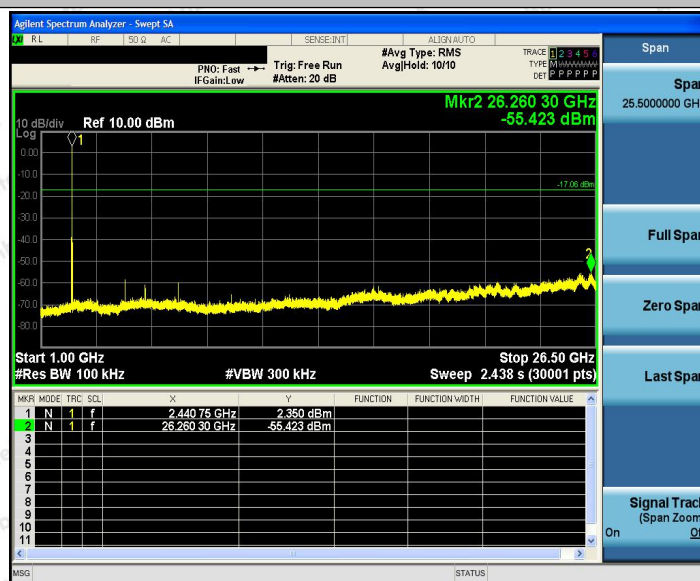
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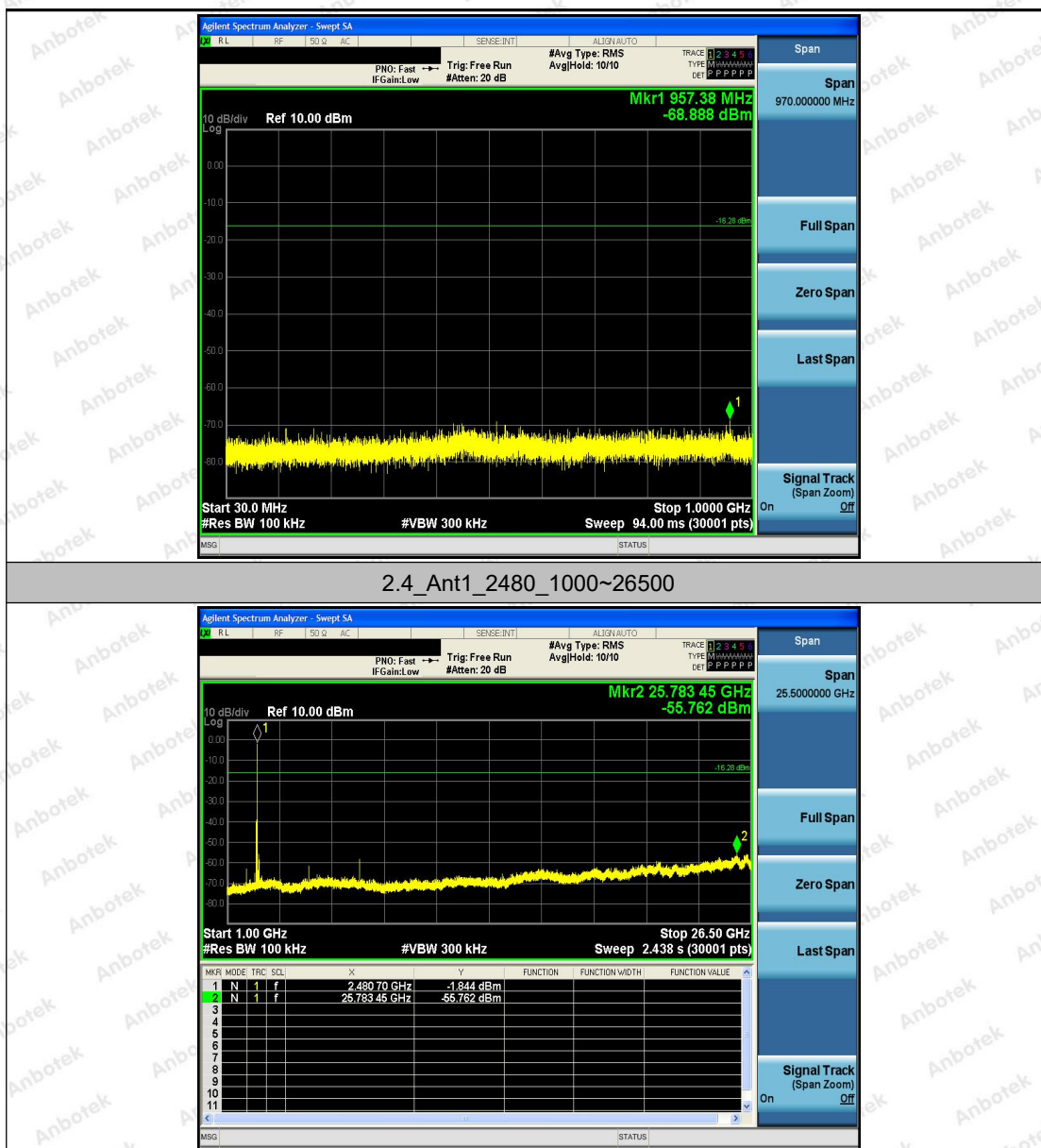
2.4\_Ant1\_2441\_1000~26500



2.4\_Ant1\_2480\_0~Reference



2.4\_Ant1\_2480\_30~1000



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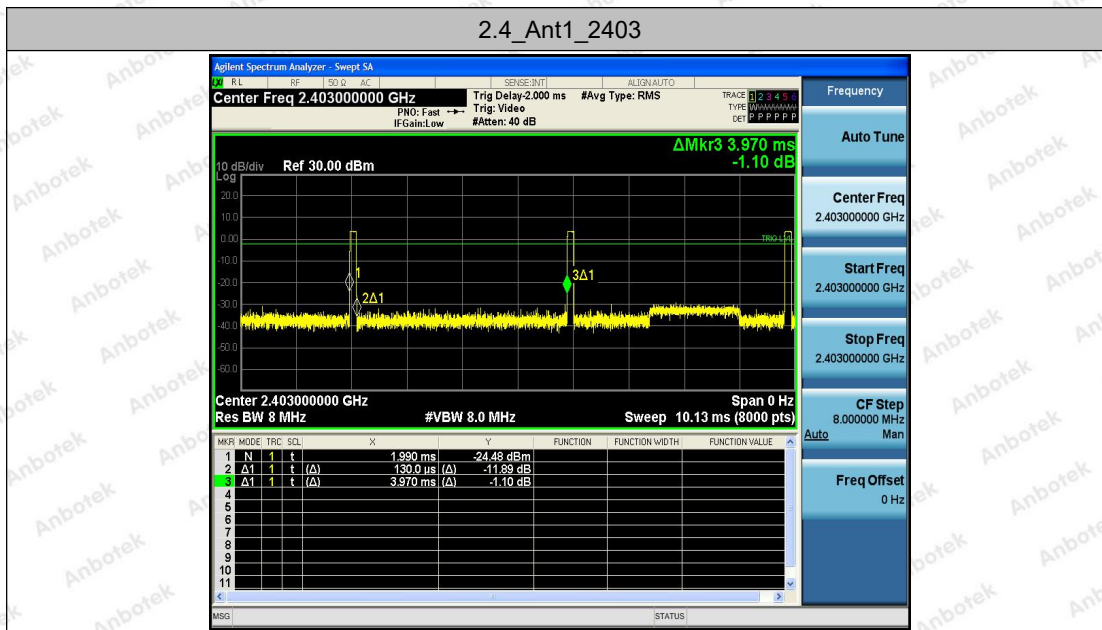
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## Appendix I: Duty Cycle

### Test Result

| TestMode | Antenna | Channel | ON Time<br>[ms] | Period<br>[ms] | X          | DC<br>[%] | xFactor | Limit | Verdict |
|----------|---------|---------|-----------------|----------------|------------|-----------|---------|-------|---------|
| 2.4      | Ant1    | 2403    | 0.13            | 3.97           | 0.032<br>7 | 3.27      | 14.85   | ---   | PASS    |

## Test Graphs



---End---