

## Appendix Test Data

|                  |                 |                    |            |
|------------------|-----------------|--------------------|------------|
| Report No.:      | 18220WC30203301 | Test Sample No.:   | 1-2-2      |
| Start Test Date: | 2023.09.15      | Finish Test Date:  | 2023.09.26 |
| Test Engineer:   | Hayman Chen     | Auditor:           | Rick Luo   |
| Temperature:     | 26.1°C          | Relative Humidity: | 49.5%      |
| 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           | 0.612        | 2401.660 | 2402.272 | 0.5        | PASS    |
|          |         | 2440           | 0.652        | 2439.624 | 2440.276 | 0.5        | PASS    |
|          |         | 2480           | 0.636        | 2479.628 | 2480.264 | 0.5        | PASS    |



## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

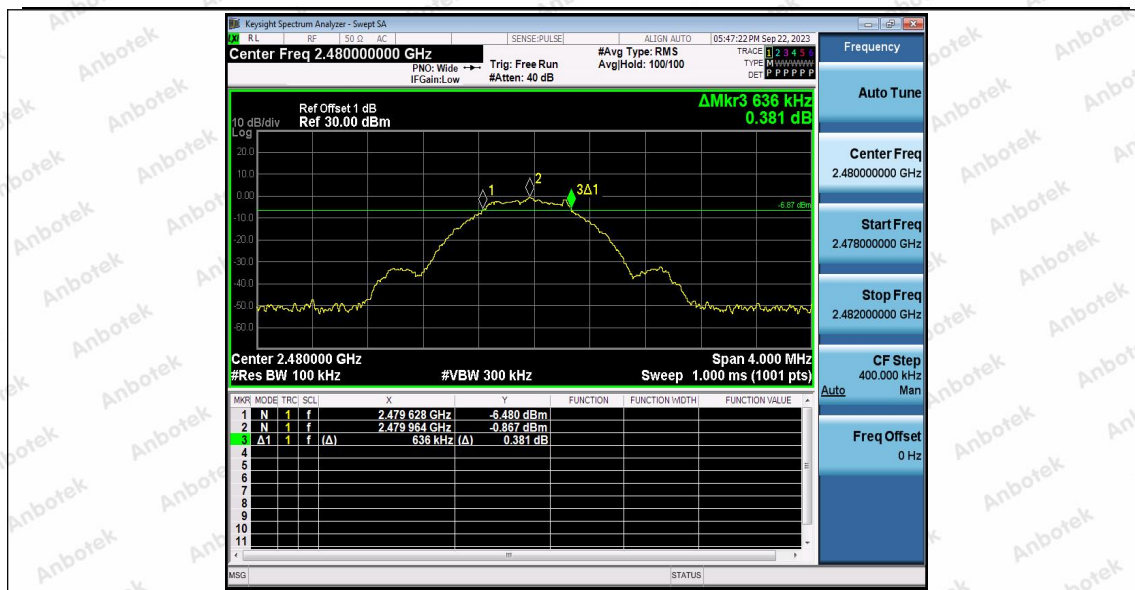
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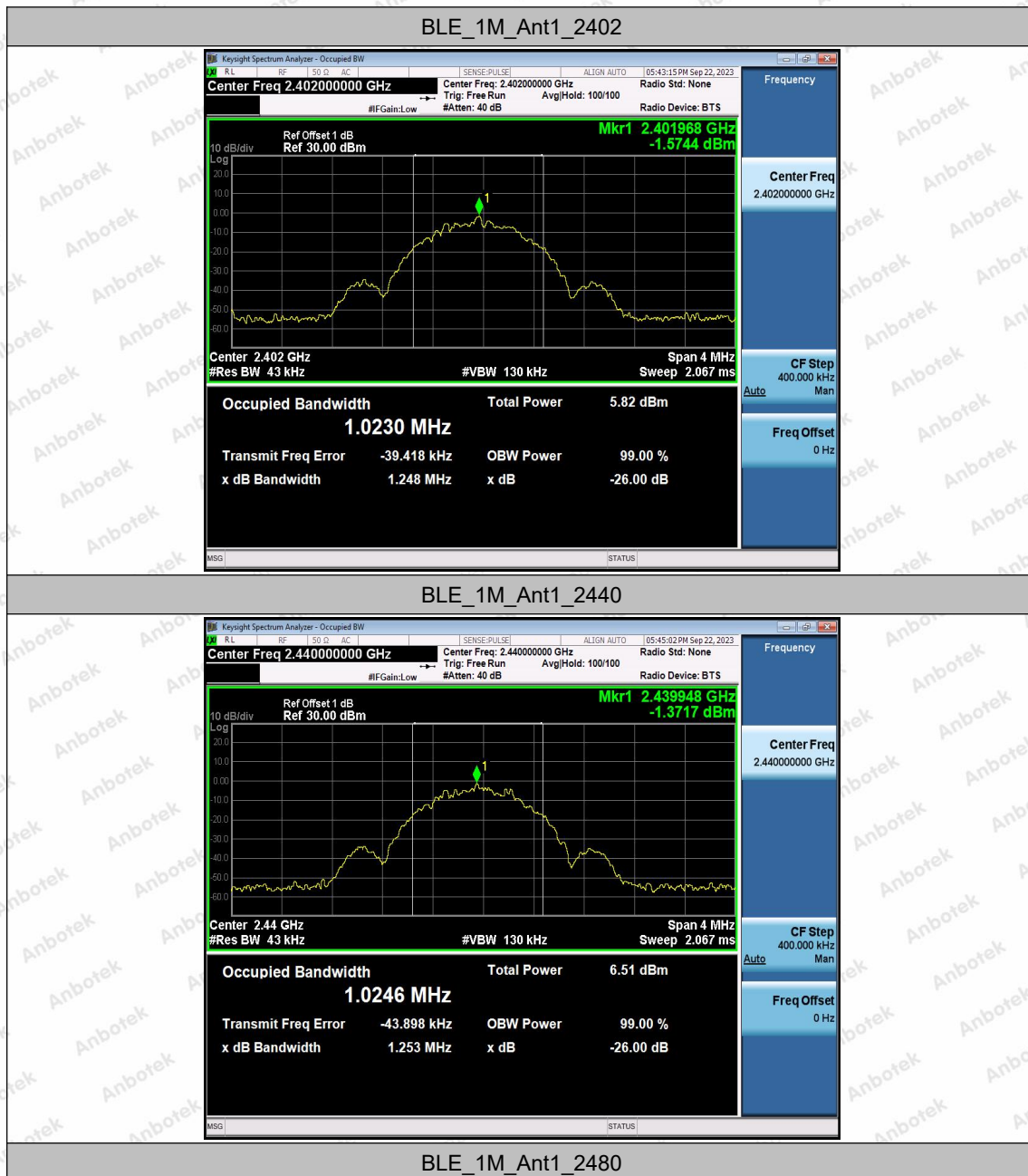
## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|----------|---------|----------------|-----------|-----------|-----------|
| BLE_1M   | Ant1    | 2402           | 1.0230    | 2401.4491 | 2402.4721 |
|          |         | 2440           | 1.0246    | 2439.4438 | 2440.4684 |
|          |         | 2480           | 1.0242    | 2479.4417 | 2480.4659 |



## Test Graphs



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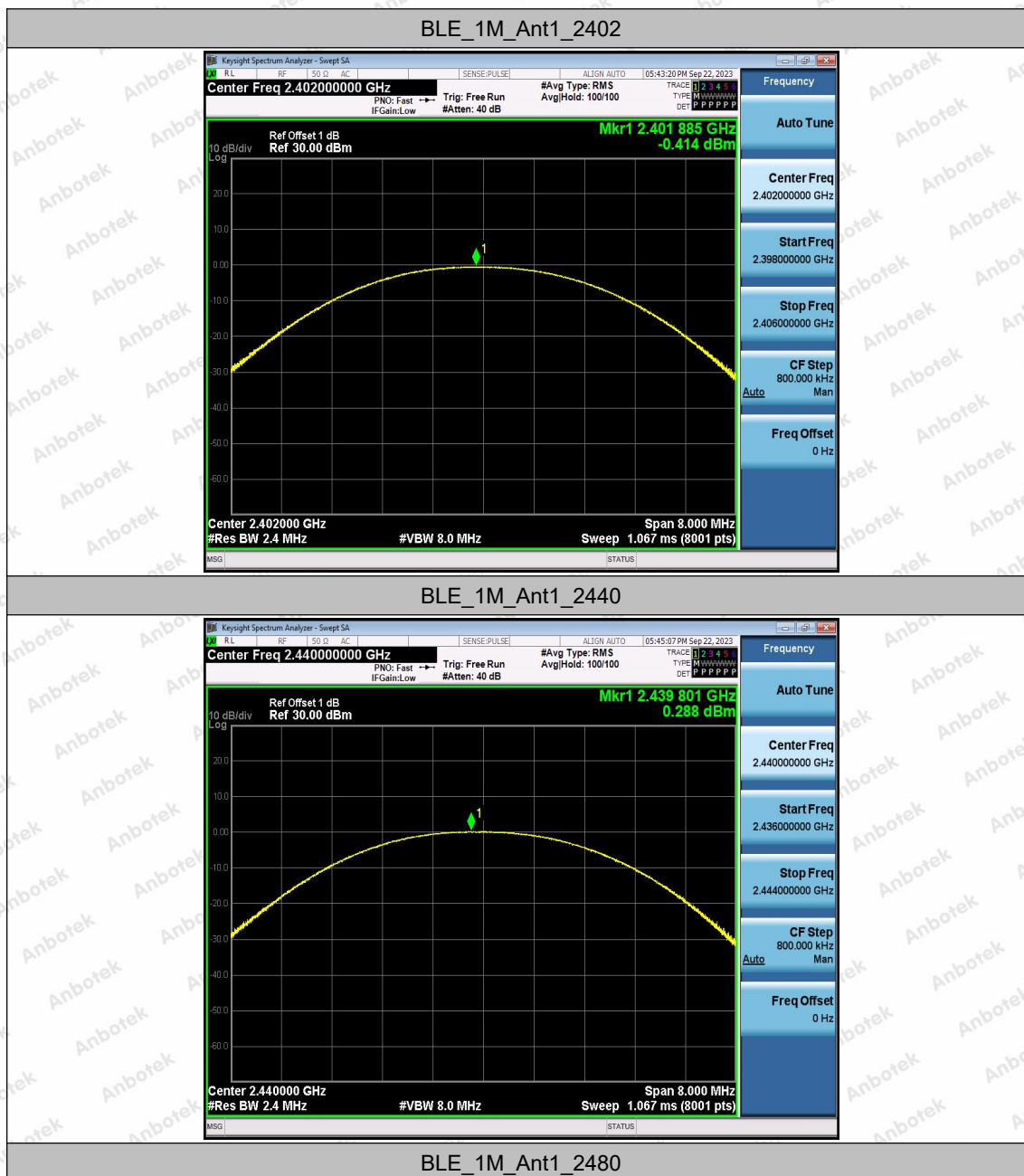
## Appendix C: Maximum conducted output power

### Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M   | Ant1    | 2402           | -0.41                     | ≤30                  | PASS    |
|          |         | 2440           | 0.29                      | ≤30                  | PASS    |
|          |         | 2480           | 0.02                      | ≤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           | -15.6            | ≤8.00           | PASS    |
|          |         | 2440           | -15.24           | ≤8.00           | PASS    |
|          |         | 2480           | -15.3            | ≤8.00           | PASS    |



## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

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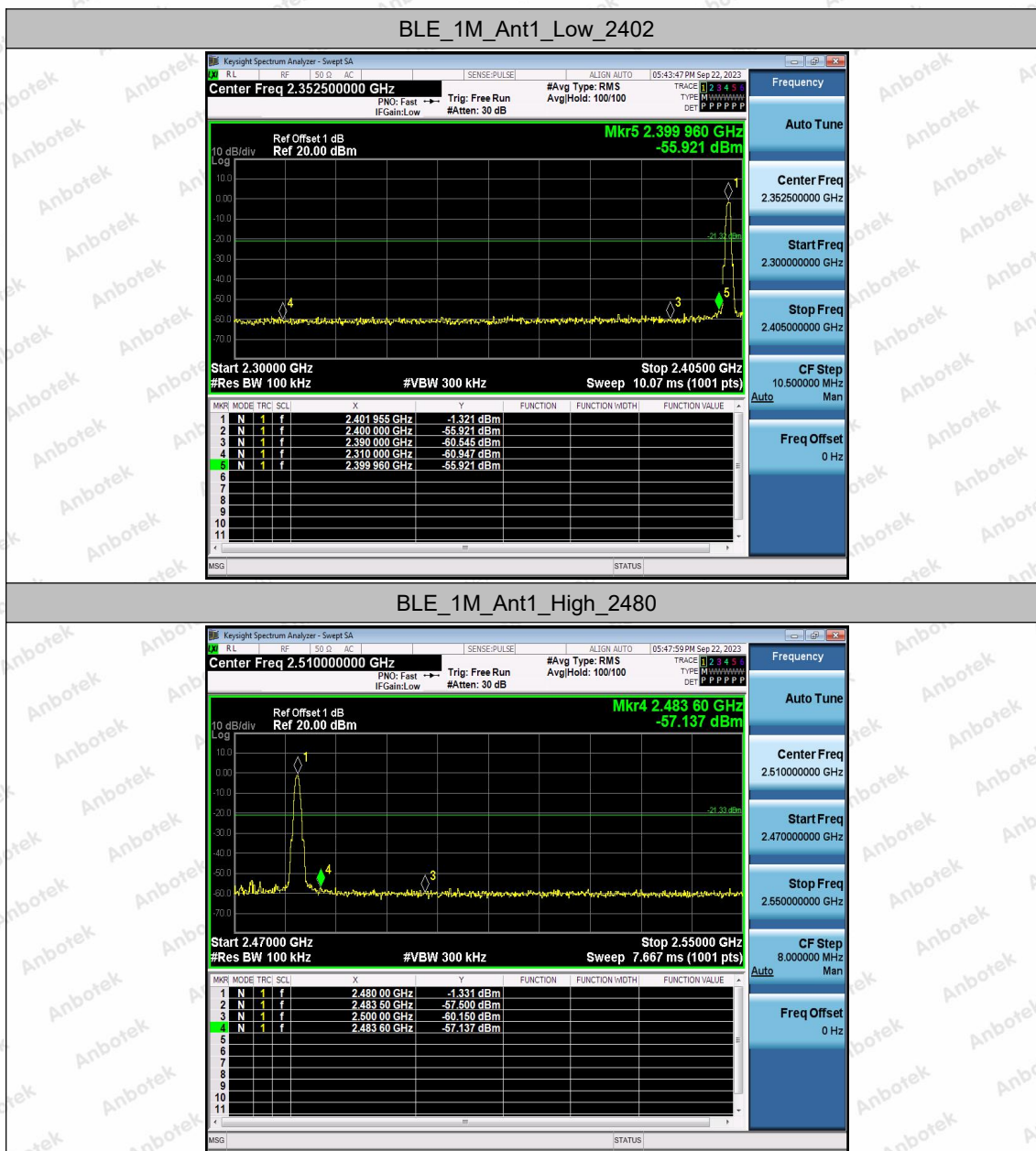
## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | Channel | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low     | 2402           | -1.32         | -55.92      | ≤-21.32    | PASS    |
|          |         | High    | 2480           | -1.33         | -57.14      | ≤-21.33    | 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       | -2.16          | -2.16       | ---        | PASS    |
|          |         |                | 30~1000         | -2.16          | -68.57      | ≤-22.16    | PASS    |
|          |         |                | 1000~26500      | -2.16          | -53.64      | ≤-22.16    | PASS    |
|          |         | 2440           | Reference       | -2.11          | -2.11       | ---        | PASS    |
|          |         |                | 30~1000         | -2.11          | -68.71      | ≤-22.11    | PASS    |
|          |         |                | 1000~26500      | -2.11          | -53.5       | ≤-22.11    | PASS    |
|          |         | 2480           | Reference       | -1.76          | -1.76       | ---        | PASS    |
|          |         |                | 30~1000         | -1.76          | -69.31      | ≤-21.76    | PASS    |
|          |         |                | 1000~26500      | -1.76          | -53.81      | ≤-21.76    | PASS    |

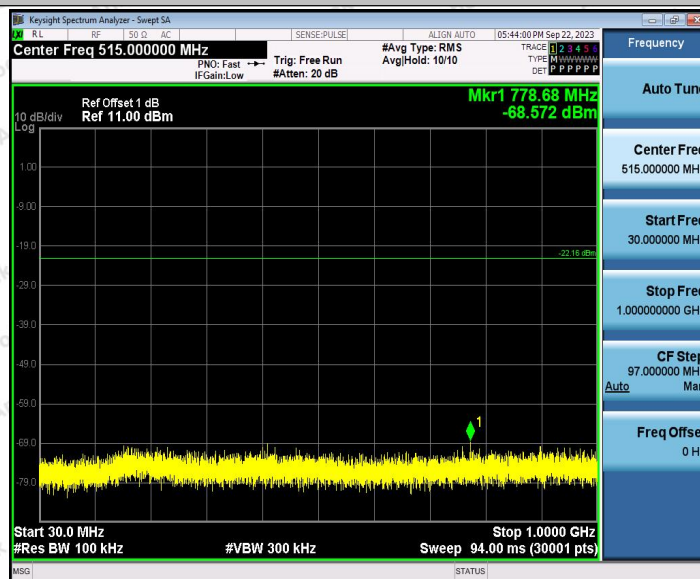


## Test Graphs

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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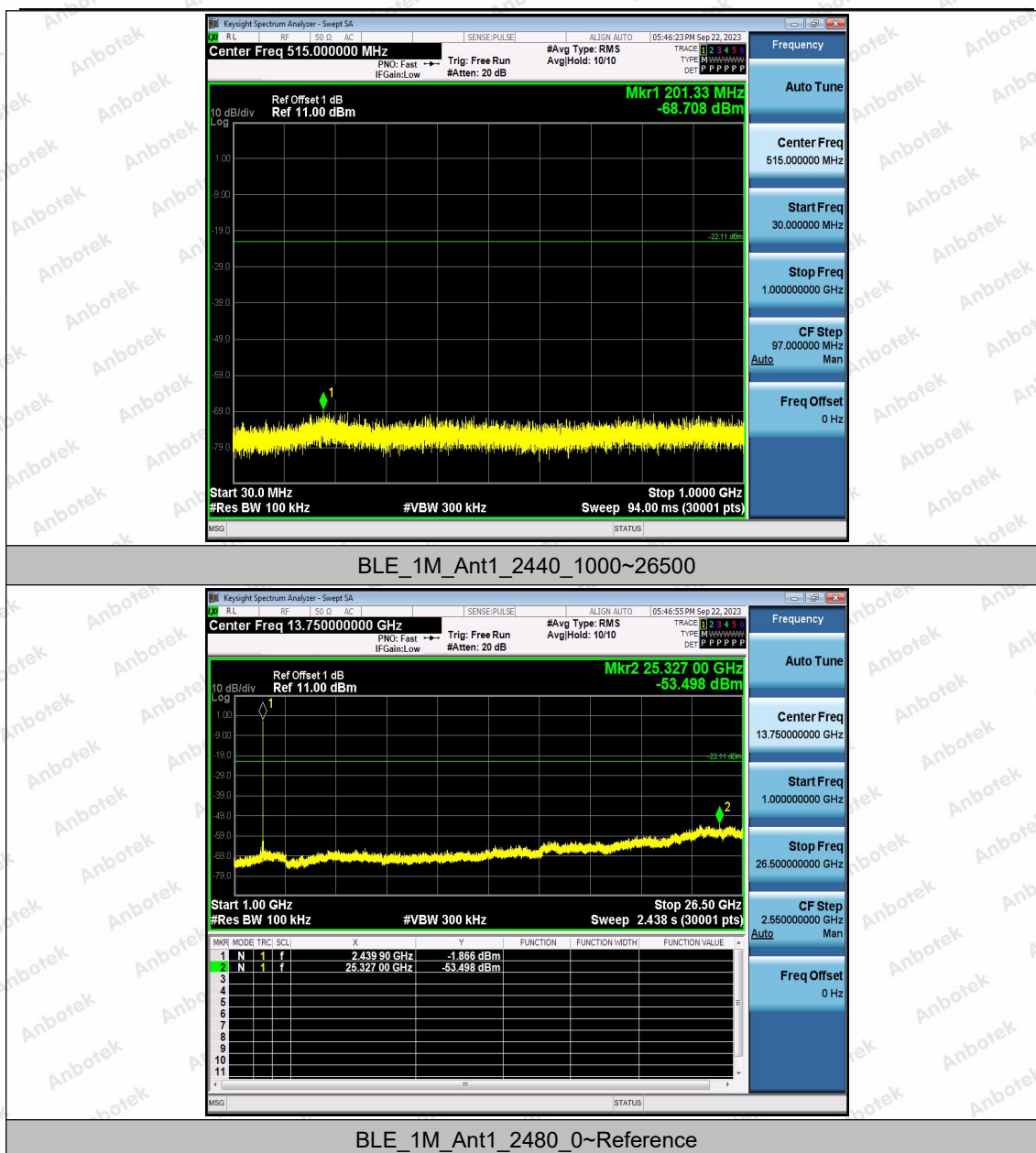
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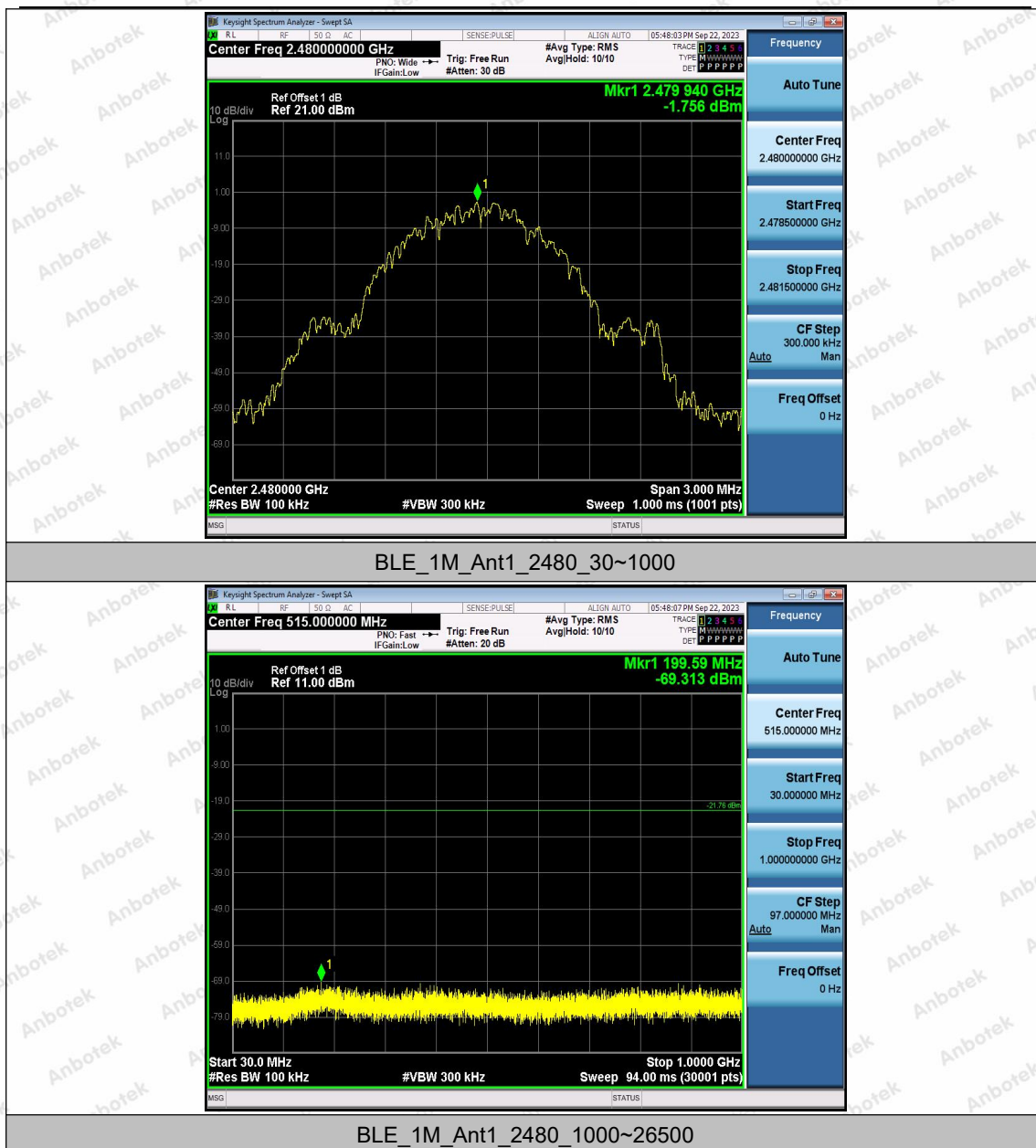
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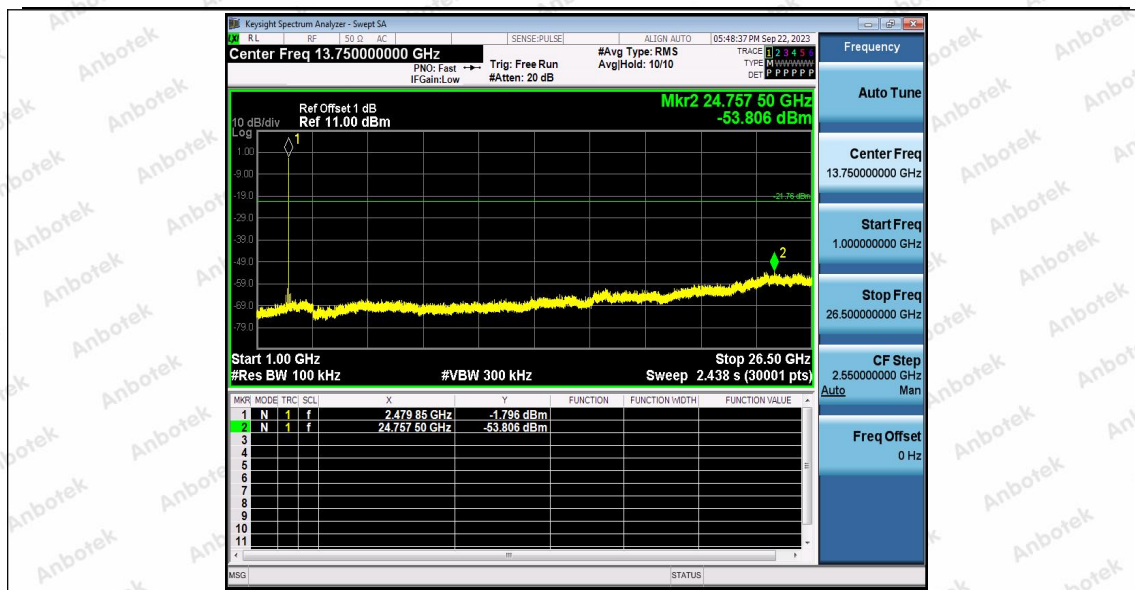
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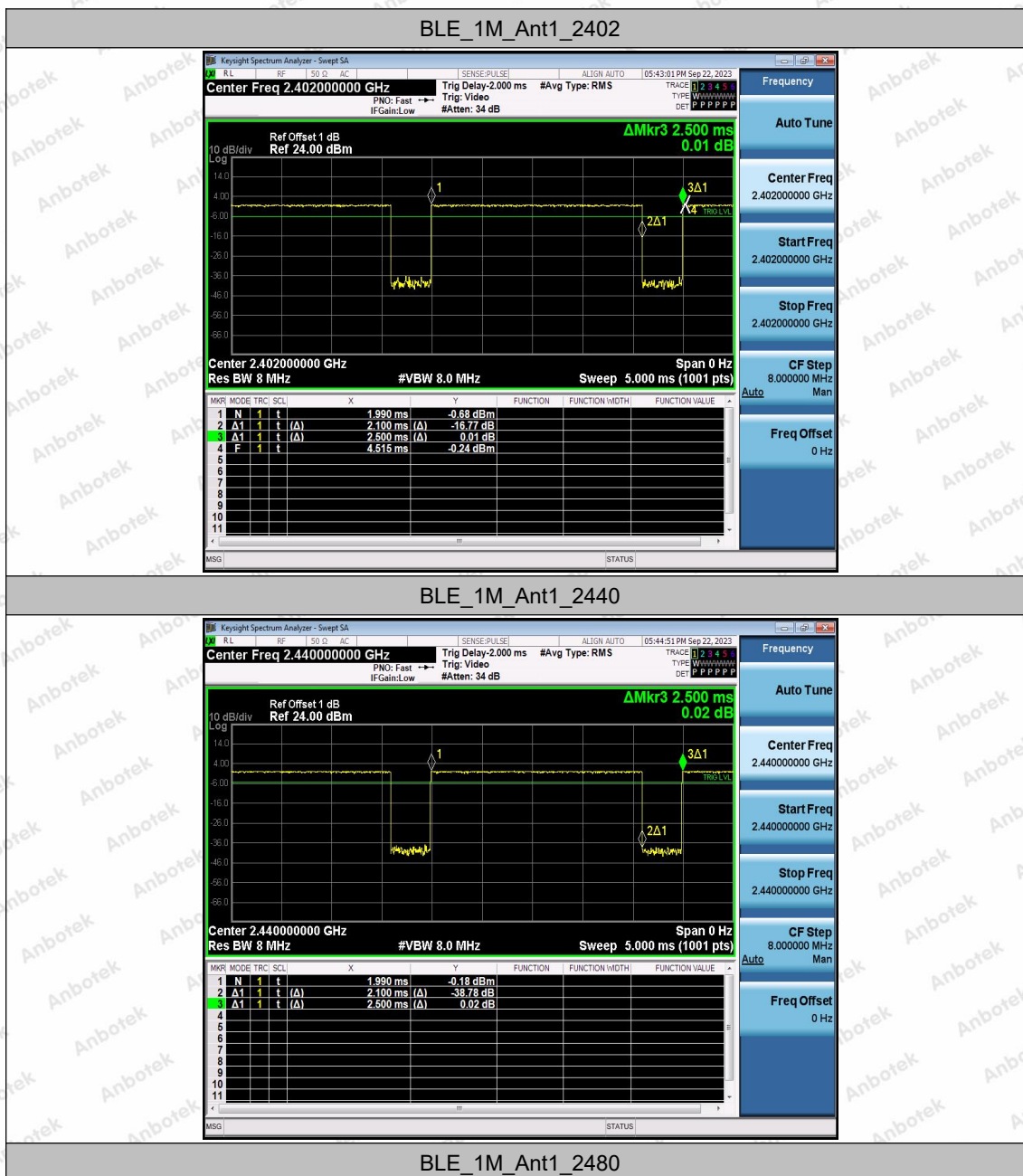
## Appendix G: Duty Cycle

### 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           | 2.10            | 2.50           | 84.00             | 0.76                     |
|          |         | 2440           | 2.10            | 2.50           | 84.00             | 0.76                     |
|          |         | 2480           | 2.10            | 2.50           | 84.00             | 0.76                     |



## Test Graphs



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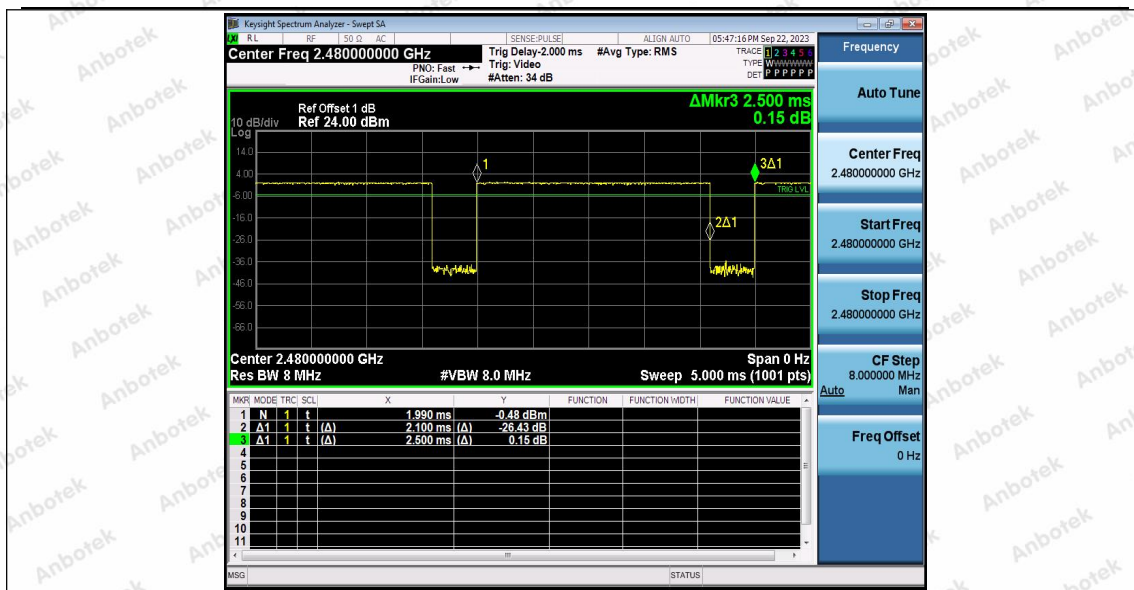


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