

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20041101 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.3.3        | Finish Test Date:  | 2022.3.7          |
| Test Engineer:   | <i>Jony.He</i>  | Auditor:           | <i>Edward.Pan</i> |
| Temperature:     | 24.3°C          | Relative Humidity: | 56 %              |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: DTS Bandwidth

## Test Result

| TestMode | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|--------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 0.716        | 2401.636 | 2402.352 | ≥0.5       | PASS    |
|          |         | 2440    | 0.680        | 2439.668 | 2440.348 | ≥0.5       | PASS    |
|          |         | 2480    | 0.704        | 2479.636 | 2480.340 | ≥0.5       | PASS    |

## Test Graphs





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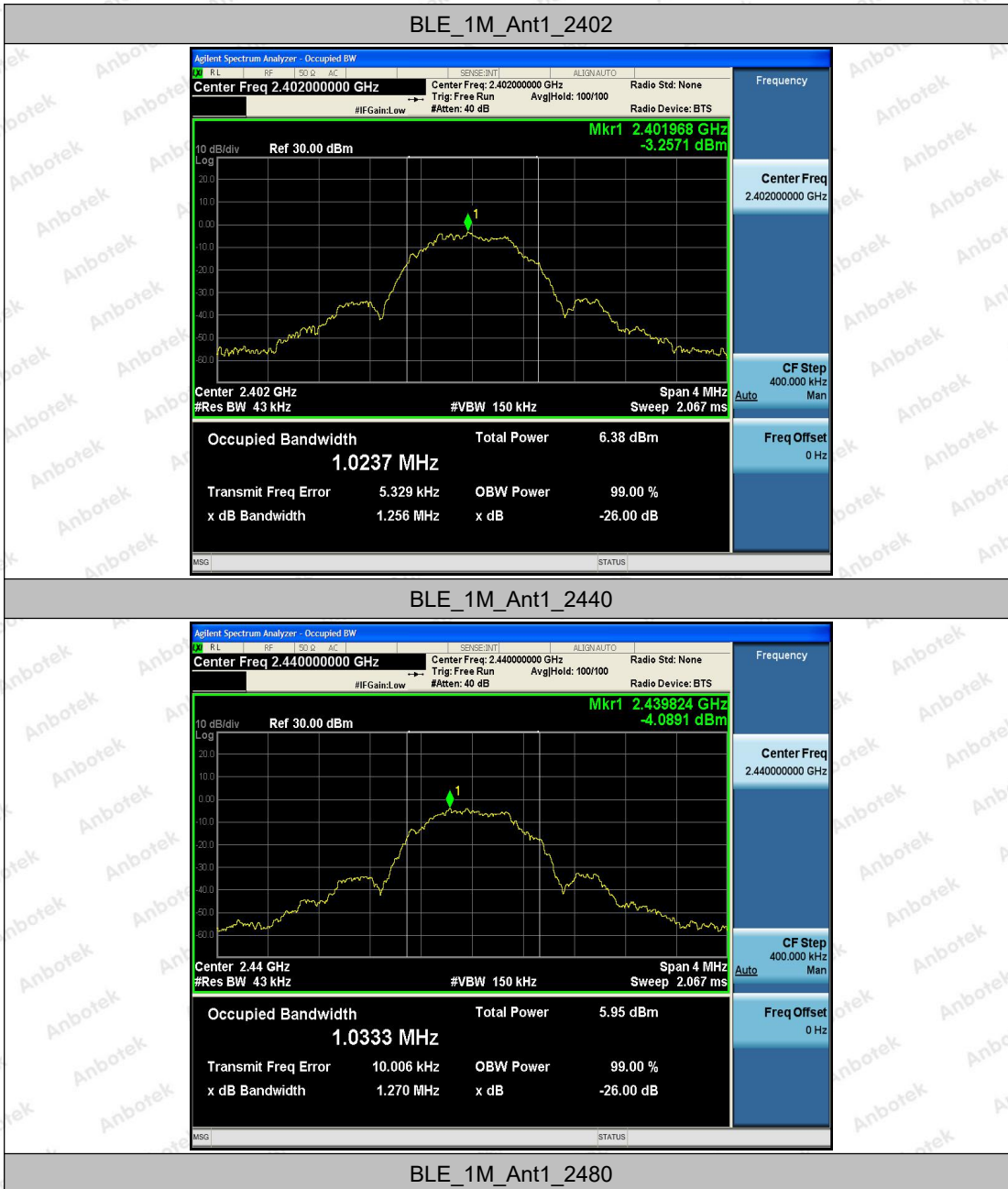


## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 1.0237    | 2401.493 | 2402.517 | ---        | PASS    |
|          |         | 2440    | 1.0333    | 2439.493 | 2440.527 | ---        | PASS    |
|          |         | 2480    | 1.0212    | 2479.498 | 2480.519 | ---        | PASS    |

## Test Graphs





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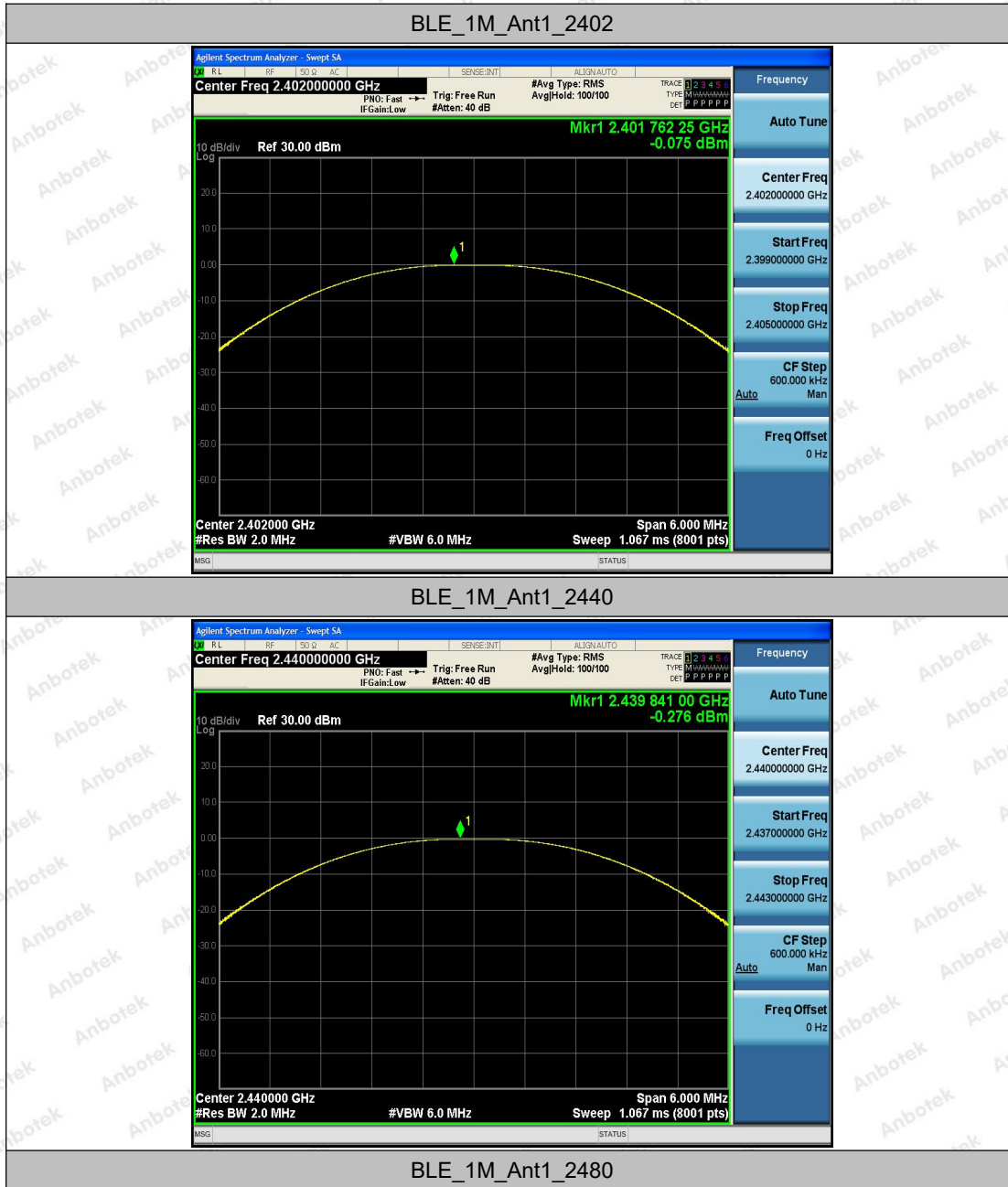


## Appendix C: Maximum conducted output power

### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | -0.08       | ≤30        | PASS    |
|          |         | 2440    | -0.28       | ≤30        | PASS    |
|          |         | 2480    | 0.55        | ≤30        | PASS    |

## Test Graphs



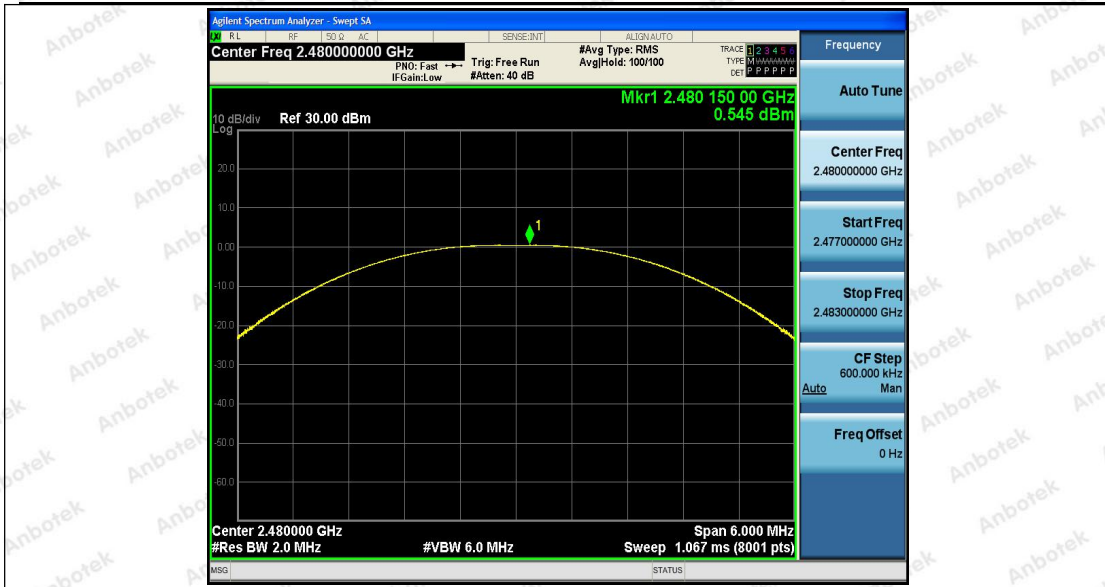
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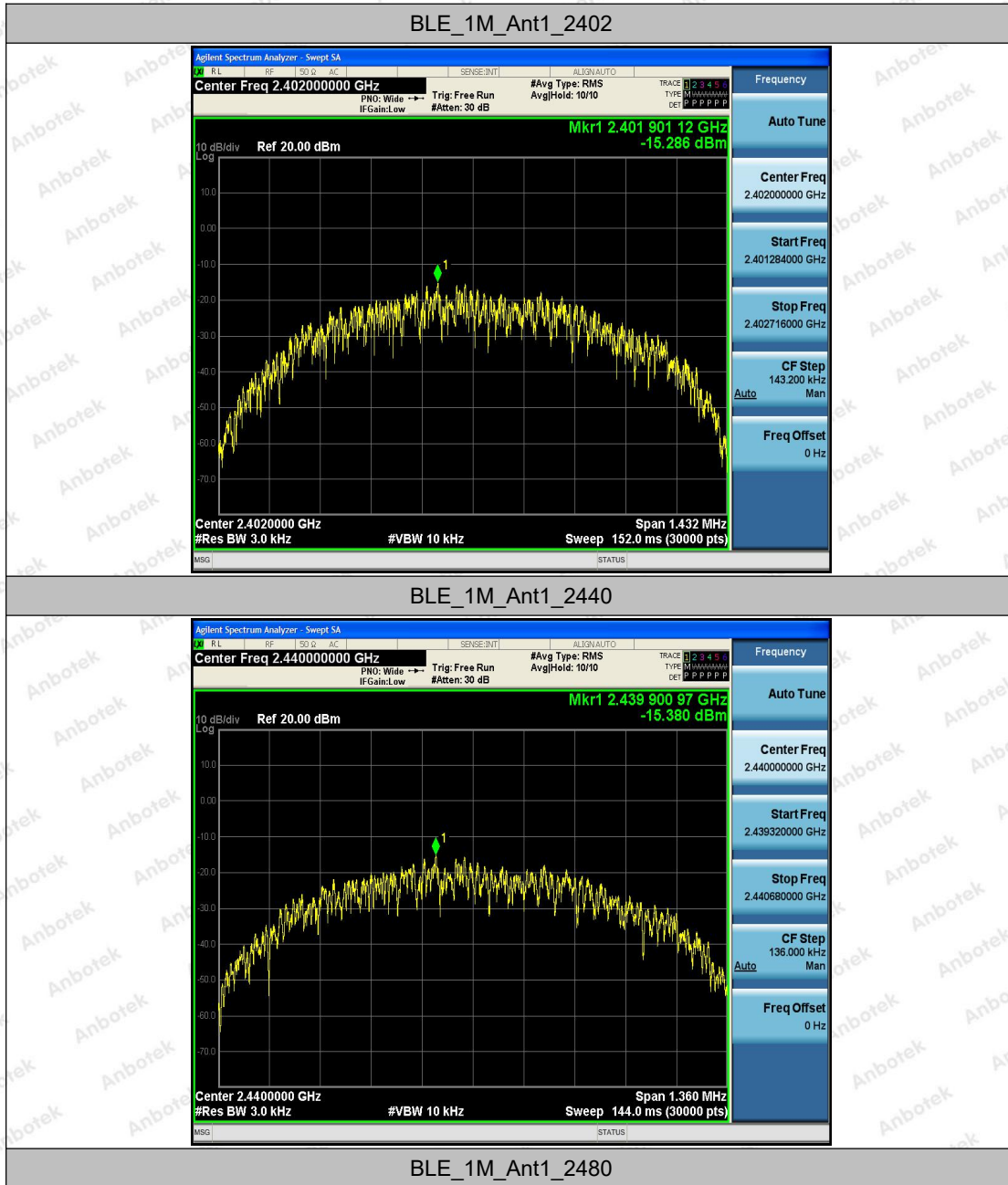
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## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402    | -15.29           | ≤8              | PASS    |
|          |         | 2440    | -15.38           | ≤8              | PASS    |
|          |         | 2480    | -14.88           | ≤8              | PASS    |

## Test Graphs



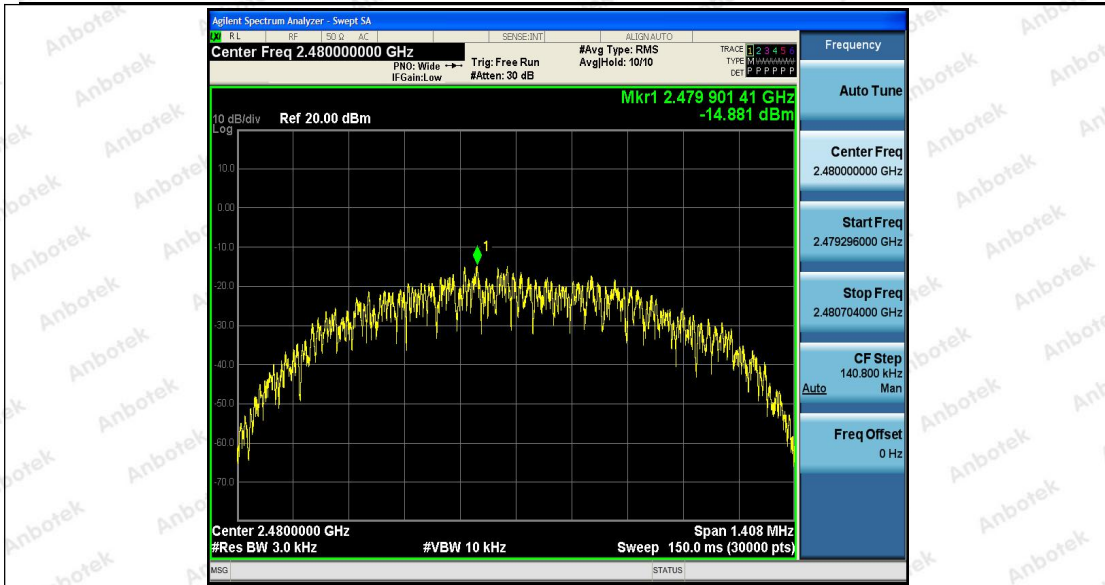
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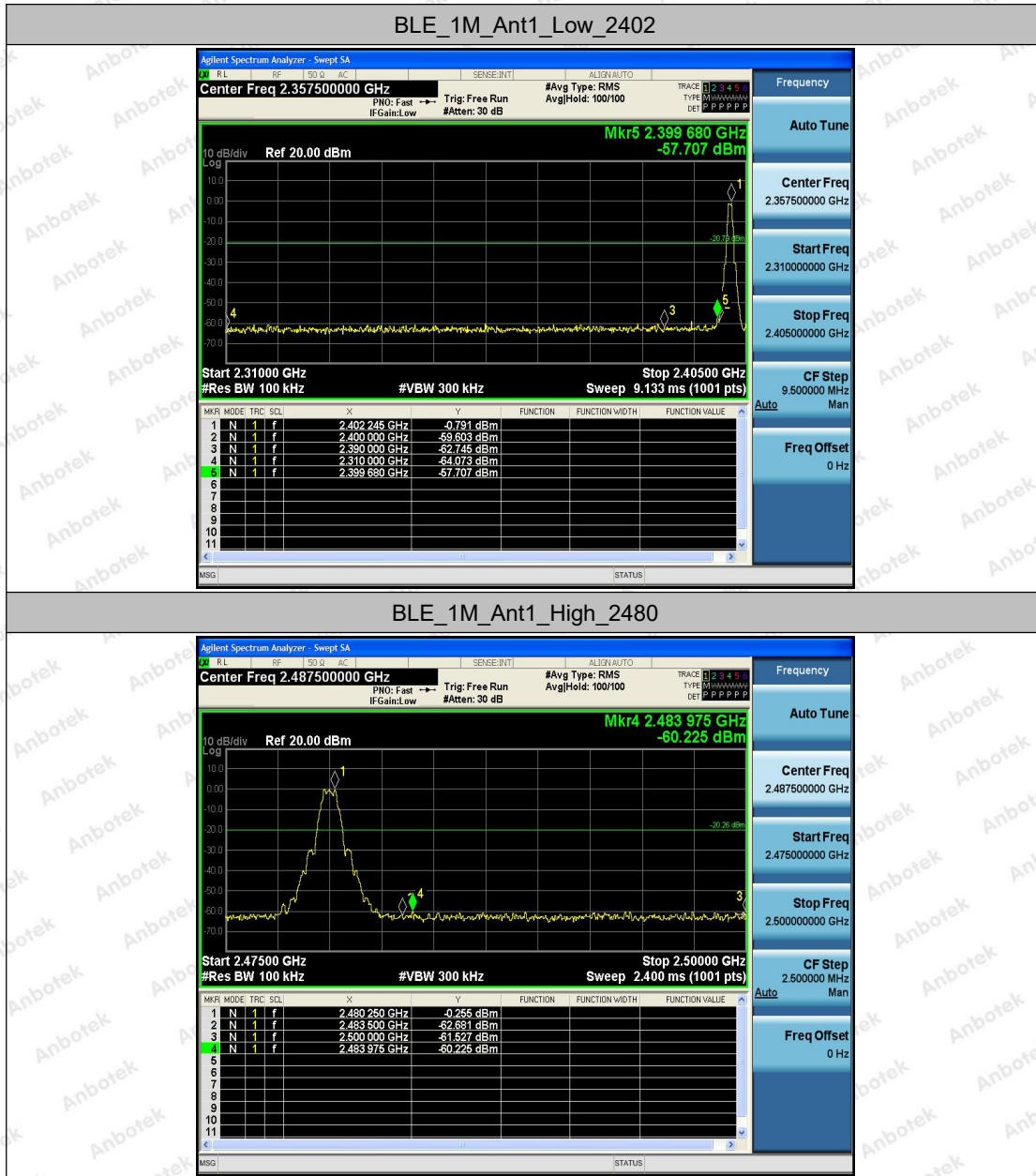
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## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|---------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | -0.79         | -57.71      | ≤-20.79    | PASS    |
|          |         | High   | 2480    | -0.26         | -60.23      | ≤-20.26    | PASS    |

## Test Graphs



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## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | Reference          | -1.31             | -1.31       | ---        | PASS    |
|          |         |         | 30~1000            | -1.31             | -69.94      | ≤-21.31    | PASS    |
|          |         |         | 1000~265<br>00     | -1.31             | -55.79      | ≤-21.31    | PASS    |
|          |         | 2440    | Reference          | -1.20             | -1.20       | ---        | PASS    |
|          |         |         | 30~1000            | -1.20             | -69.65      | ≤-21.2     | PASS    |
|          |         |         | 1000~265<br>00     | -1.20             | -55.37      | ≤-21.2     | PASS    |
|          |         | 2480    | Reference          | -0.46             | -0.46       | ---        | PASS    |
|          |         |         | 30~1000            | -0.46             | -69.6       | ≤-20.46    | PASS    |
|          |         |         | 1000~265<br>00     | -0.46             | -55.68      | ≤-20.46    | PASS    |

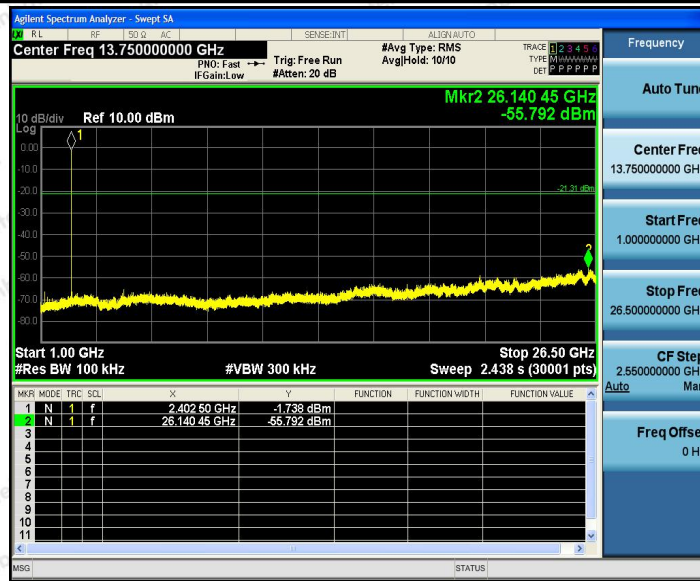
## Test Graphs



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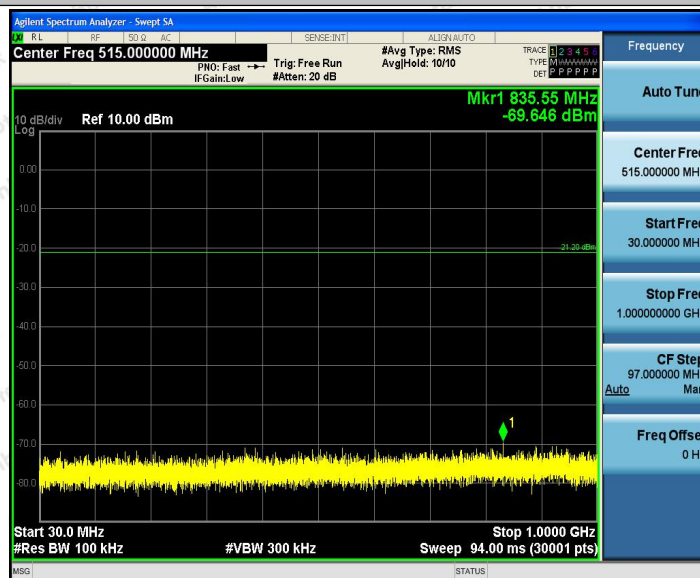
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BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000



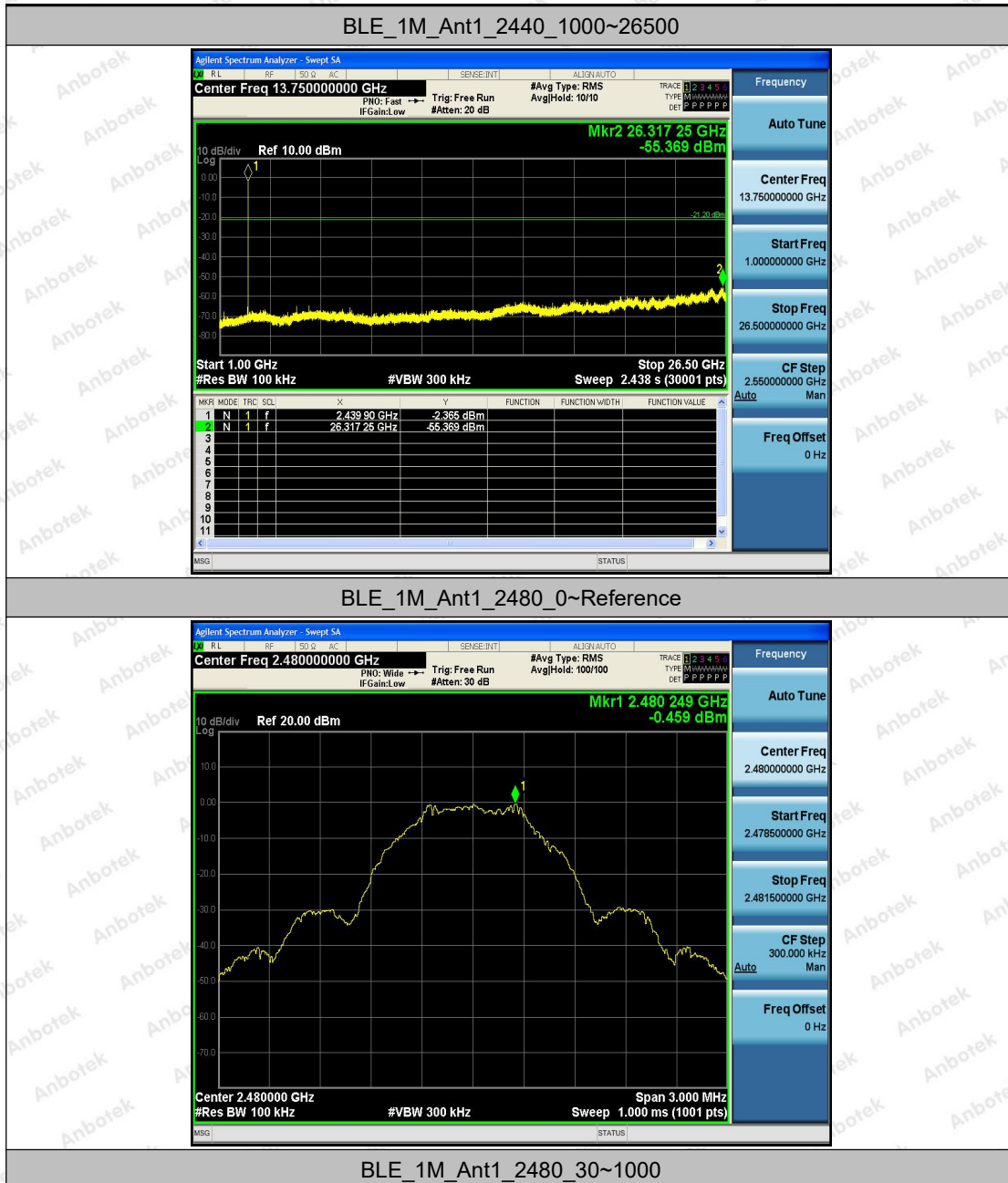
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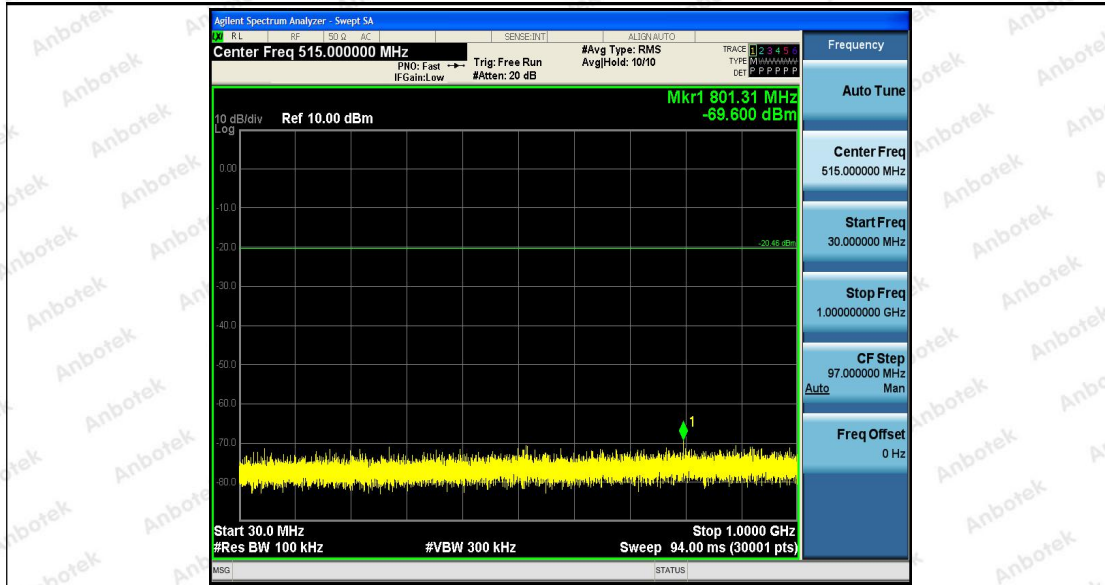


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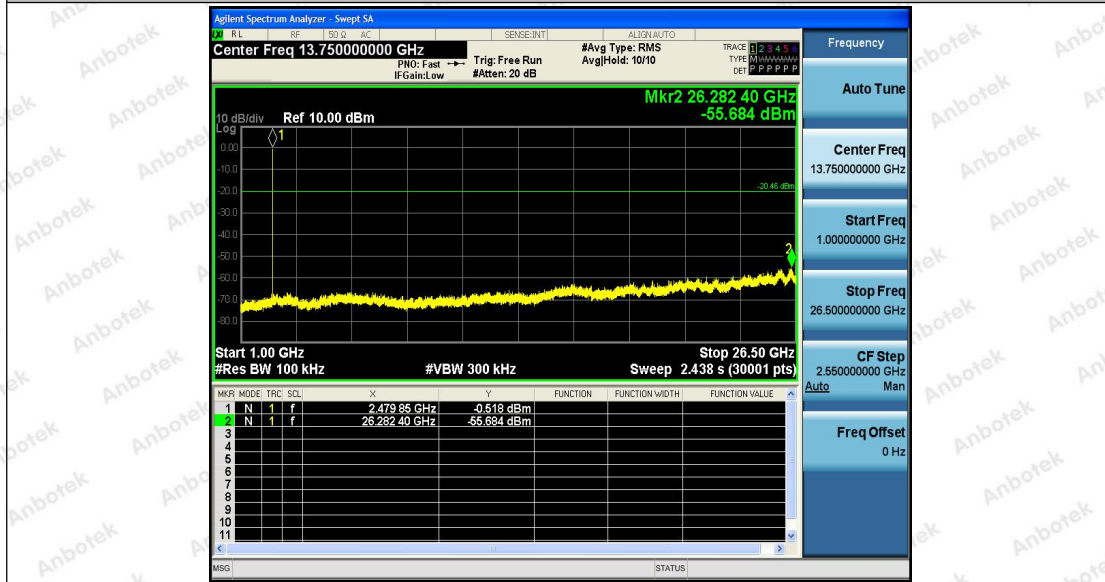
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BLE\_1M\_Ant1\_2480\_1000~26500



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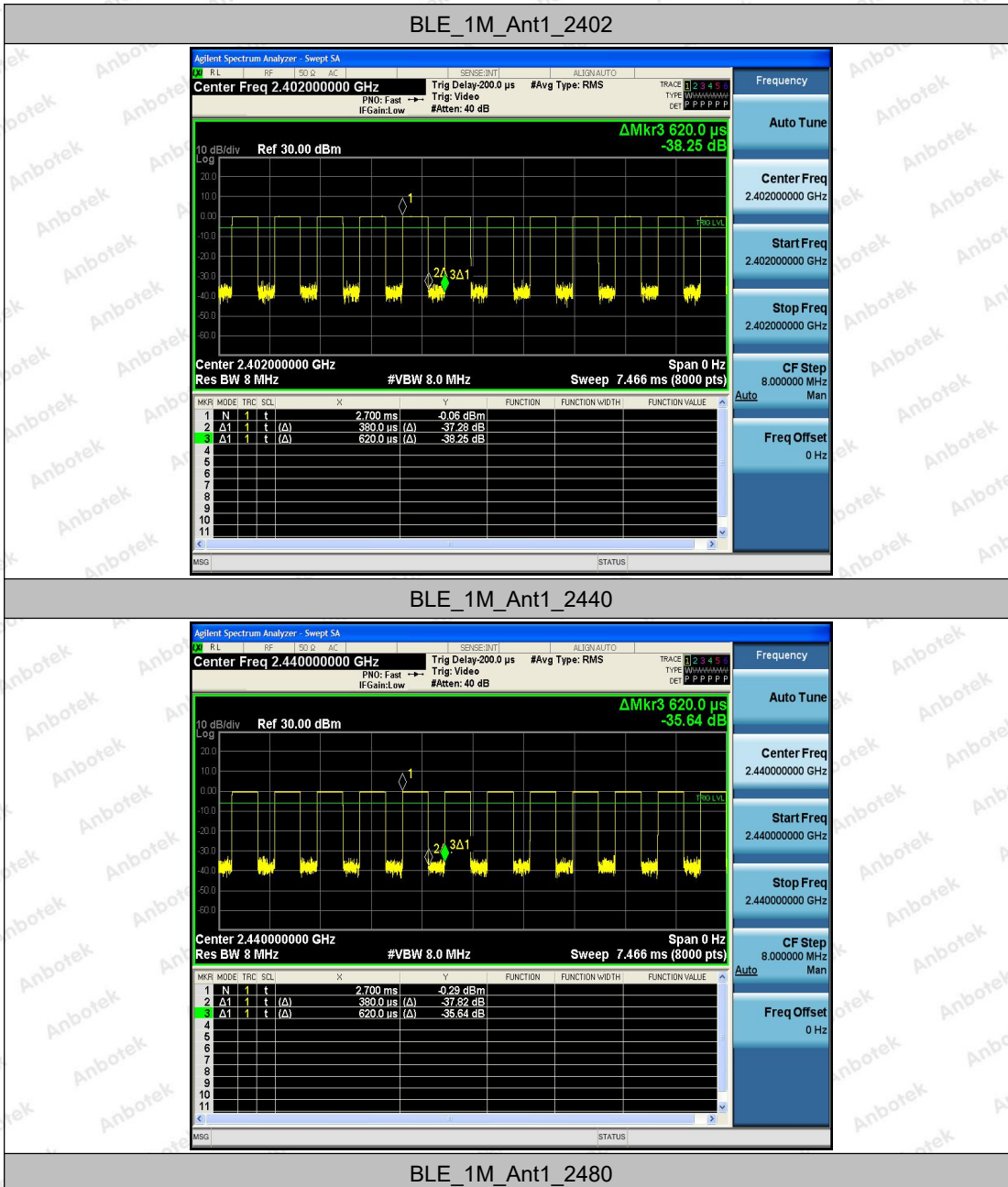
## Appendix G: Duty Cycle

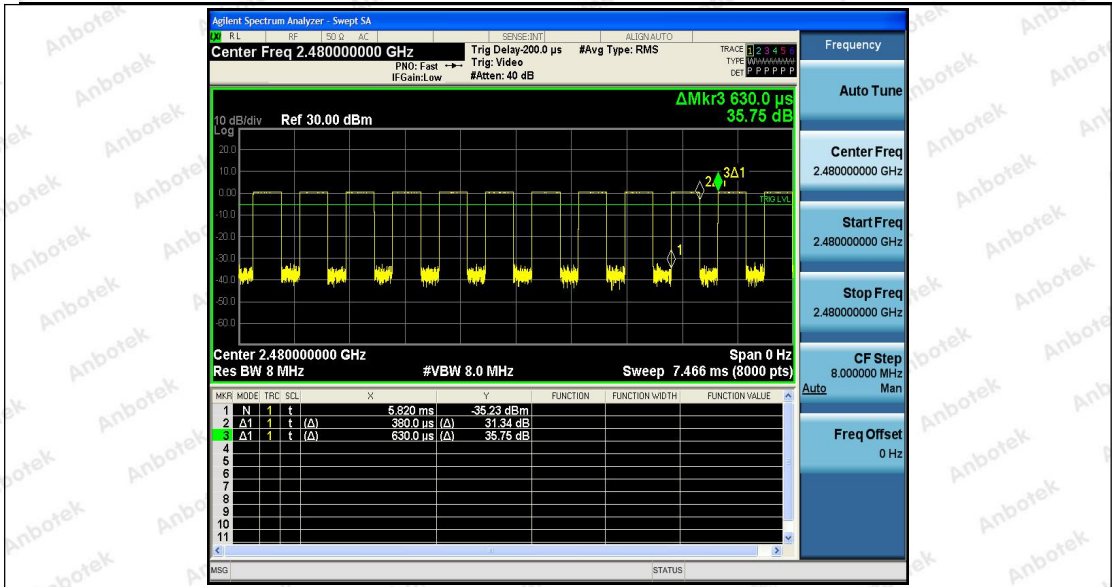
### Test Result

| TestMode | Antenna | Channel | ON Time [ms] | Period [ms] | X      | DC [%] | xFactor | Limit | Verdict |
|----------|---------|---------|--------------|-------------|--------|--------|---------|-------|---------|
| BLE_1M   | Ant1    | 2402    | 0.38         | 0.62        | 0.6129 | 61.29  | 2.13    | ---   | PASS    |
|          |         | 2440    | 0.38         | 0.62        | 0.6129 | 61.29  | 2.13    | ---   | PASS    |
|          |         | 2480    | 0.38         | 0.63        | 0.6032 | 60.32  | 2.20    | ---   | PASS    |



## Test Graphs





---End---