

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20295602 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.12.30      | Finish Test Date:  | 2023.1.4          |
| Test Engineer:   | <i>Jony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 27.3°C          | Relative Humidity: | 47 %              |
| 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        | 2401.668 | 2402.356 | 0.5        | PASS    |
|          |         | 2440           | 0.688        | 2439.664 | 2440.352 | 0.5        | PASS    |
|          |         | 2480           | 0.684        | 2479.660 | 2480.344 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2402           | 1.188        | 2401.416 | 2402.604 | 0.5        | PASS    |
|          |         | 2440           | 1.112        | 2439.468 | 2440.580 | 0.5        | PASS    |
|          |         | 2480           | 1.320        | 2479.336 | 2480.656 | 0.5        | PASS    |

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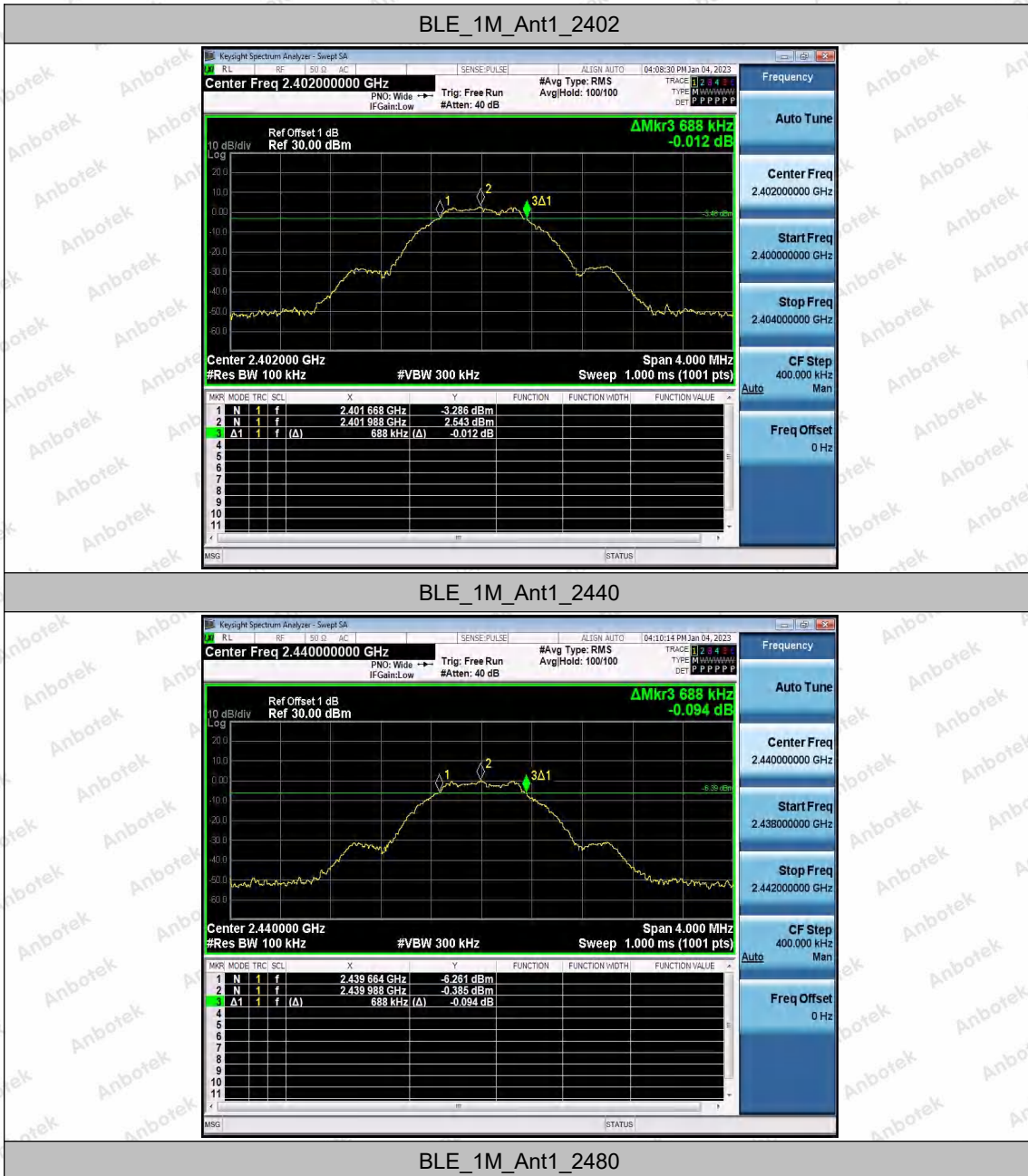
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## Test Graphs



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

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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           | 1.0442    | 2401.4905 | 2402.5347 |
|          |         | 2440           | 1.0485    | 2439.4868 | 2440.5353 |
|          |         | 2480           | 1.0498    | 2479.4867 | 2480.5365 |
| BLE_2M   | Ant1    | 2402           | 2.0785    | 2400.9904 | 2403.0689 |
|          |         | 2440           | 2.0852    | 2438.9800 | 2441.0652 |
|          |         | 2480           | 2.0848    | 2478.9807 | 2481.0655 |

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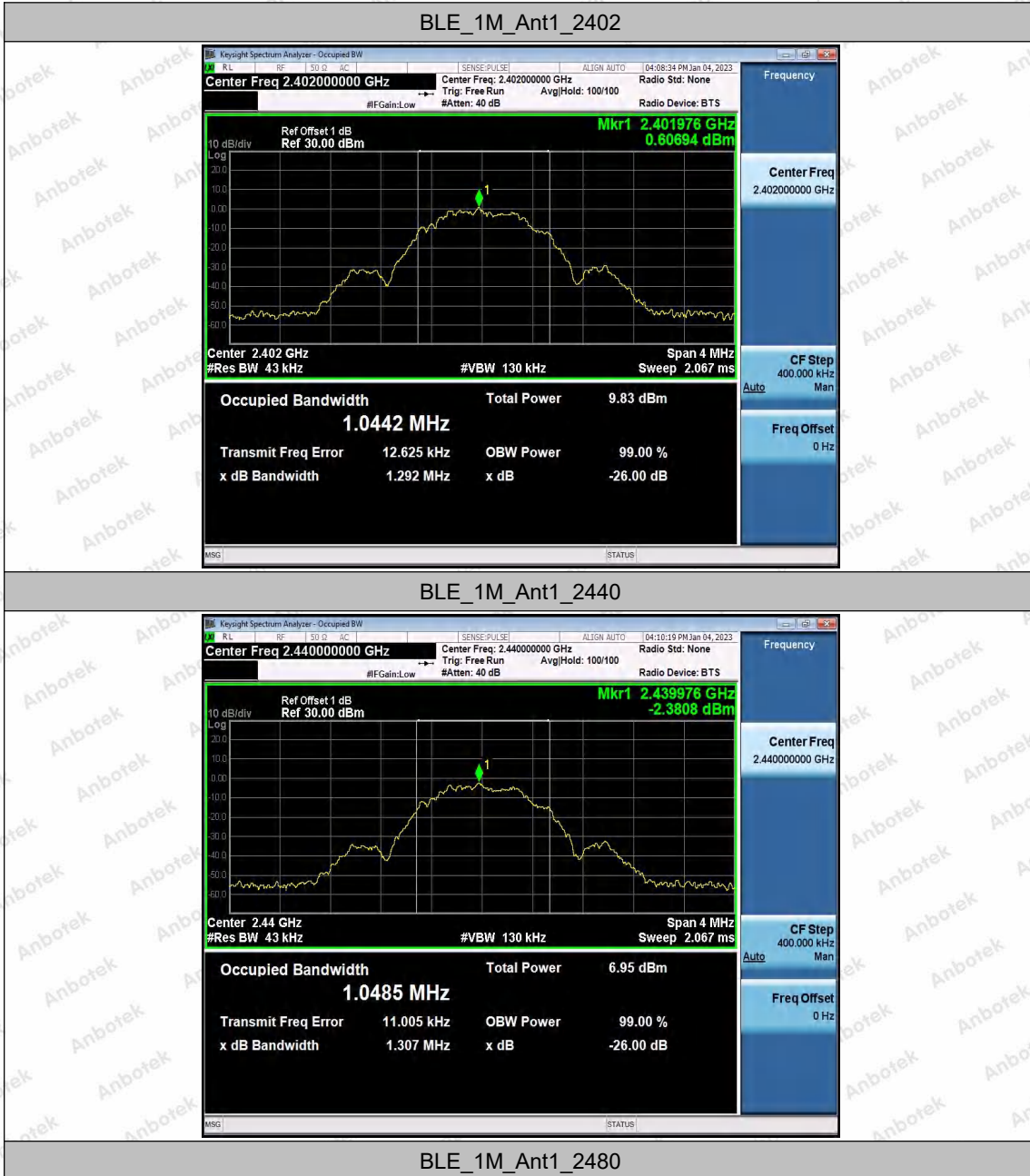
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## Test Graphs





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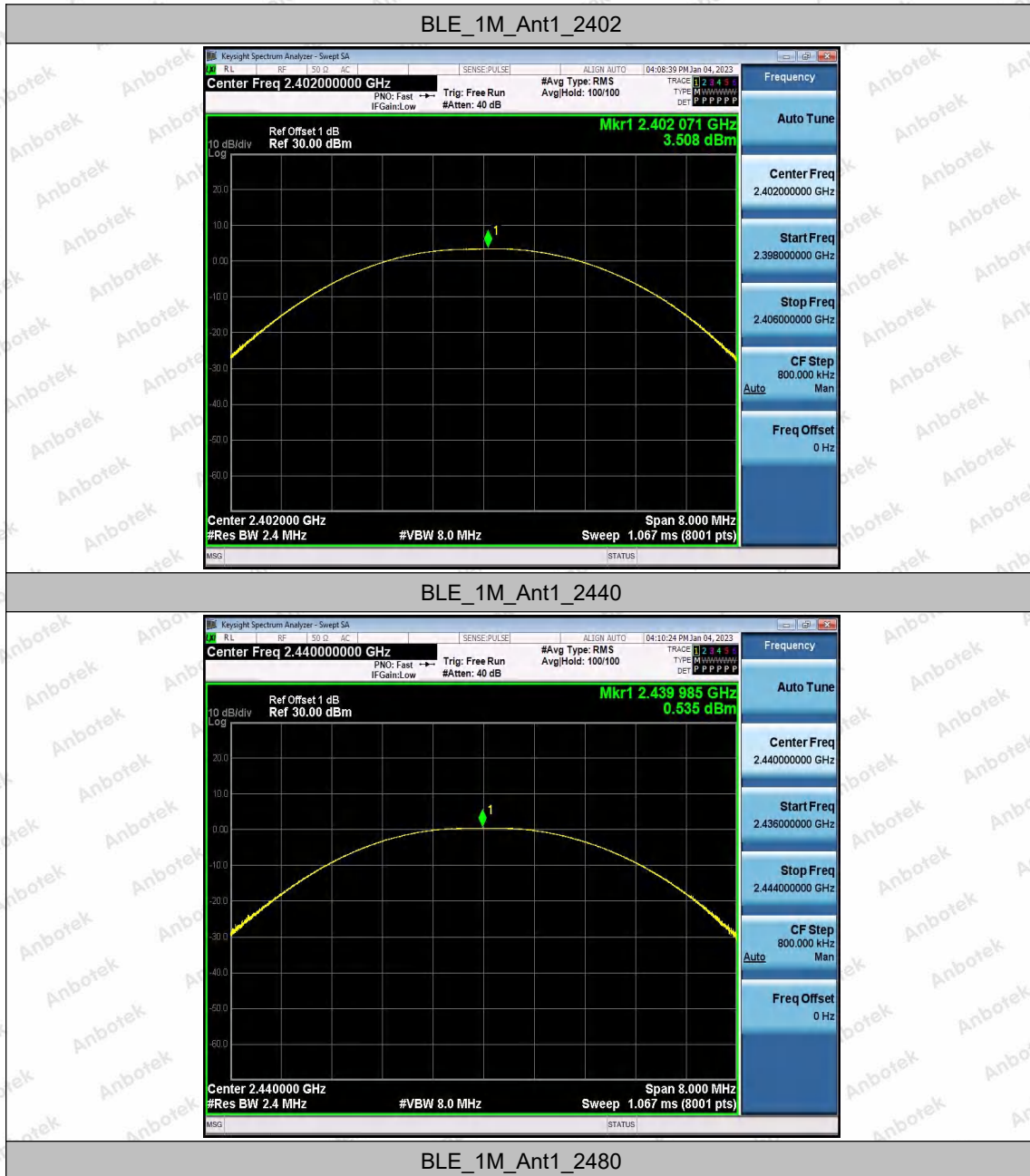
## Appendix C: Maximum conducted output power

### Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M   | Ant1    | 2402           | 3.51                      | ≤30                  | PASS    |
|          |         | 2440           | 0.54                      | ≤30                  | PASS    |
|          |         | 2480           | 2.04                      | ≤30                  | PASS    |
| BLE_2M   | Ant1    | 2402           | 2.81                      | ≤30                  | PASS    |
|          |         | 2440           | 0.6                       | ≤30                  | PASS    |
|          |         | 2480           | 0.13                      | ≤30                  | PASS    |



## Test Graphs Peak



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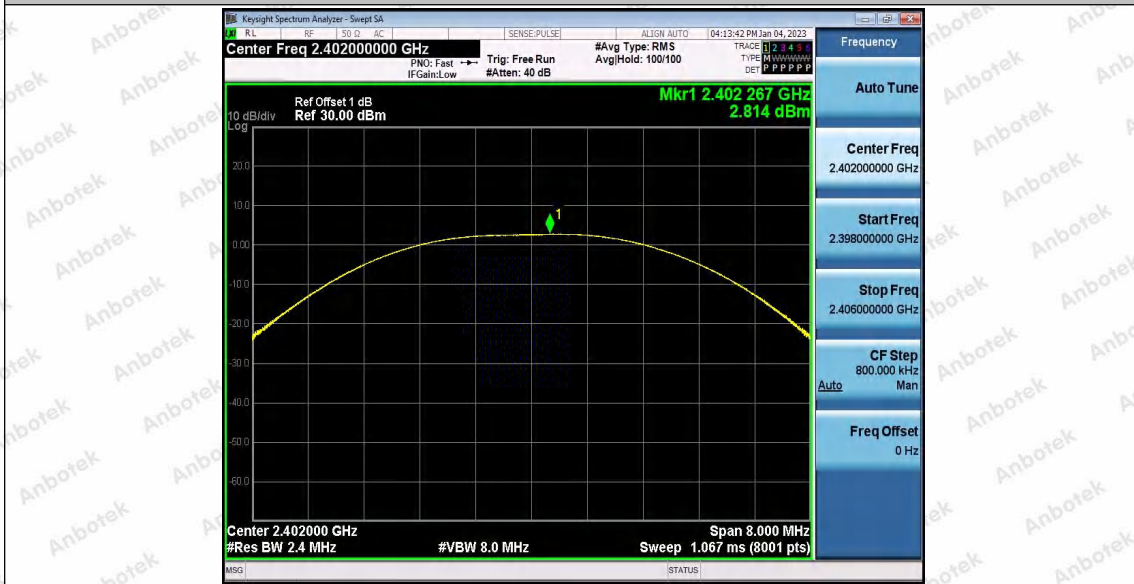
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -11.58           | ≤8.00           | PASS    |
|          |         | 2440           | -14.52           | ≤8.00           | PASS    |
|          |         | 2480           | -12.96           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2402           | -14.55           | ≤8.00           | PASS    |
|          |         | 2440           | -16.74           | ≤8.00           | PASS    |
|          |         | 2480           | -17.17           | ≤8.00           | PASS    |

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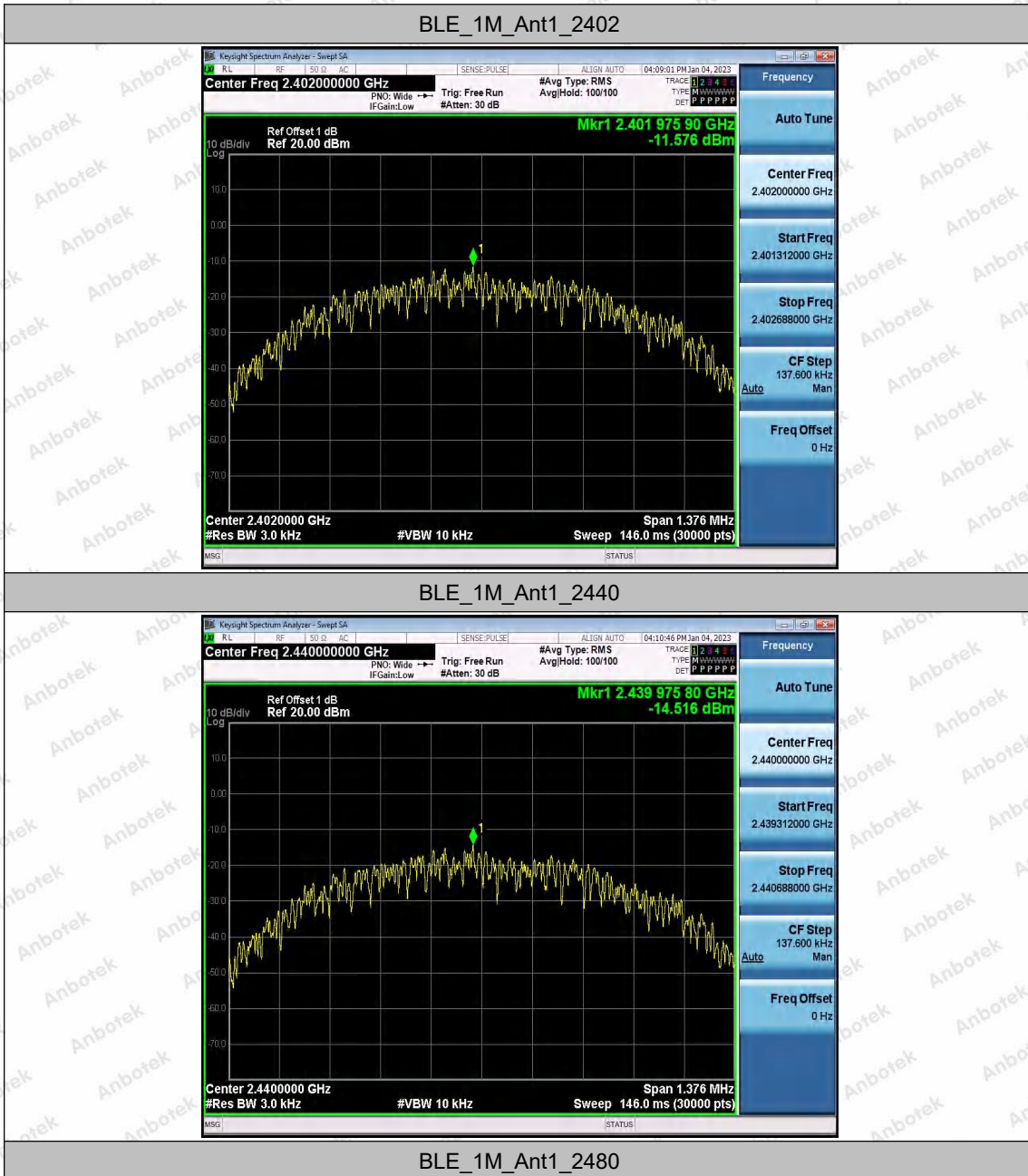
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## Test Graphs



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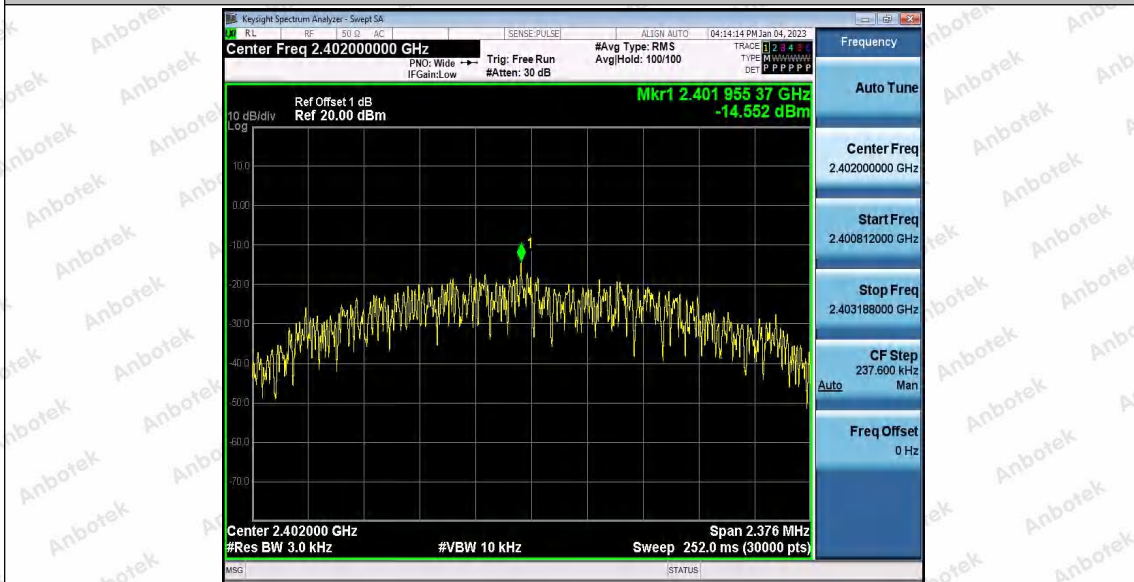
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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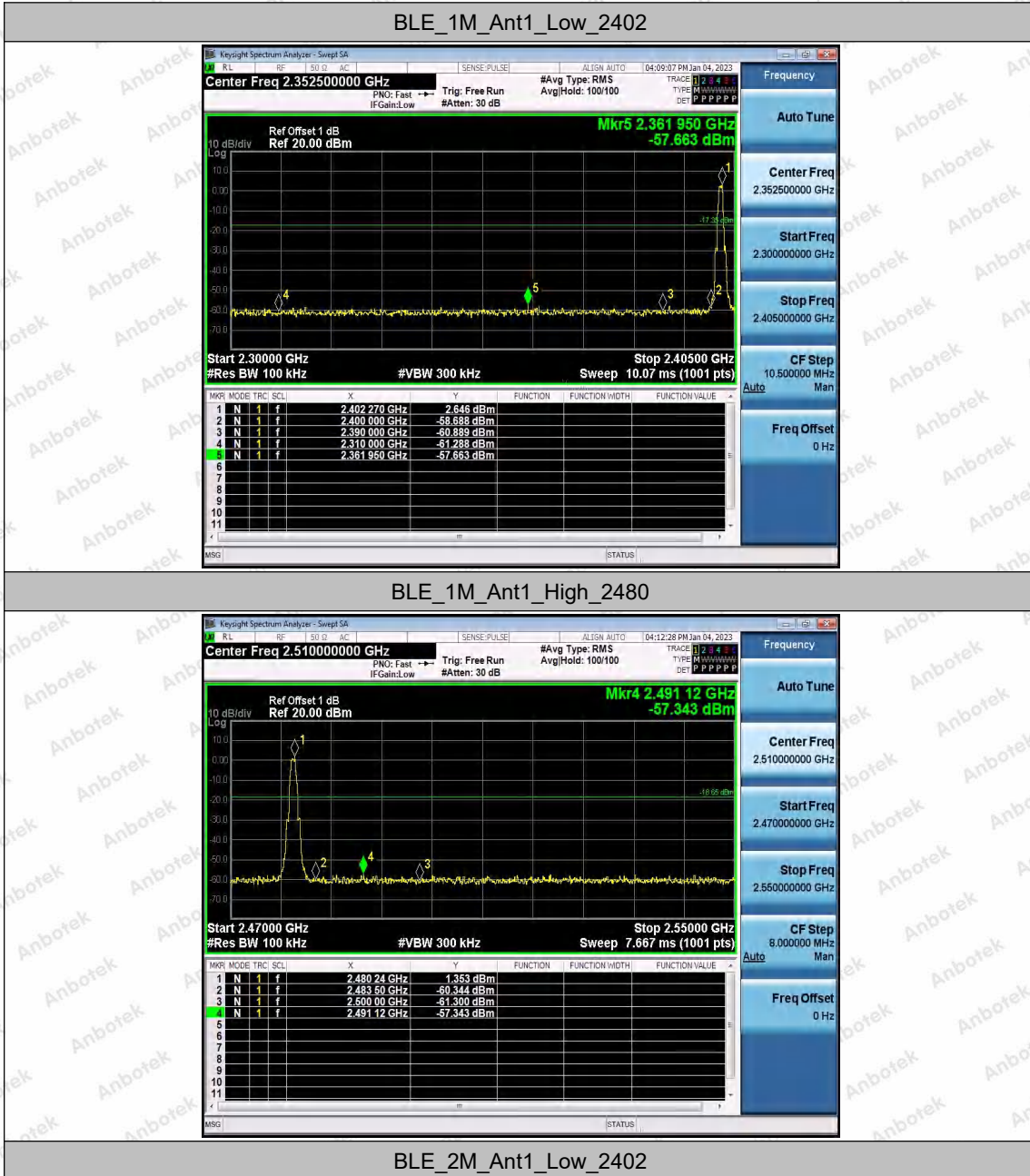
## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | Channel | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low     | 2402           | 2.65          | -57.66      | ≤-17.35    | PASS    |
|          |         | High    | 2480           | 1.35          | -57.34      | ≤-18.65    | PASS    |
| BLE_2M   | Ant1    | Low     | 2402           | 1.58          | -33.39      | ≤-18.42    | PASS    |
|          |         | High    | 2480           | -1.84         | -57.03      | ≤-21.84    | PASS    |



## Test Graphs

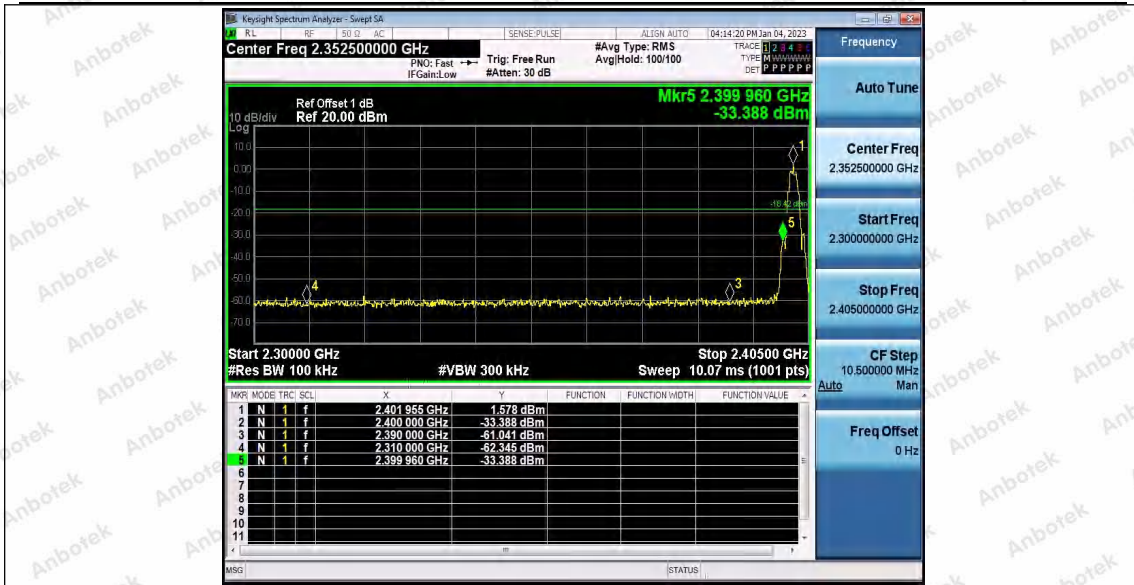


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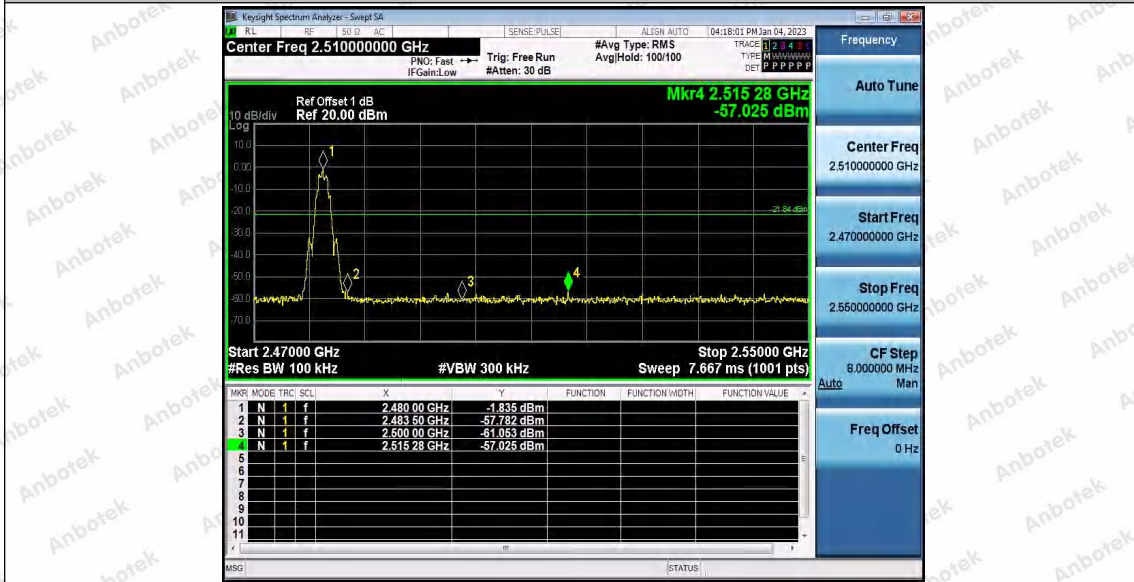
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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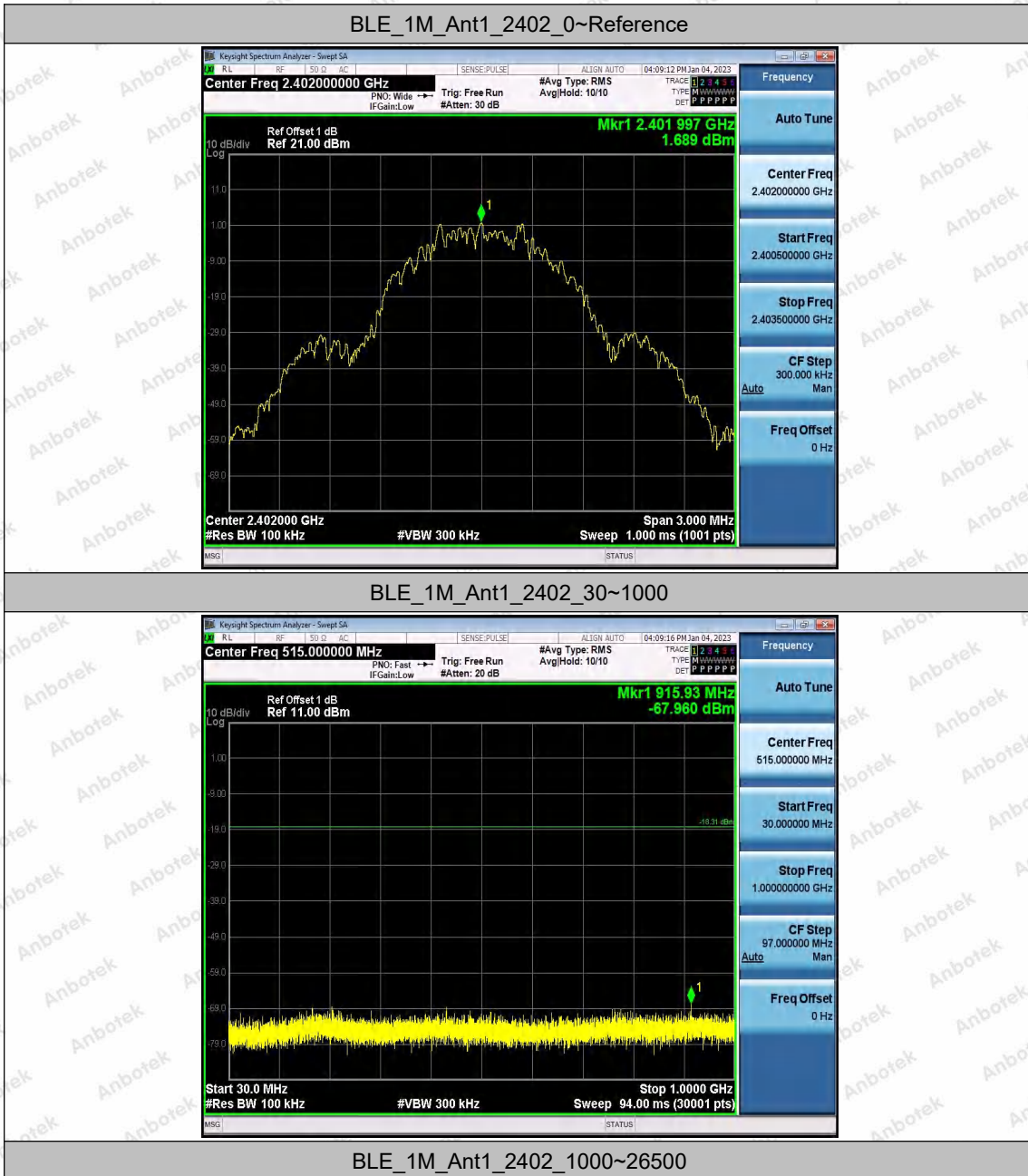
## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402           | Reference       | 1.69           | 1.69        | ---        | PASS    |
|          |         |                | 30~1000         | 1.69           | -67.96      | ≤-18.31    | PASS    |
|          |         |                | 1000~26500      | 1.69           | -53.09      | ≤-18.31    | PASS    |
|          |         | 2440           | Reference       | -1.06          | -1.06       | ---        | PASS    |
|          |         |                | 30~1000         | -1.06          | -68.45      | ≤-21.06    | PASS    |
|          |         |                | 1000~26500      | -1.06          | -52.68      | ≤-21.06    | PASS    |
|          |         | 2480           | Reference       | 1.12           | 1.12        | ---        | PASS    |
|          |         |                | 30~1000         | 1.12           | -65.88      | ≤-18.88    | PASS    |
|          |         |                | 1000~26500      | 1.12           | -53.1       | ≤-18.88    | PASS    |
| BLE_2M   | Ant1    | 2402           | Reference       | 0.71           | 0.71        | ---        | PASS    |
|          |         |                | 30~1000         | 0.71           | -68.49      | ≤-19.29    | PASS    |
|          |         |                | 1000~26500      | 0.71           | -53.1       | ≤-19.29    | PASS    |
|          |         | 2440           | Reference       | -3.67          | -3.67       | ---        | PASS    |
|          |         |                | 30~1000         | -3.67          | -69.04      | ≤-23.67    | PASS    |
|          |         |                | 1000~26500      | -3.67          | -52.38      | ≤-23.67    | PASS    |
|          |         | 2480           | Reference       | -4.28          | -4.28       | ---        | PASS    |
|          |         |                | 30~1000         | -4.28          | -68.5       | ≤-24.28    | PASS    |
|          |         |                | 1000~26500      | -4.28          | -52.89      | ≤-24.28    | PASS    |



## Test Graphs

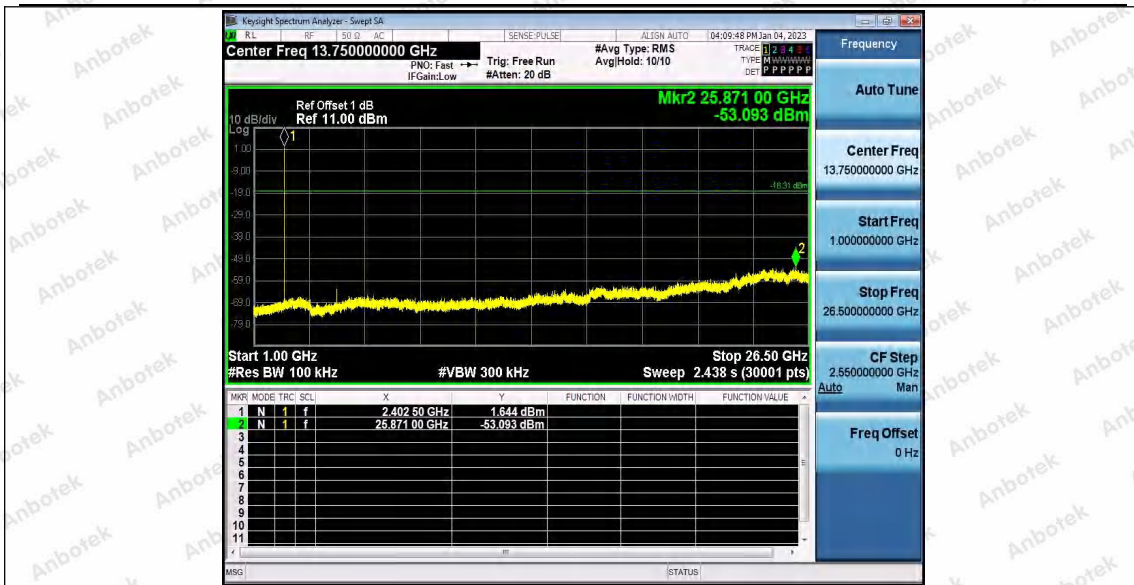


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BLE\_1M\_Ant1\_2440\_0~Reference



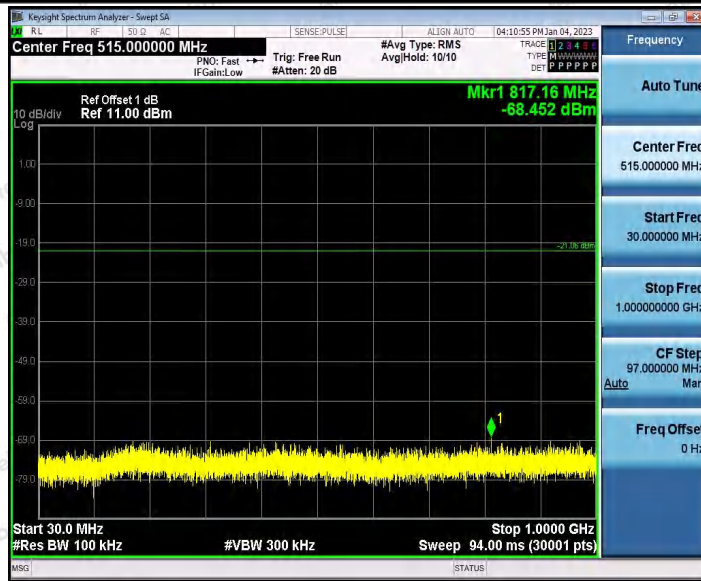
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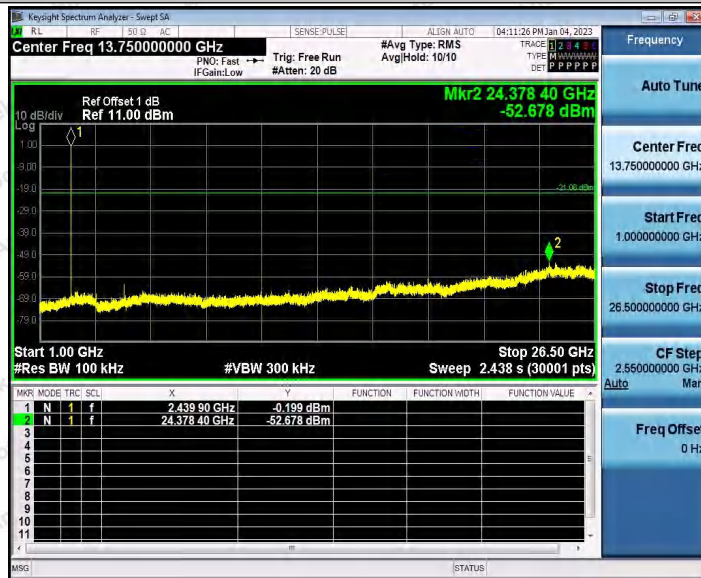
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BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference

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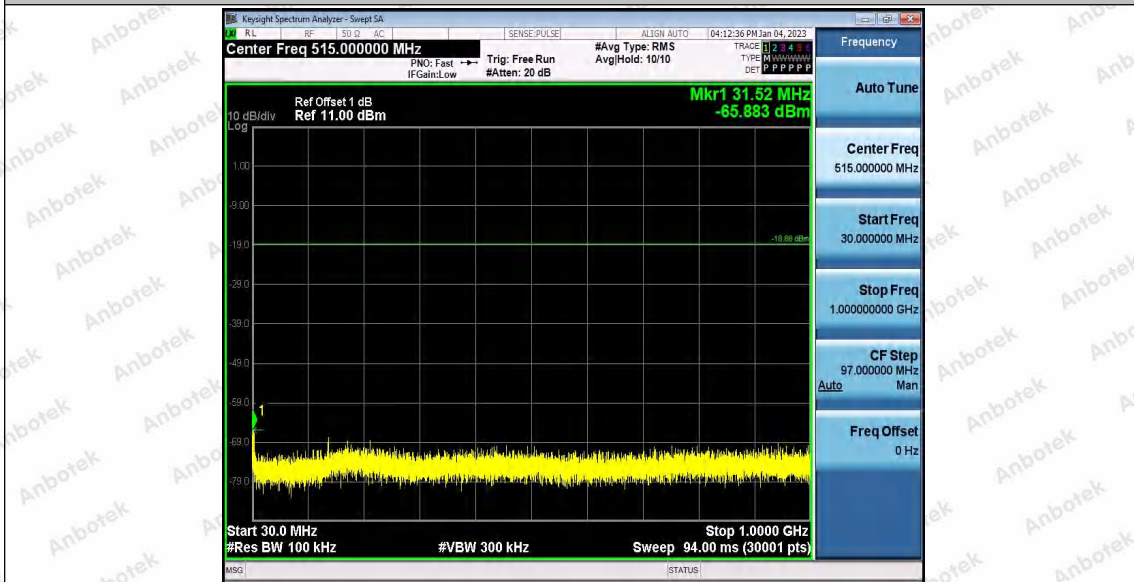
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BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500

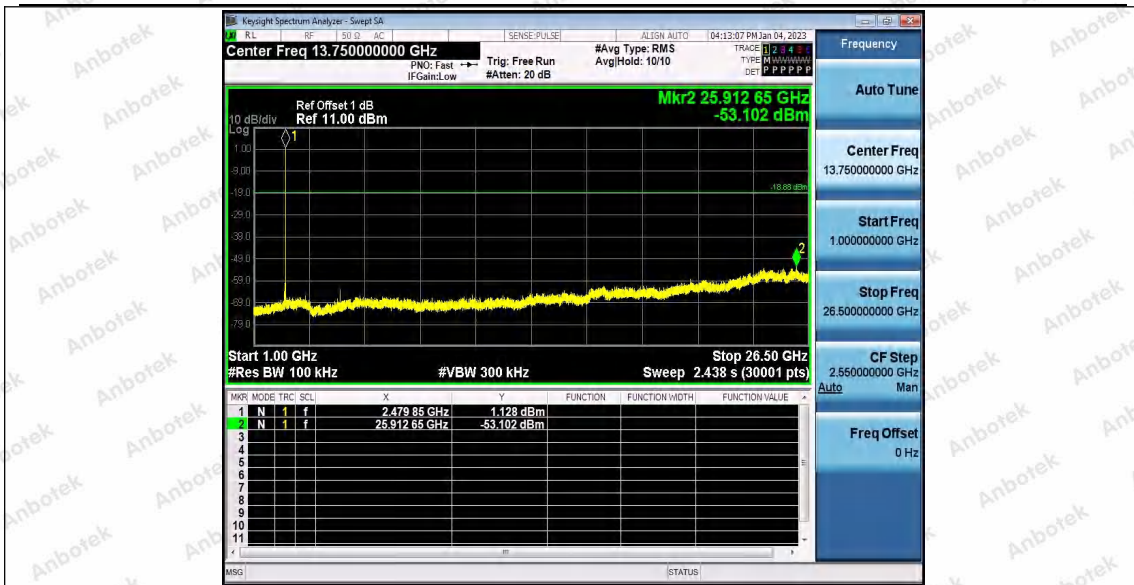
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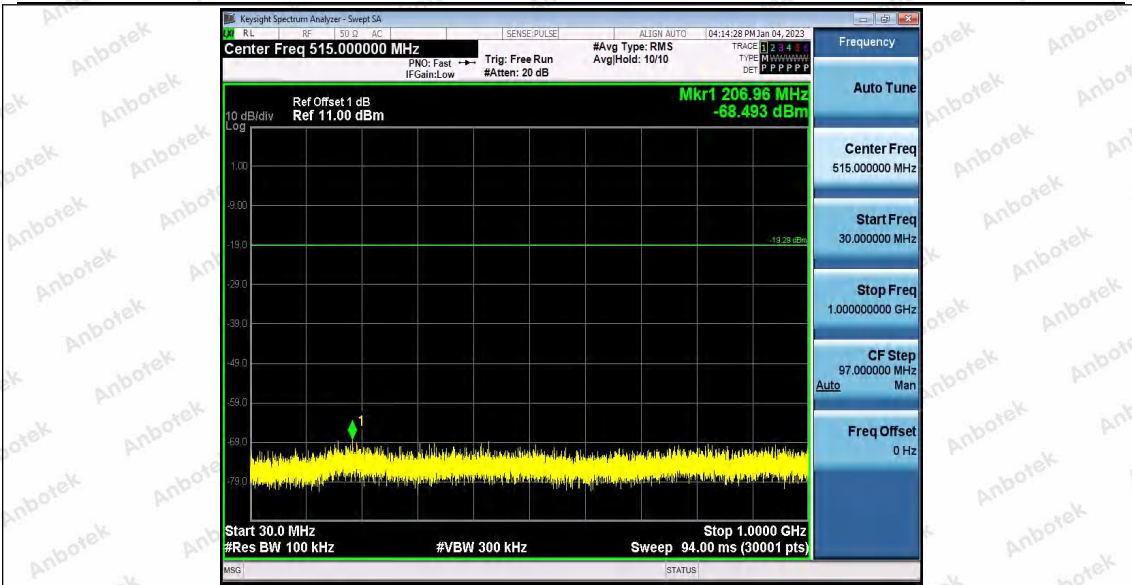
BLE\_2M\_Ant1\_2402\_30~100

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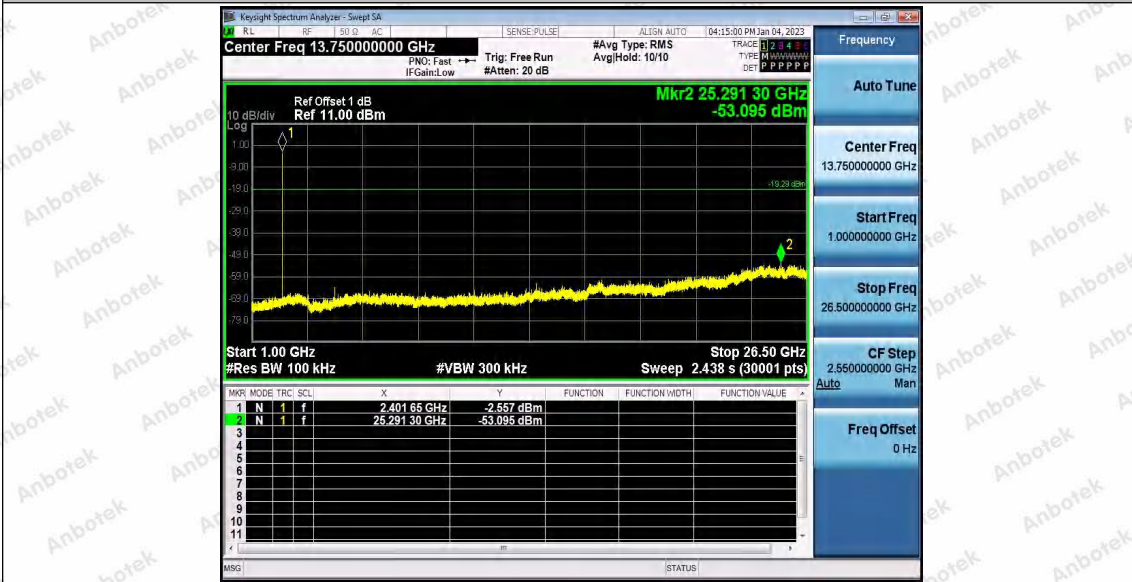
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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BLE\_2M\_Ant1\_2402\_1000~26500

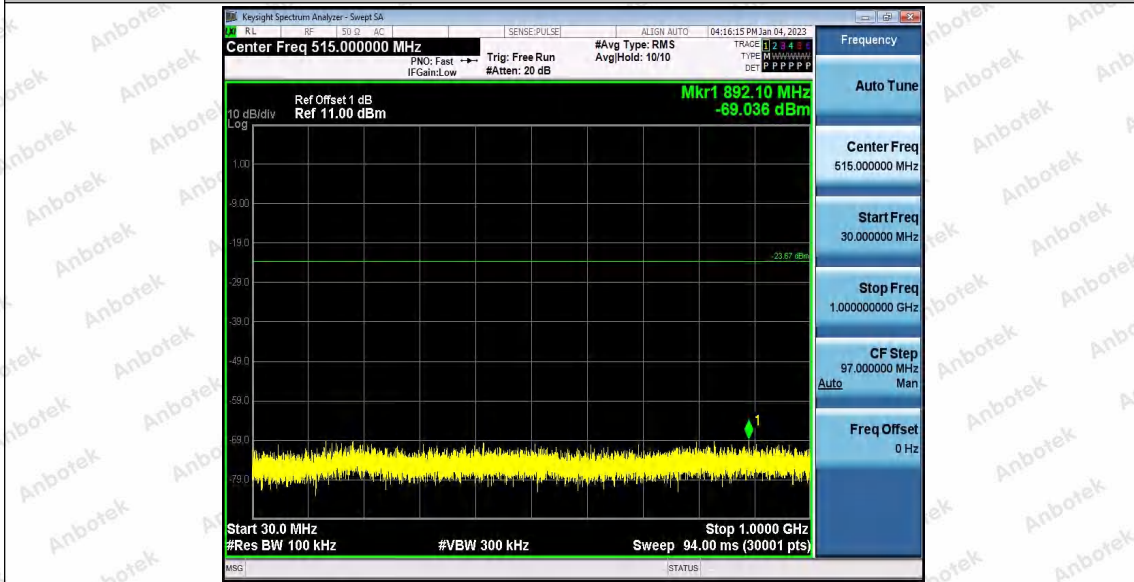


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BLE\_2M\_Ant1\_2440\_30~1000



BLE\_2M\_Ant1\_2440\_1000~26500

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BLE\_2M\_Ant1\_2480\_0~Reference



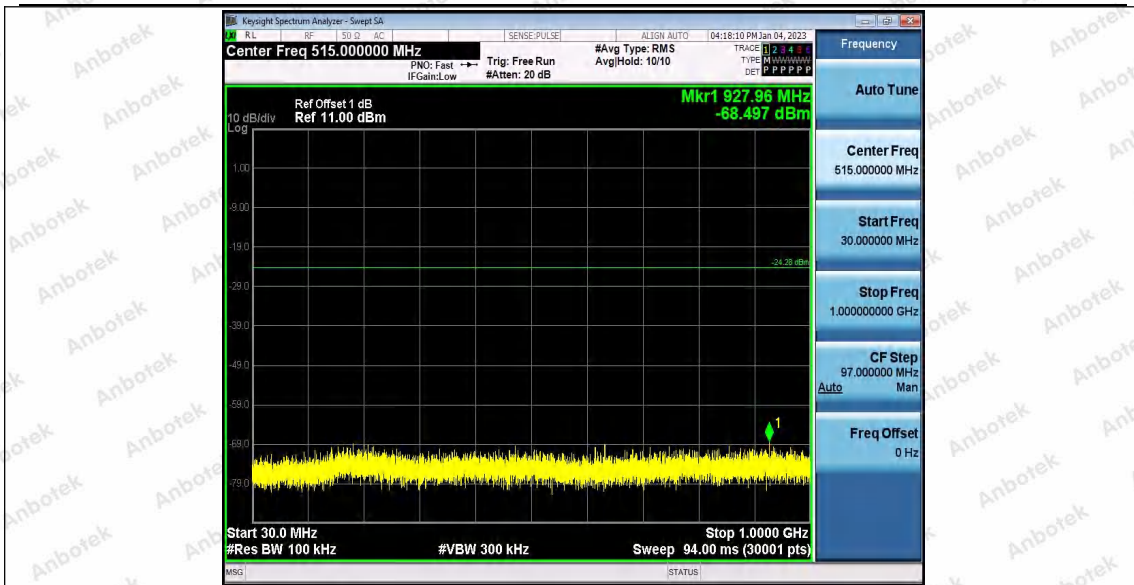
BLE\_2M\_Ant1\_2480\_30~1000

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## Appendix G: Duty Cycle

### Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|----------|---------|----------------|--------------|-------------|----------------|-----------------------|
| BLE_1M   | Ant1    | 2402           | 0.39         | 0.63        | 61.90          | 2.08                  |
|          |         | 2440           | 0.39         | 0.63        | 61.90          | 2.08                  |
|          |         | 2480           | 0.39         | 0.63        | 61.90          | 2.08                  |
| BLE_2M   | Ant1    | 2402           | 0.20         | 0.63        | 31.75          | 4.98                  |
|          |         | 2440           | 0.20         | 0.63        | 31.75          | 4.98                  |
|          |         | 2480           | 0.20         | 0.63        | 31.75          | 4.98                  |

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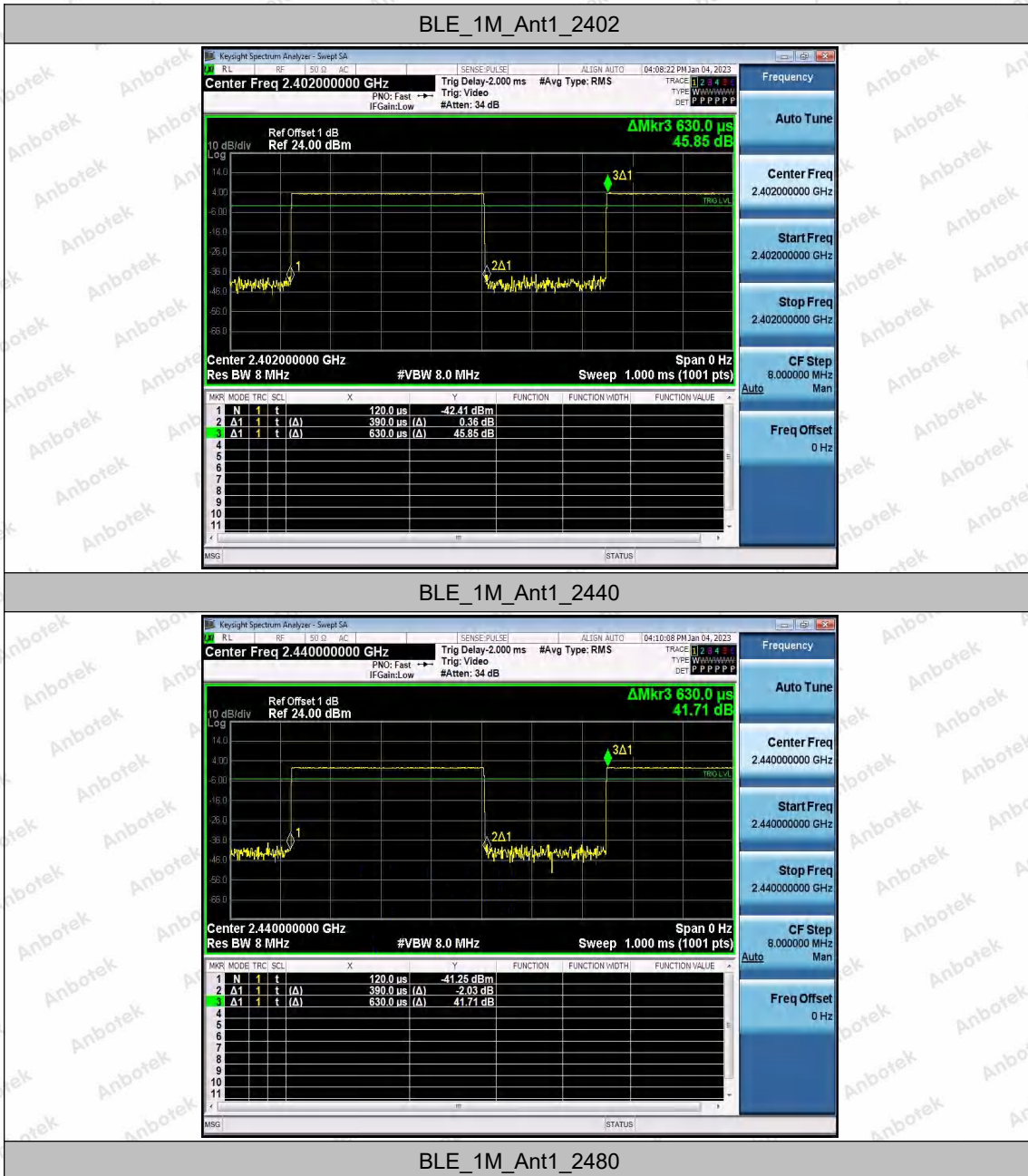
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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## Test Graphs

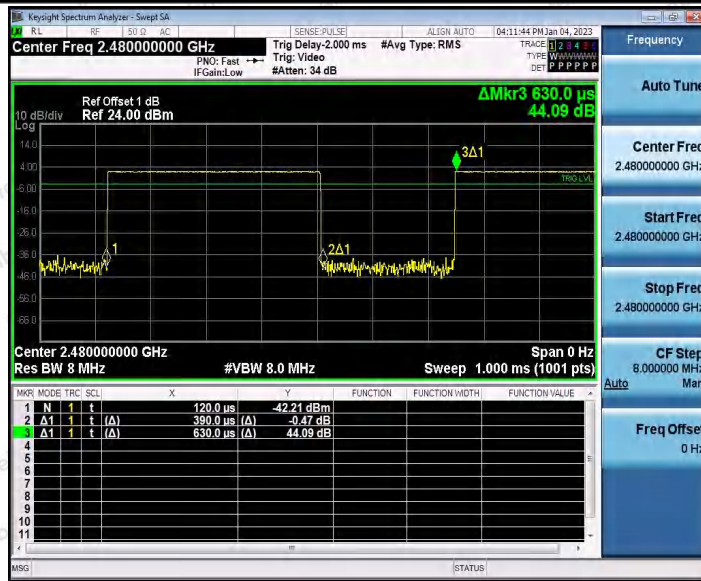


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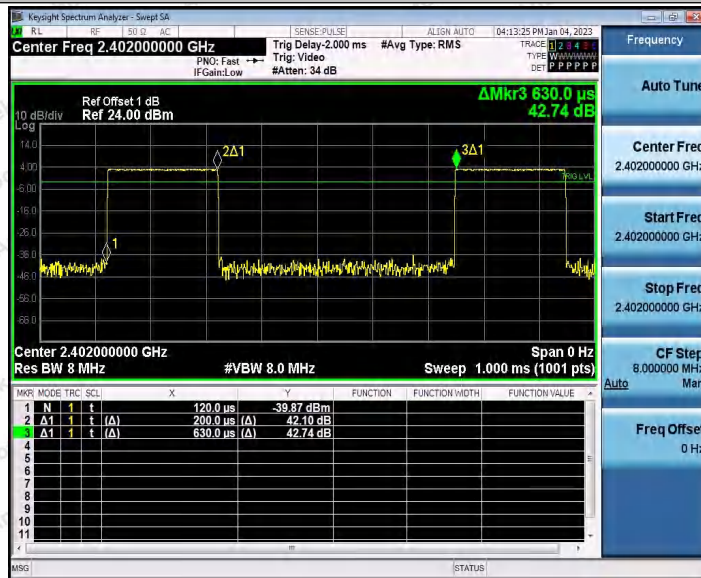
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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BLE\_2M\_Ant1\_2440

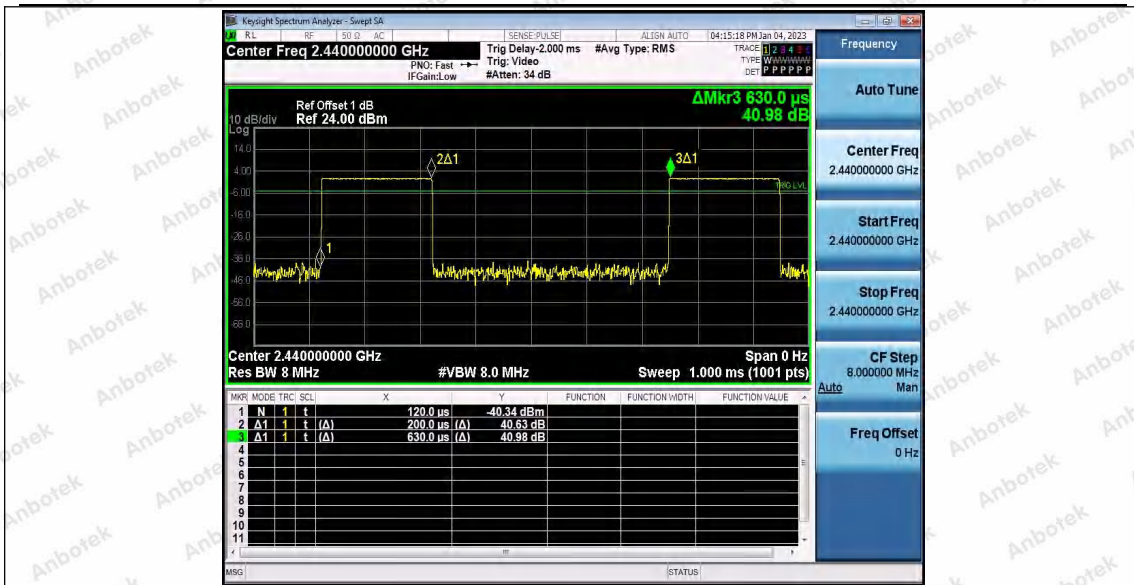
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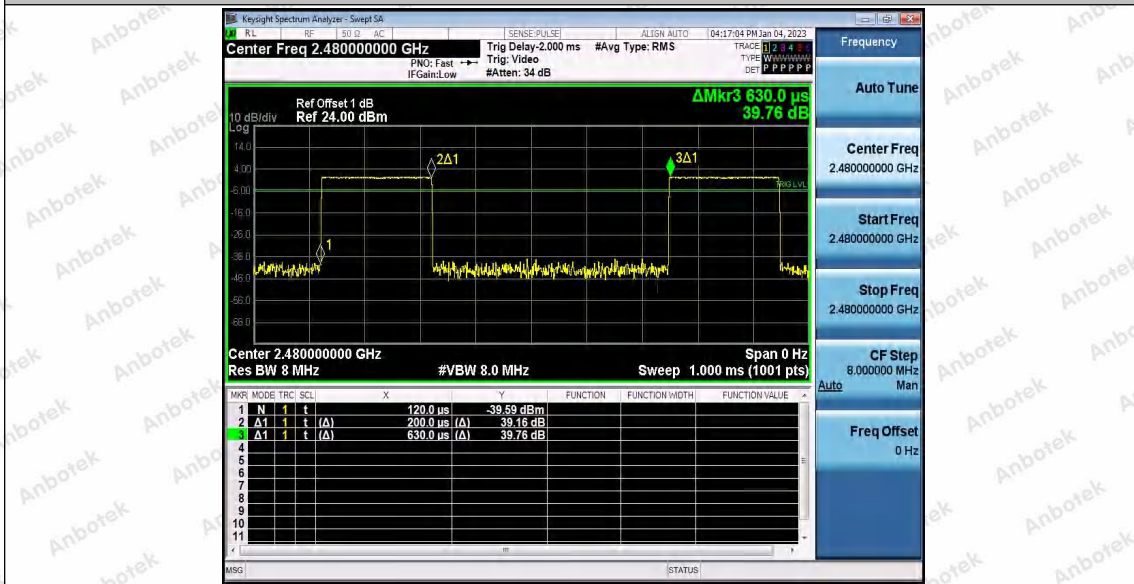
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---End---

