

## Appendix Test Data

|                  |                 |                    |            |
|------------------|-----------------|--------------------|------------|
| Report No.:      | 18220WC30155001 | Test Sample No.:   | 1-2-2      |
| Start Test Date: | 2023.07.27      | Finish Test Date:  | 2023.08.01 |
| Test Engineer:   | Hayman Chen     | Auditor:           | Rock Luo   |
| Temperature:     | 25.4℃           | Relative Humidity: | 49%        |
| Pressure:        | 1012 hPa        |                    |            |

## Appendix A: 20dB Emission Bandwidth

## Test Result

| TestMode | Antenna | Frequency[MHz] | 20db<br>EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|------------------|----------|----------|------------|---------|
| 2.4G     | Ant1    | 2402           | 1.878            | 2401.082 | 2402.960 | ---        | ---     |
|          |         | 2440           | 1.890            | 2439.076 | 2440.966 | ---        | ---     |
|          |         | 2480           | 1.902            | 2479.076 | 2480.978 | ---        | ---     |



## Test Graphs

2.4G\_Ant1\_2402



2.4G\_Ant1\_2440



2.4G\_Ant1\_2480

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## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| 2.4G     | Ant1    | 2402           | 1.8334    | 2401.0971 | 2402.9305 | ---        | ---     |
|          |         | 2440           | 1.8631    | 2439.0830 | 2440.9461 | ---        | ---     |
|          |         | 2480           | 1.9023    | 2479.0564 | 2480.9587 | ---        | ---     |



## Test Graphs

2.4G\_Ant1\_2402



2.4G\_Ant1\_2440



2.4G\_Ant1\_2480

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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    | 2402           | -7.34                     | ≤30                  | PASS    |
|           |         | 2440           | -7.24                     | ≤30                  | PASS    |
|           |         | 2480           | -7.18                     | ≤30                  | PASS    |



## Test Graphs

2.4G\_Ant1\_2402



2.4G\_Ant1\_2440



2.4G\_Ant1\_2480

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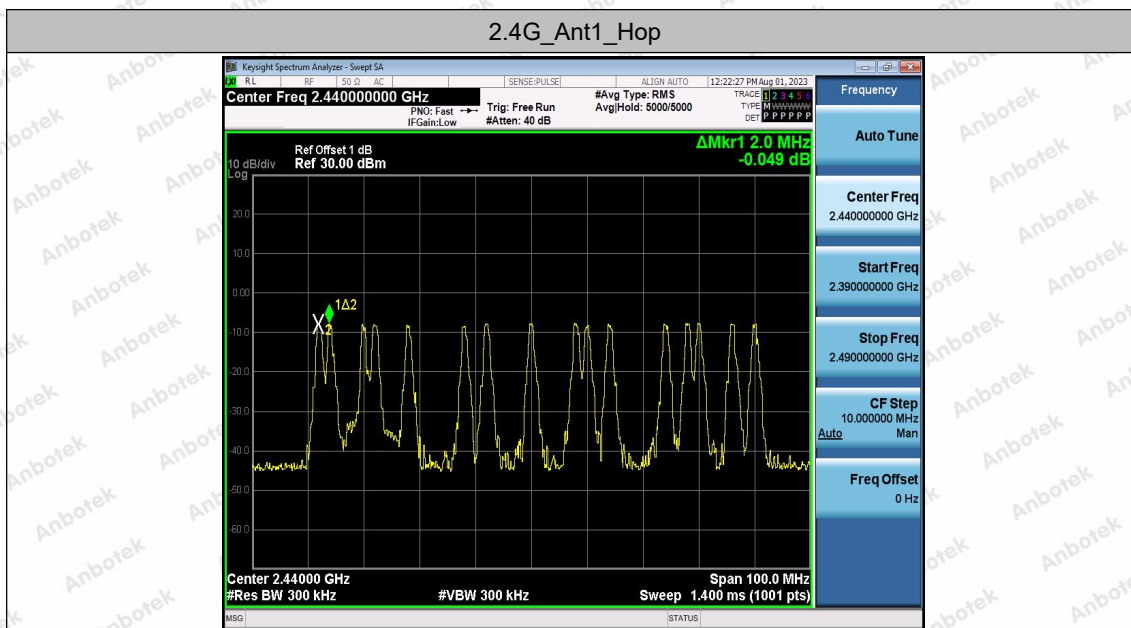
## Appendix D: Carrier frequency separation

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| 2.4G     | Ant1    | Hop            | 2.000       | ≥1.268     | PASS    |



## Test Graphs



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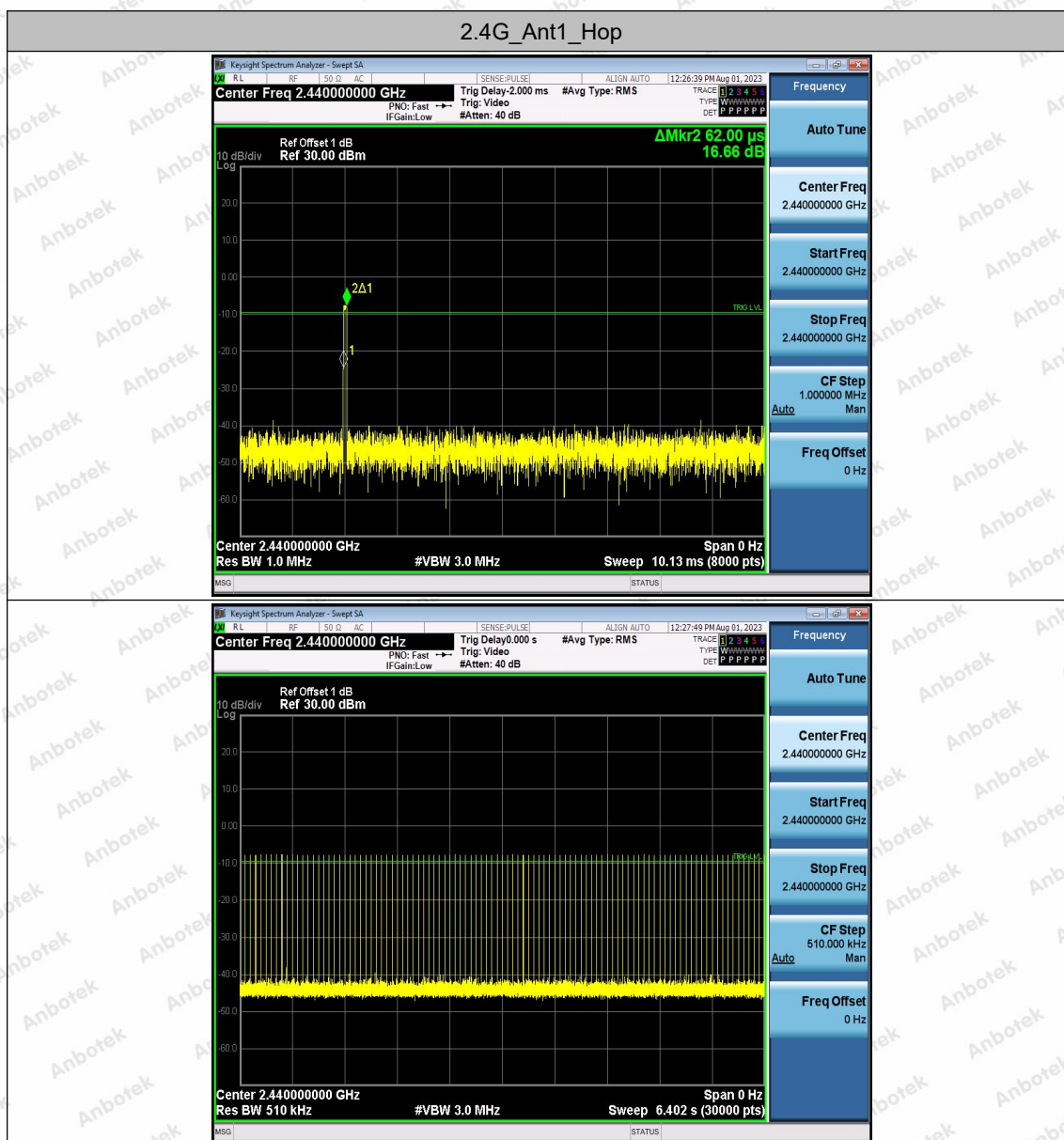
## Appendix E: Time of occupancy

### Test Result

| TestMode | Antenna | Frequency[MHz] | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|----------------|--------------------|--------------------|-----------|----------|---------|
| 2.4G     | Ant1    | Hop            | 0.062              | 100                | 0.006     | ≤0.4     | PASS    |



## Test Graphs



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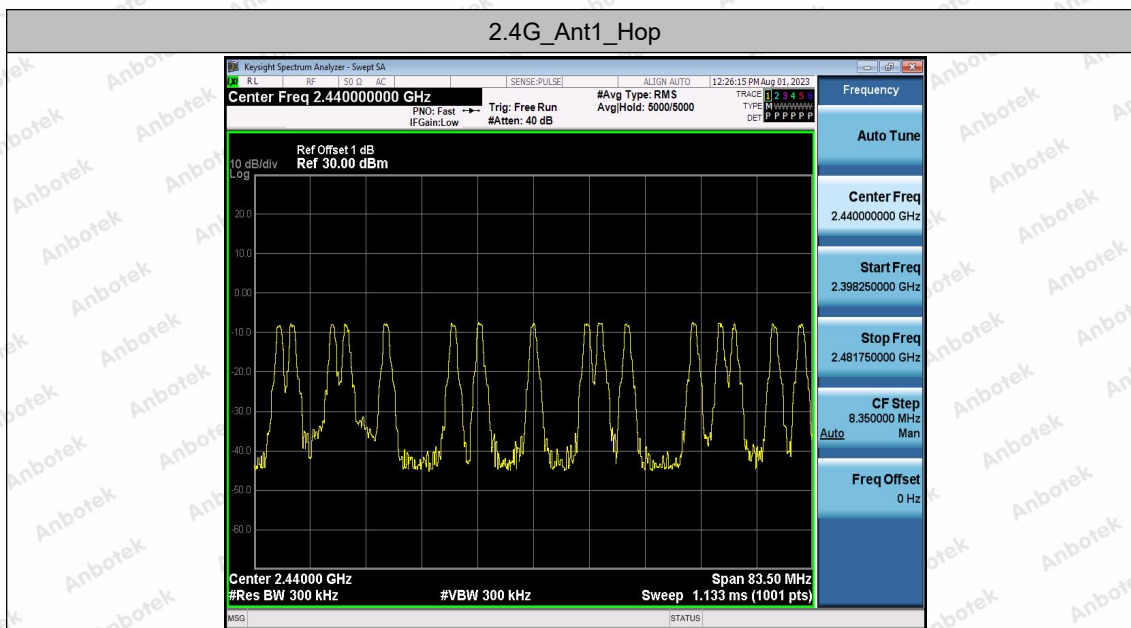
## Appendix F: Number of hopping channels

### Test Result

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



## Test Graphs



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## Appendix G: Band edge measurements

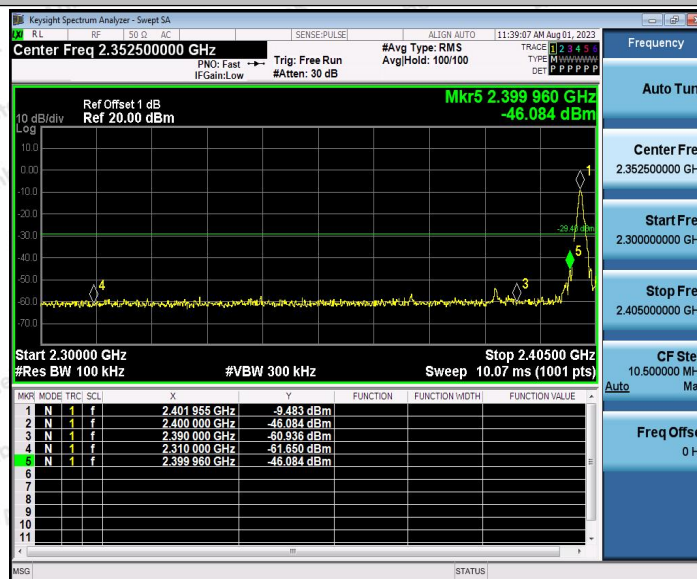
### Test Result

| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------|----------------|-------------------|-----------------|----------------|---------|
| 2.4G     | Ant1    | Low    | 2402           | -9.48             | -46.08          | ≤-29.48        | PASS    |
|          |         | High   | 2480           | -9.38             | -51.35          | ≤-29.38        | PASS    |
|          |         | Low    | Hop_2402       | -9.23             | -52.67          | ≤-29.23        | PASS    |
|          |         | High   | Hop_2480       | -8.89             | -55.95          | ≤-28.89        | PASS    |

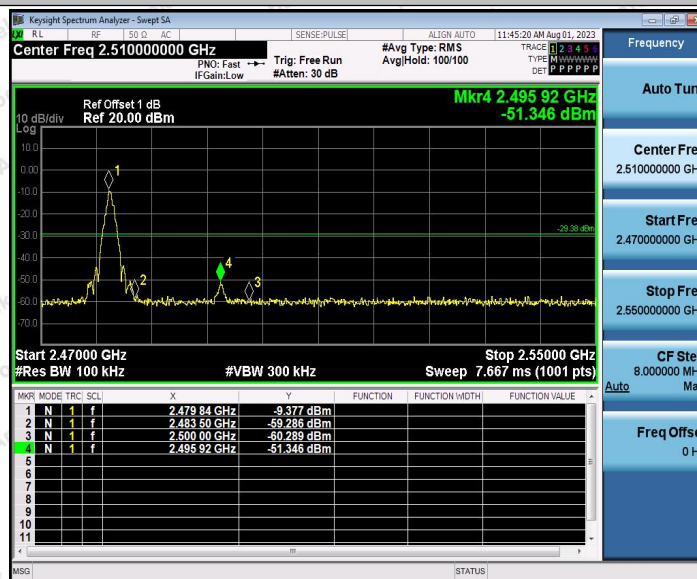


## Test Graphs

2.4G\_Ant1\_Low\_2402



2.4G\_Ant1\_High\_2480



2.4G\_Ant1\_Low\_Hop\_2402

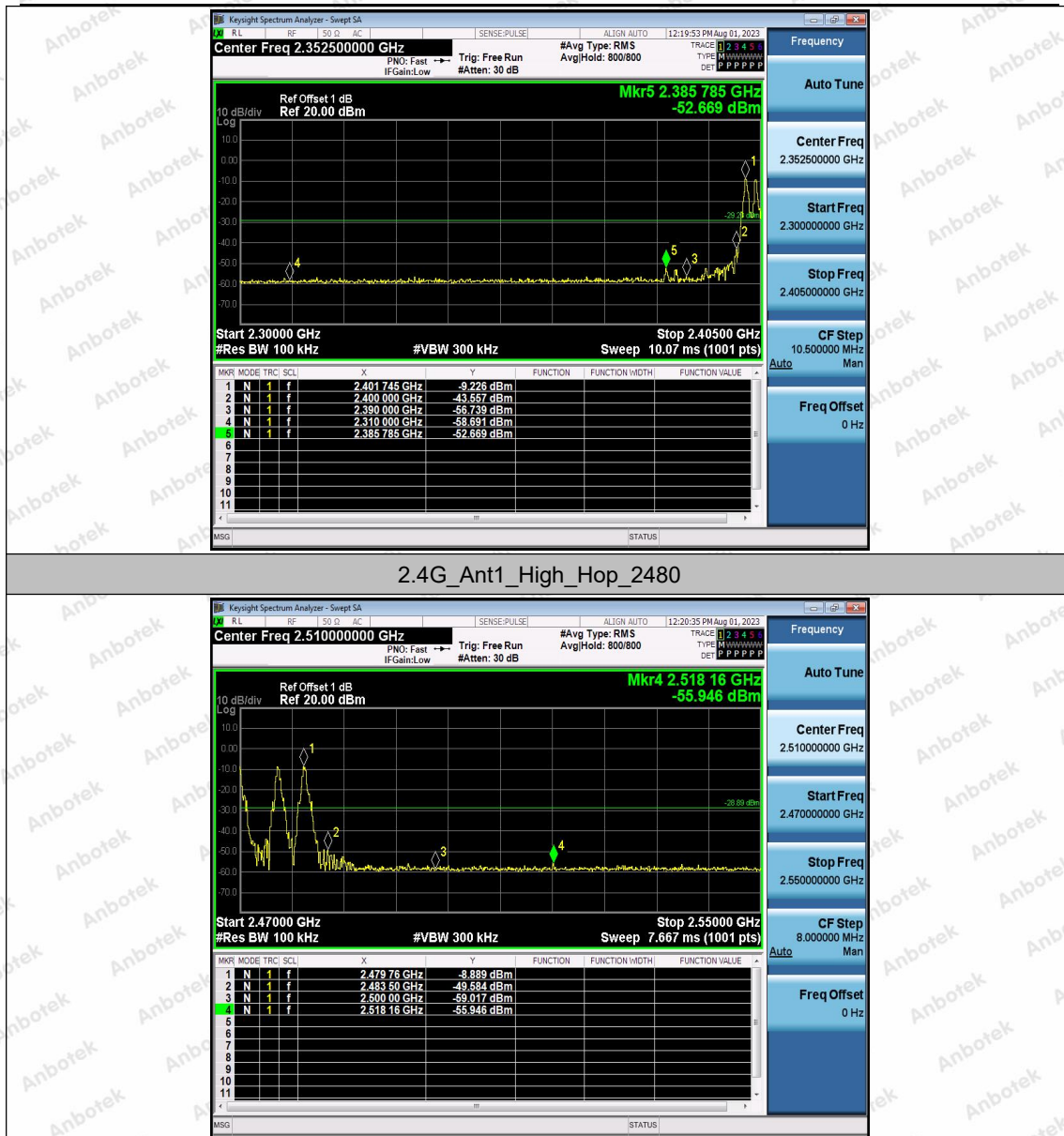
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## Appendix H: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 2.4G     | Ant1    | 2402           | Reference       | -9.33          | -9.33        | ---         | PASS    |
|          |         |                | 30~1000         | -9.33          | -67.26       | ≤-29.33     | PASS    |
|          |         |                | 1000~26500      | -9.33          | -49.34       | ≤-29.33     | PASS    |
|          |         | 2440           | Reference       | -9.59          | -9.59        | ---         | PASS    |
|          |         |                | 30~1000         | -9.59          | -66.25       | ≤-29.59     | PASS    |
|          |         |                | 1000~26500      | -9.59          | -51.02       | ≤-29.59     | PASS    |
|          |         | 2480           | Reference       | -9.57          | -9.57        | ---         | PASS    |
|          |         |                | 30~1000         | -9.57          | -67.23       | ≤-29.57     | PASS    |
|          |         |                | 1000~26500      | -9.57          | -49.86       | ≤-29.57     | PASS    |

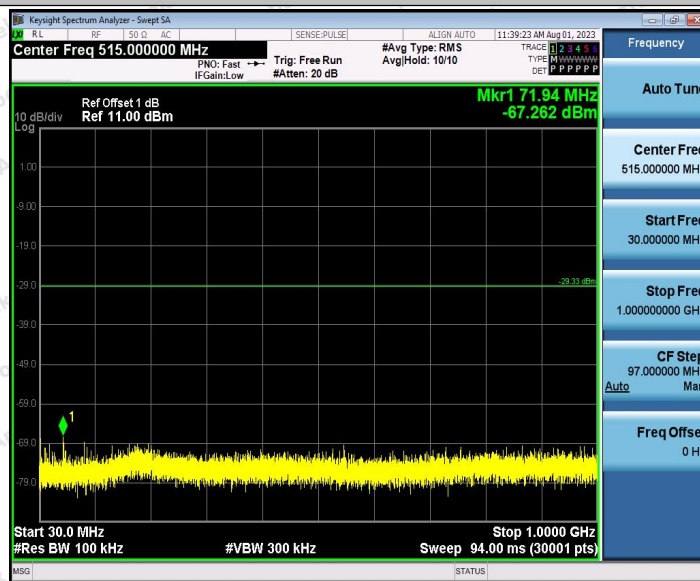


## Test Graphs

2.4G\_Ant1\_2402\_0~Reference



2.4G\_Ant1\_2402\_30~1000



2.4G\_Ant1\_2402\_1000~26500

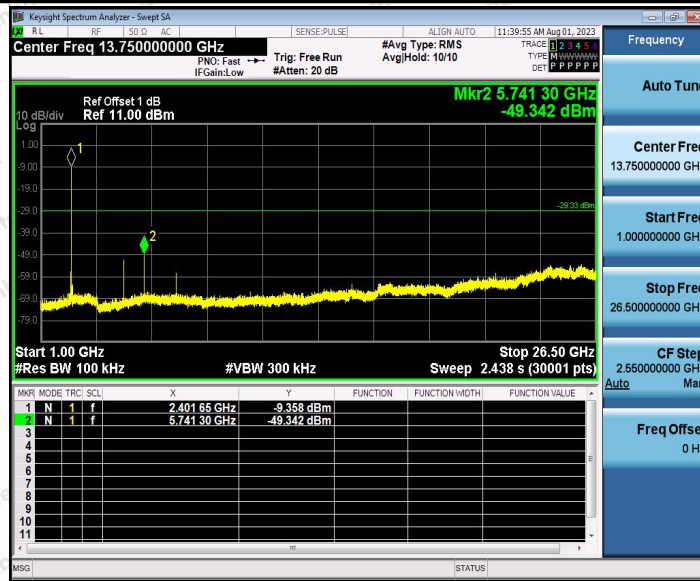
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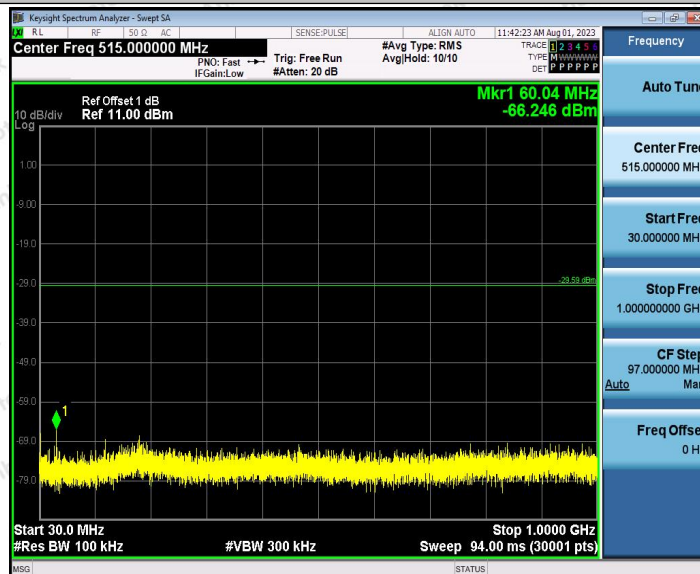




2.4G\_Ant1\_2440\_0~Reference



2.4G\_Ant1\_2440\_30~1000



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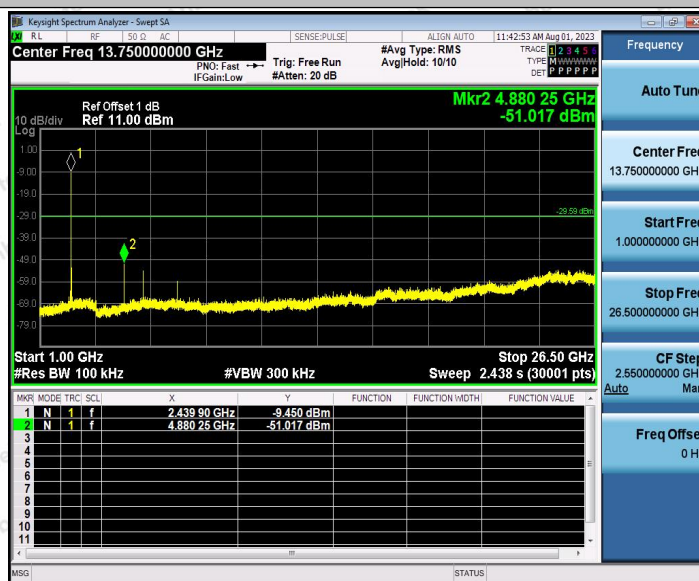
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## 2.4G\_Ant1\_2440\_1000~26500



## 2.4G\_Ant1\_2480\_0~Reference



## 2.4G\_Ant1\_2480\_30~1000

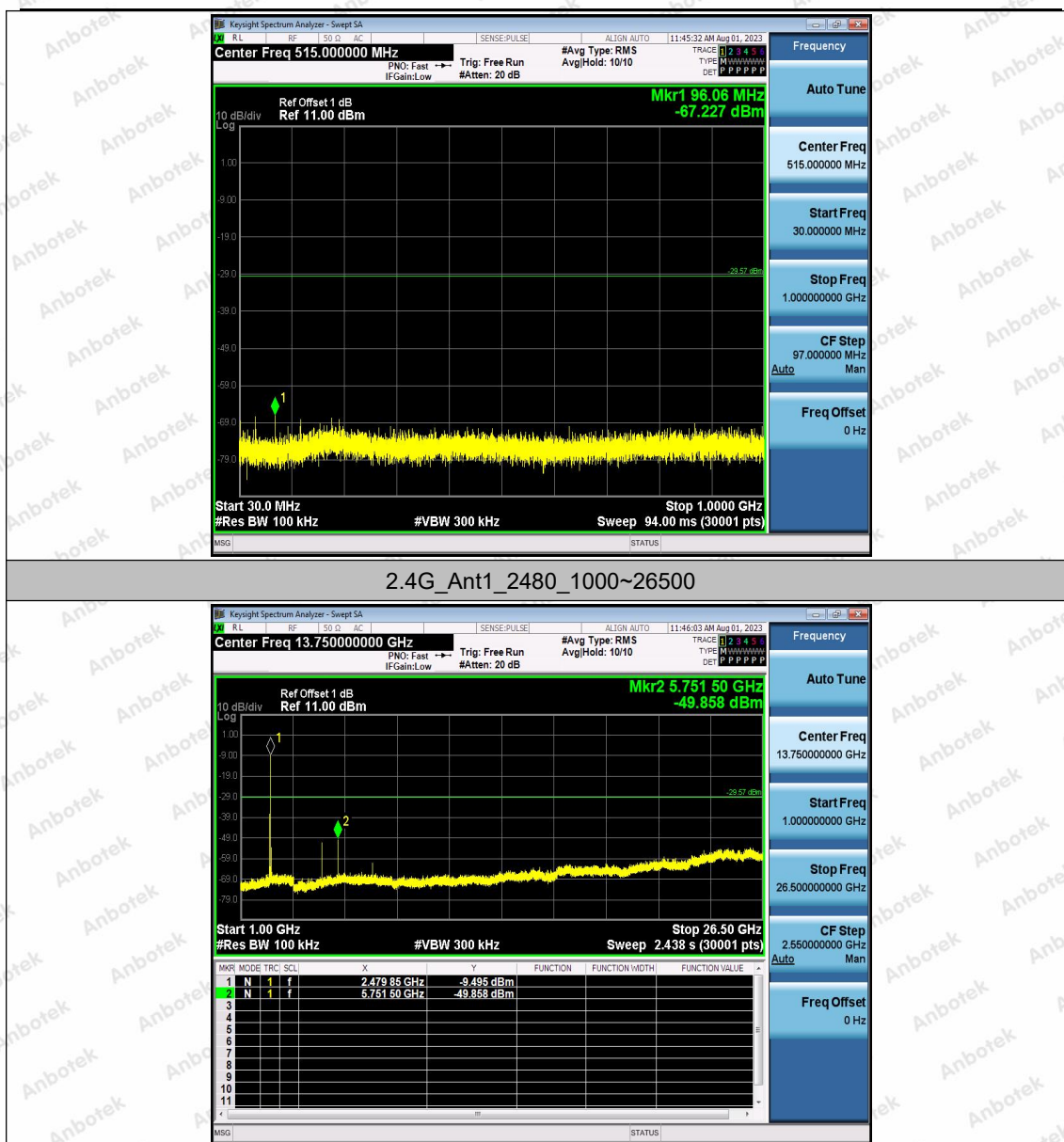
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## Appendix I: Duty Cycle

### Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>Factor[dB] |
|----------|---------|----------------|-----------------|----------------|-------------------|--------------------------|
| 2.4G     | Ant1    | 2402           | 27.00           | 27.00          | 100               | 0.00                     |
|          |         | 2440           | 27.00           | 27.00          | 100               | 0.00                     |
|          |         | 2480           | 27.00           | 27.00          | 100               | 0.00                     |



## Test Graphs

2.4G\_Ant1\_2402



2.4G\_Ant1\_2440



2.4G\_Ant1\_2480

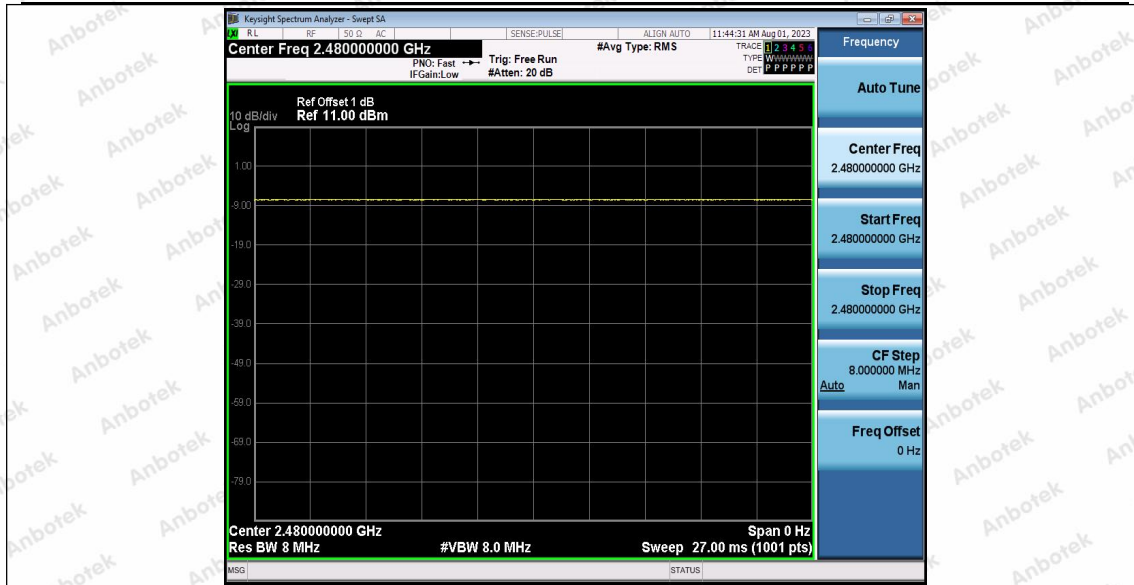
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