

## Appendix Test Data

|                  |                 |                    |           |
|------------------|-----------------|--------------------|-----------|
| Report No.:      | 18220WC40004401 | Test Sample No.:   | 1-2-2     |
| Start Test Date: | 2024.1.12       | Finish Test Date:  | 2024.1.17 |
| Test Engineer:   | Hayman Chen     | Auditor:           | Rick Luo  |
| Temperature:     | 25.2°C          | Relative Humidity: | 45%       |
| 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           | 1.256        | 2401.500 | 2402.756 | 0.5        | PASS    |
|          |         | 2440           | 1.228        | 2439.568 | 2440.796 | 0.5        | PASS    |
|          |         | 2480           | 1.308        | 2479.452 | 2480.760 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2402           | 1.208        | 2401.568 | 2402.776 | 0.5        | PASS    |
|          |         | 2440           | 1.336        | 2439.468 | 2440.804 | 0.5        | PASS    |
|          |         | 2480           | 1.264        | 2479.532 | 2480.796 | 0.5        | PASS    |



## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

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



Hotline  
400-003-0500  
www.anbotek.com.cn





BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440





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



Hotline  
 400-003-0500  
 www.anbotek.com.cn



## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|----------|---------|----------------|-----------|-----------|-----------|
| BLE_1M   | Ant1    | 2402           | 2.1126    | 2401.0703 | 2403.1829 |
|          |         | 2440           | 2.1056    | 2439.0722 | 2441.1778 |
|          |         | 2480           | 2.1068    | 2479.0680 | 2481.1748 |
| BLE_2M   | Ant1    | 2402           | 2.0811    | 2401.0645 | 2403.1456 |
|          |         | 2440           | 2.0696    | 2439.0909 | 2441.1605 |
|          |         | 2480           | 2.0663    | 2479.0912 | 2481.1575 |



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



Hotline

400-003-0500

www.anbotek.com.cn





BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440





BLE\_2M\_Ant1\_2480



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



Hotline  
400-003-0500  
www.anbotek.com.cn



## 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           | -3.18                     | ≤30                  | PASS    |
|          |         | 2480           | -4.72                     | ≤30                  | PASS    |
| BLE_2M   | Ant1    | 2402           | -2.78                     | ≤30                  | PASS    |
|          |         | 2440           | -3.15                     | ≤30                  | PASS    |
|          |         | 2480           | -3.28                     | ≤30                  | PASS    |



## Test Graphs Peak

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

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



Hotline  
400-003-0500  
www.anbotek.com.cn





BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

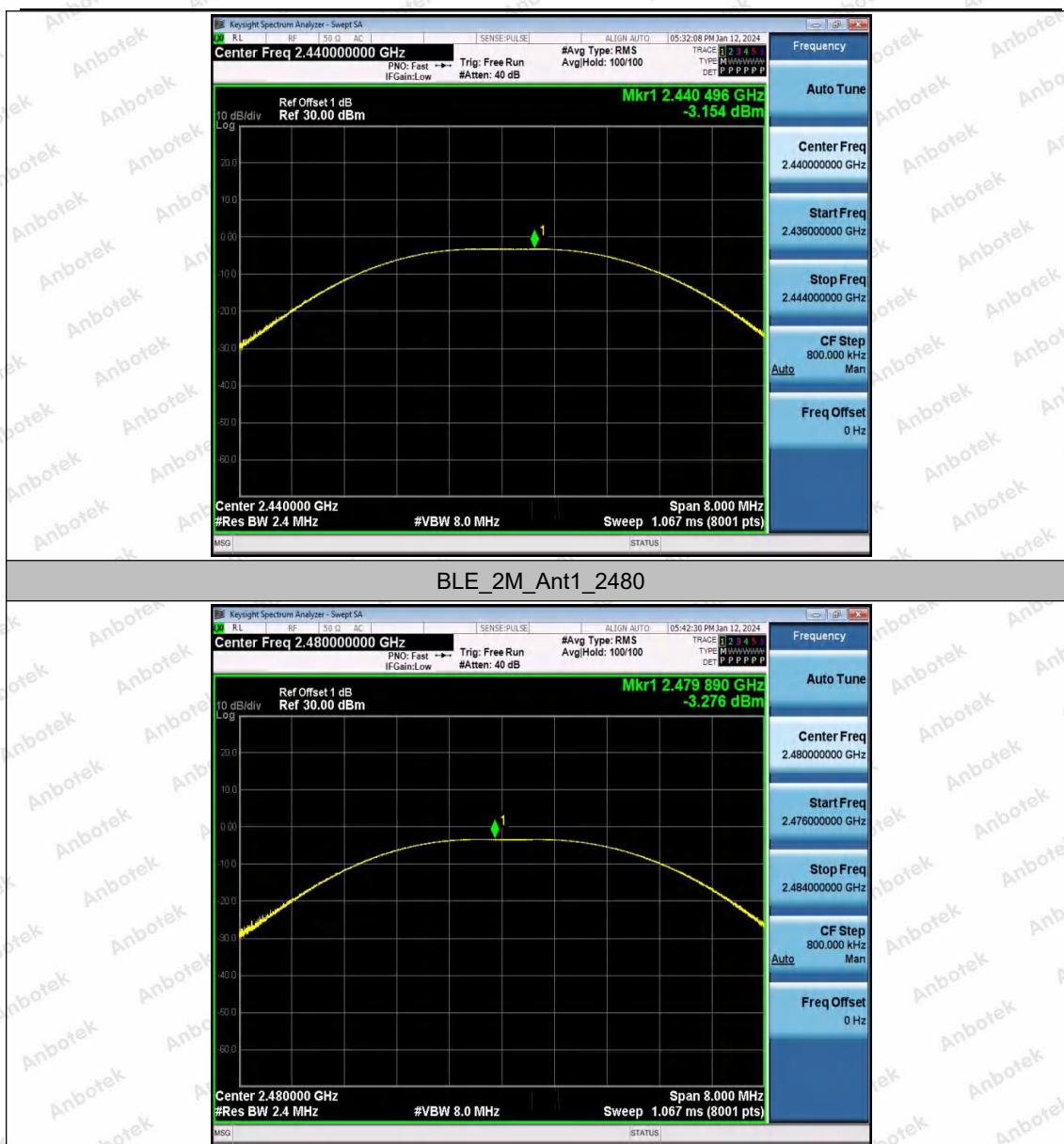
**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com.cn





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



Hotline  
400-003-0500  
www.anbotek.com.cn



## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -17.99           | ≤8.00           | PASS    |
|          |         | 2440           | -19.36           | ≤8.00           | PASS    |
|          |         | 2480           | -20.21           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2402           | -18.42           | ≤8.00           | PASS    |
|          |         | 2440           | -17.61           | ≤8.00           | PASS    |
|          |         | 2480           | -19.39           | ≤8.00           | PASS    |



## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

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



Hotline  
400-003-0500  
www.anbotek.com.cn





BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

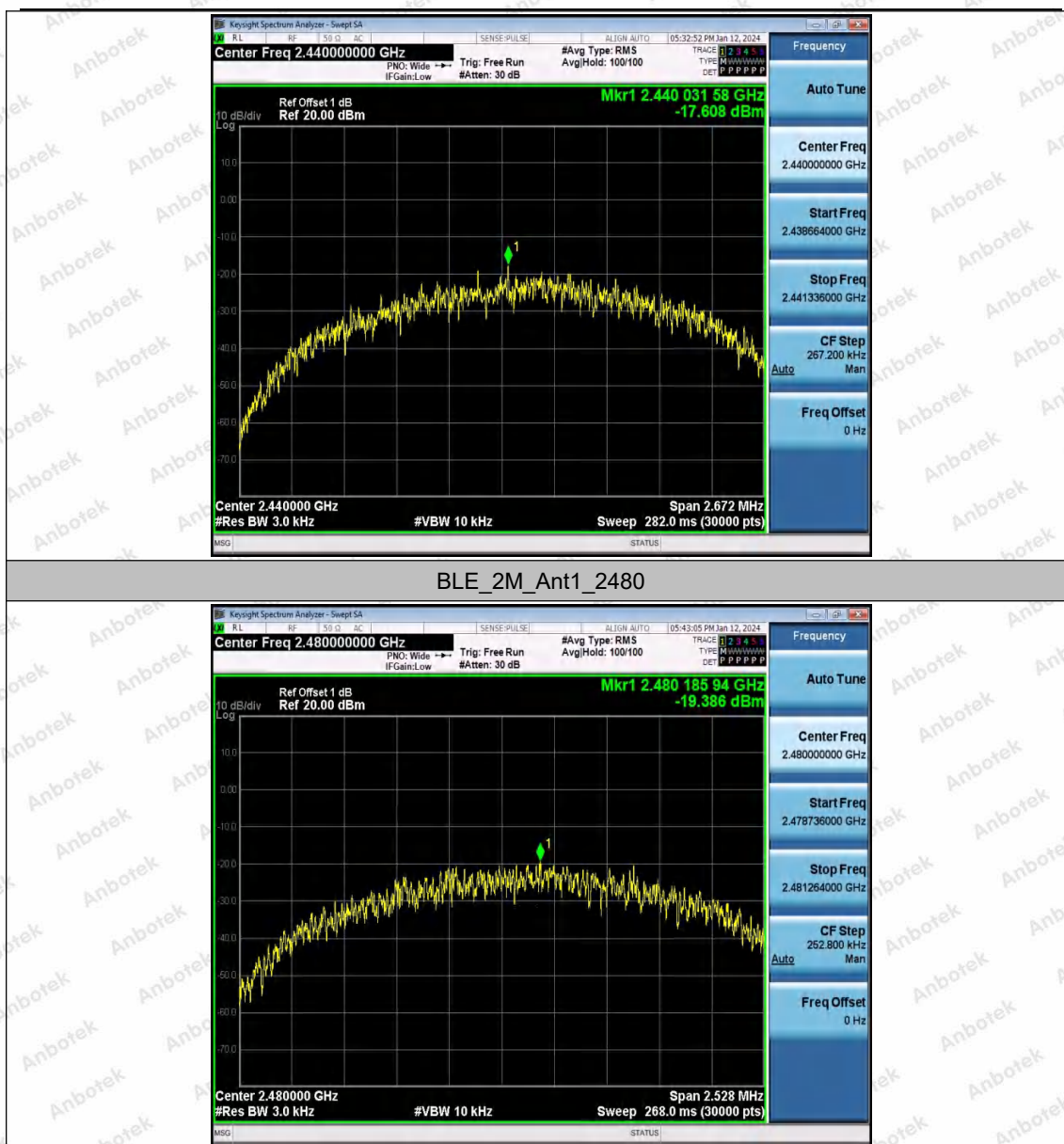
**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com.cn



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



Hotline  
400-003-0500  
www.anbotek.com.cn



## Appendix E: Band edge measurements

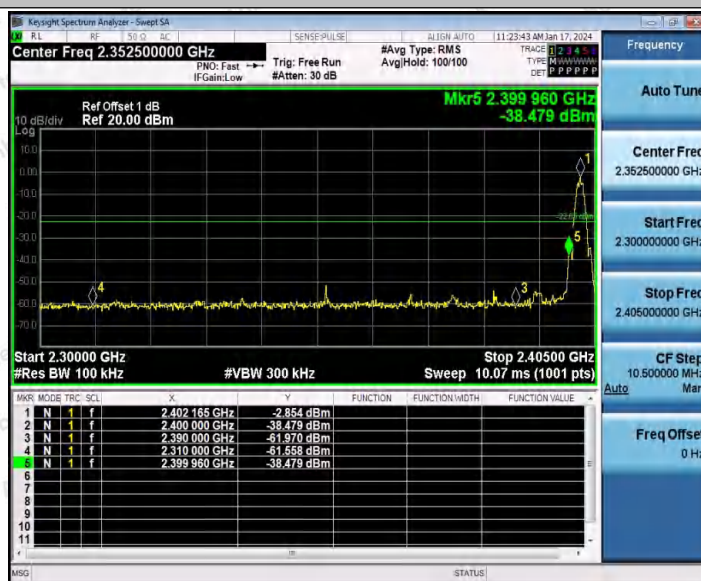
### Test Result

| TestMode | Antenna | Channel | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low     | 2402           | -2.85         | -38.48      | ≤-22.85    | PASS    |
|          |         | High    | 2480           | -6.80         | -55.44      | ≤-26.8     | PASS    |
| BLE_2M   | Ant1    | Low     | 2402           | -5.70         | -40.4       | ≤-25.7     | PASS    |
|          |         | High    | 2480           | -5.37         | -53.46      | ≤-25.37    | PASS    |

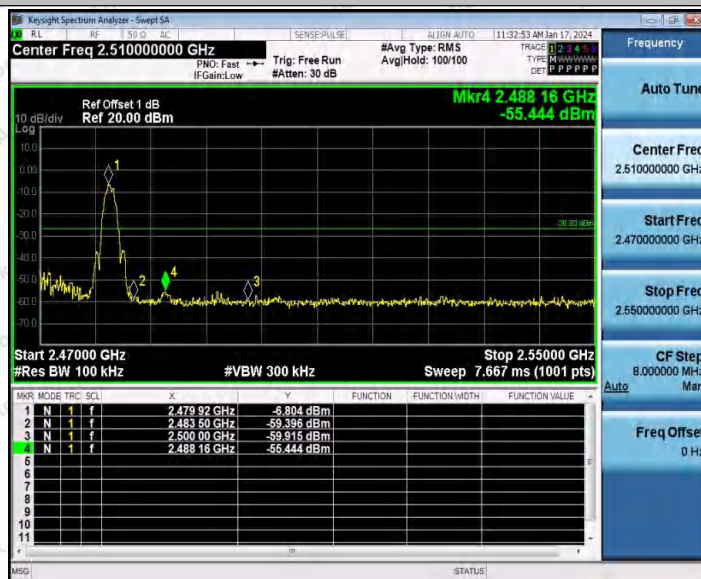


## Test Graphs

BLE\_1M\_Ant1\_Low\_2402



BLE\_1M\_Ant1\_High\_2480



BLE\_2M\_Ant1\_Low\_2402

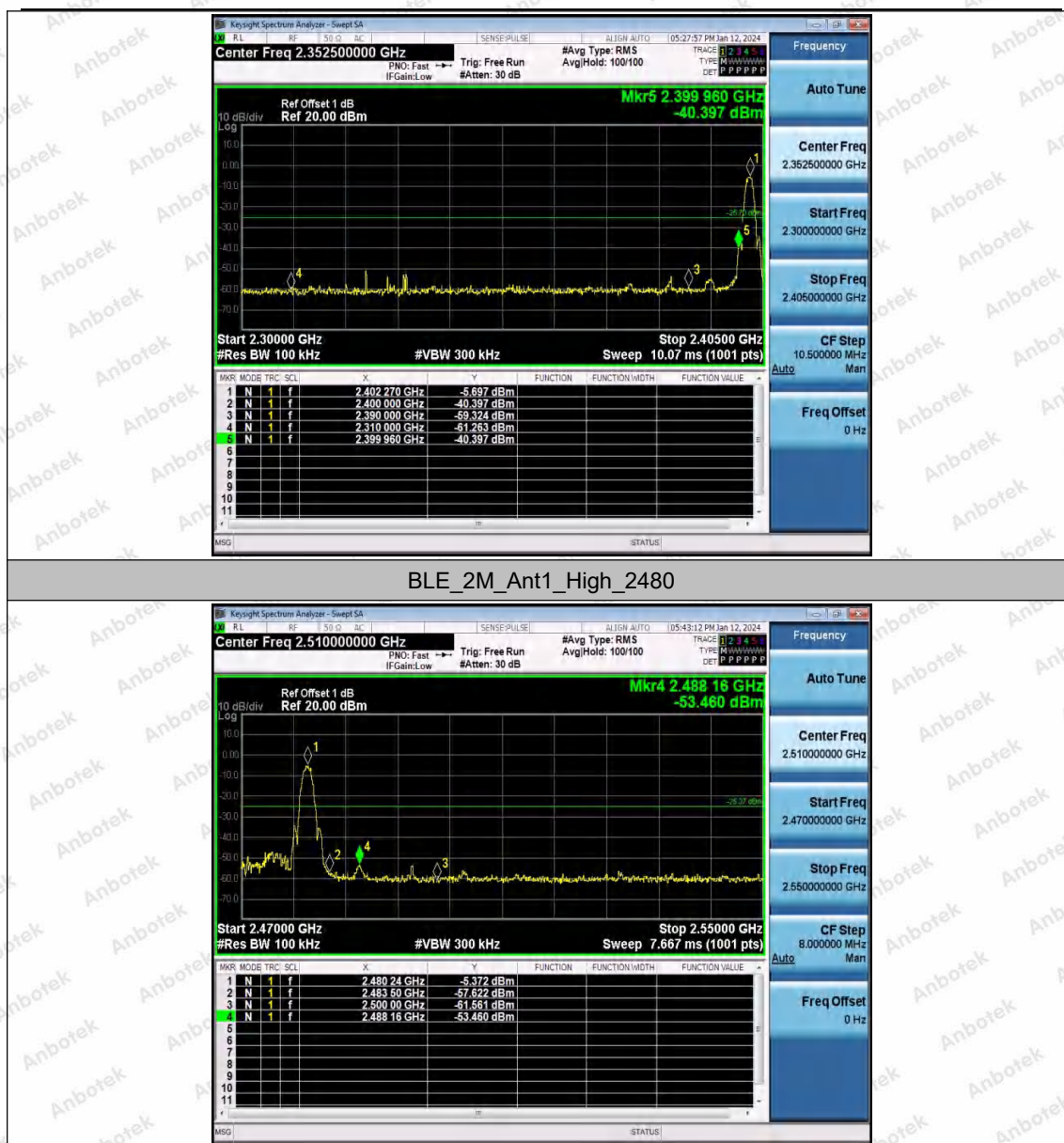
## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com.cn





## 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.

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



Hotline

400-003-0500

www.anbotek.com.cn



## 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       | -4.89          | -4.89       | ---        | PASS    |
|          |         |                | 30~1000         | -4.89          | -68.89      | ≤-24.89    | PASS    |
|          |         |                | 1000~26500      | -4.89          | -38.02      | ≤-24.89    | PASS    |
|          |         | 2440           | Reference       | -6.00          | -6.00       | ---        | PASS    |
|          |         |                | 30~1000         | -6.00          | -69.2       | ≤-26       | PASS    |
|          |         |                | 1000~26500      | -6.00          | -40.77      | ≤-26       | PASS    |
|          |         | 2480           | Reference       | -7.89          | -7.89       | ---        | PASS    |
|          |         |                | 30~1000         | -7.89          | -68.88      | ≤-27.89    | PASS    |
|          |         |                | 1000~26500      | -7.89          | -43.04      | ≤-27.89    | PASS    |
| BLE_2M   | Ant1    | 2402           | Reference       | -5.69          | -5.69       | ---        | PASS    |
|          |         |                | 30~1000         | -5.69          | -38.05      | ≤-25.69    | PASS    |
|          |         |                | 1000~26500      | -5.69          | -40.43      | ≤-25.69    | PASS    |
|          |         | 2440           | Reference       | -6.74          | -6.74       | ---        | PASS    |
|          |         |                | 30~1000         | -6.74          | -35.87      | ≤-26.74    | PASS    |
|          |         |                | 1000~26500      | -6.74          | -40.98      | ≤-26.74    | PASS    |
|          |         | 2480           | Reference       | -5.65          | -5.65       | ---        | PASS    |
|          |         |                | 30~1000         | -5.65          | -32.08      | ≤-25.65    | PASS    |
|          |         |                | 1000~26500      | -5.65          | -43.84      | ≤-25.65    | PASS    |

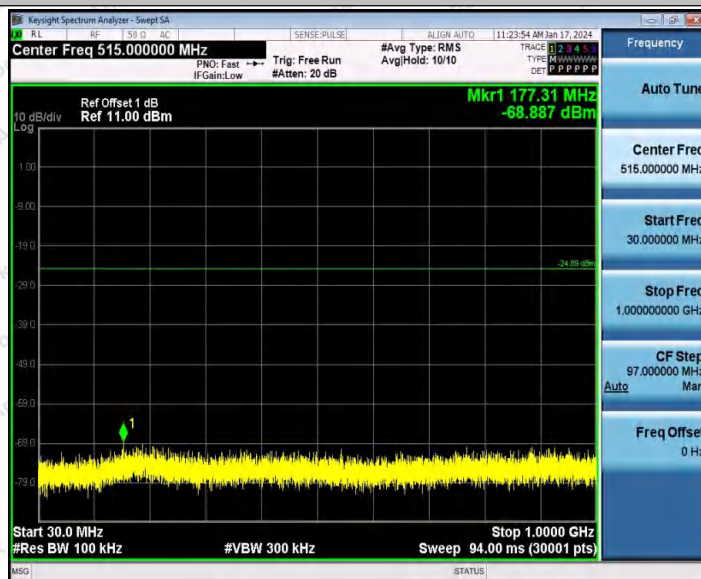


## Test Graphs

BLE\_1M\_Ant1\_2402\_0~Reference



BLE\_1M\_Ant1\_2402\_30~1000



BLE\_1M\_Ant1\_2402\_1000~26500

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

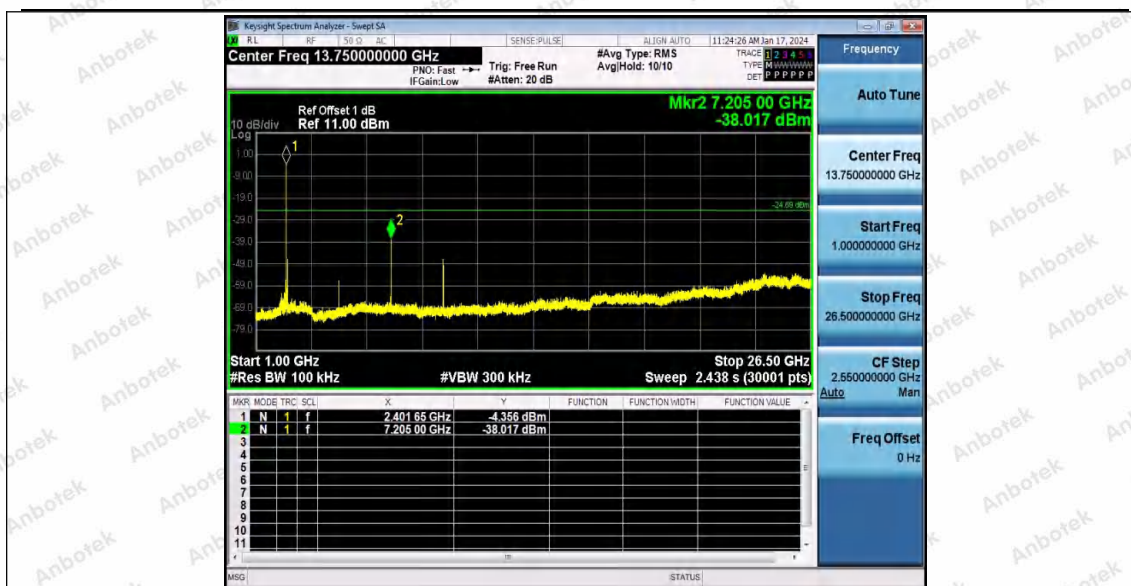


Hotline

400-003-0500

www.anbotek.com.cn



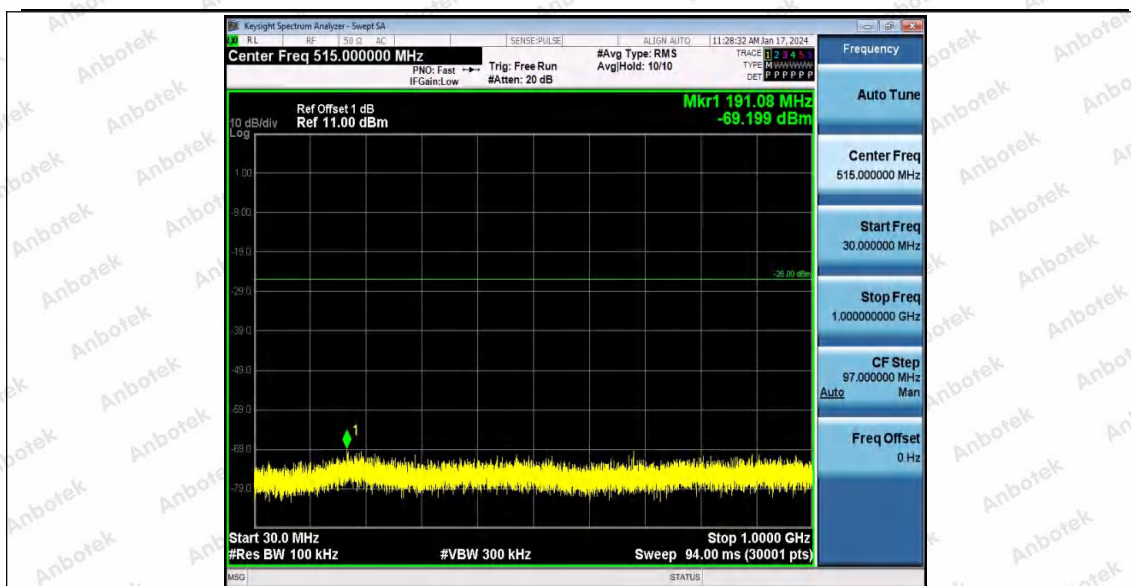


BLE\_1M\_Ant1\_2440\_0~Reference

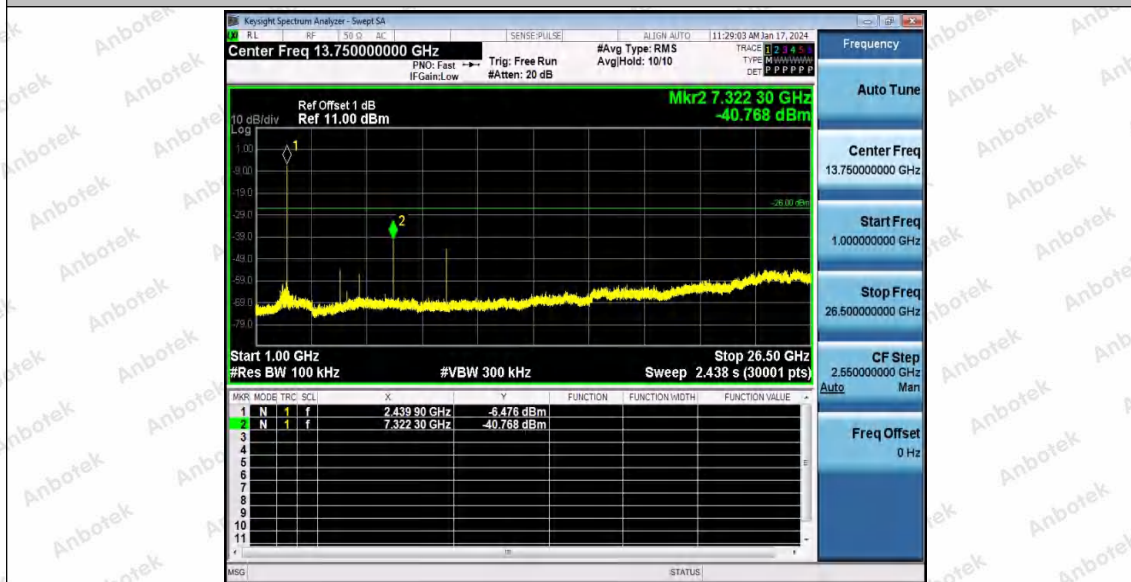


BLE\_1M\_Ant1\_2440\_30~1000



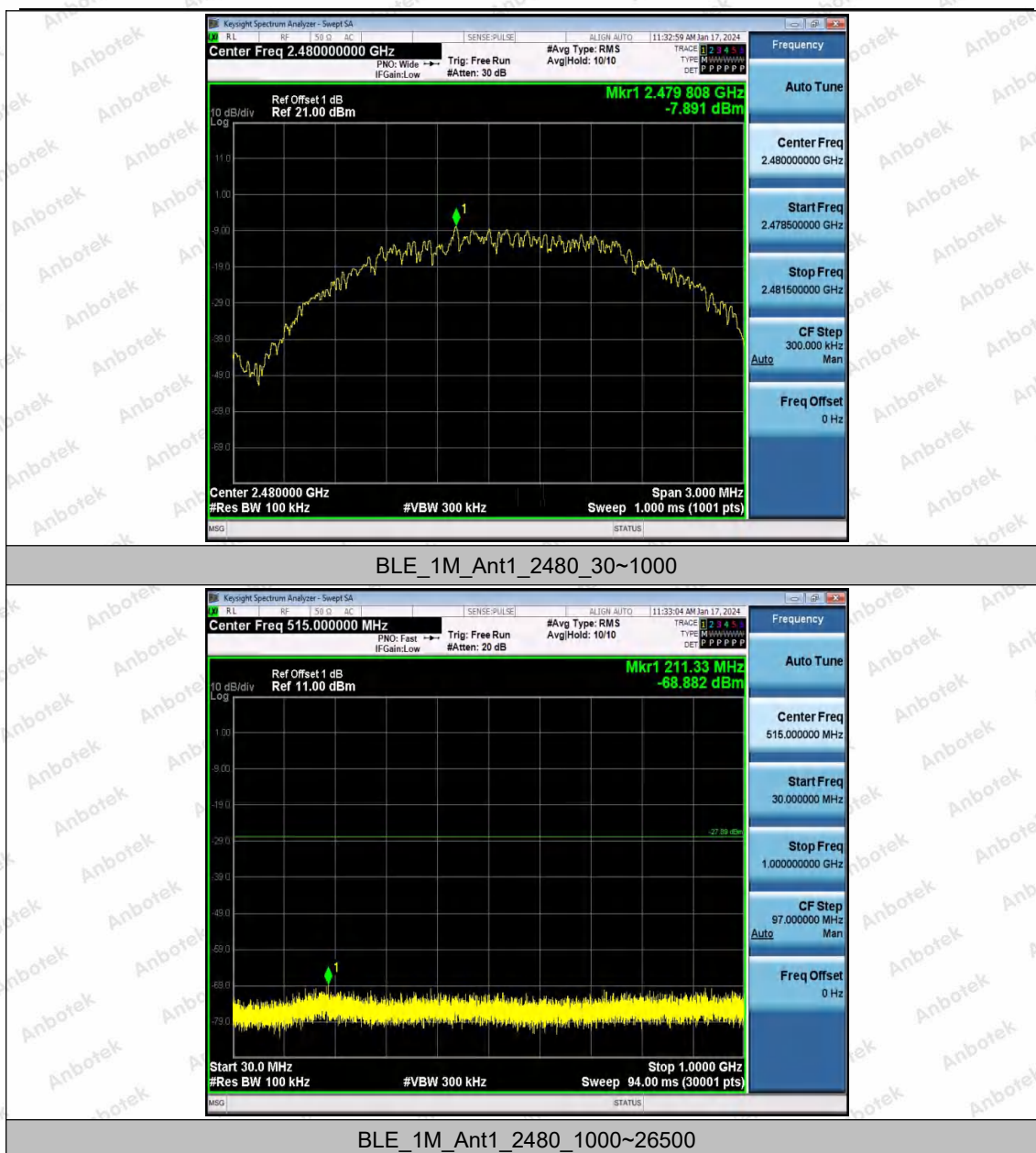


BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference



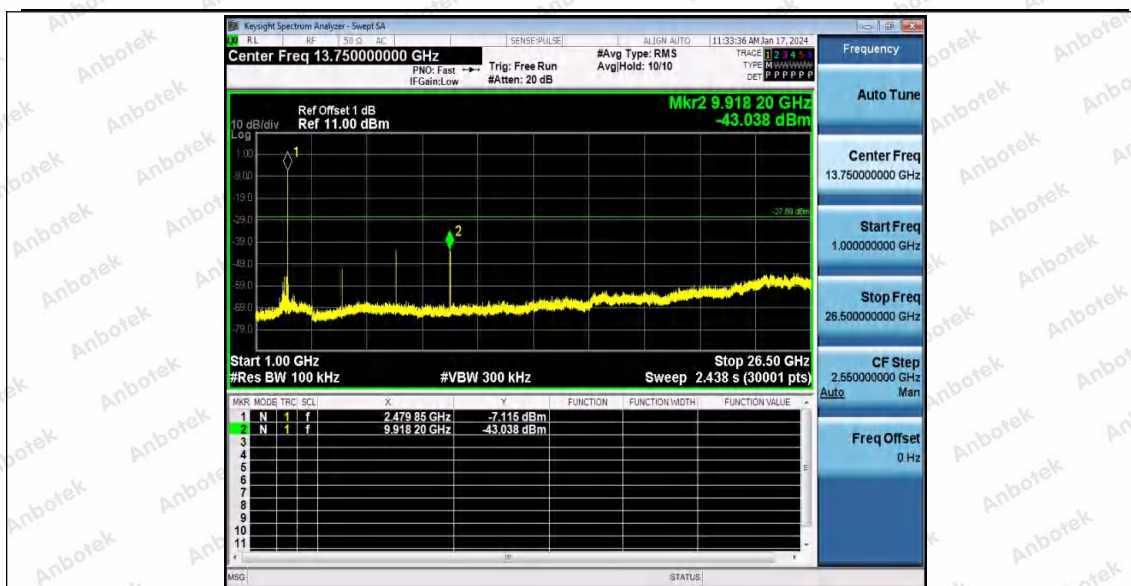
**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com.cn



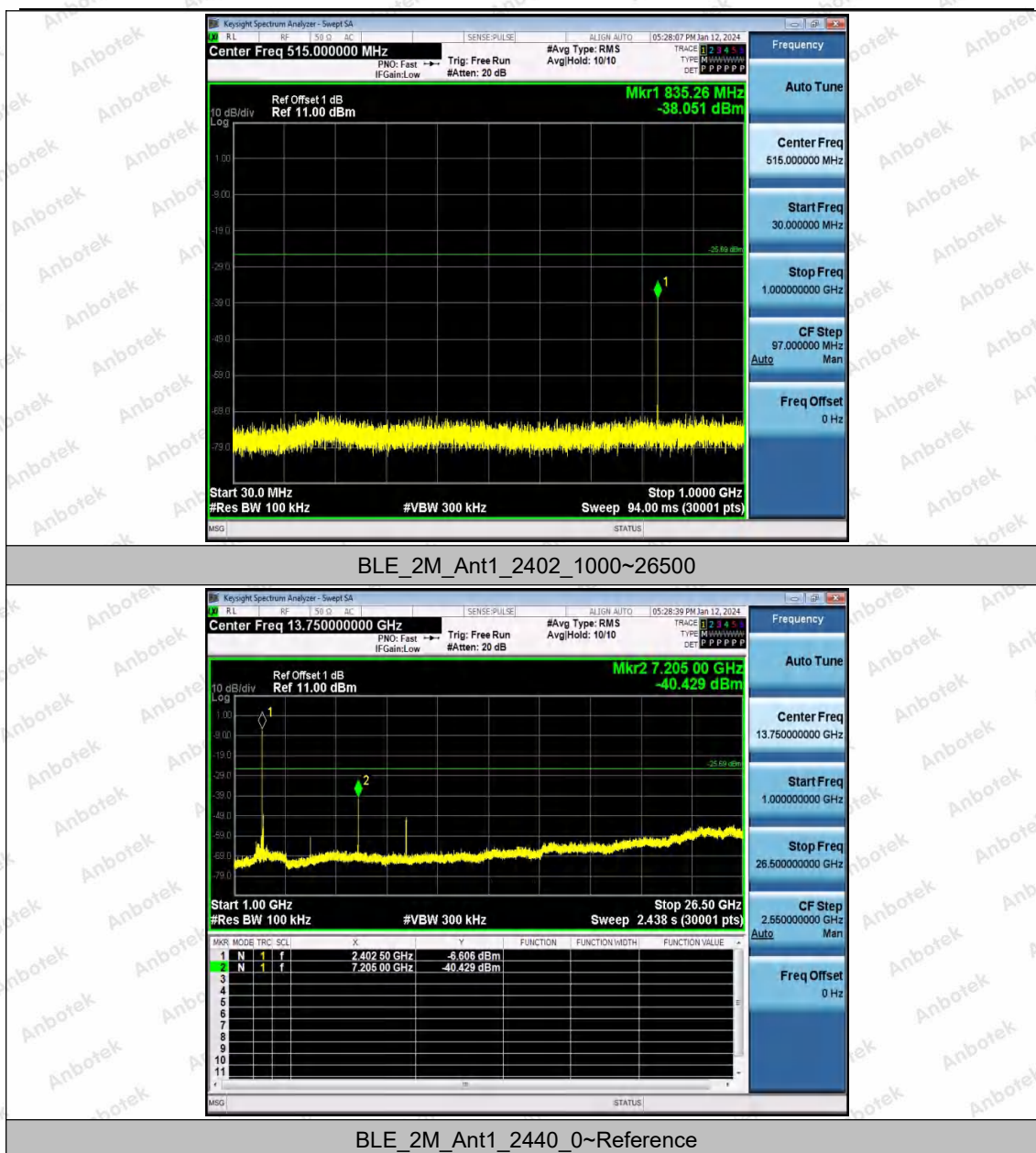


BLE\_2M\_Ant1\_2402\_0~Reference



BLE\_2M\_Ant1\_2402\_30~1000





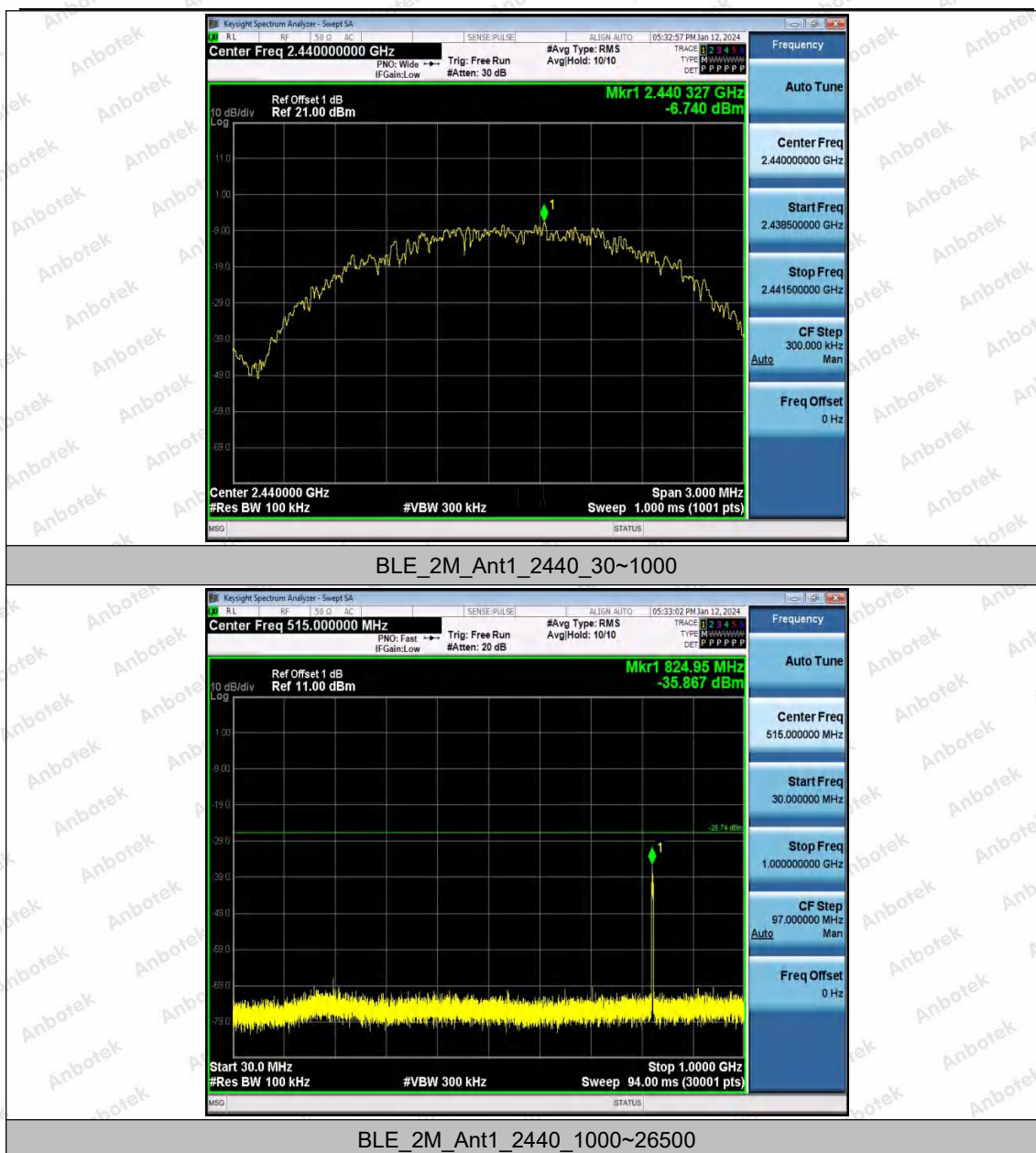
## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline  
 400-003-0500  
 www.anbotek.com.cn



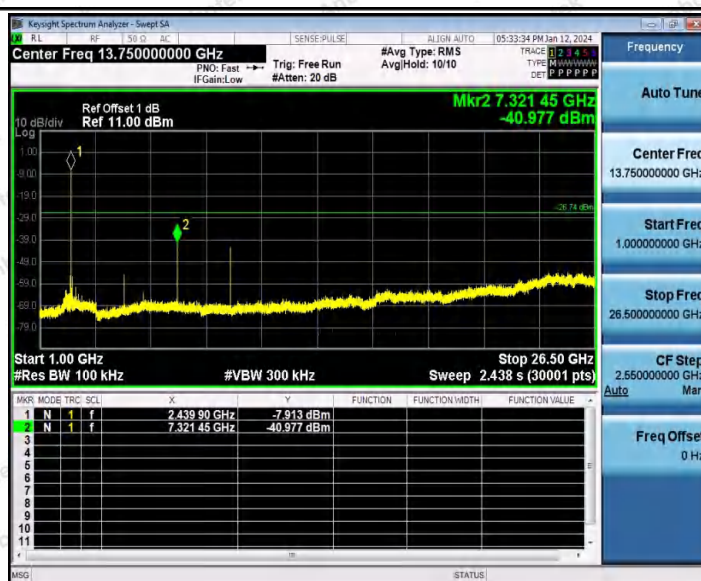
**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com.cn





BLE\_2M\_Ant1\_2480\_0~Reference



BLE\_2M\_Ant1\_2480\_30~1000

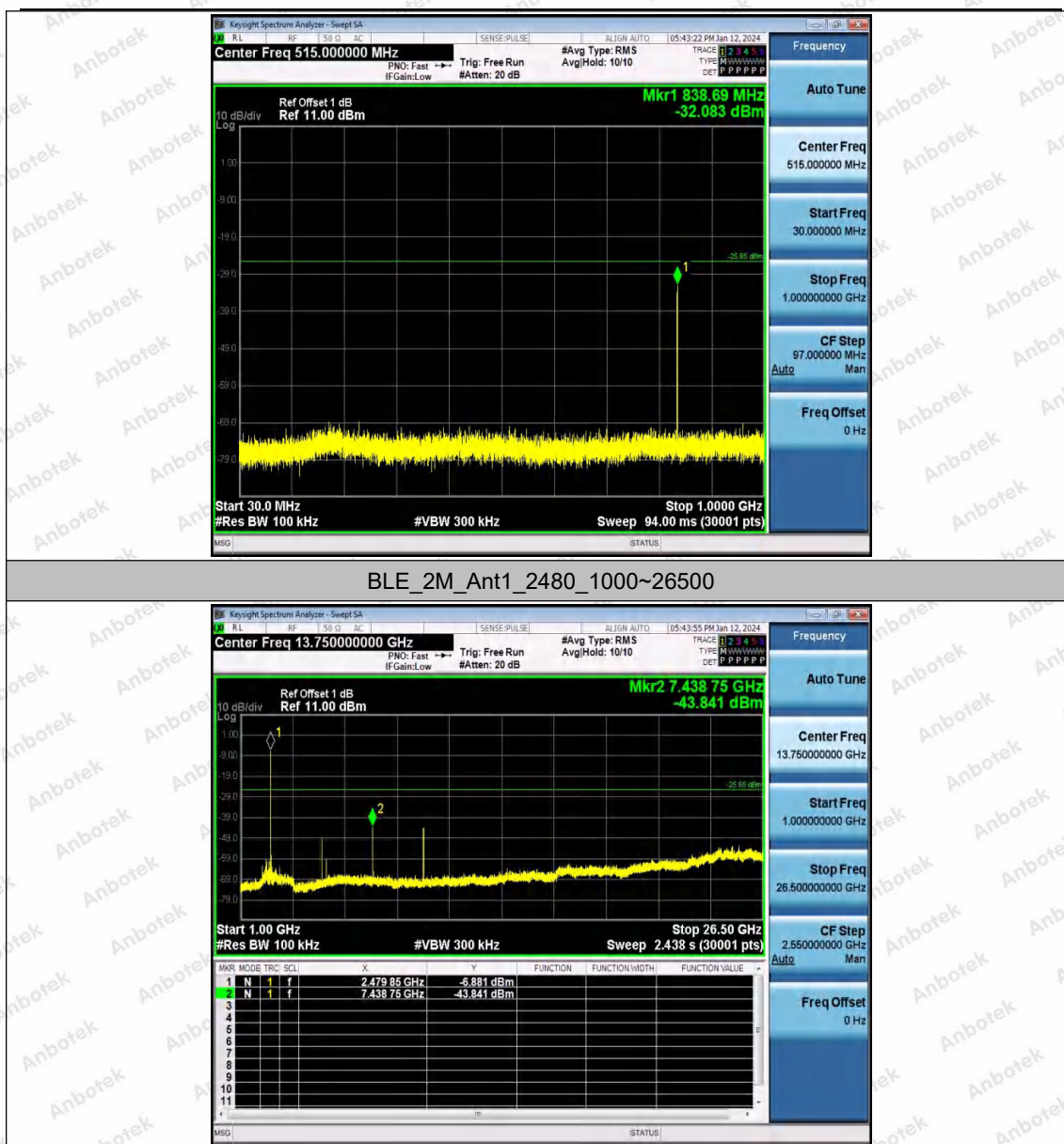
**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com.cn



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



Hotline  
400-003-0500  
www.anbotek.com.cn



## 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           | 19.00           | 19.00          | 100               | 0.00                     |
|          |         | 2440           | 19.00           | 19.00          | 100               | 0.00                     |
|          |         | 2480           | 19.00           | 19.00          | 100               | 0.00                     |
| BLE_2M   | Ant1    | 2402           | 19.00           | 19.00          | 100               | 0.00                     |
|          |         | 2440           | 19.00           | 19.00          | 100               | 0.00                     |
|          |         | 2480           | 19.00           | 19.00          | 100               | 0.00                     |



## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

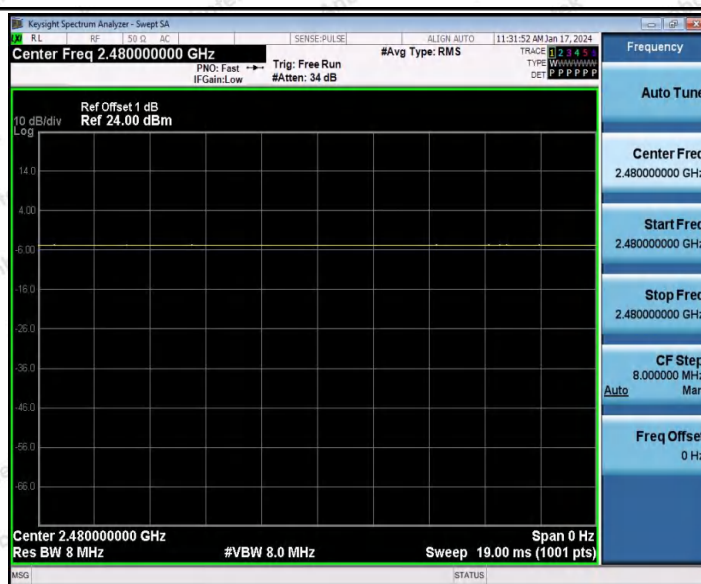
## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com.cn





BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

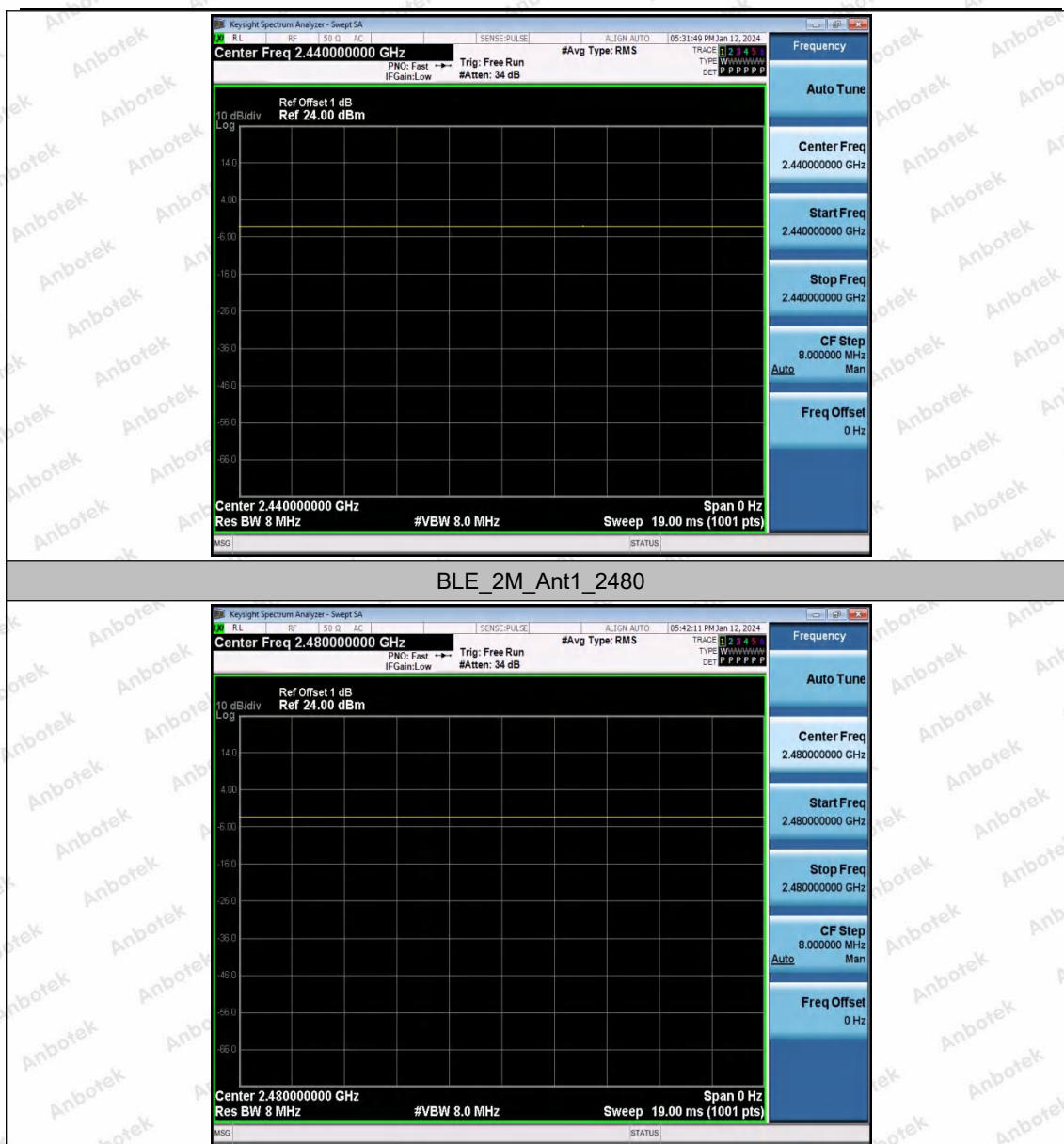
**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com.cn





---END---

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



Hotline  
400-003-0500  
www.anbotek.com.cn

