

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC30044901 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2023.03.21      | Finish Test Date:  | 2023.03.23        |
| Test Engineer:   | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 24.3°C          | Relative Humidity: | 57 %              |
| 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           | 0.716        | 2401.640 | 2402.356 | 0.5        | PASS    |
|          |         | 2440           | 0.688        | 2439.660 | 2440.348 | 0.5        | PASS    |
|          |         | 2480           | 0.716        | 2479.632 | 2480.348 | 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           | 1.0331    | 2401.4803 | 2402.5134 |
|          |         | 2440           | 1.0300    | 2439.4835 | 2440.5135 |
|          |         | 2480           | 1.0316    | 2479.4824 | 2480.5140 |



## Test Graphs



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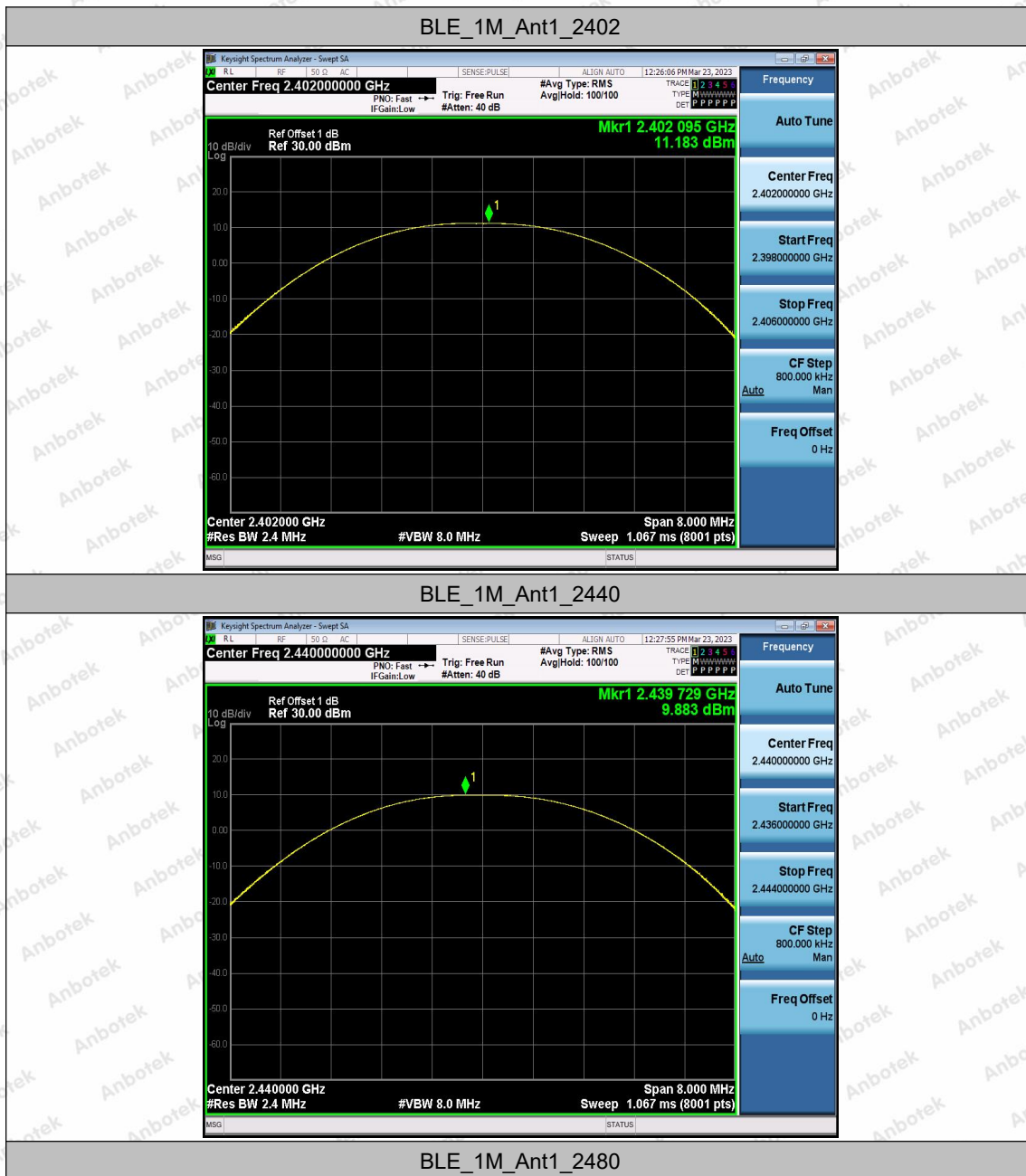
## Appendix C: Maximum conducted output power

### Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M   | Ant1    | 2402           | 11.18                     | ≤30                  | PASS    |
|          |         | 2440           | 9.88                      | ≤30                  | PASS    |
|          |         | 2480           | 8.89                      | ≤30                  | PASS    |



## Test Graphs Peak



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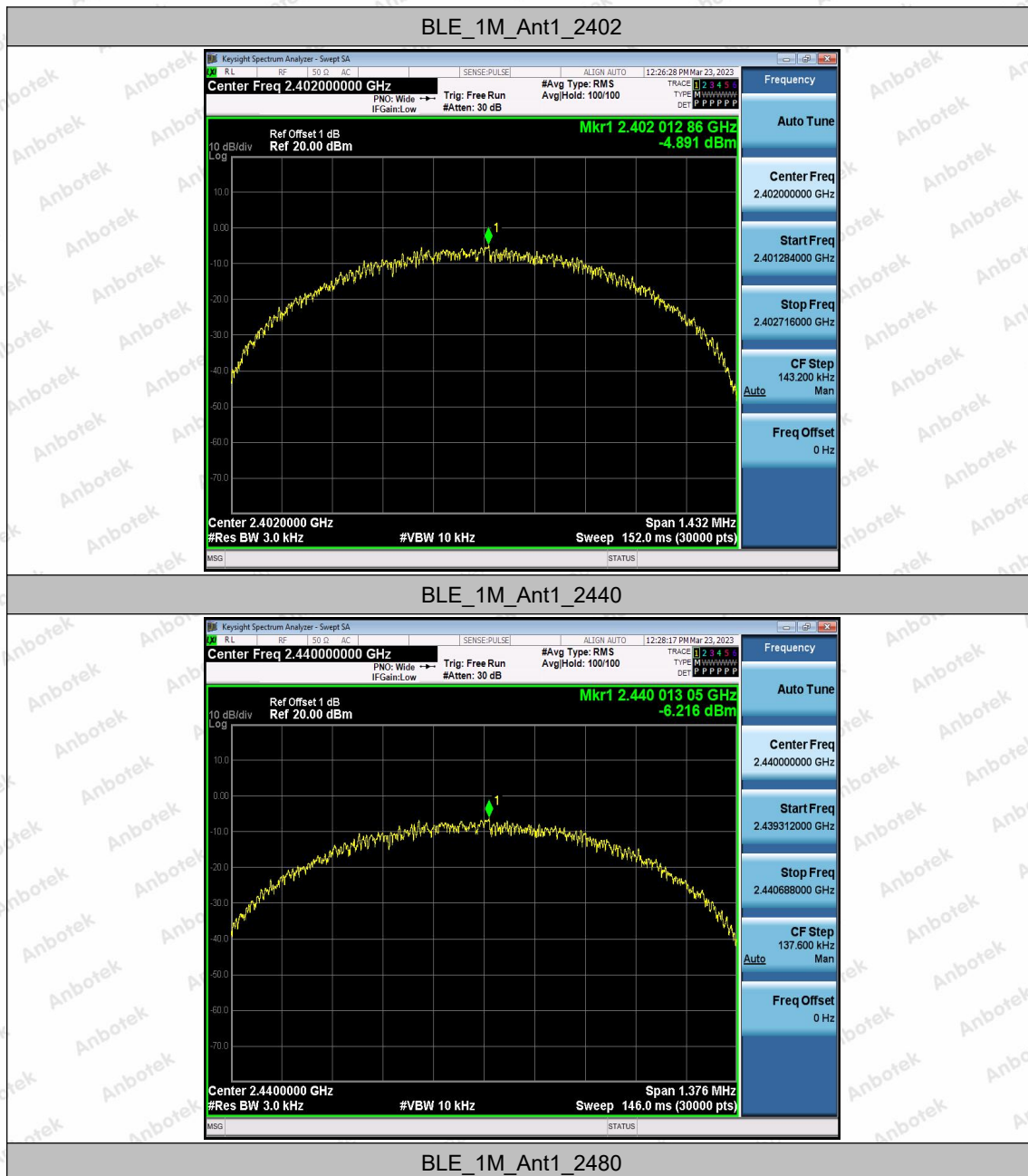
## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -4.89            | ≤8.00           | PASS    |
|          |         | 2440           | -6.22            | ≤8.00           | PASS    |
|          |         | 2480           | -7.25            | ≤8.00           | PASS    |



## Test Graphs



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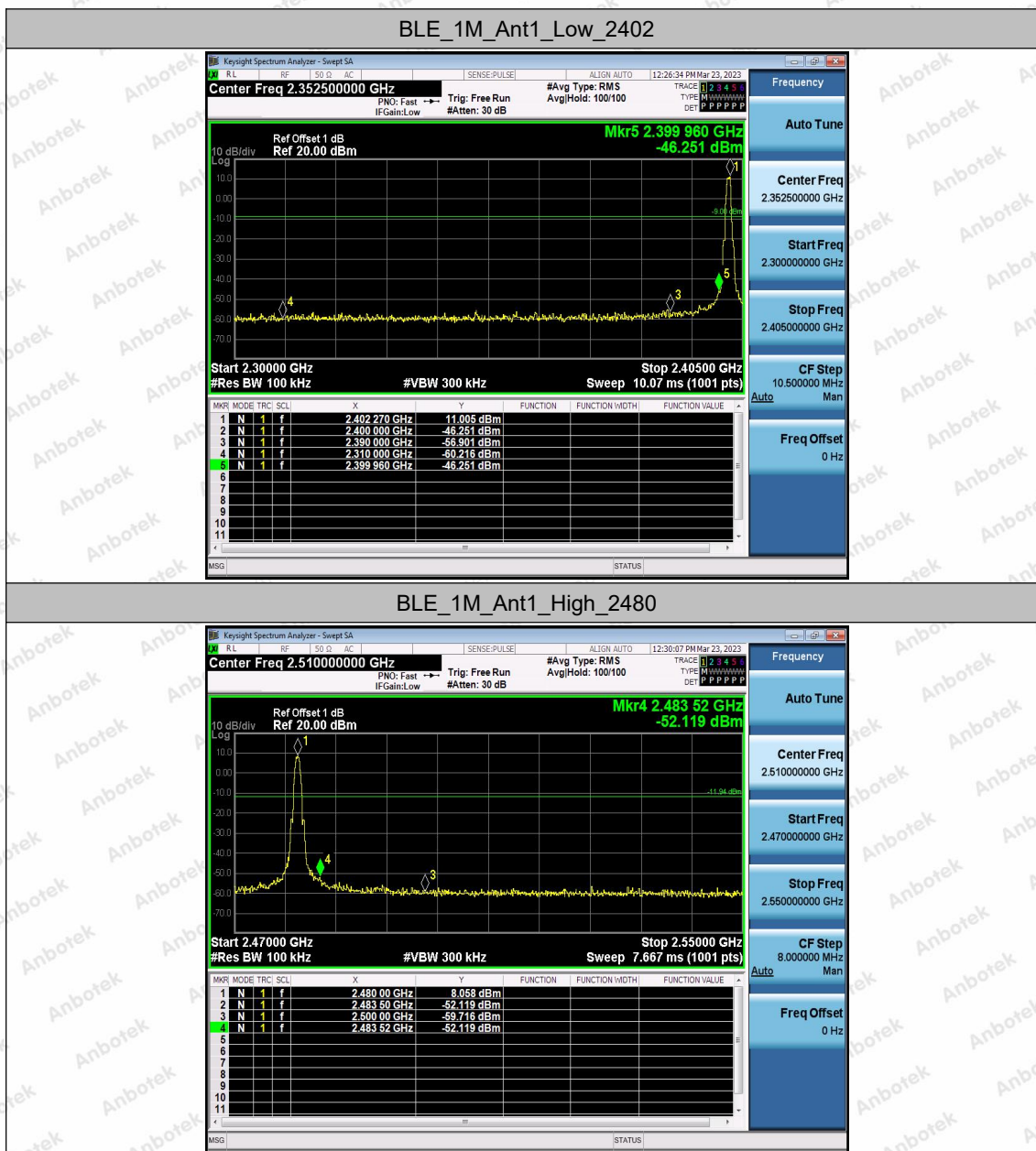
## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | Channel | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low     | 2402           | 11.01         | -46.25      | ≤-9        | PASS    |
|          |         | High    | 2480           | 8.06          | -52.12      | ≤-11.94    | 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       | 8.92           | 8.92        | ---        | PASS    |
|          |         |                | 30~1000         | 8.92           | -57.06      | ≤-11.08    | PASS    |
|          |         |                | 1000~26500      | 8.92           | -27.45      | ≤-11.08    | PASS    |
|          |         | 2440           | Reference       | 8.30           | 8.30        | ---        | PASS    |
|          |         |                | 30~1000         | 8.30           | -69.03      | ≤-11.7     | PASS    |
|          |         |                | 1000~26500      | 8.30           | -25.49      | ≤-11.7     | PASS    |
|          |         | 2480           | Reference       | 7.59           | 7.59        | ---        | PASS    |
|          |         |                | 30~1000         | 7.59           | -68.68      | ≤-12.41    | PASS    |
|          |         |                | 1000~26500      | 7.59           | -28.3       | ≤-12.41    | PASS    |

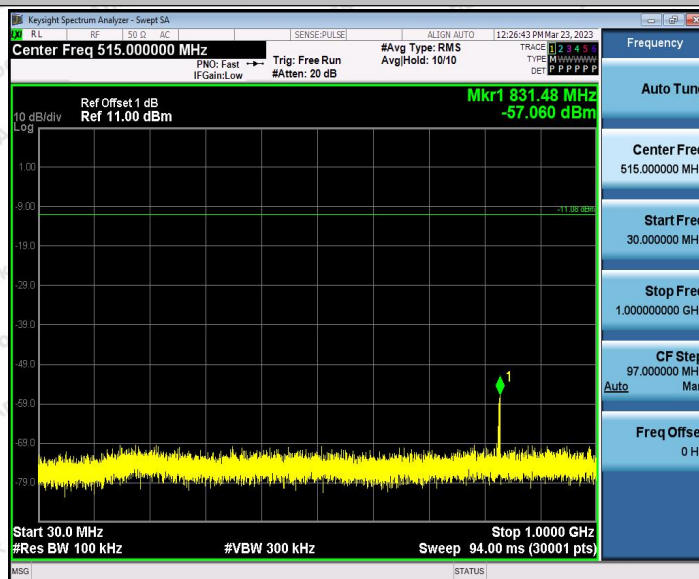


## Test Graphs

BLE\_1M\_Ant1\_2402\_0~Reference



BLE\_1M\_Ant1\_2402\_30~1000



BLE\_1M\_Ant1\_2402\_1000~26500

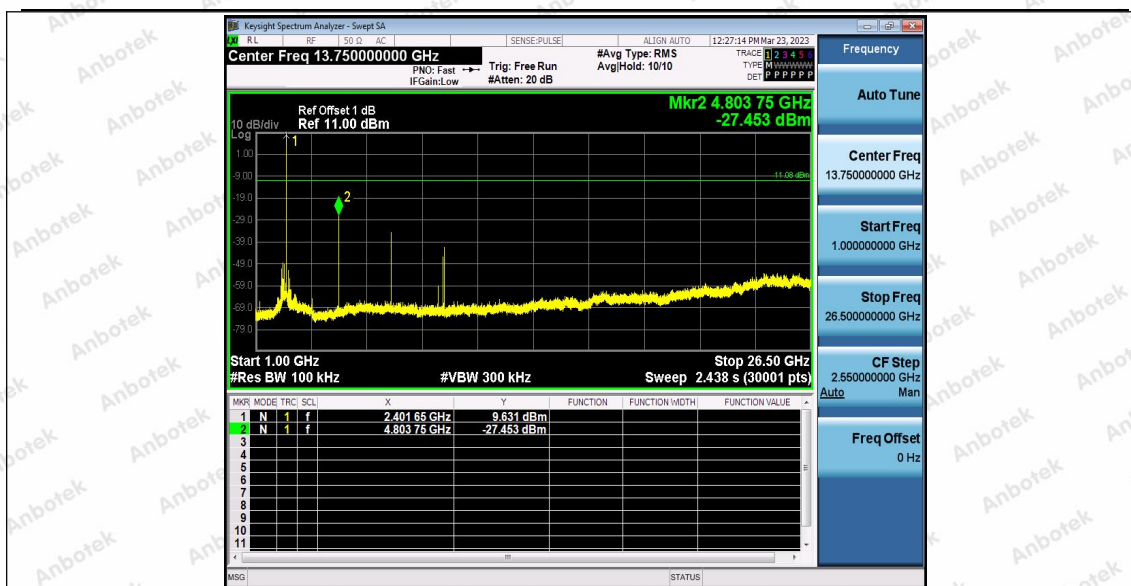
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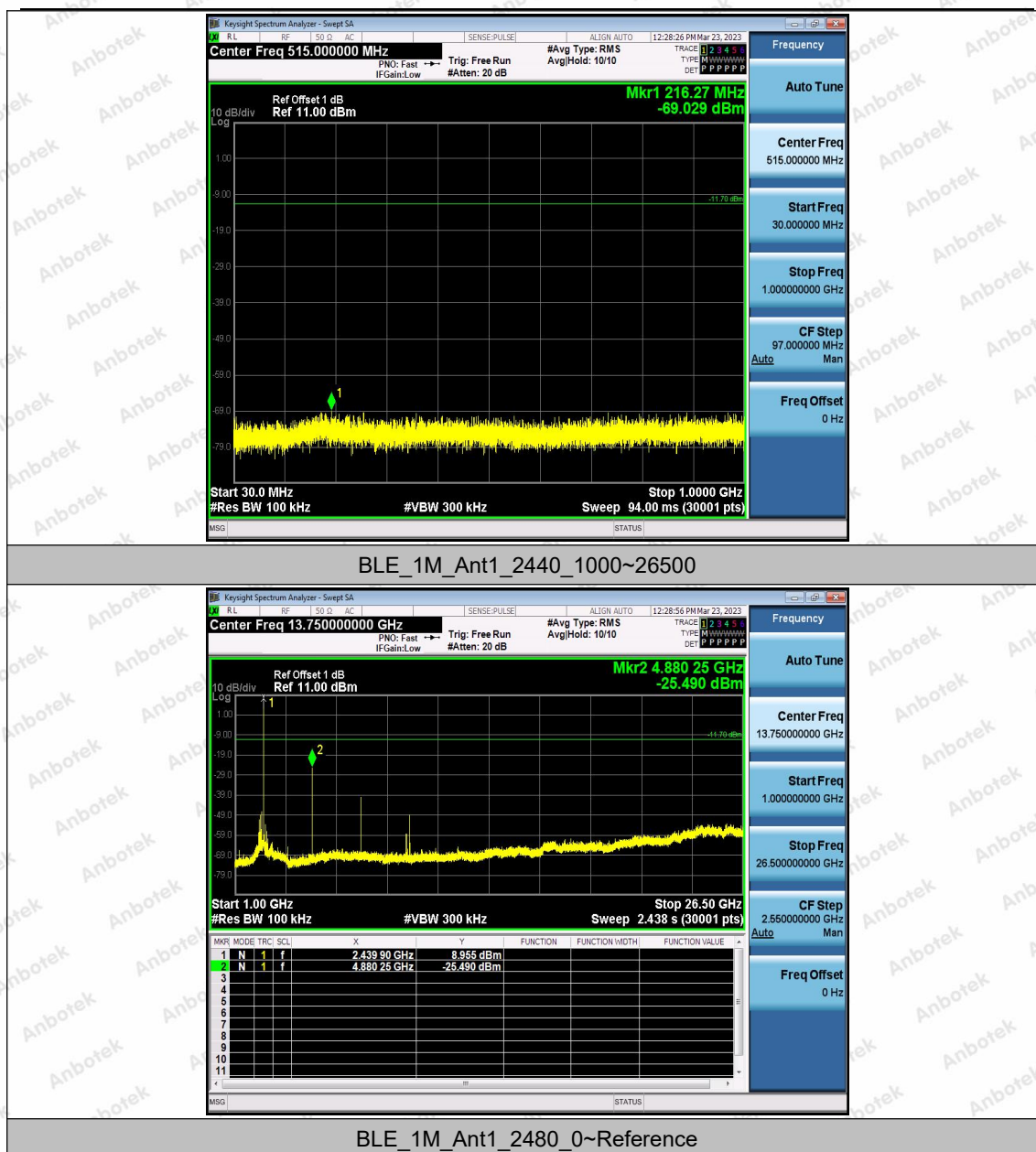


BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000





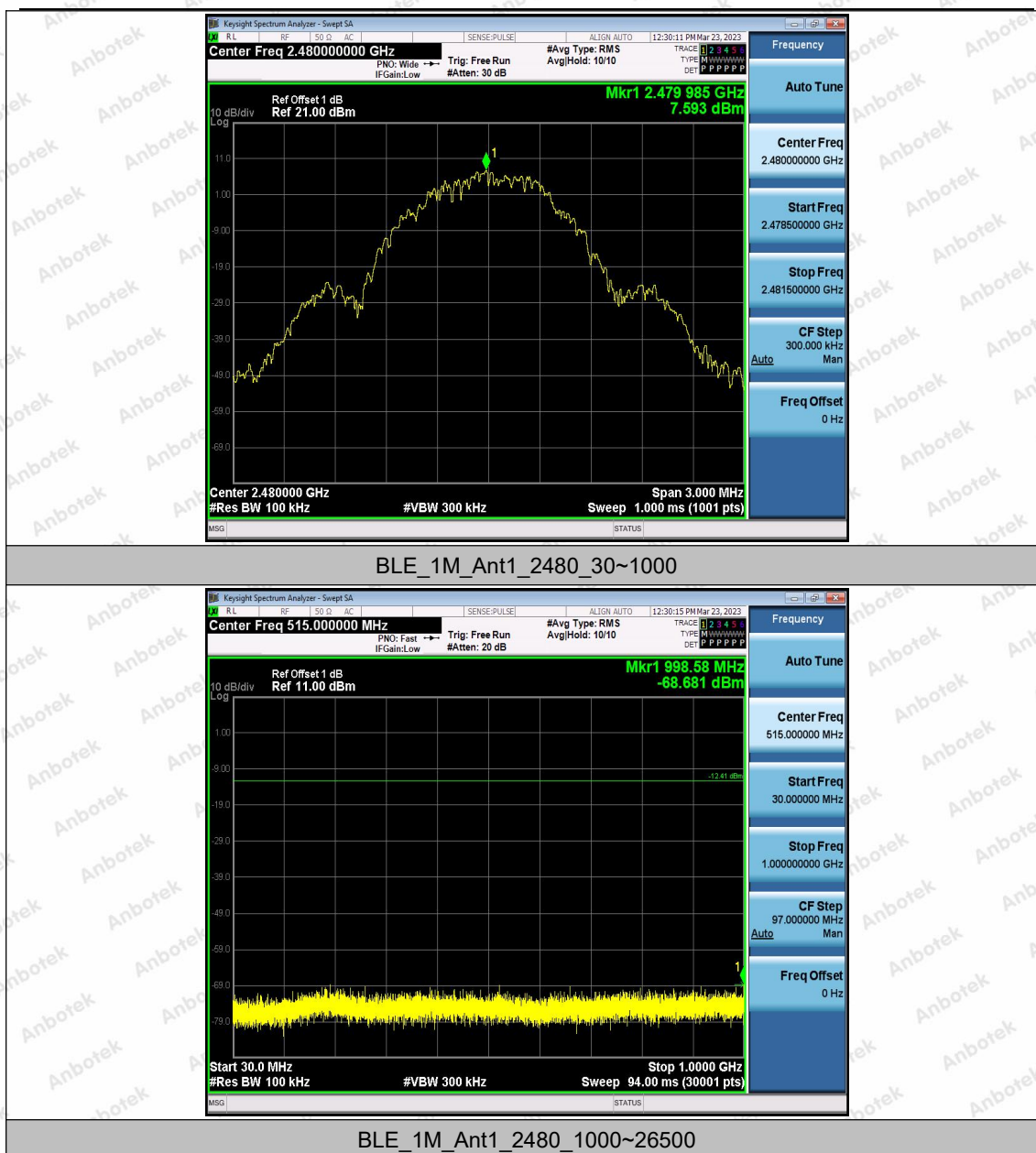
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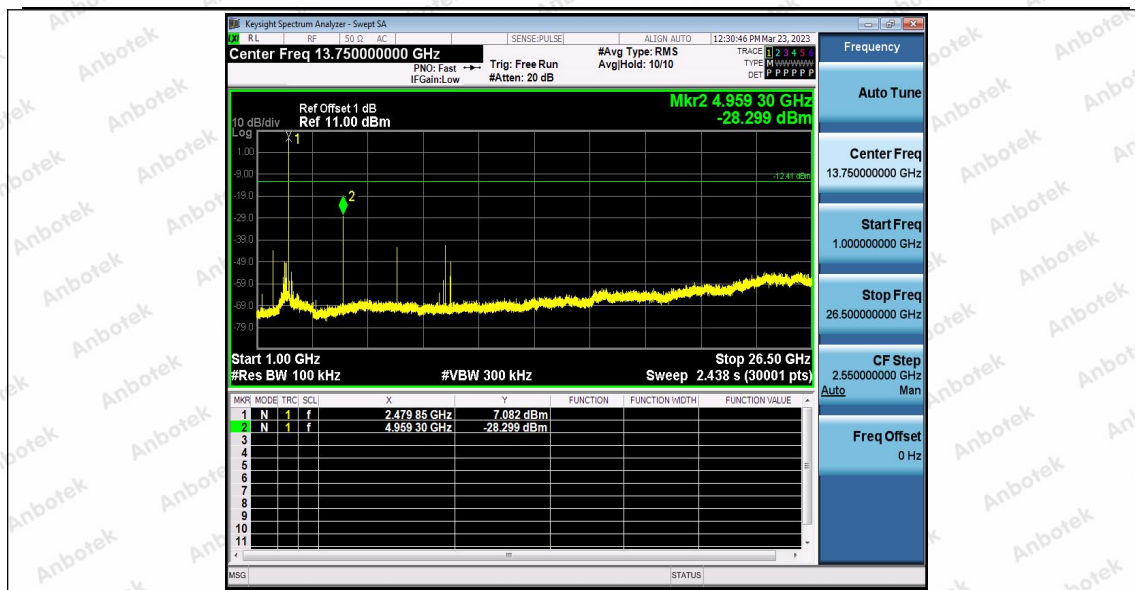
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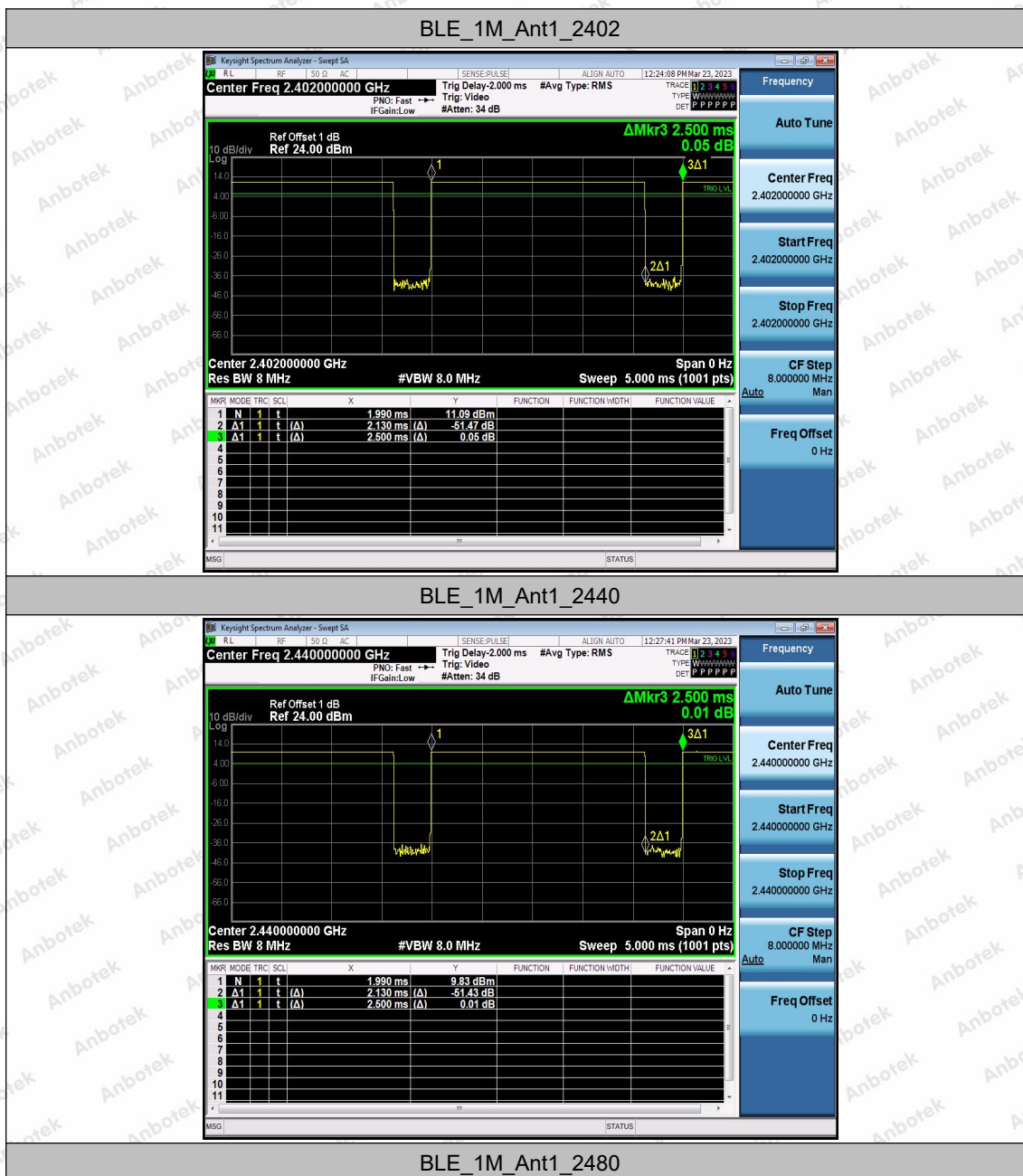
## Appendix G: Duty Cycle

### 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           | 2.13            | 2.50           | 85.20             | 0.70                     |
|          |         | 2440           | 2.13            | 2.50           | 85.20             | 0.70                     |
|          |         | 2480           | 2.13            | 2.50           | 85.20             | 0.70                     |



## Test Graphs



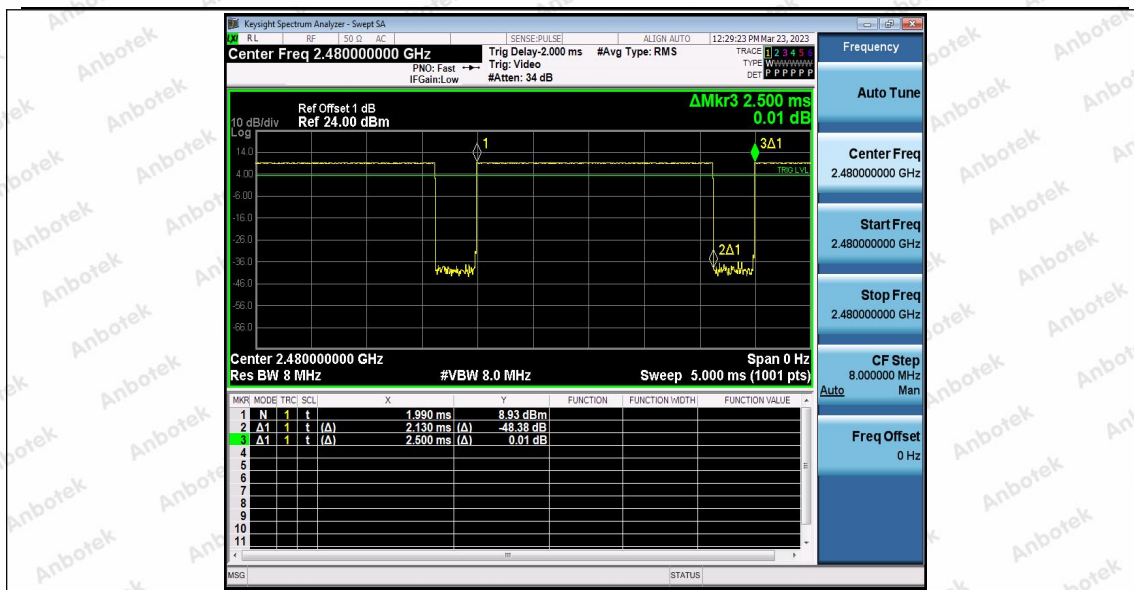
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