

## Appendix Test Data

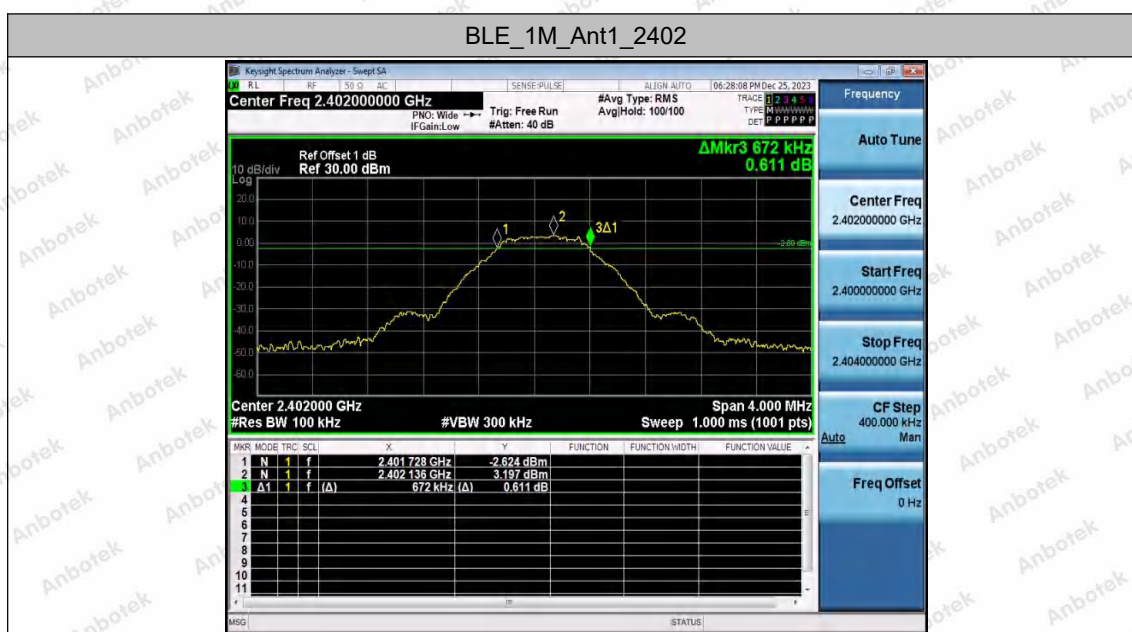
|                  |                 |                    |            |
|------------------|-----------------|--------------------|------------|
| Report No.:      | 18220WC30268901 | Test Sample No.:   | 1-2-2      |
| Start Test Date: | 2023.12.24      | Finish Test Date:  | 2023.12.25 |
| Test Engineer:   | Hayman Chen     | Auditor:           | Rick Luo   |
| Temperature:     | 25.4℃           | Relative Humidity: | 43%        |
| 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           | 0.672        | 2401.728 | 2402.400 | 0.5        | PASS    |
|          |         | 2440           | 0.664        | 2439.732 | 2440.396 | 0.5        | PASS    |
|          |         | 2480           | 0.660        | 2479.736 | 2480.396 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2402           | 1.100        | 2401.500 | 2402.600 | 0.5        | PASS    |
|          |         | 2440           | 1.108        | 2439.496 | 2440.604 | 0.5        | PASS    |
|          |         | 2480           | 1.132        | 2479.496 | 2480.628 | 0.5        | PASS    |

## Test Graphs



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BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480



BLE\_2M\_Ant1\_2402

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BLE\_2M\_Ant1\_2440



BLE\_2M\_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           | 0.98483   | 2401.5706 | 2402.5554 |
|          |         | 2440           | 0.98418   | 2439.5787 | 2440.5629 |
|          |         | 2480           | 0.99845   | 2479.5636 | 2480.5620 |
| BLE_2M   | Ant1    | 2402           | 1.9352    | 2401.1003 | 2403.0355 |
|          |         | 2440           | 1.9528    | 2439.0967 | 2441.0495 |
|          |         | 2480           | 1.9689    | 2479.0910 | 2481.0599 |

### Test Graphs



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BLE\_1M\_Ant1\_2480



BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

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BLE\_2M\_Ant1\_2480



## 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           | 3.91                      | ≤30                  | PASS    |
|          |         | 2440           | 4.18                      | ≤30                  | PASS    |
|          |         | 2480           | 4.08                      | ≤30                  | PASS    |
| BLE_2M   | Ant1    | 2402           | 3.93                      | ≤30                  | PASS    |
|          |         | 2440           | 4.20                      | ≤30                  | PASS    |
|          |         | 2480           | 4.14                      | ≤30                  | PASS    |

### Test Graphs Peak

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



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BLE\_1M\_Ant1\_2480



BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440



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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           | -10.98           | ≤8.00           | PASS    |
|          |         | 2440           | -10.93           | ≤8.00           | PASS    |
|          |         | 2480           | -10.93           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2402           | -14.13           | ≤8.00           | PASS    |
|          |         | 2440           | -14.36           | ≤8.00           | PASS    |
|          |         | 2480           | -14.45           | ≤8.00           | PASS    |

### Test Graphs



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BLE\_1M\_Ant1\_2480



BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

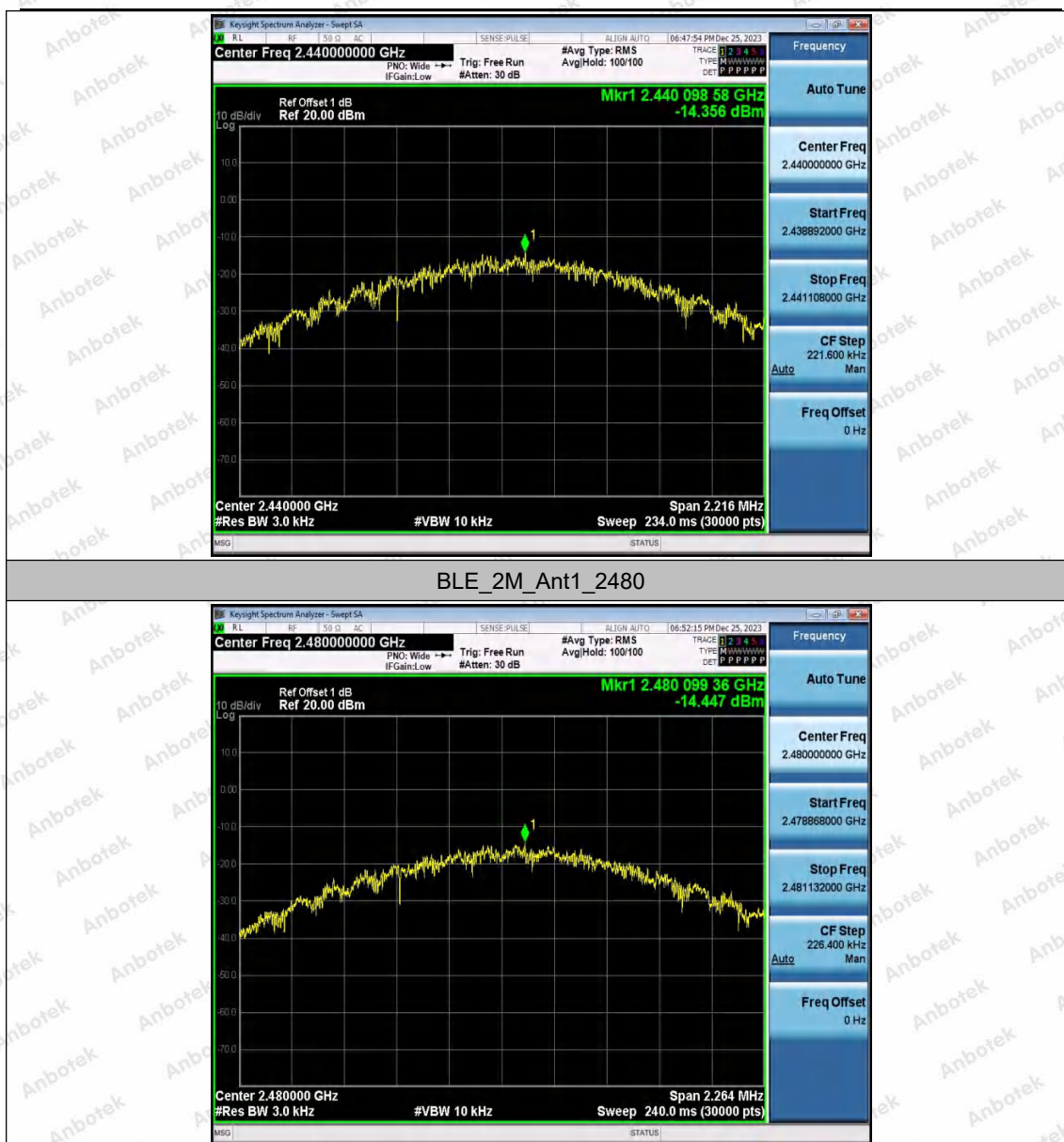
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## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | Channel | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low     | 2402           | 2.91          | -48.86      | ≤-17.09    | PASS    |
|          |         | High    | 2480           | 3.66          | -52.66      | ≤-16.35    | PASS    |
| BLE_2M   | Ant1    | Low     | 2402           | 2.27          | -36.56      | ≤-17.73    | PASS    |
|          |         | High    | 2480           | 2.31          | -46.15      | ≤-17.7     | PASS    |

### Test Graphs



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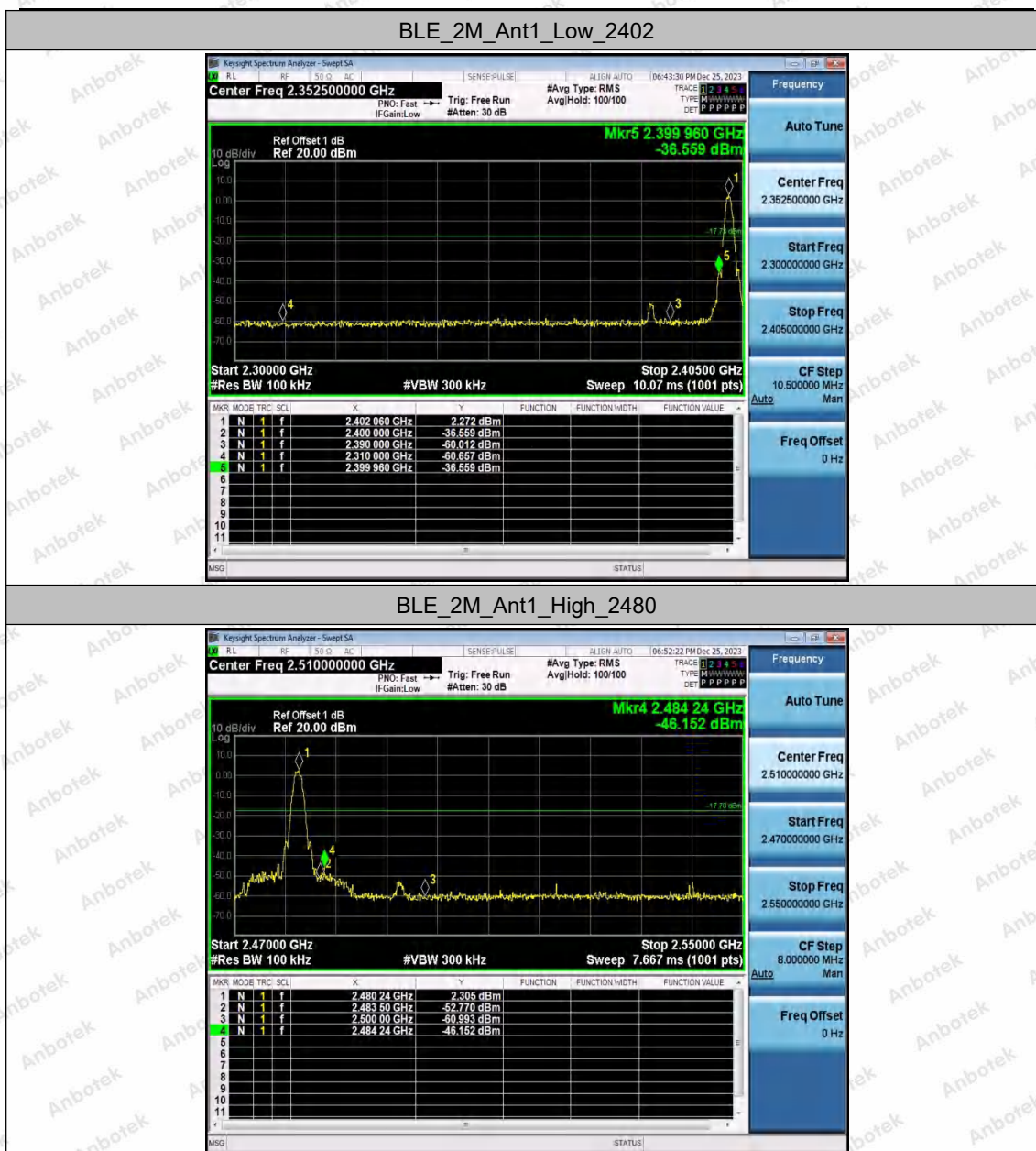


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## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402           | Reference       | 2.94           | 2.94        | ---        | PASS    |
|          |         |                | 30~1000         | 2.94           | -67.26      | ≤-17.06    | PASS    |
|          |         |                | 1000~26500      | 2.94           | -27.62      | ≤-17.06    | PASS    |
|          |         | 2440           | Reference       | 3.24           | 3.24        | ---        | PASS    |
|          |         |                | 30~1000         | 3.24           | -66.69      | ≤-16.76    | PASS    |
|          |         |                | 1000~26500      | 3.24           | -28.17      | ≤-16.76    | PASS    |
|          |         | 2480           | Reference       | 2.71           | 2.71        | ---        | PASS    |
|          |         |                | 30~1000         | 2.71           | -28.37      | ≤-17.29    | PASS    |
|          |         |                | 1000~26500      | 2.71           | -31.58      | ≤-17.29    | PASS    |
| BLE_2M   | Ant1    | 2402           | Reference       | 1.02           | 1.02        | ---        | PASS    |
|          |         |                | 30~1000         | 1.02           | -24.18      | ≤-18.98    | PASS    |
|          |         |                | 1000~26500      | 1.02           | -31.28      | ≤-18.98    | PASS    |
|          |         | 2440           | Reference       | 1.34           | 1.34        | ---        | PASS    |
|          |         |                | 30~1000         | 1.34           | -27.75      | ≤-18.66    | PASS    |
|          |         |                | 1000~26500      | 1.34           | -32.11      | ≤-18.66    | PASS    |
|          |         | 2480           | Reference       | 2.00           | 2.00        | ---        | PASS    |
|          |         |                | 30~1000         | 2.00           | -27.05      | ≤-18       | PASS    |
|          |         |                | 1000~26500      | 2.00           | -34.81      | ≤-18       | PASS    |



## Test Graphs

BLE\_1M\_Ant1\_2402\_0~Reference



BLE\_1M\_Ant1\_2402\_30~1000



BLE\_1M\_Ant1\_2402\_1000~26500

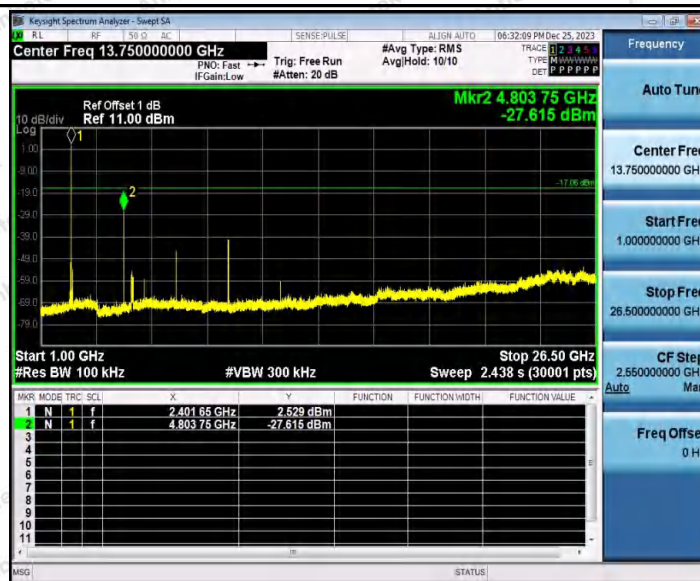
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BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000



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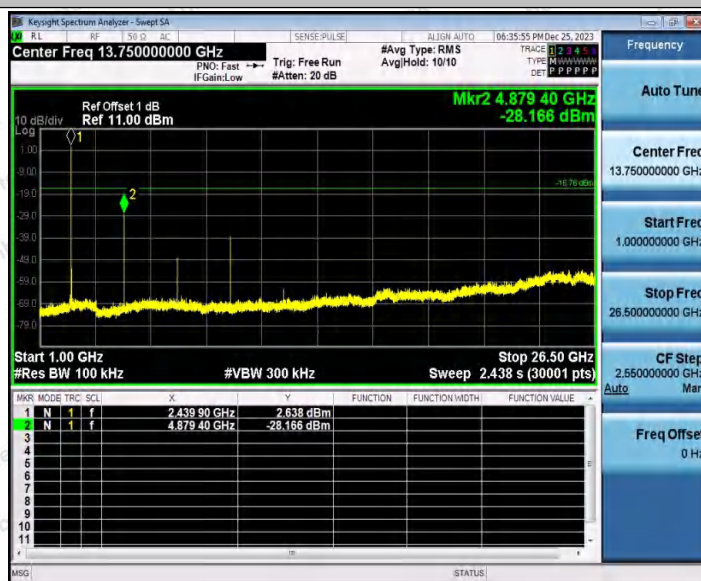
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference



BLE\_1M\_Ant1\_2480\_30~1000

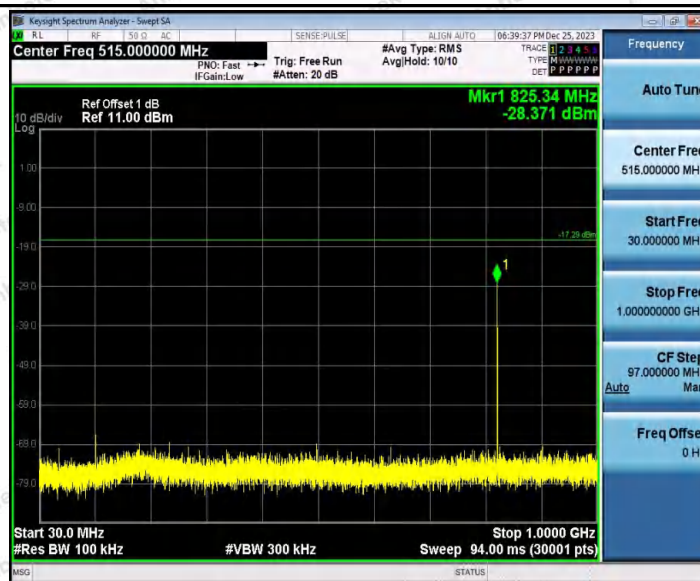
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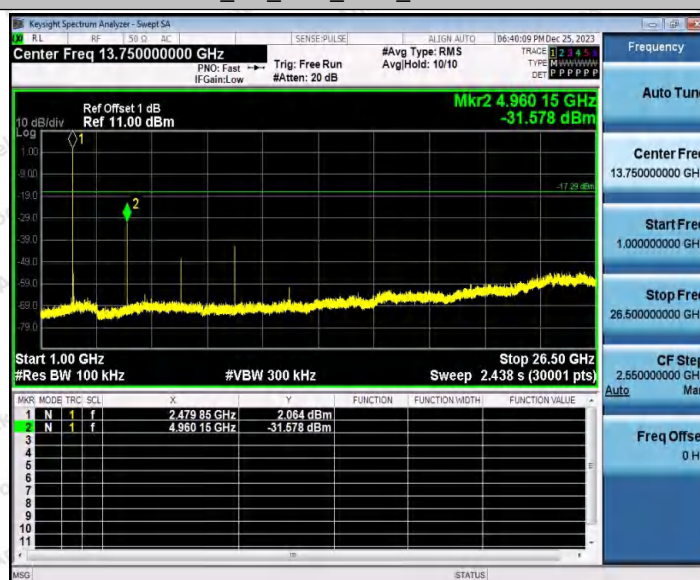


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BLE\_1M\_Ant1\_2480\_1000~26500



BLE\_2M\_Ant1\_2402\_0~Reference



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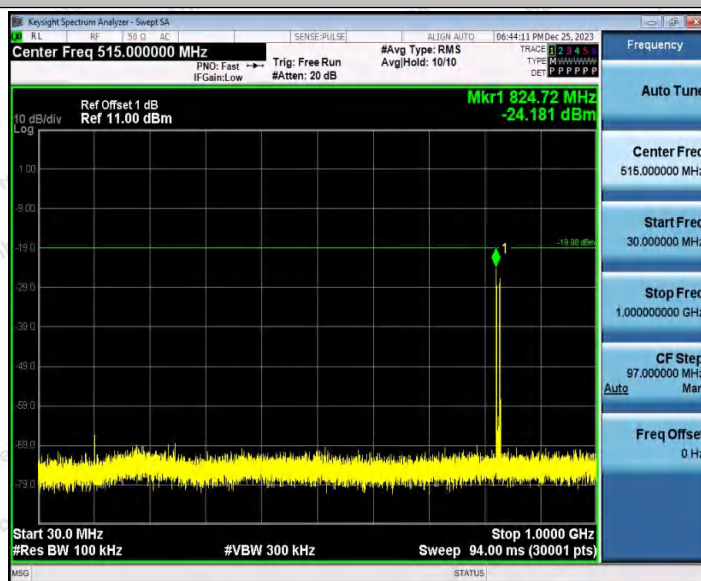
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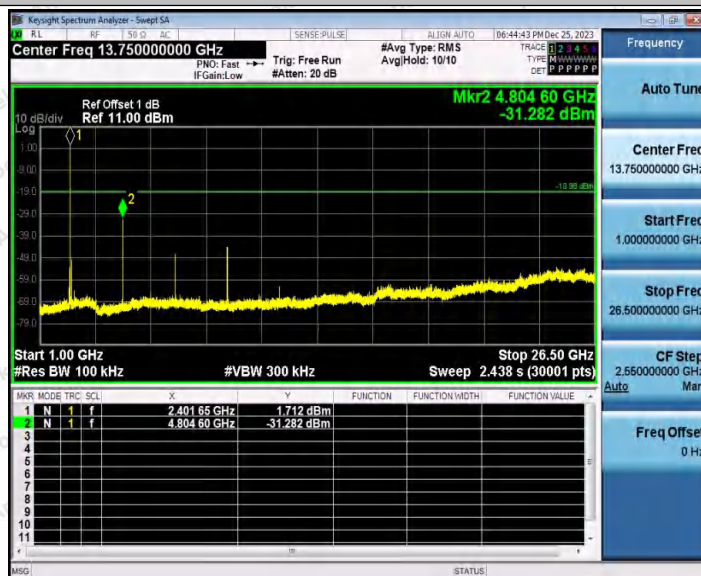
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BLE\_2M\_Ant1\_2402\_30~1000



BLE\_2M\_Ant1\_2402\_1000~26500



BLE\_2M\_Ant1\_2440\_0~Reference

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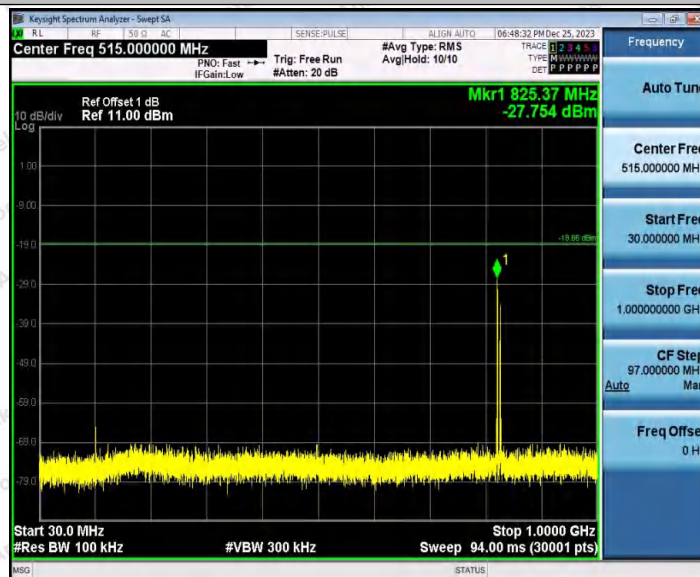


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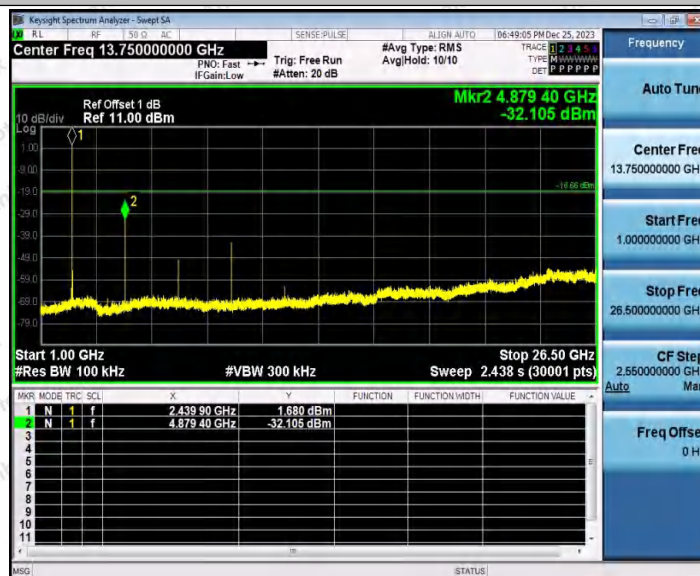




BLE\_2M\_Ant1\_2440\_30~1000



BLE\_2M\_Ant1\_2440\_1000~26500



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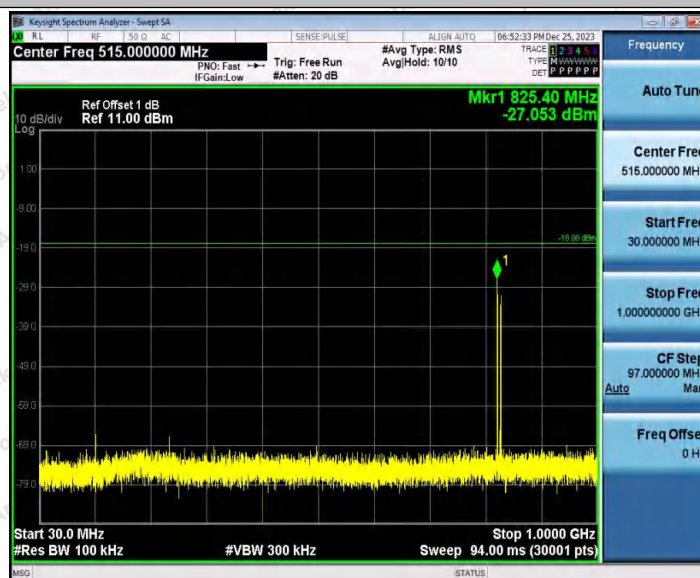
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BLE\_2M\_Ant1\_2480\_0~Reference



BLE\_2M\_Ant1\_2480\_30~1000



BLE\_2M\_Ant1\_2480\_1000~26500

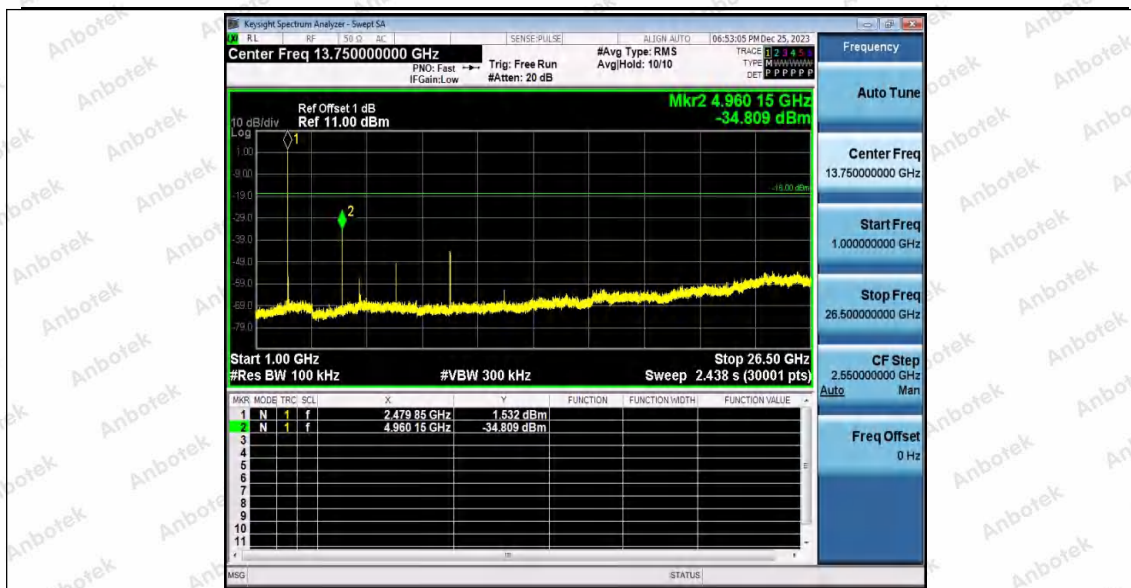
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## Appendix G: Duty Cycle

### 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           | 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\_2440



BLE\_1M\_Ant1\_2480



BLE\_2M\_Ant1\_2402

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BLE\_2M\_Ant1\_2440



BLE\_2M\_Ant1\_2480

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