

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC30044602 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2023.03.21      | Finish Test Date:  | 2023.04.10        |
| Test Engineer:   | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 23.7°C          | Relative Humidity: | 43%               |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: DTS Bandwidth

## Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 0.688        | 2401.664 | 2402.352 | 0.5        | PASS    |
|          |         | 2440           | 0.688        | 2439.644 | 2440.332 | 0.5        | PASS    |
|          |         | 2480           | 0.692        | 2479.644 | 2480.336 | 0.5        | PASS    |



## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

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## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|----------|---------|----------------|-----------|-----------|-----------|
| BLE_1M   | Ant1    | 2402           | 1.0273    | 2401.4990 | 2402.5263 |
|          |         | 2440           | 1.0314    | 2439.4983 | 2440.5297 |
|          |         | 2480           | 1.0342    | 2479.4964 | 2480.5306 |



## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

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## Appendix C: Maximum conducted output power

### Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M   | Ant1    | 2402           | 7.08                      | ≤30                  | PASS    |
|          |         | 2440           | 6.92                      | ≤30                  | PASS    |
|          |         | 2480           | 5.84                      | ≤30                  | PASS    |

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## Test Graphs Peak

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

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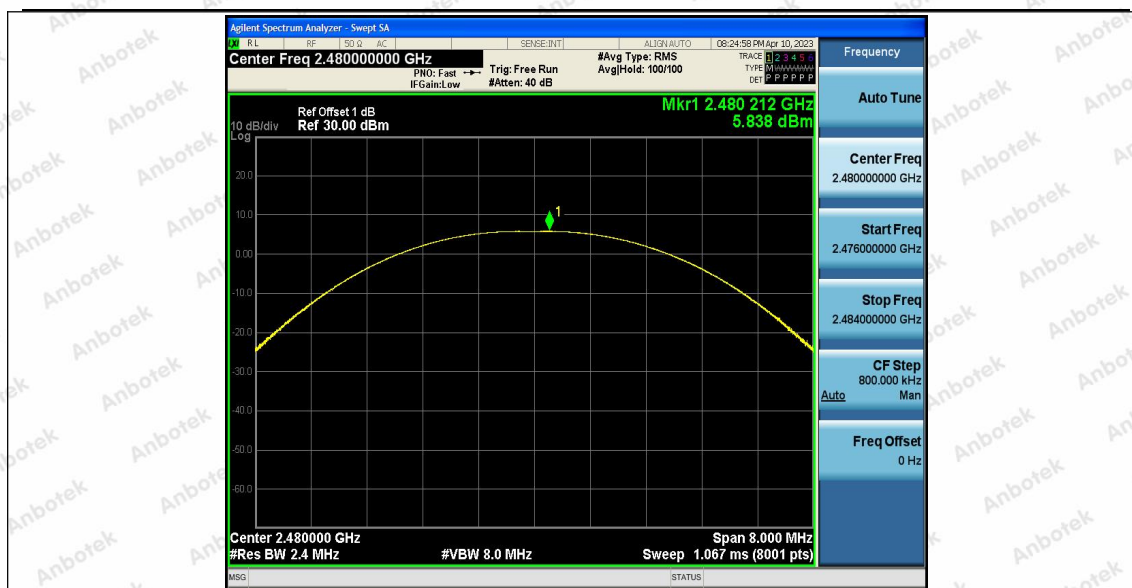
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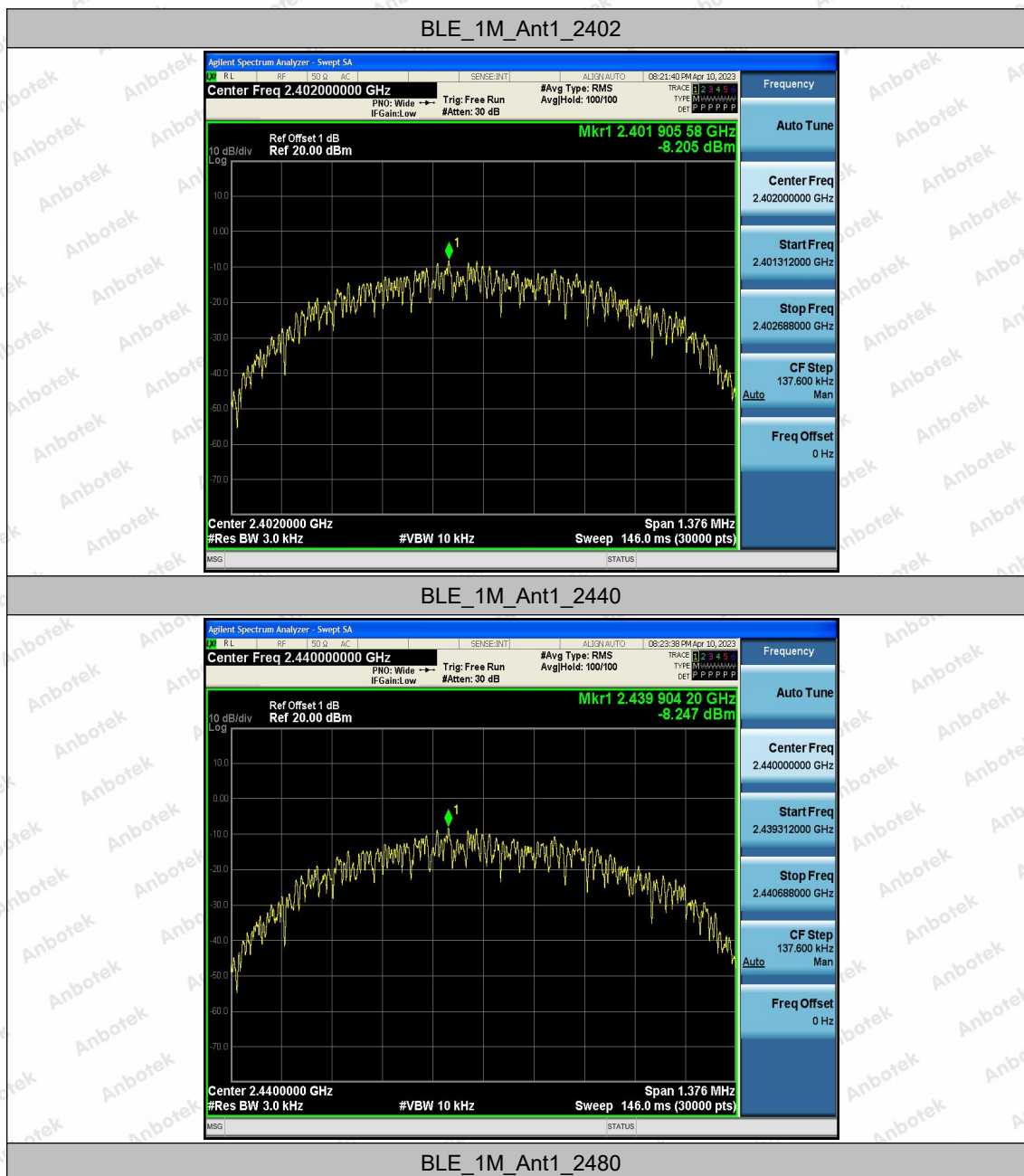
## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -8.21            | ≤8.00           | PASS    |
|          |         | 2440           | -8.25            | ≤8.00           | PASS    |
|          |         | 2480           | -9.26            | ≤8.00           | PASS    |



## Test Graphs



## Shenzhen Anbotek Compliance Laboratory Limited

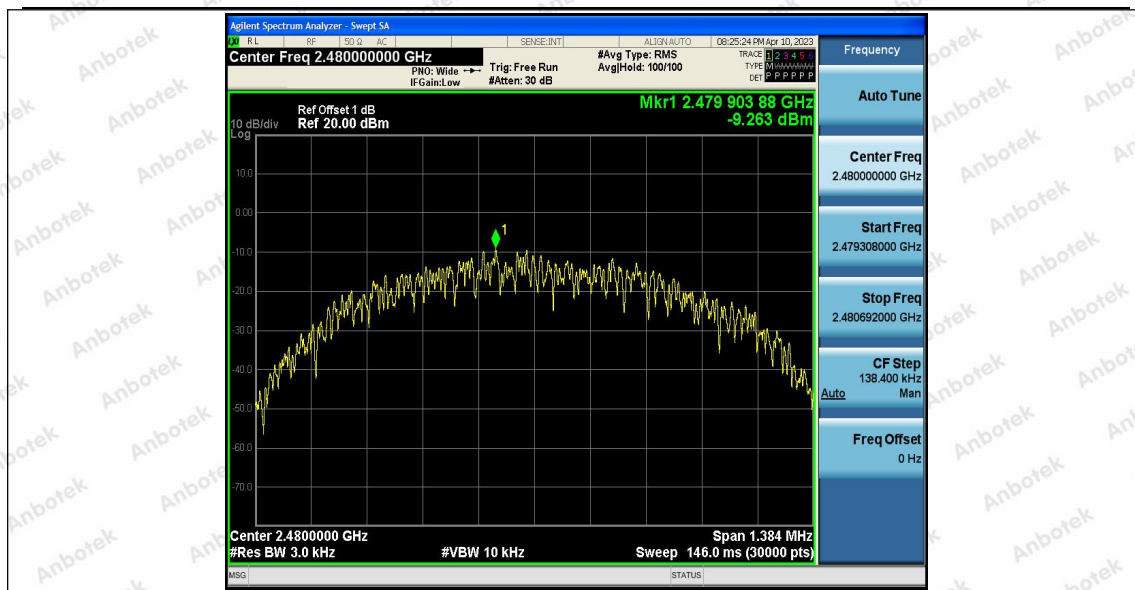
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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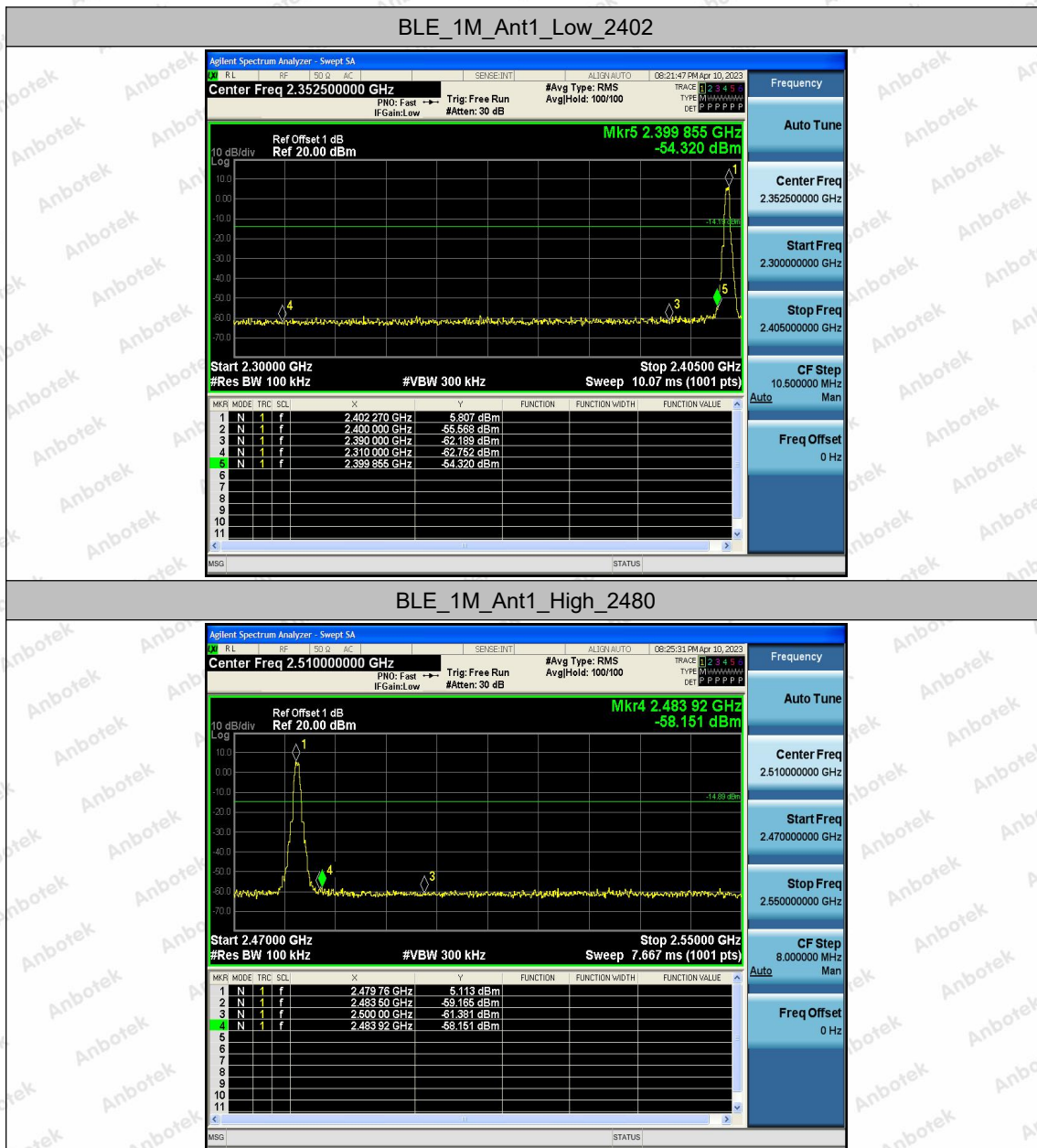
## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | Channel | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low     | 2402           | 5.81          | -54.32      | ≤-14.19    | PASS    |
|          |         | High    | 2480           | 5.11          | -58.15      | ≤-14.89    | PASS    |



## Test Graphs



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## Appendix F: Conducted Spurious Emission

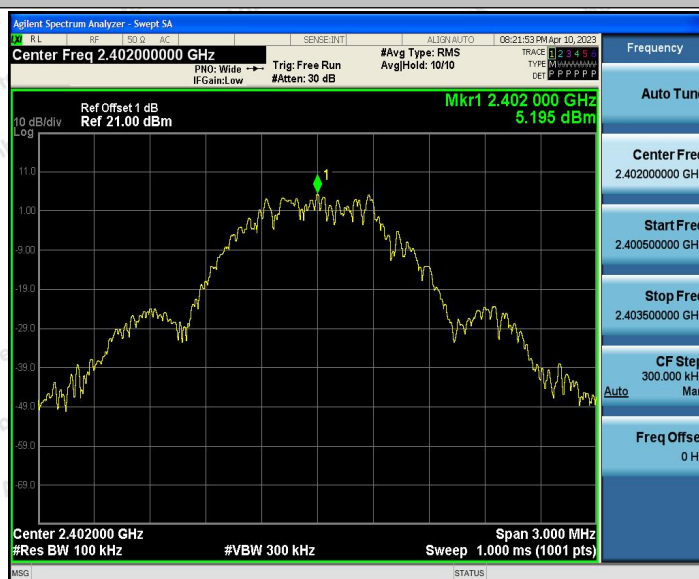
### Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402           | Reference       | 5.20           | 5.20        | ---        | PASS    |
|          |         |                | 30~1000         | 5.20           | -68.33      | ≤-14.8     | PASS    |
|          |         |                | 1000~26500      | 5.20           | -54.57      | ≤-14.8     | PASS    |
|          |         | 2440           | Reference       | 5.68           | 5.68        | ---        | PASS    |
|          |         |                | 30~1000         | 5.68           | -69.37      | ≤-14.32    | PASS    |
|          |         |                | 1000~26500      | 5.68           | -54.36      | ≤-14.32    | PASS    |
|          |         | 2480           | Reference       | 4.45           | 4.45        | ---        | PASS    |
|          |         |                | 30~1000         | 4.45           | -68.35      | ≤-15.55    | PASS    |
|          |         |                | 1000~26500      | 4.45           | -54.62      | ≤-15.55    | PASS    |

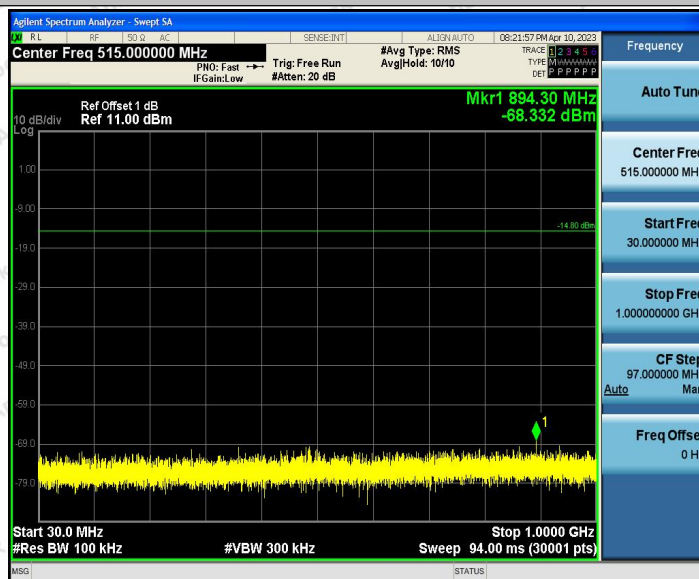


## Test Graphs

BLE\_1M\_Ant1\_2402\_0~Reference



BLE\_1M\_Ant1\_2402\_30~1000



BLE\_1M\_Ant1\_2402\_1000~26500

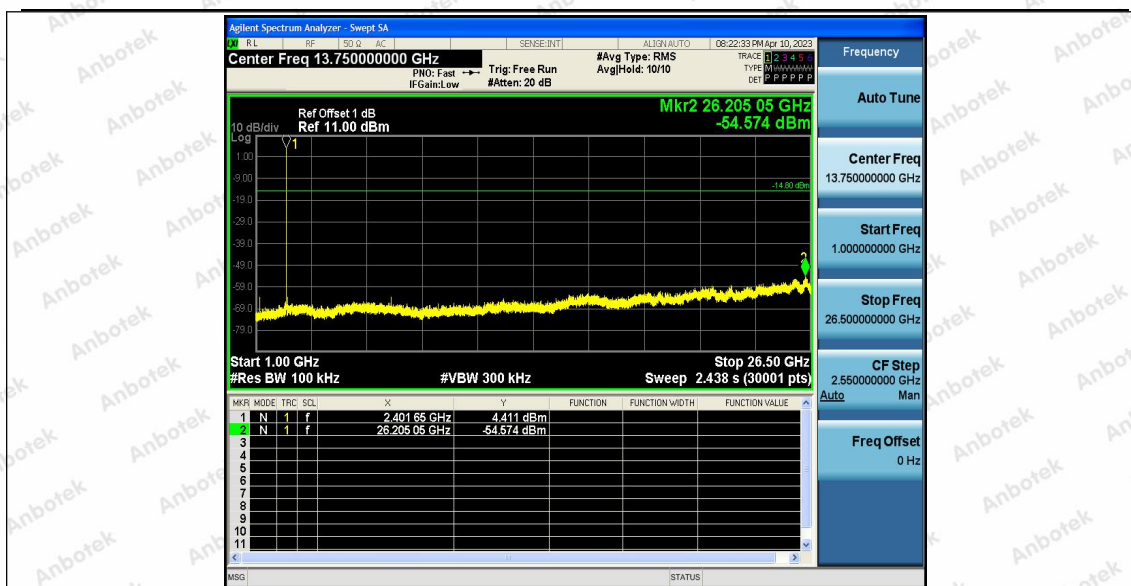
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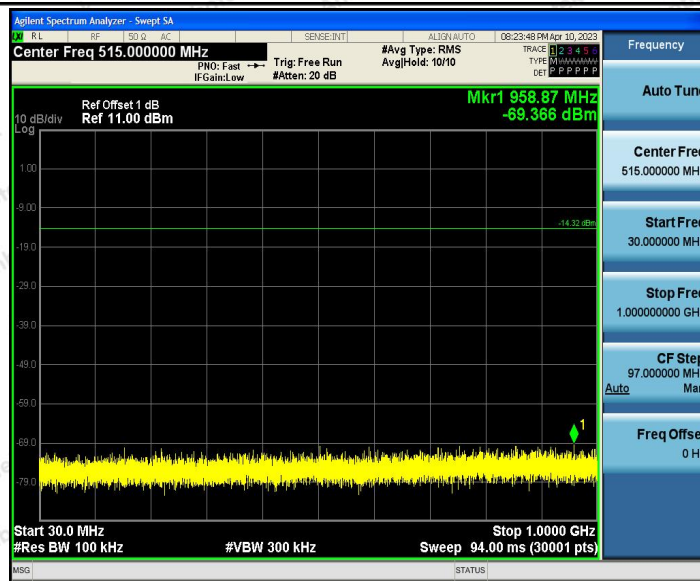
BLE\_1M\_Ant1\_2440\_0~Reference



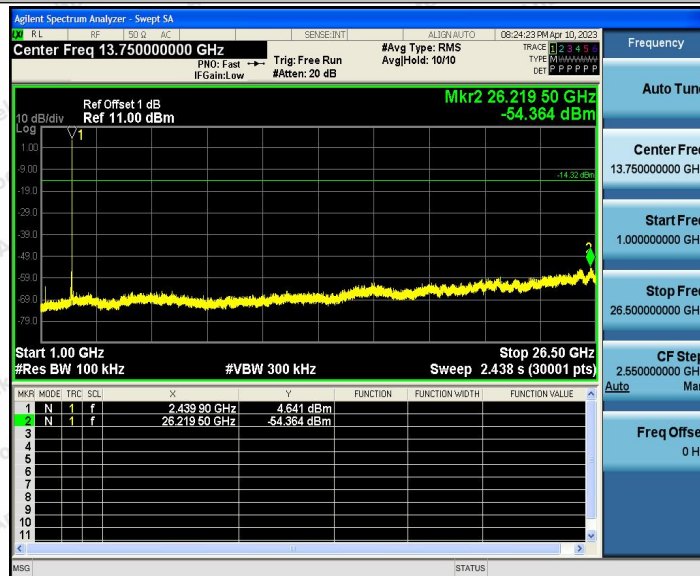
BLE\_1M\_Ant1\_2440\_30~1000







BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference

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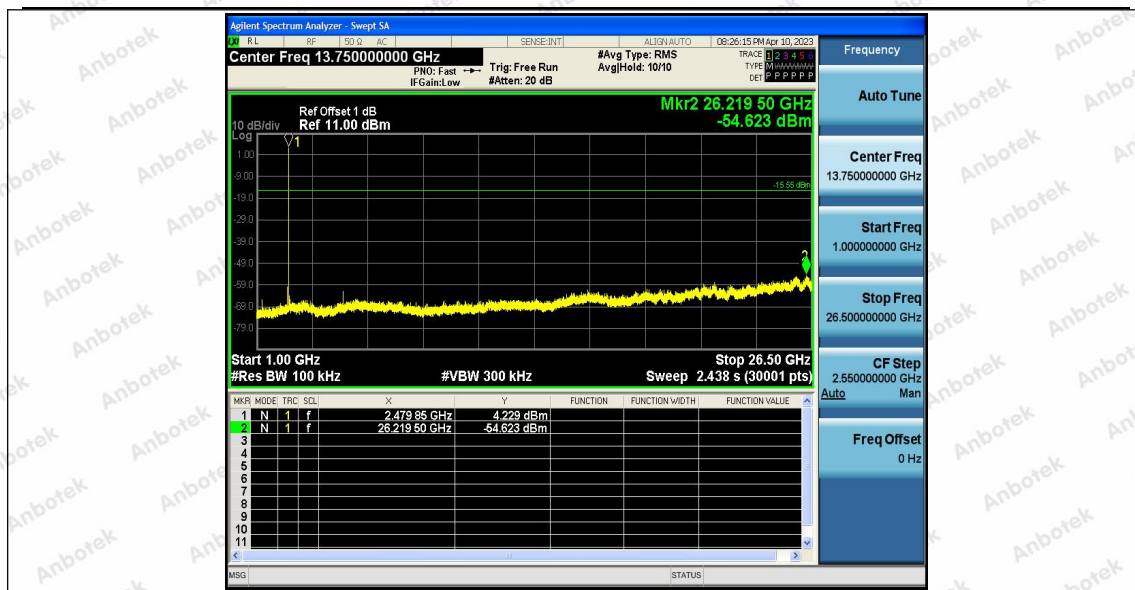
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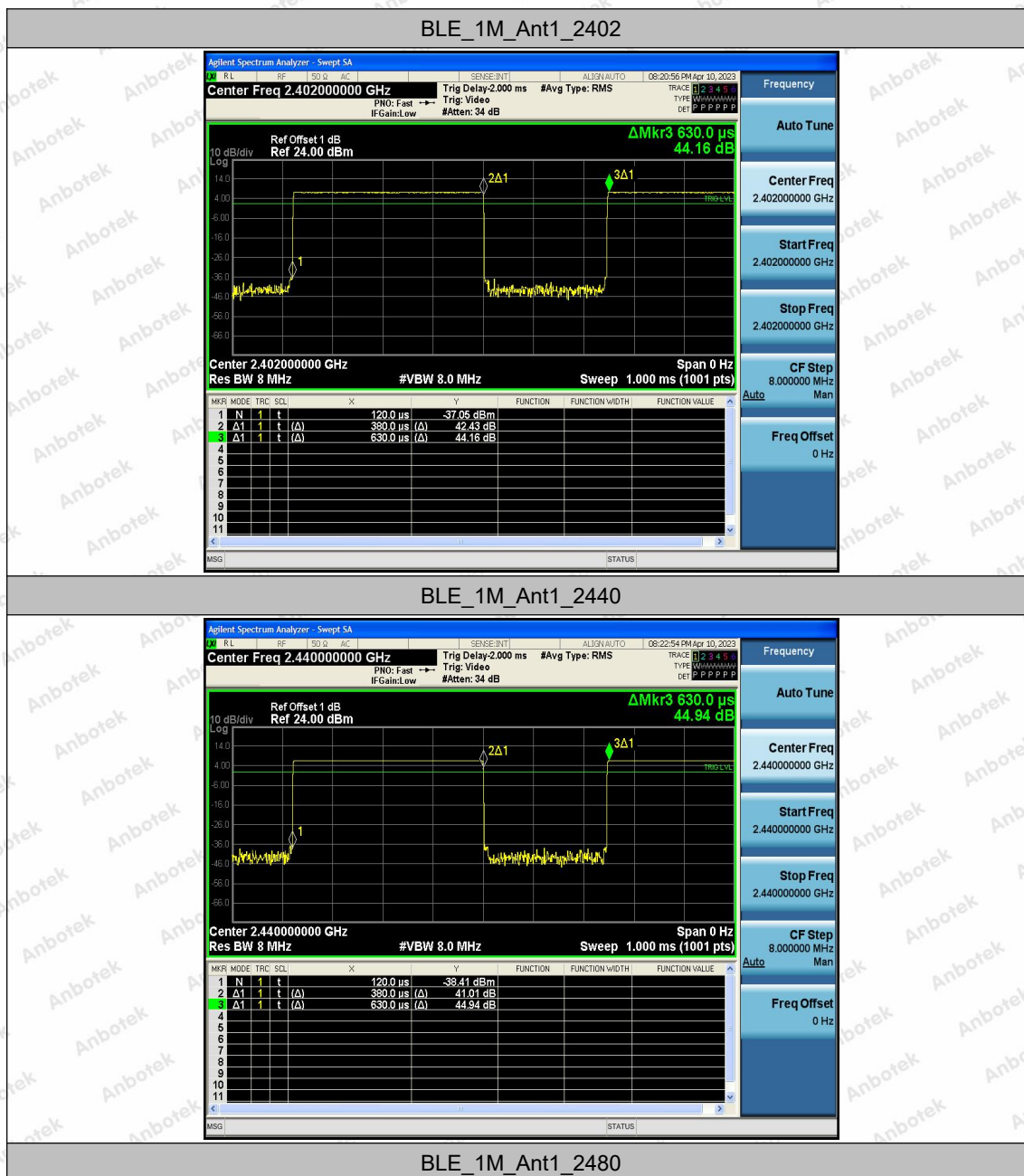
## Appendix G: Duty Cycle

### Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>Factor[dB] |
|----------|---------|----------------|-----------------|----------------|-------------------|--------------------------|
| BLE_1M   | Ant1    | 2402           | 0.38            | 0.63           | 60.32             | 2.20                     |
|          |         | 2440           | 0.38            | 0.63           | 60.32             | 2.20                     |
|          |         | 2480           | 0.38            | 0.63           | 60.32             | 2.20                     |



## Test Graphs



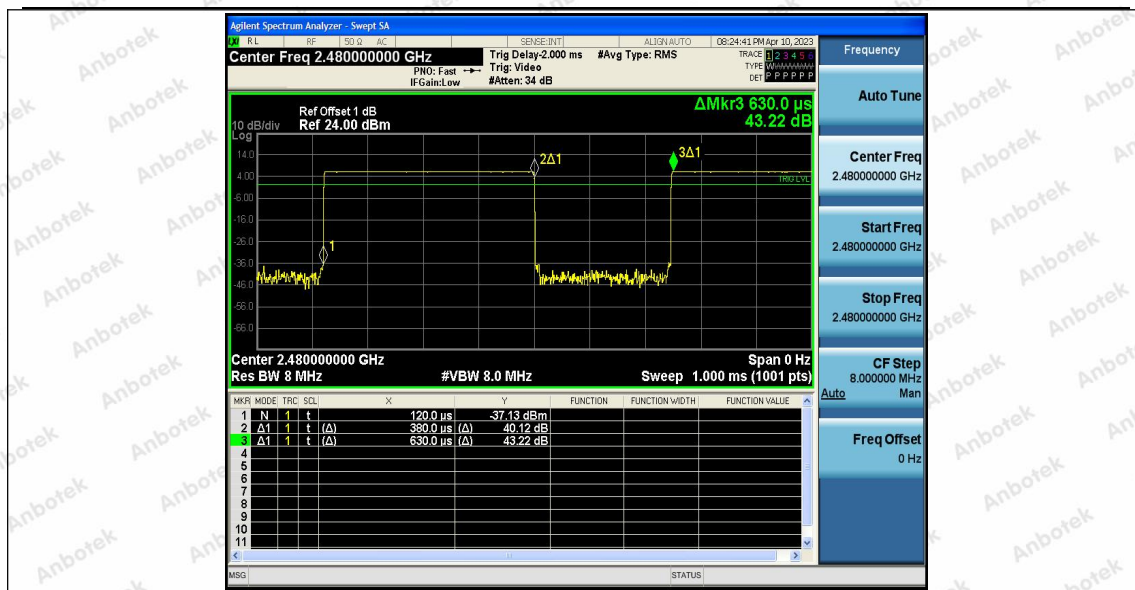
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