

## Appendix Test Data

|                  |                 |                    |             |
|------------------|-----------------|--------------------|-------------|
| Report No.:      | 18220WC40016901 | Test Sample No.:   | 1-2-2       |
| Start Test Date: | 2024.2.23       | Finish Test Date:  | 2024.2.23   |
| Test Engineer:   | Joker Wang      | Auditor:           | Justin Feng |
| Temperature:     | 25.3°C          | Relative Humidity: | 48%         |
| Pressure:        | 101kPa          |                    |             |

## Appendix A: DTS Bandwidth

## Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 0.680        | 2401.656 | 2402.336 | 0.5        | PASS    |
|          |         | 2440           | 0.680        | 2439.660 | 2440.340 | 0.5        | PASS    |
|          |         | 2480           | 0.696        | 2479.640 | 2480.336 | 0.5        | PASS    |



## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline  
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www.anbotek.com.cn



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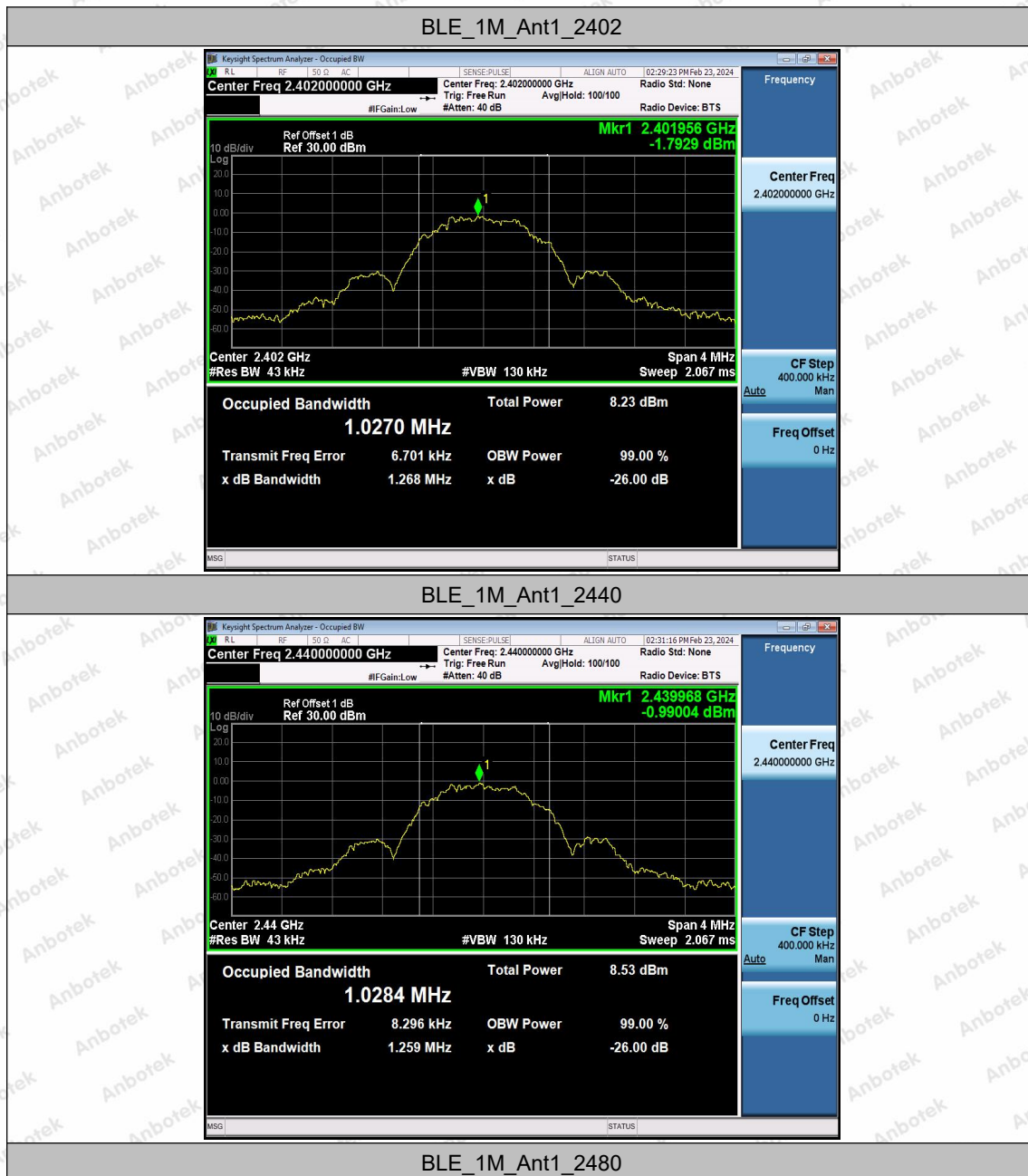
## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|----------|---------|----------------|-----------|-----------|-----------|
| BLE_1M   | Ant1    | 2402           | 1.0270    | 2401.4932 | 2402.5202 |
|          |         | 2440           | 1.0284    | 2439.4941 | 2440.5225 |
|          |         | 2480           | 1.0213    | 2479.4916 | 2480.5129 |



## Test Graphs



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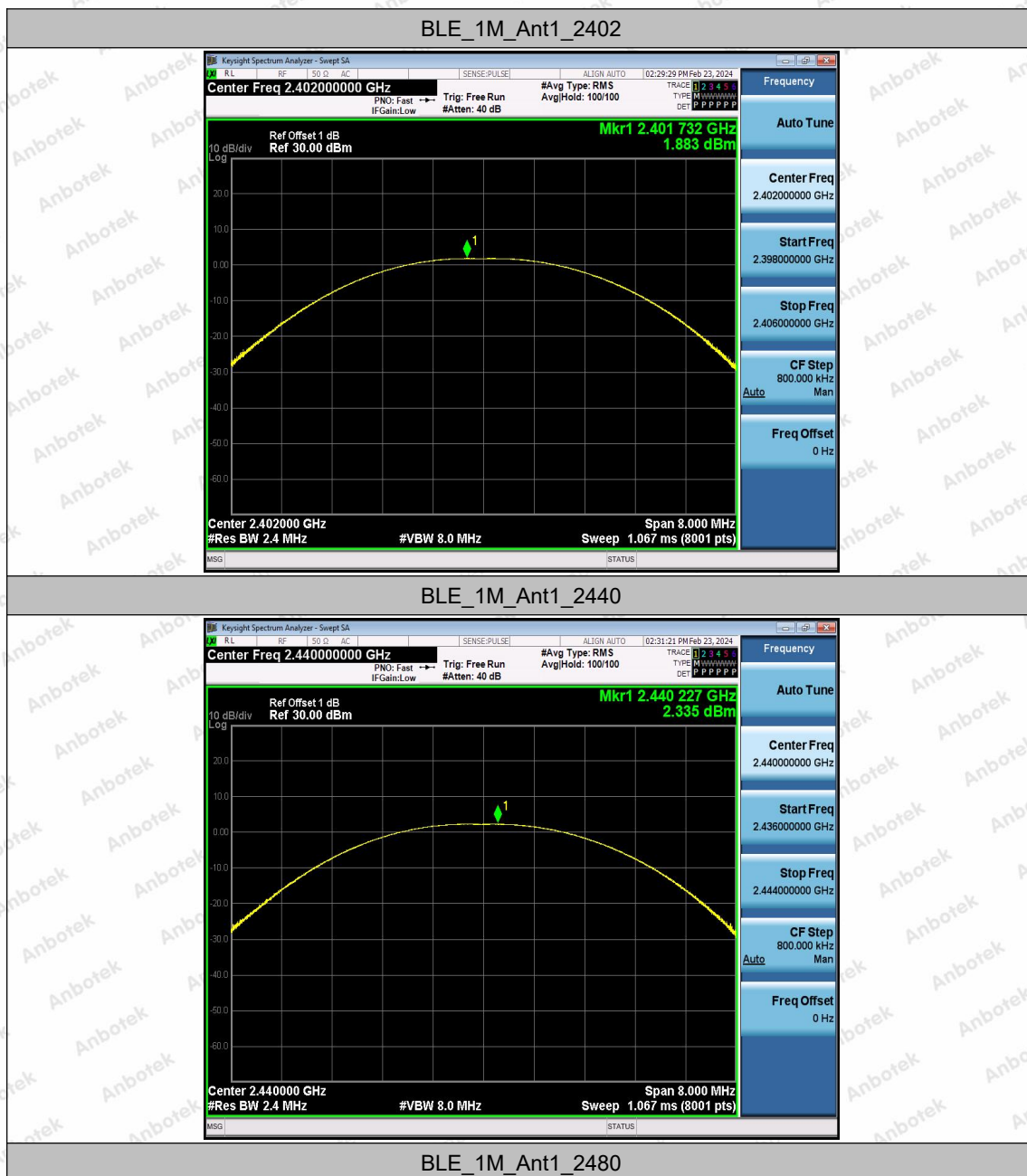
## Appendix C: Maximum conducted output power

### Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M   | Ant1    | 2402           | 1.88                      | ≤30                  | PASS    |
|          |         | 2440           | 2.34                      | ≤30                  | PASS    |
|          |         | 2480           | 1.42                      | ≤30                  | PASS    |



## Test Graphs Peak



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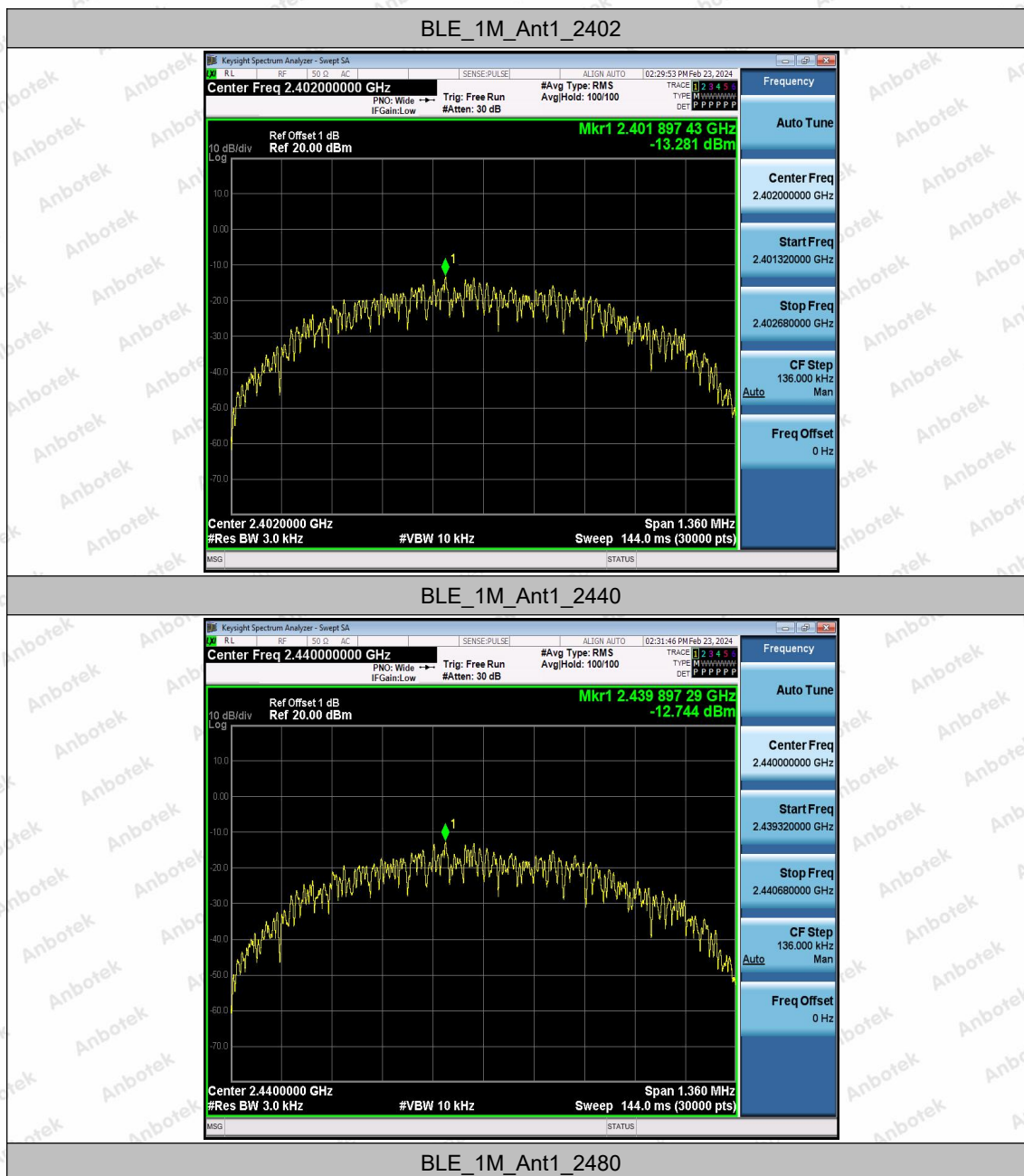
## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -13.28           | ≤8.00           | PASS    |
|          |         | 2440           | -12.74           | ≤8.00           | PASS    |
|          |         | 2480           | -13.77           | ≤8.00           | PASS    |



## Test Graphs



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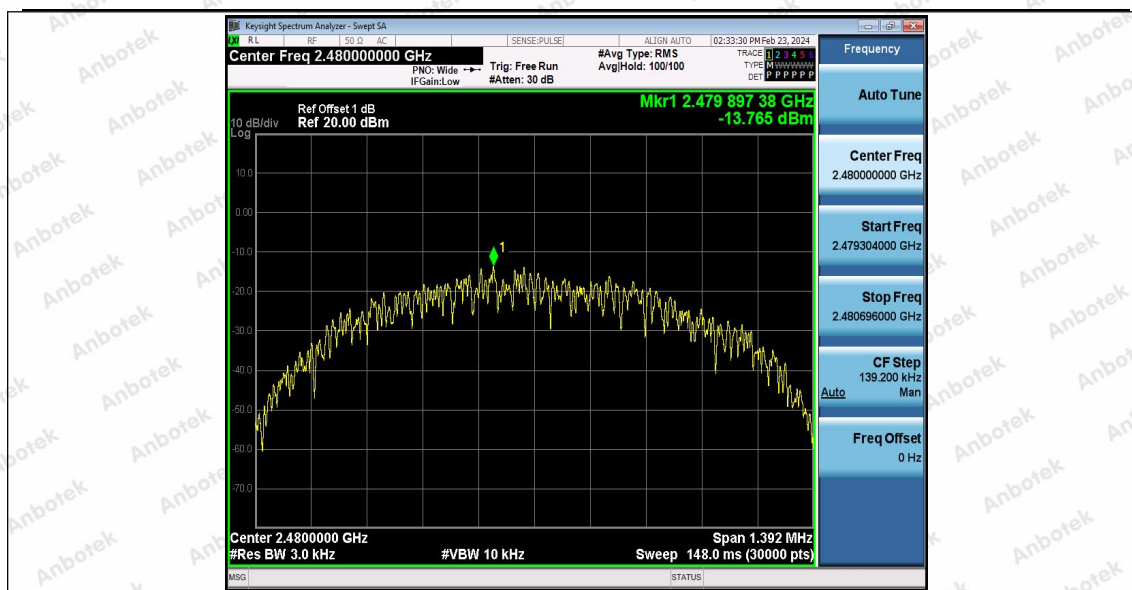
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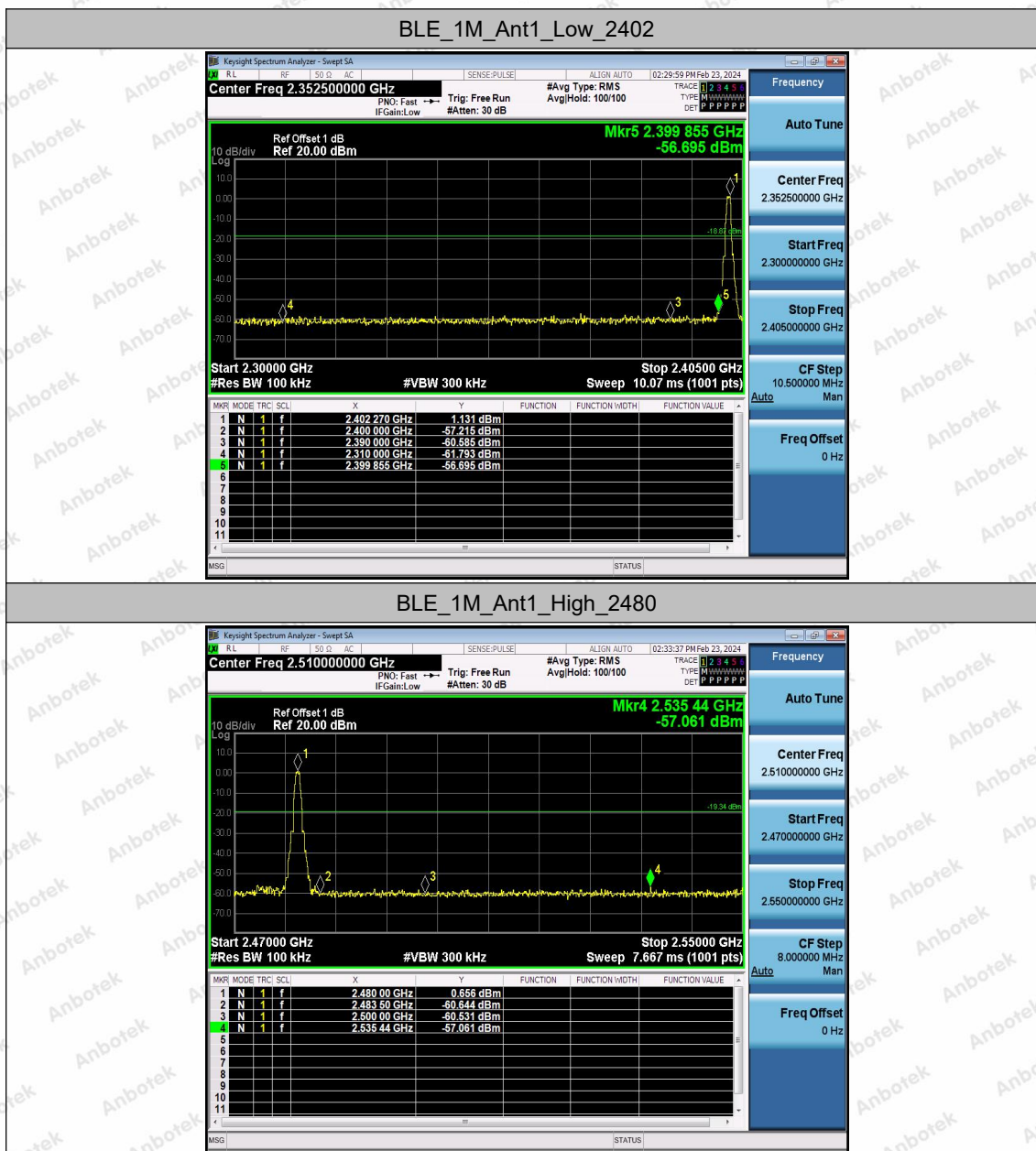
## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | Channel | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low     | 2402           | 1.13          | -56.7       | ≤-18.87    | PASS    |
|          |         | High    | 2480           | 0.66          | -57.06      | ≤-19.34    | 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       | 0.84           | 0.84        | ---        | PASS    |
|          |         |                | 30~1000         | 0.84           | -69.07      | ≤-19.16    | PASS    |
|          |         |                | 1000~26500      | 0.84           | -53.67      | ≤-19.16    | PASS    |
|          |         | 2440           | Reference       | 0.75           | 0.75        | ---        | PASS    |
|          |         |                | 30~1000         | 0.75           | -68.78      | ≤-19.25    | PASS    |
|          |         |                | 1000~26500      | 0.75           | -53.8       | ≤-19.25    | PASS    |
|          |         | 2480           | Reference       | -0.04          | -0.04       | ---        | PASS    |
|          |         |                | 30~1000         | -0.04          | -68.45      | ≤-20.04    | PASS    |
|          |         |                | 1000~26500      | -0.04          | -54         | ≤-20.04    | PASS    |



## Test Graphs



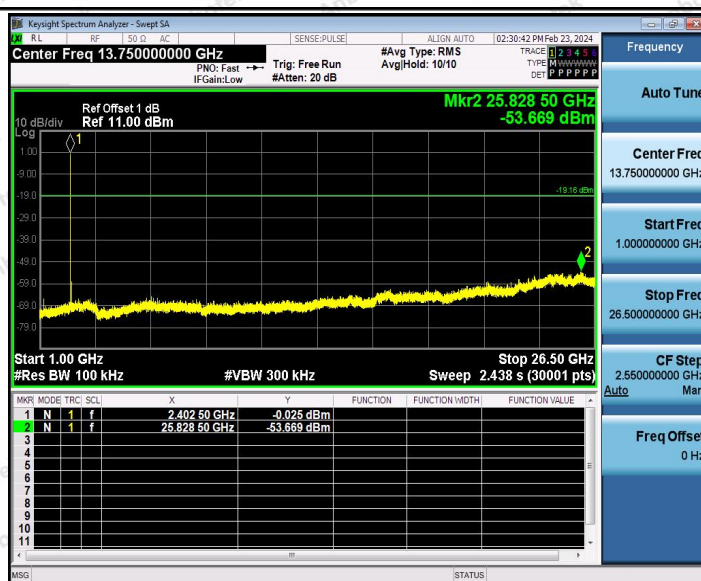
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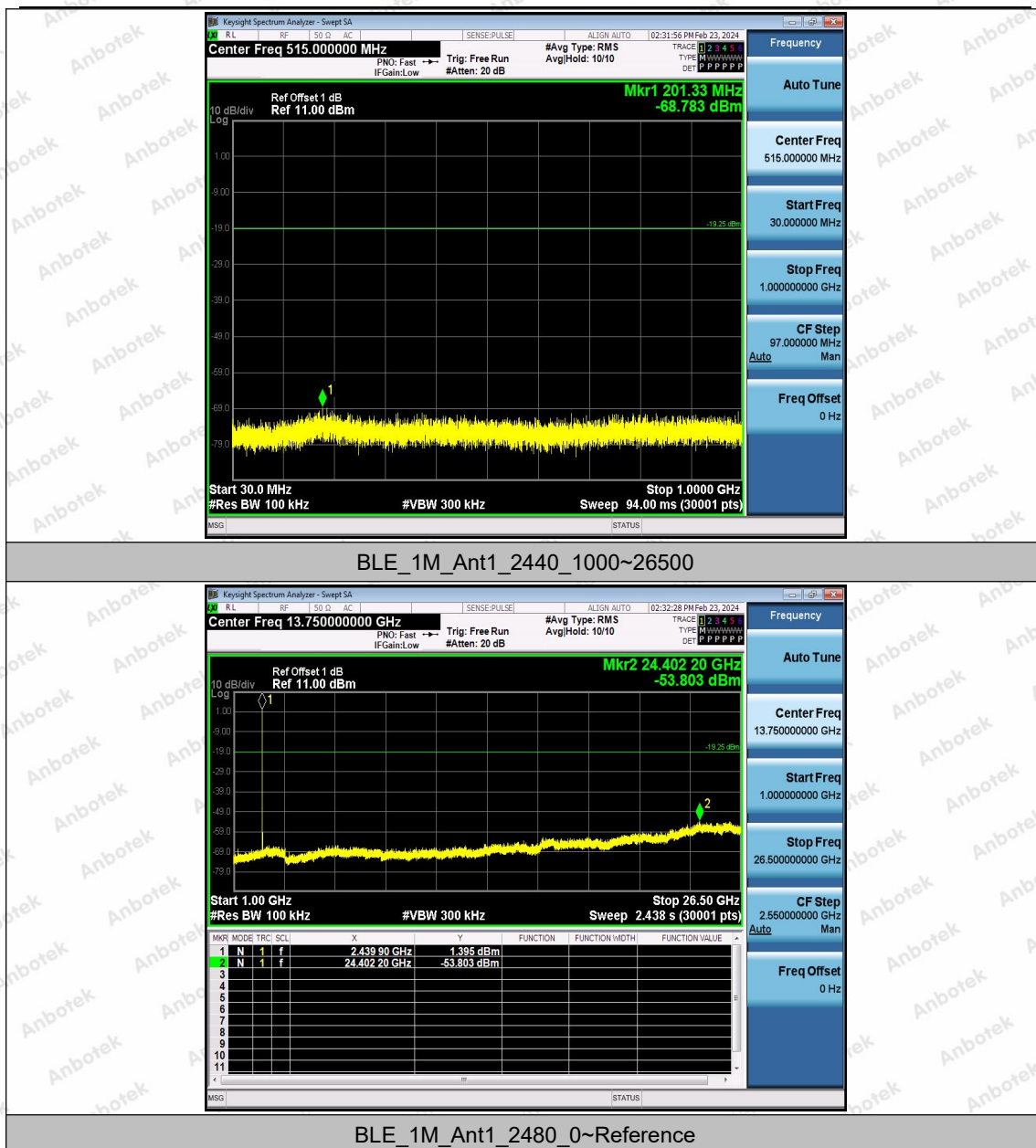
BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000





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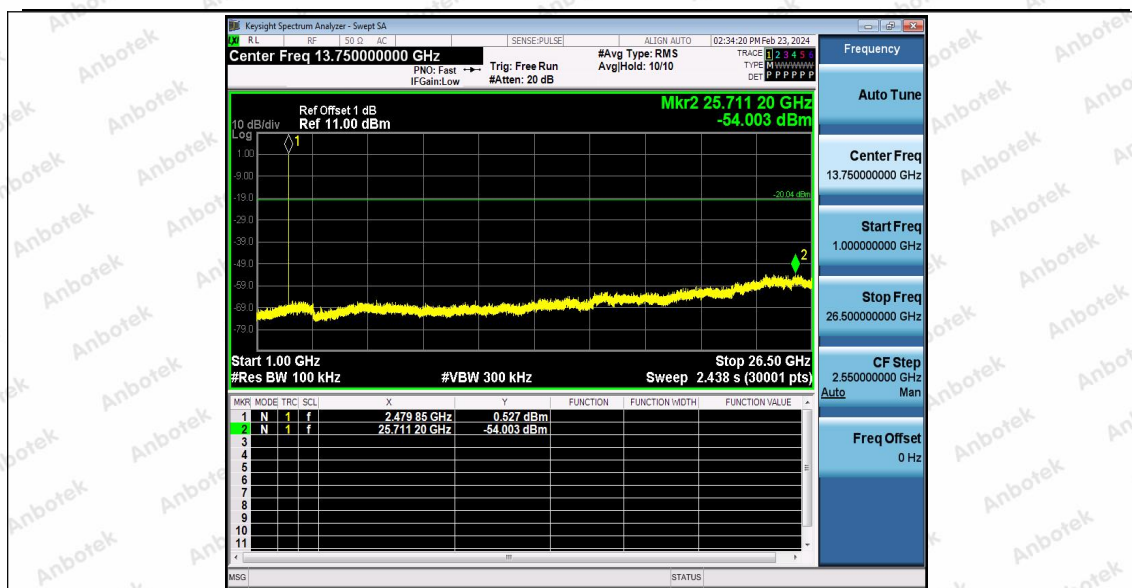
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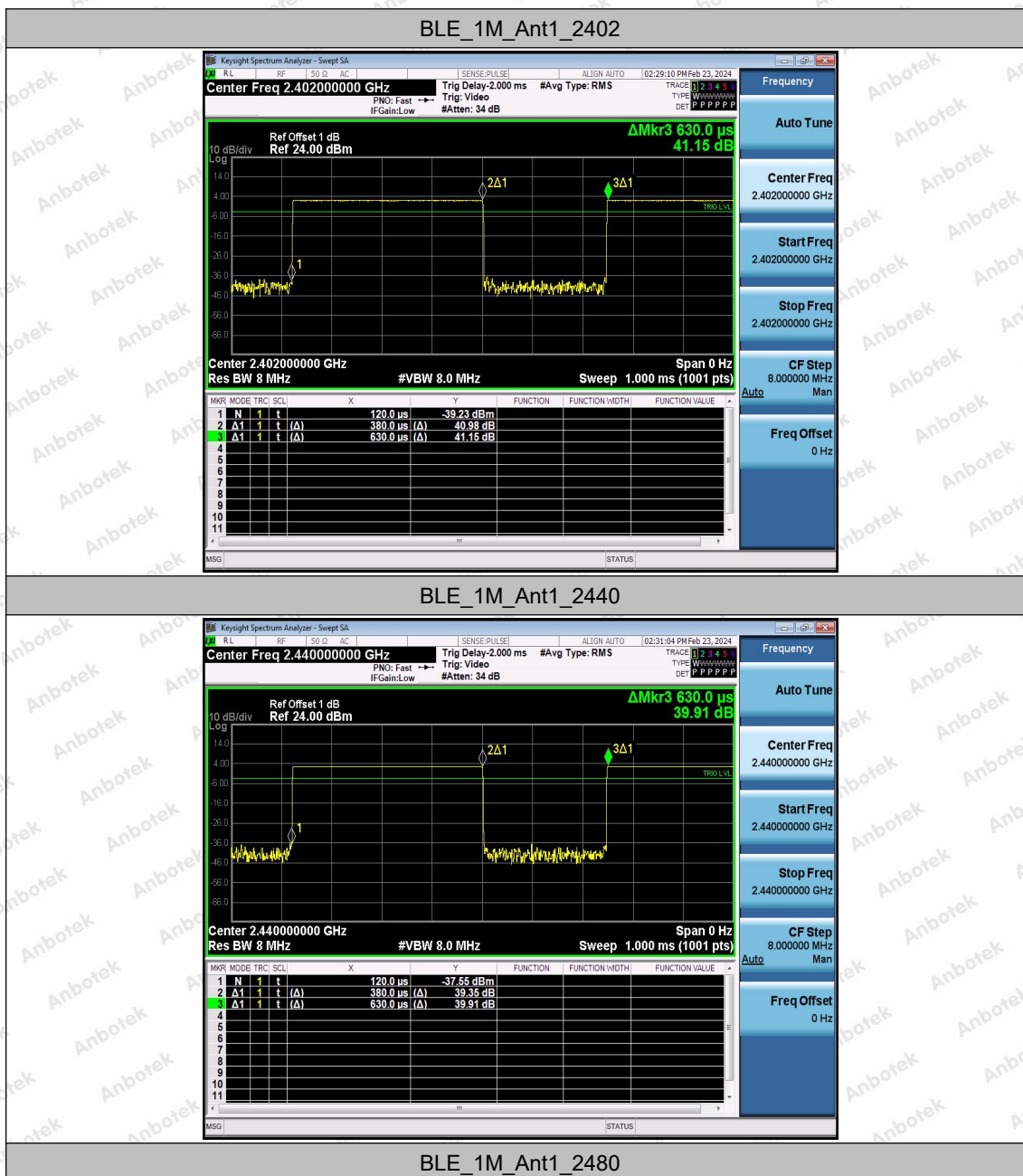
## Appendix G: Duty Cycle

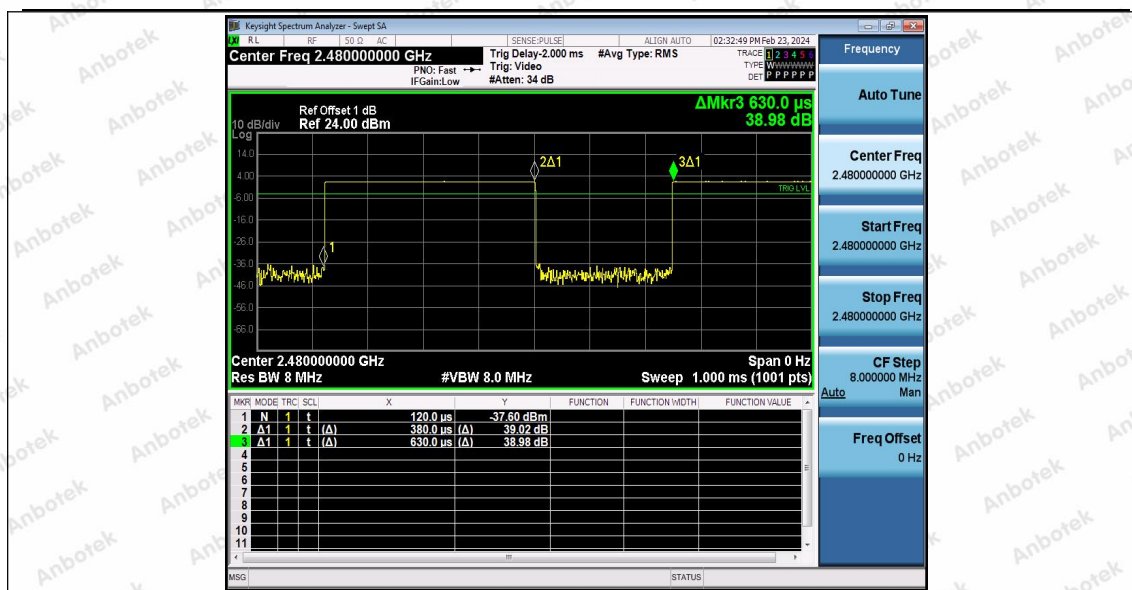
### Test Result

| 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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