

## Appendix Test Data

|                  |                   |                    |                    |
|------------------|-------------------|--------------------|--------------------|
| Report No.:      | 18220WC40032202   | Test Sample No.:   | 1-2-2              |
| Start Test Date: | 2024.3.18         | Finish Test Date:  | 2024.3.18          |
| Test Engineer:   | <i>Foker Wang</i> | Auditor:           | <i>Justin Feng</i> |
| Temperature:     | 25.3°C            | Relative Humidity: | 48%                |
| Pressure:        | 101kPa            |                    |                    |

## Appendix A: 6dB Bandwidth

## Test Result

| Test Mode | Antenna | Frequency[MHz] | 6dB BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE_1M    | Ant1    | 2402           | 0.652        | 2401.668 | 2402.320 | 0.5        | PASS    |
|           |         | 2440           | 0.652        | 2439.664 | 2440.316 | 0.5        | PASS    |
|           |         | 2480           | 0.664        | 2479.652 | 2480.316 | 0.5        | PASS    |

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## Test Graphs

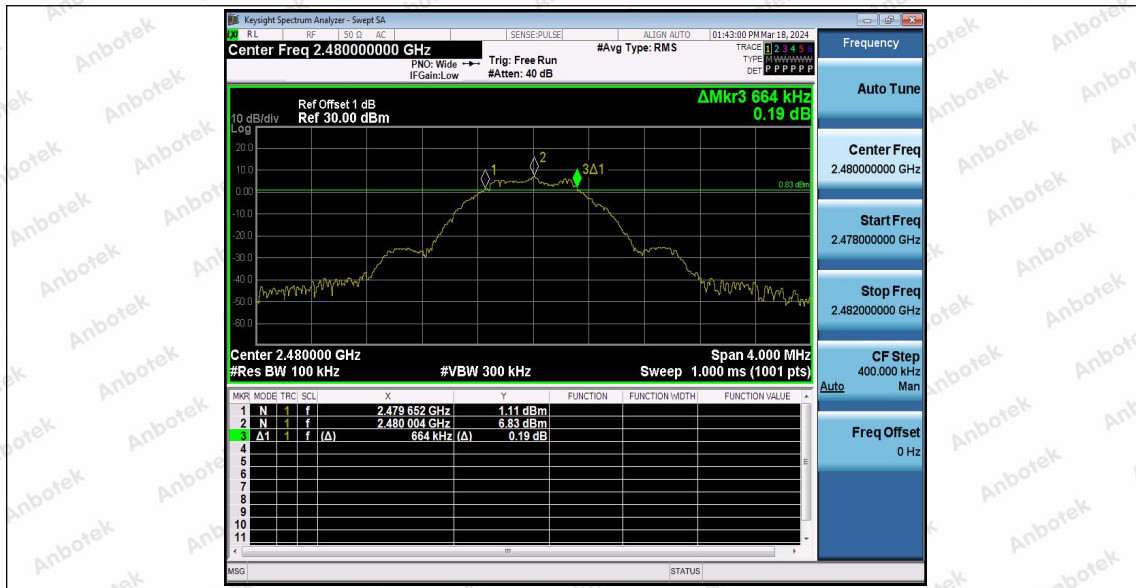


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## Appendix B: 99% Occupied Bandwidth

### Test Result

| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| BLE_1M    | Ant1    | 2402           | 1.0392    | 2401.4798 | 2402.5190 | ---        | ---     |
|           |         | 2440           | 1.0353    | 2439.4786 | 2440.5139 | ---        | ---     |
|           |         | 2480           | 1.0354    | 2479.4785 | 2480.5139 | ---        | ---     |

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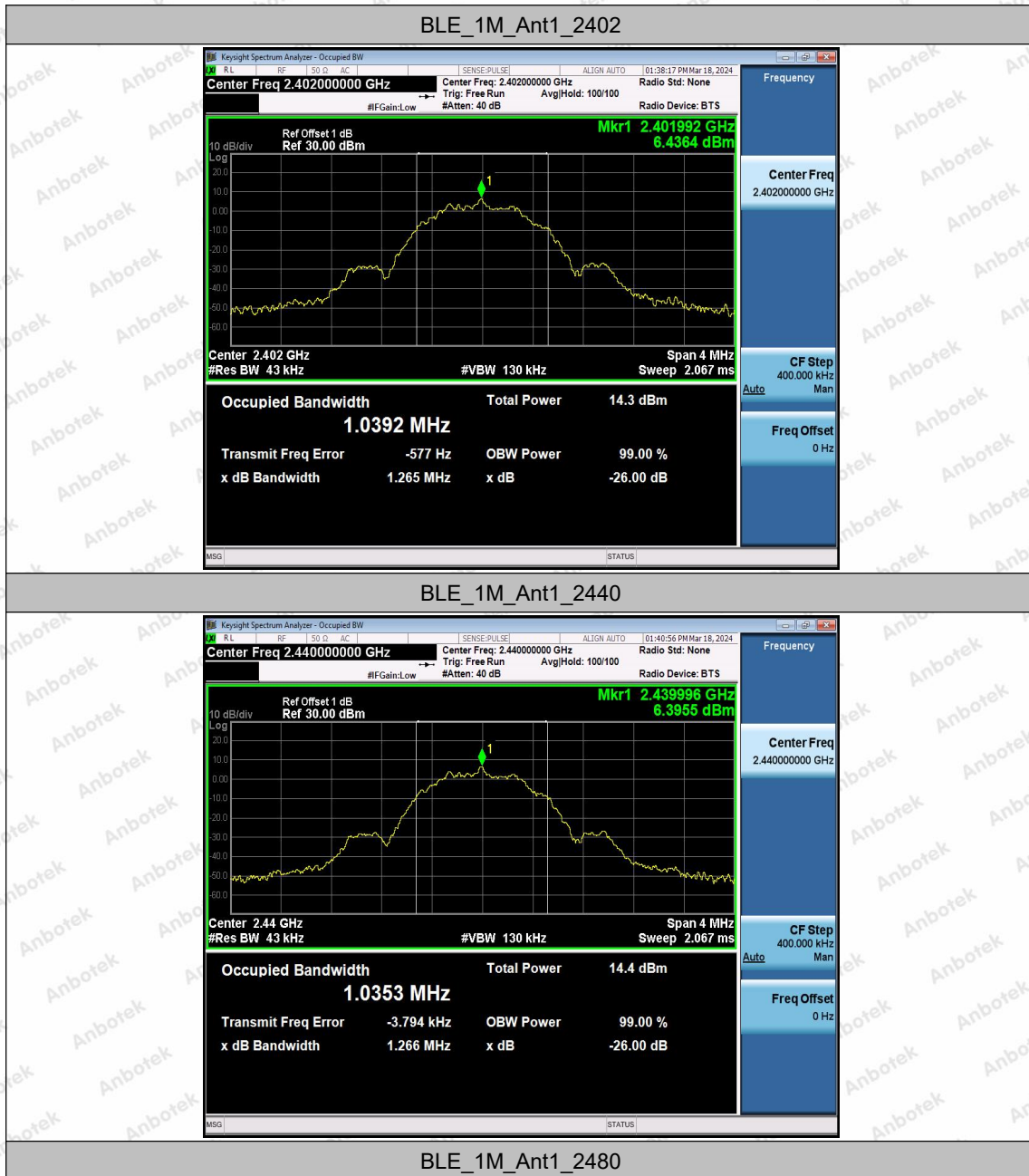
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## Test Graphs



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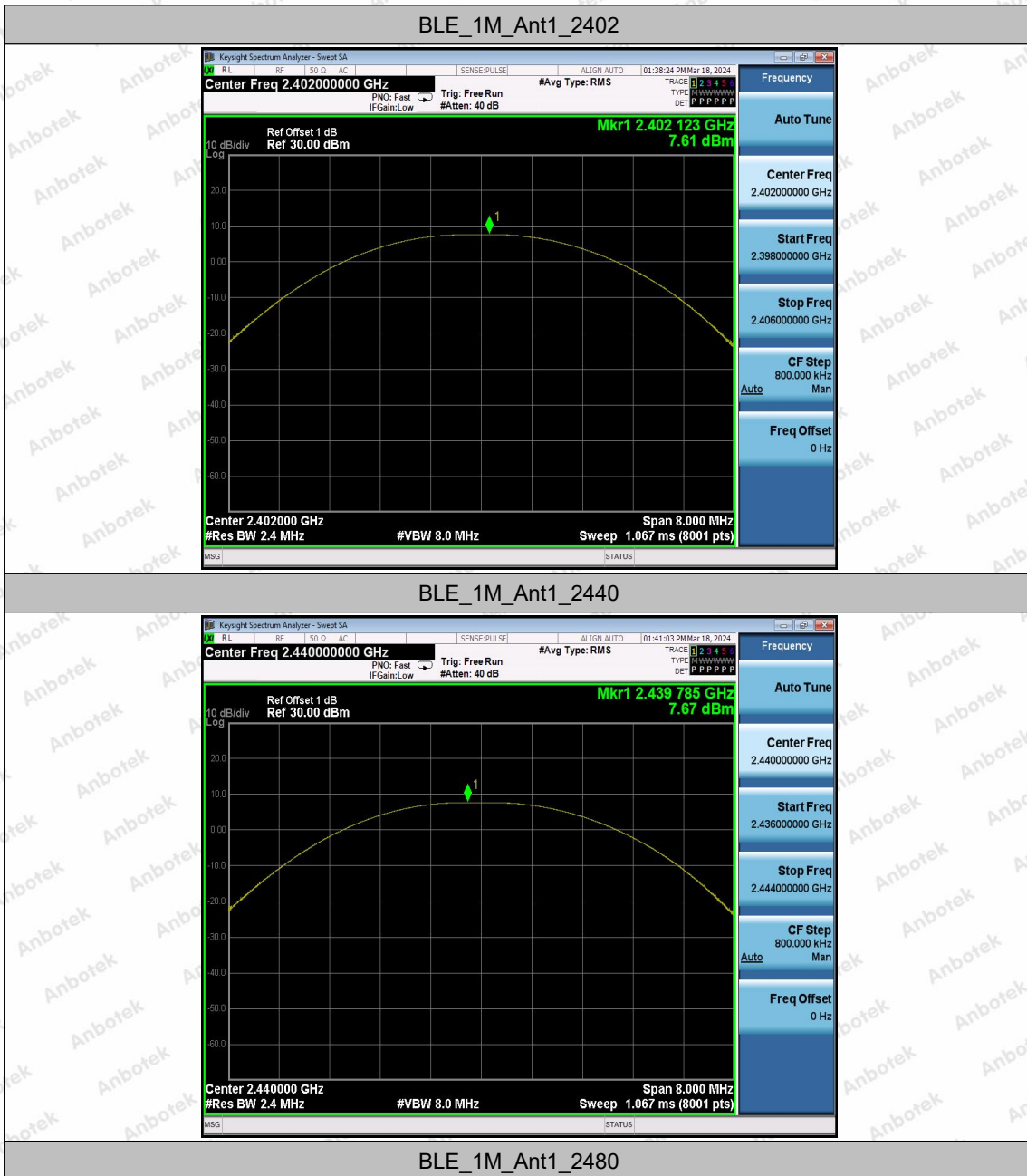
## Appendix C: Maximum Conducted Output Power

### Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M    | Ant1    | 2402           | 7.61                      | ≤30                  | PASS    |
|           |         | 2440           | <b>7.67</b>               | ≤30                  | PASS    |
|           |         | 2480           | 7.11                      | ≤30                  | PASS    |



## Test Graphs Peak



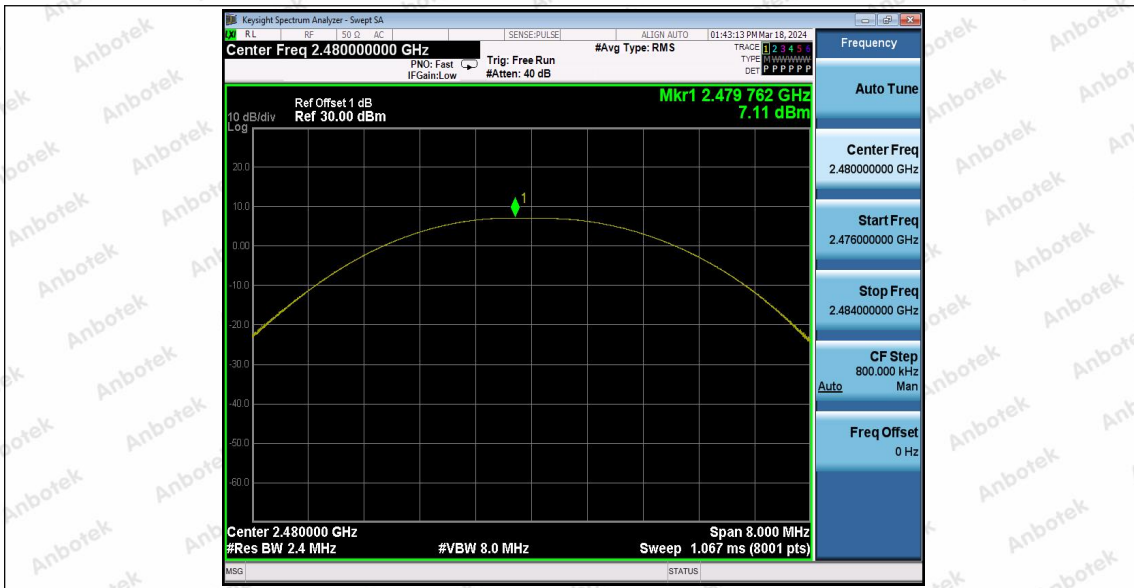
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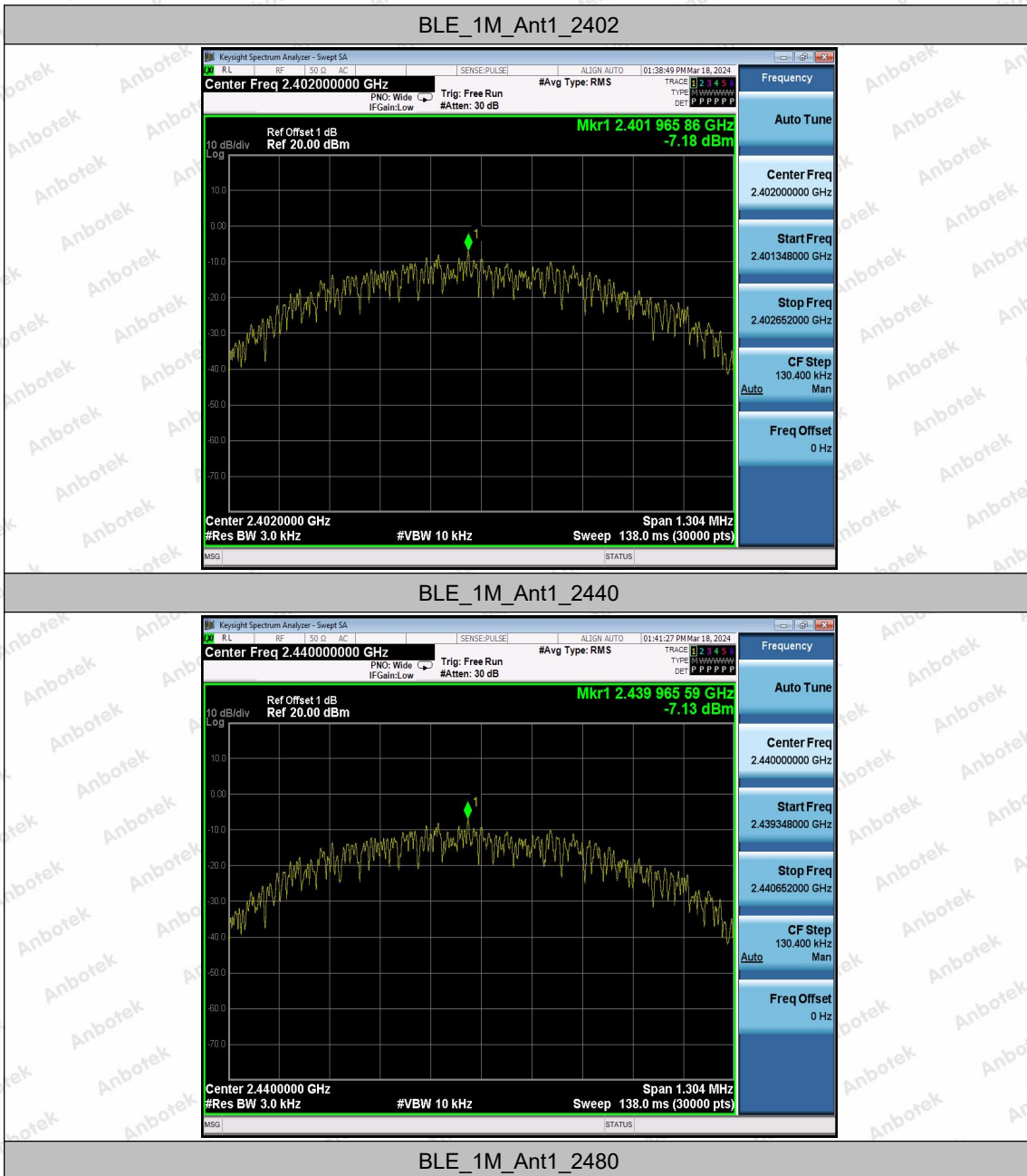
## Appendix D: Maximum Power Spectral Density

### Test Result

| Test Mode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M    | Ant1    | 2402           | -7.18            | ≤8.00           | PASS    |
|           |         | 2440           | -7.13            | ≤8.00           | PASS    |
|           |         | 2480           | -7.70            | ≤8.00           | PASS    |



## Test Graphs

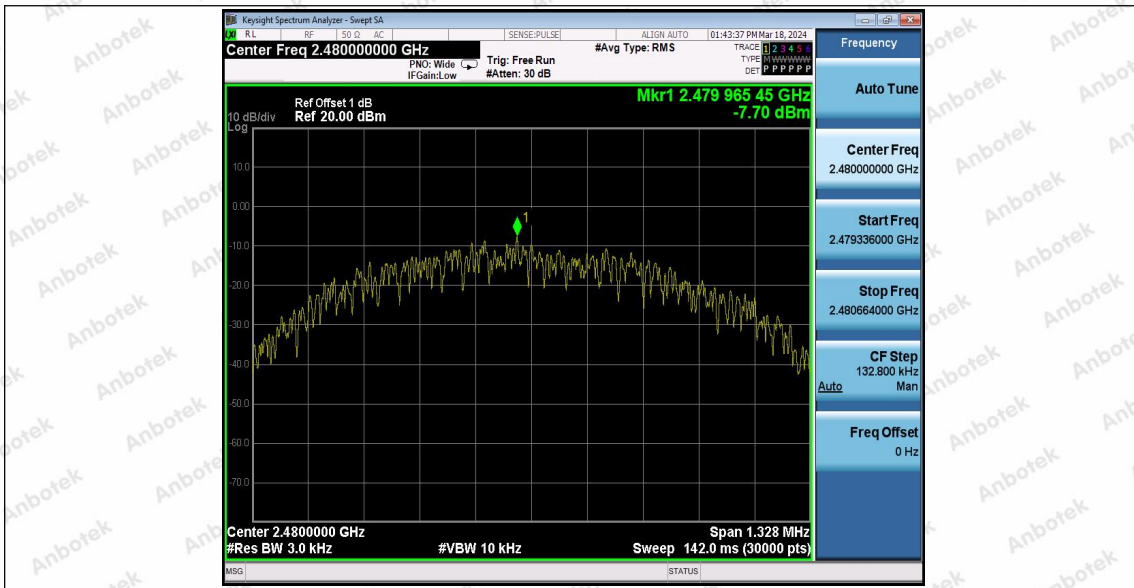


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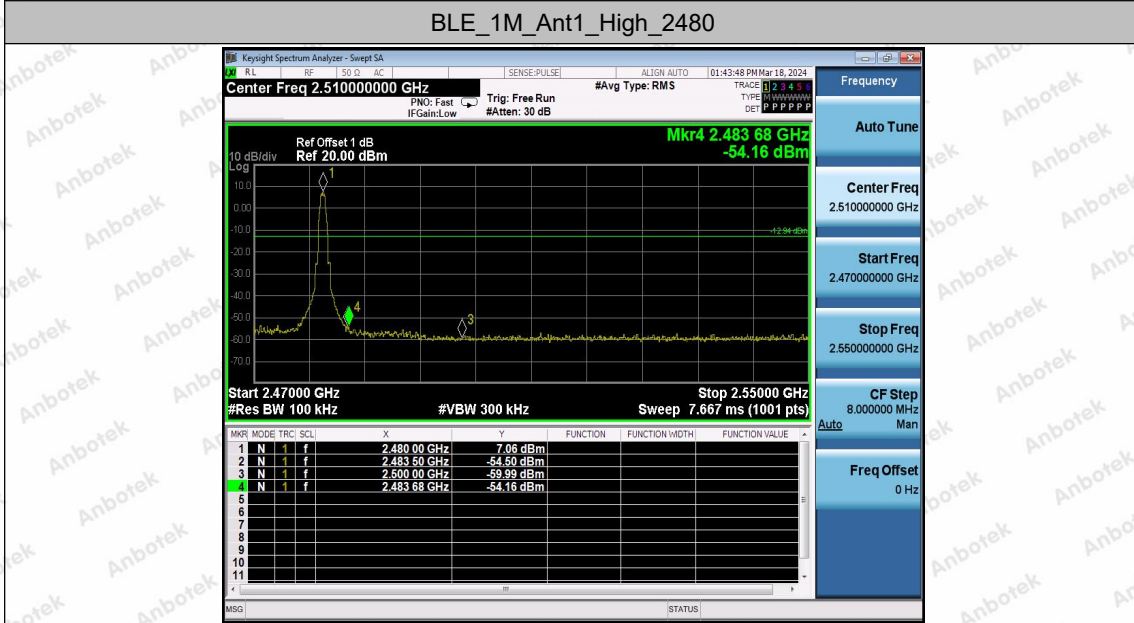
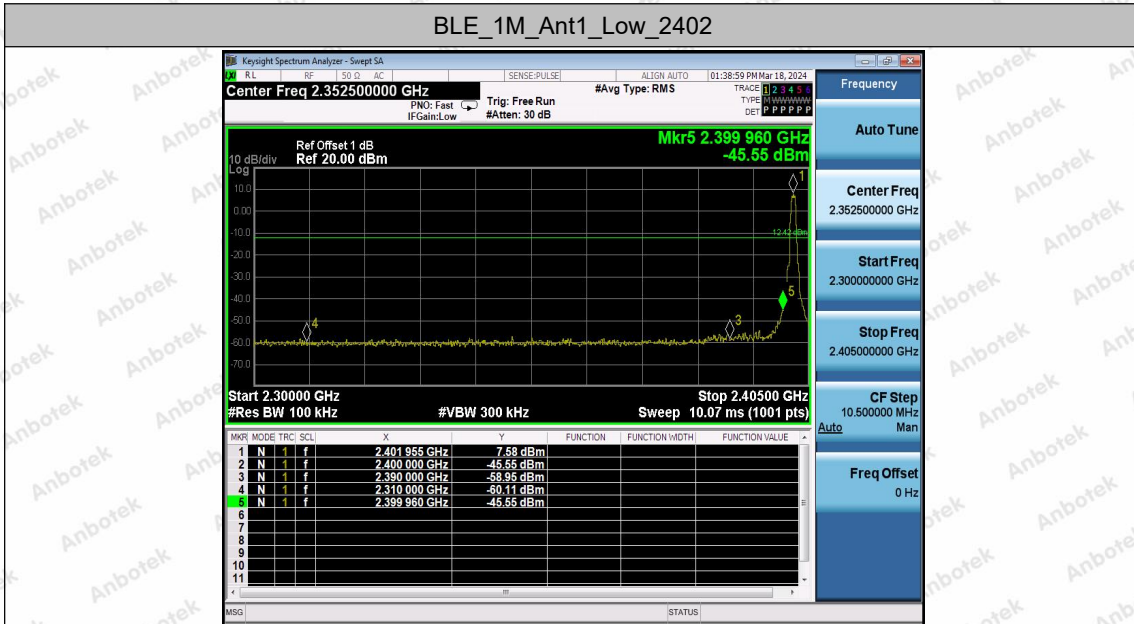
## Appendix E: Conducted Band edge

### Test Result

| Test Mode | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|----------------|---------------|-------------|------------|---------|
| BLE_1M    | Ant1    | Low    | 2402           | 7.58          | -45.55      | ≤-12.42    | PASS    |
|           |         | High   | 2480           | 7.06          | -54.16      | ≤-12.94    | PASS    |



## Test Graphs



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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 |
|-----------|---------|----------------|-----------------|----------------|-------------|------------|---------|
| BLE_1M    | Ant1    | 2402           | Reference       | 7.44           | 7.44        | ---        | PASS    |
|           |         |                | 30~1000         | 7.44           | -67.74      | ≤-12.56    | PASS    |
|           |         |                | 1000~26500      | 7.44           | -50.86      | ≤-12.56    | PASS    |
|           |         | 2440           | Reference       | 7.47           | 7.47        | ---        | PASS    |
|           |         |                | 30~1000         | 7.47           | -68.71      | ≤-12.53    | PASS    |
|           |         |                | 1000~26500      | 7.47           | -53.42      | ≤-12.53    | PASS    |
|           |         | 2480           | Reference       | 6.93           | 6.93        | ---        | PASS    |
|           |         |                | 30~1000         | 6.93           | -68.07      | ≤-13.07    | PASS    |
|           |         |                | 1000~26500      | 6.93           | -50.9       | ≤-13.07    | PASS    |

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## Test Graphs



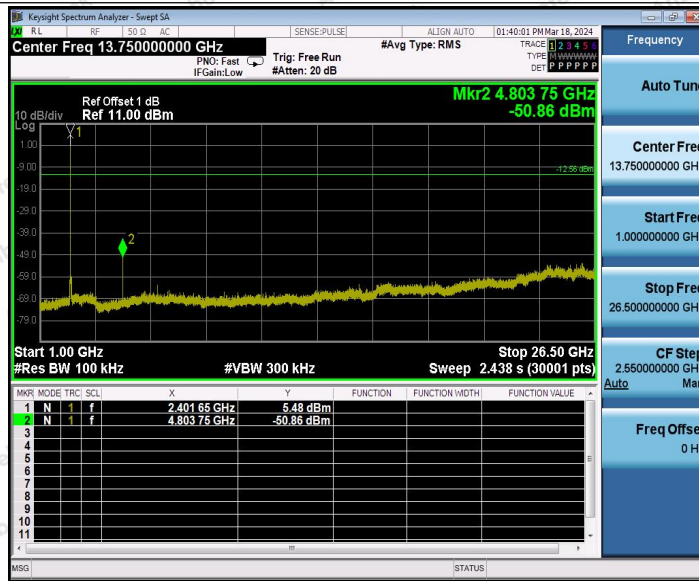
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BLE\_1M\_Ant1\_2440\_0~Reference



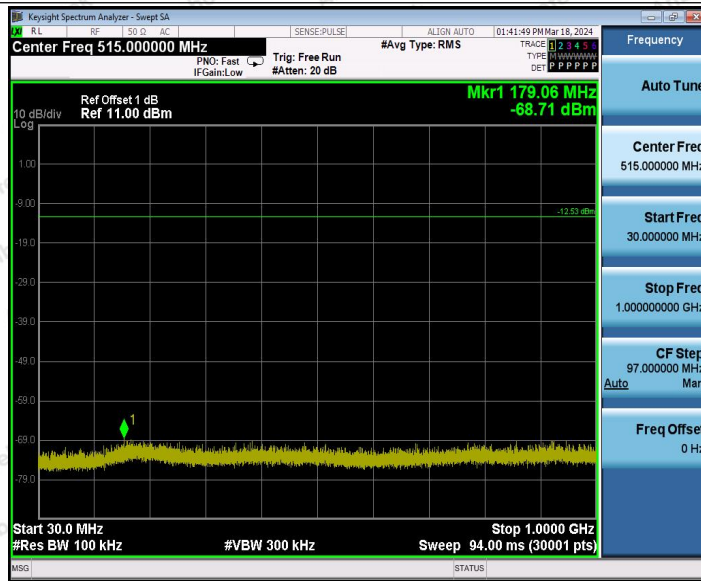
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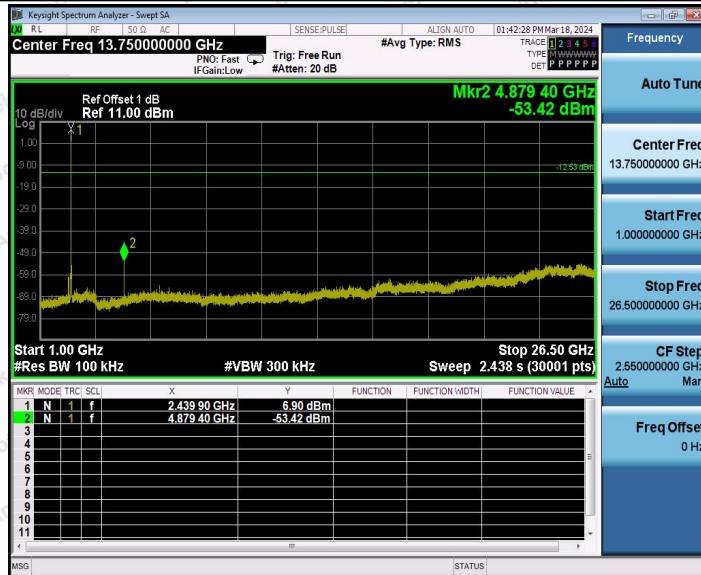
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference

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BLE\_1M\_Ant1\_2480\_30~1000



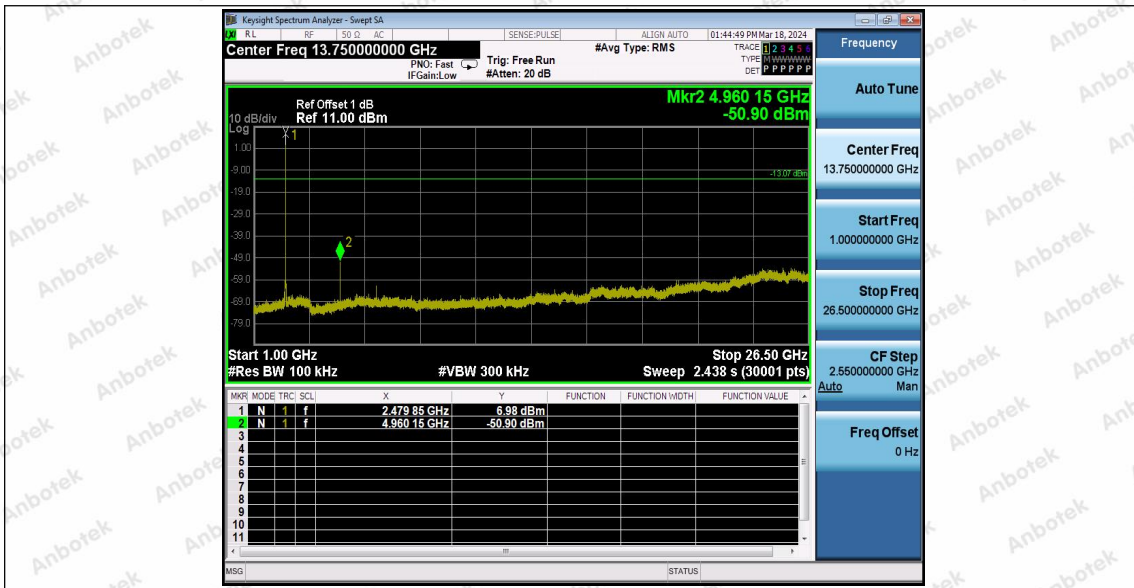
BLE\_1M\_Ant1\_2480\_1000~26500

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## Appendix G: Duty Cycle

### Test Result

| Test Mode | Antenna | Frequency[MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|-----------|---------|----------------|--------------|-------------|----------------|-----------------------|
| BLE_1M    | Ant1    | 2402           | 0.39         | 0.62        | 62.90          | 2.01                  |
|           |         | 2440           | 0.39         | 0.63        | 61.90          | 2.08                  |
|           |         | 2480           | 0.39         | 0.63        | 61.90          | 2.08                  |

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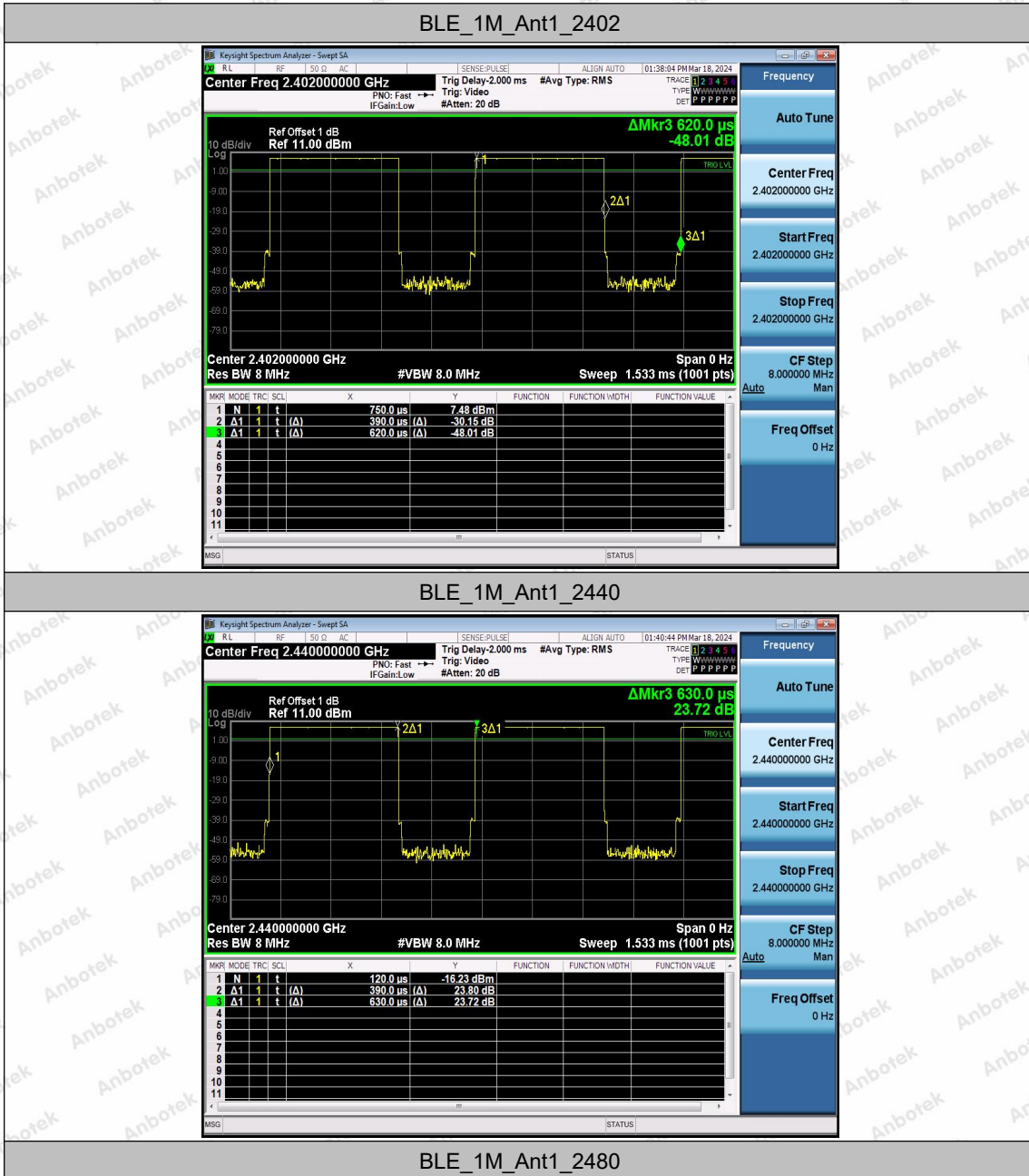
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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## Test Graphs

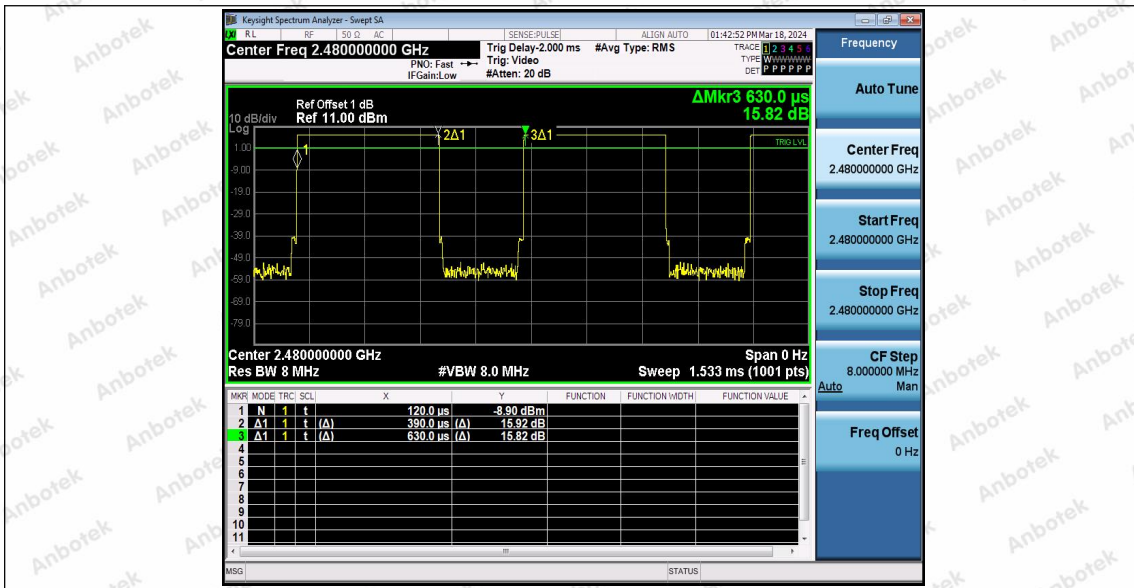


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