

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20025702 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.2.21       | Finish Test Date:  | 2022.2.23         |
| Test Engineer:   | <i>Tony 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    | 0.672        | 2401.660 | 2402.332 | ≥0.5       | PASS    |
|          |         | 2440    | 0.692        | 2439.656 | 2440.348 | ≥0.5       | PASS    |
|          |         | 2480    | 0.700        | 2479.640 | 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    | 1.0326    | 2401.497 | 2402.530 | ---        | PASS    |
|          |         | 2440    | 1.0249    | 2439.494 | 2440.519 | ---        | PASS    |
|          |         | 2480    | 1.0292    | 2479.497 | 2480.527 | ---        | PASS    |

## Test Graphs



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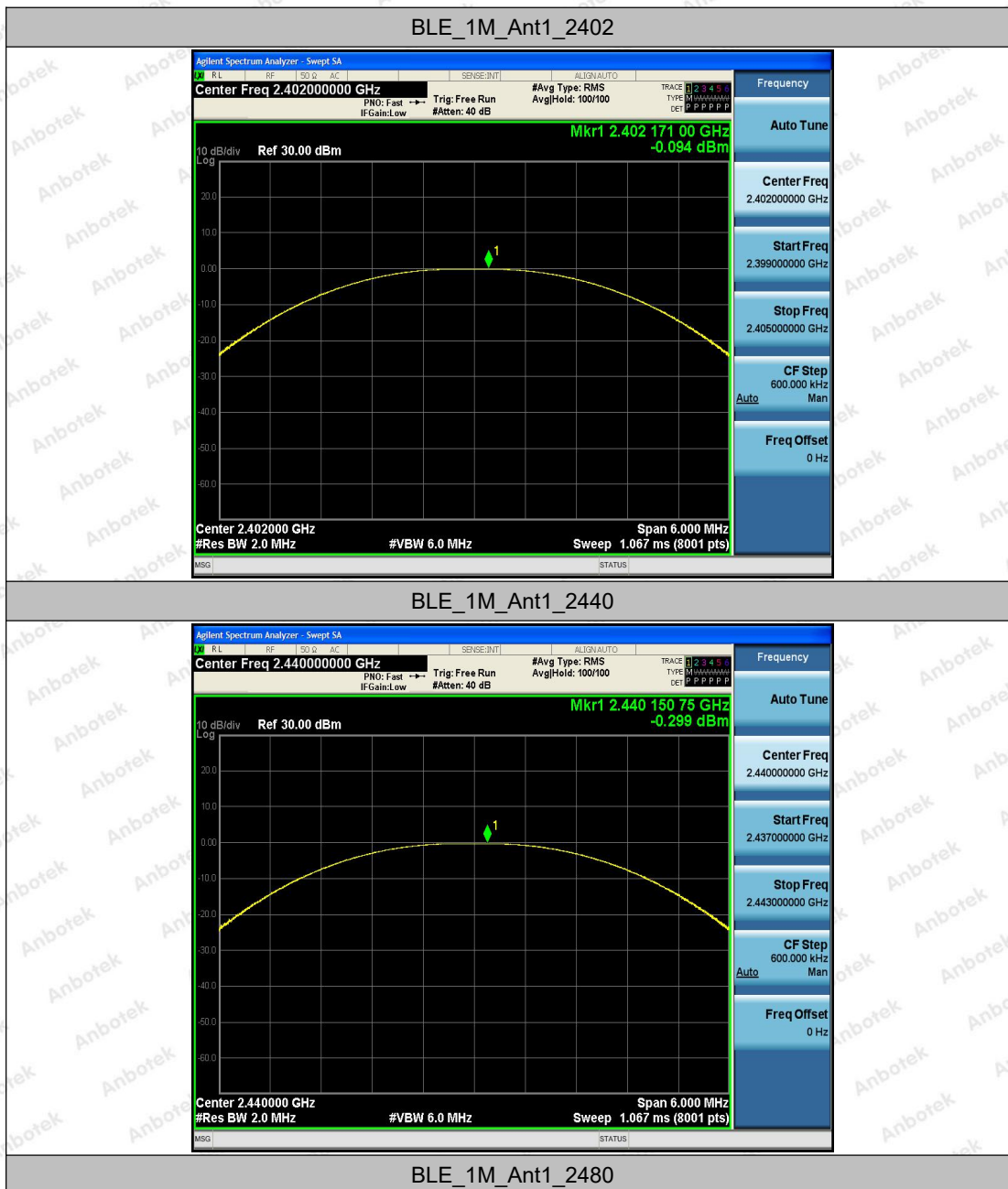
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## Appendix C: Maximum conducted output power

### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | -0.09       | ≤30        | PASS    |
|          |         | 2440    | -0.3        | ≤30        | PASS    |
|          |         | 2480    | 0.46        | ≤30        | PASS    |

## Test Graphs

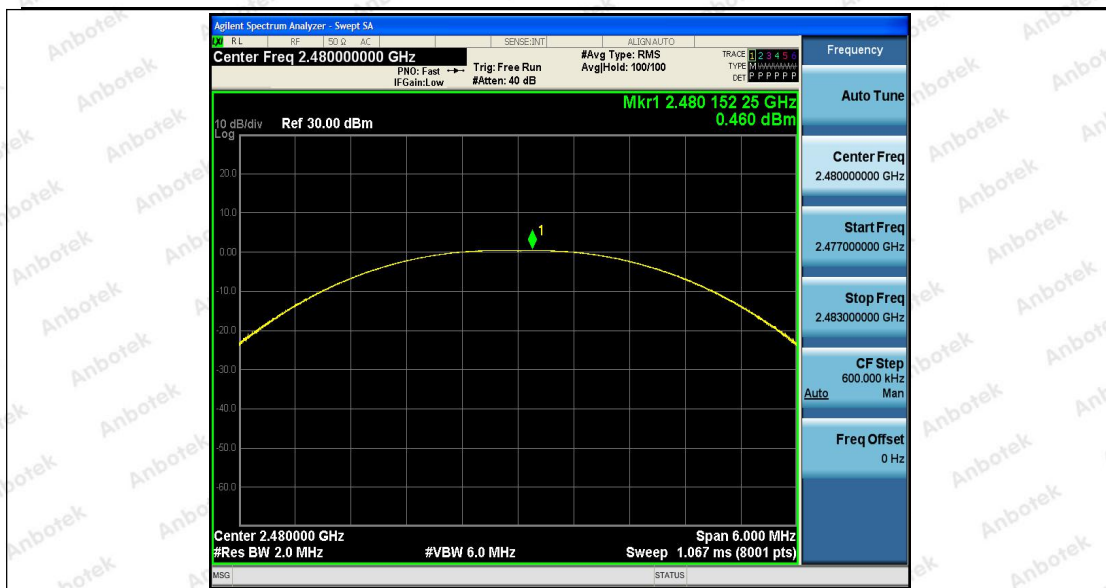


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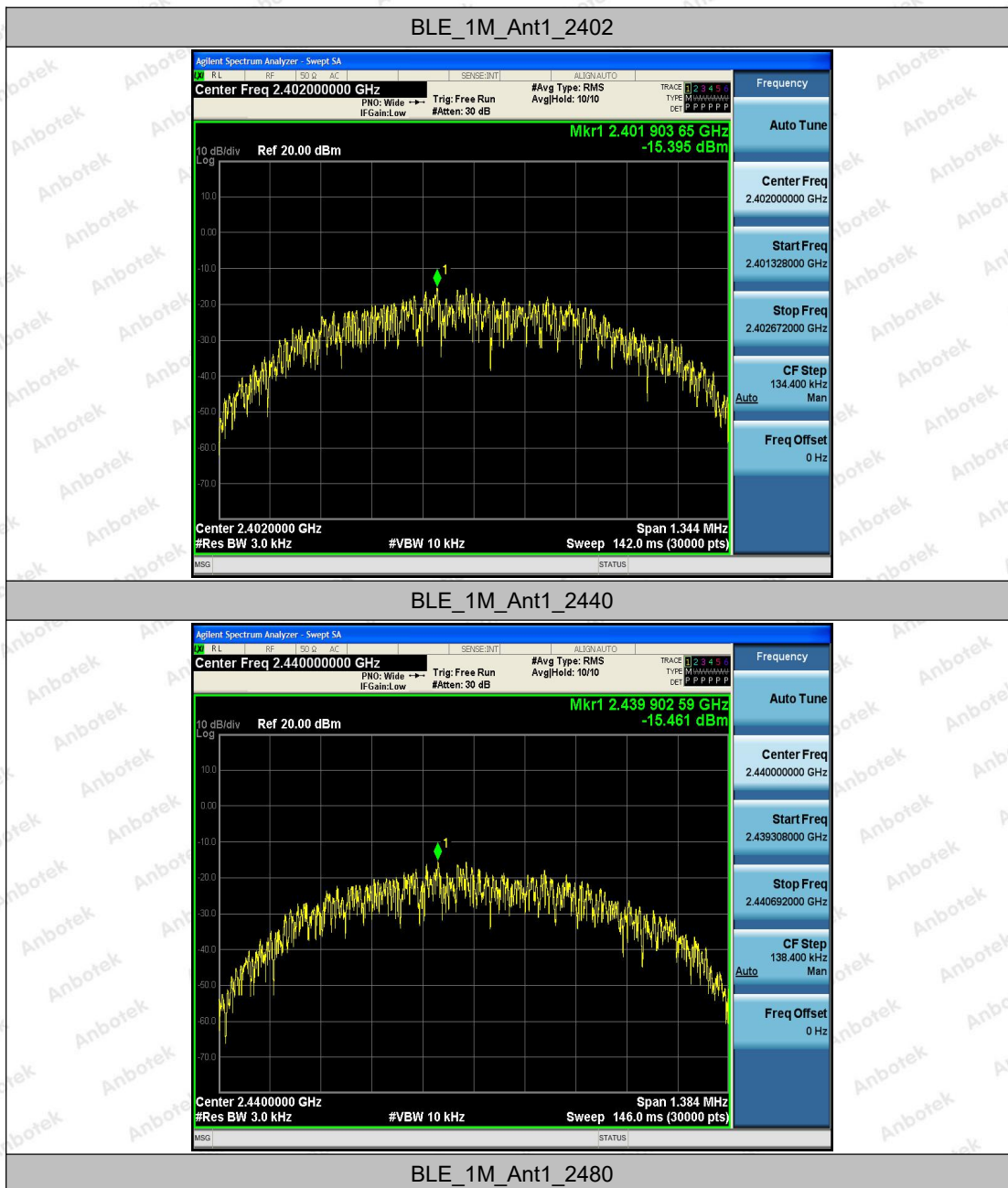
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## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402    | -15.4            | ≤8              | PASS    |
|          |         | 2440    | -15.46           | ≤8              | PASS    |
|          |         | 2480    | -15.16           | ≤8              | PASS    |

## Test Graphs



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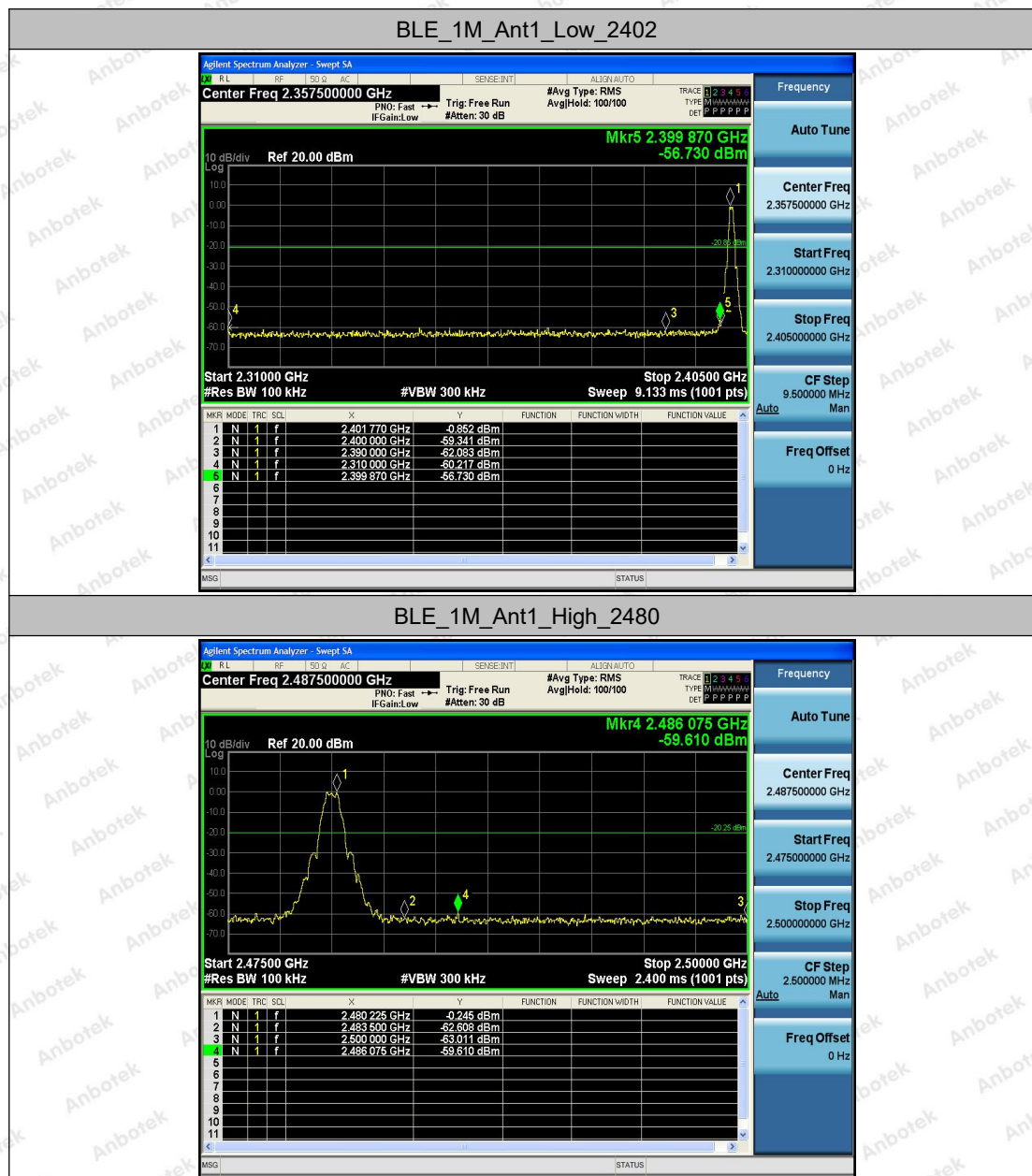
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## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|---------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | -0.85         | -56.73      | ≤-20.85    | PASS    |
|          |         | High   | 2480    | -0.25         | -59.61      | ≤-20.25    | PASS    |

## Test Graphs



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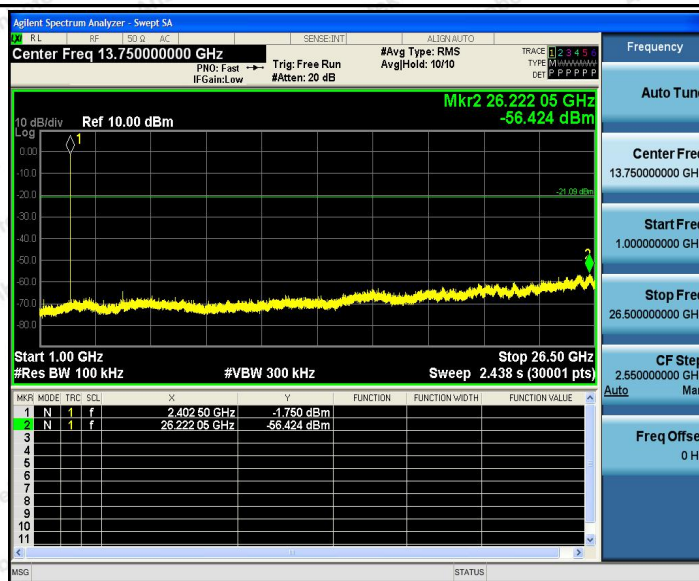
## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | Reference          | -1.09             | -1.09       | ---        | PASS    |
|          |         |         | 30~1000            | -1.09             | -65.85      | ≤-21.09    | PASS    |
|          |         |         | 1000~265<br>00     | -1.09             | -56.42      | ≤-21.09    | PASS    |
|          |         | 2440    | Reference          | -1.27             | -1.27       | ---        | PASS    |
|          |         |         | 30~1000            | -1.27             | -69.49      | ≤-21.27    | PASS    |
|          |         |         | 1000~265<br>00     | -1.27             | -56.1       | ≤-21.27    | PASS    |
|          |         | 2480    | Reference          | -0.45             | -0.45       | ---        | PASS    |
|          |         |         | 30~1000            | -0.45             | -69.94      | ≤-20.45    | PASS    |
|          |         |         | 1000~265<br>00     | -0.45             | -56.08      | ≤-20.45    | PASS    |

## Test Graphs

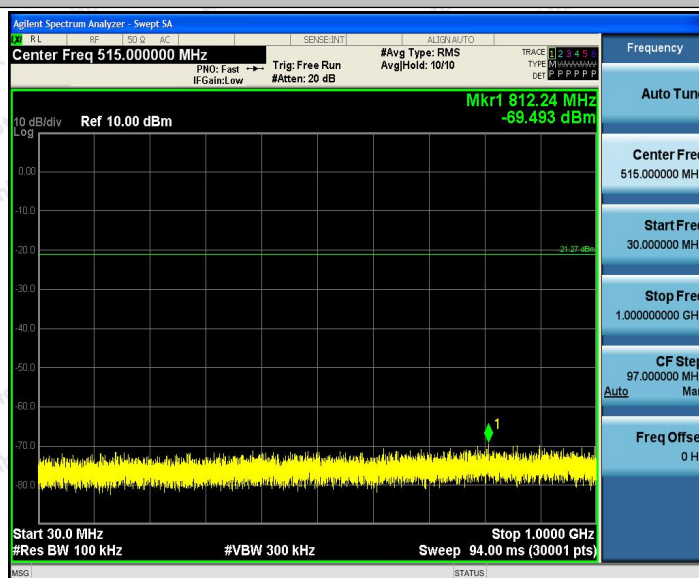




BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000



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## BLE\_1M\_Ant1\_2440\_1000~26500



## BLE\_1M\_Ant1\_2480\_0~Reference



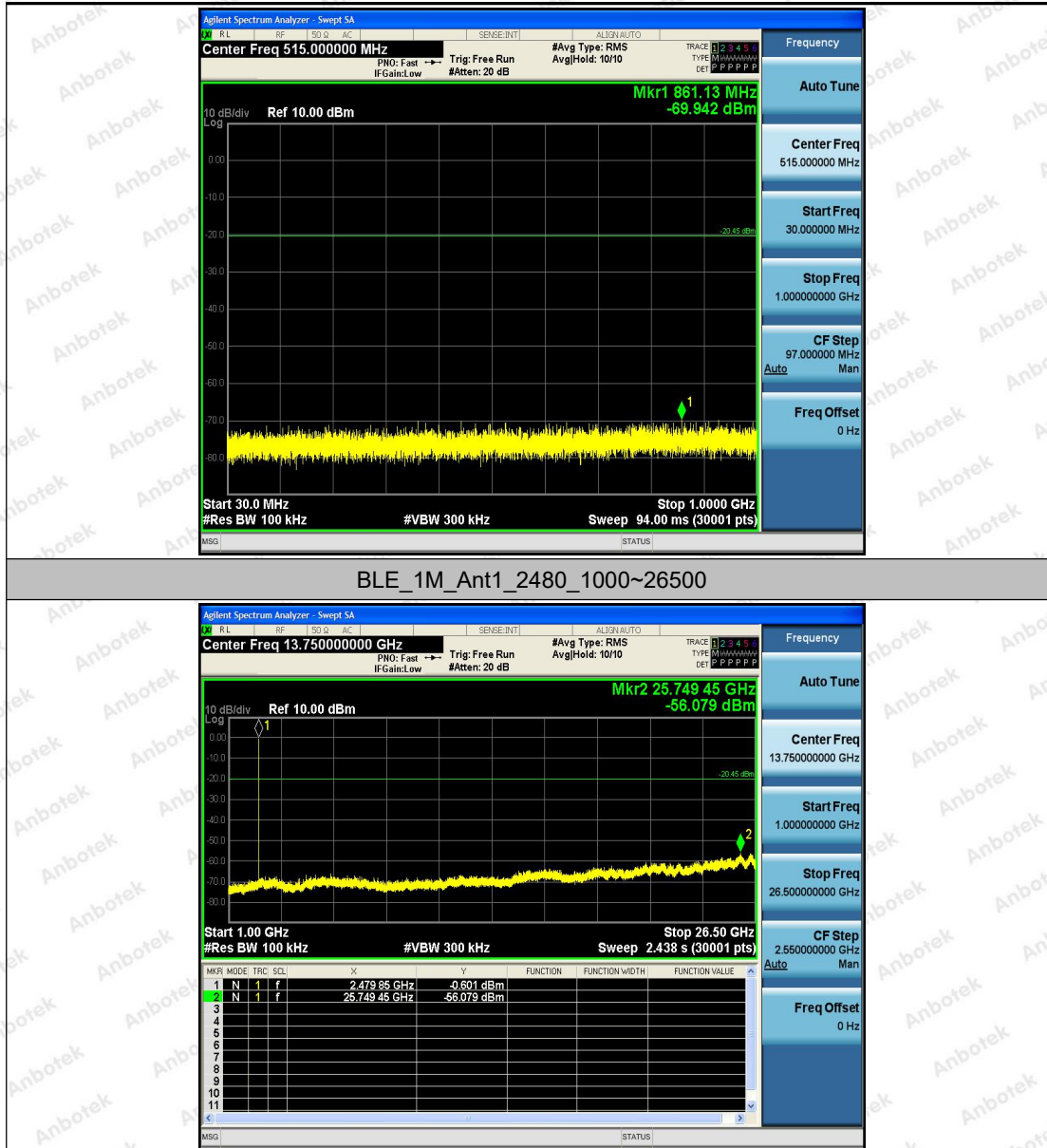
## BLE\_1M\_Ant1\_2480\_30~1000

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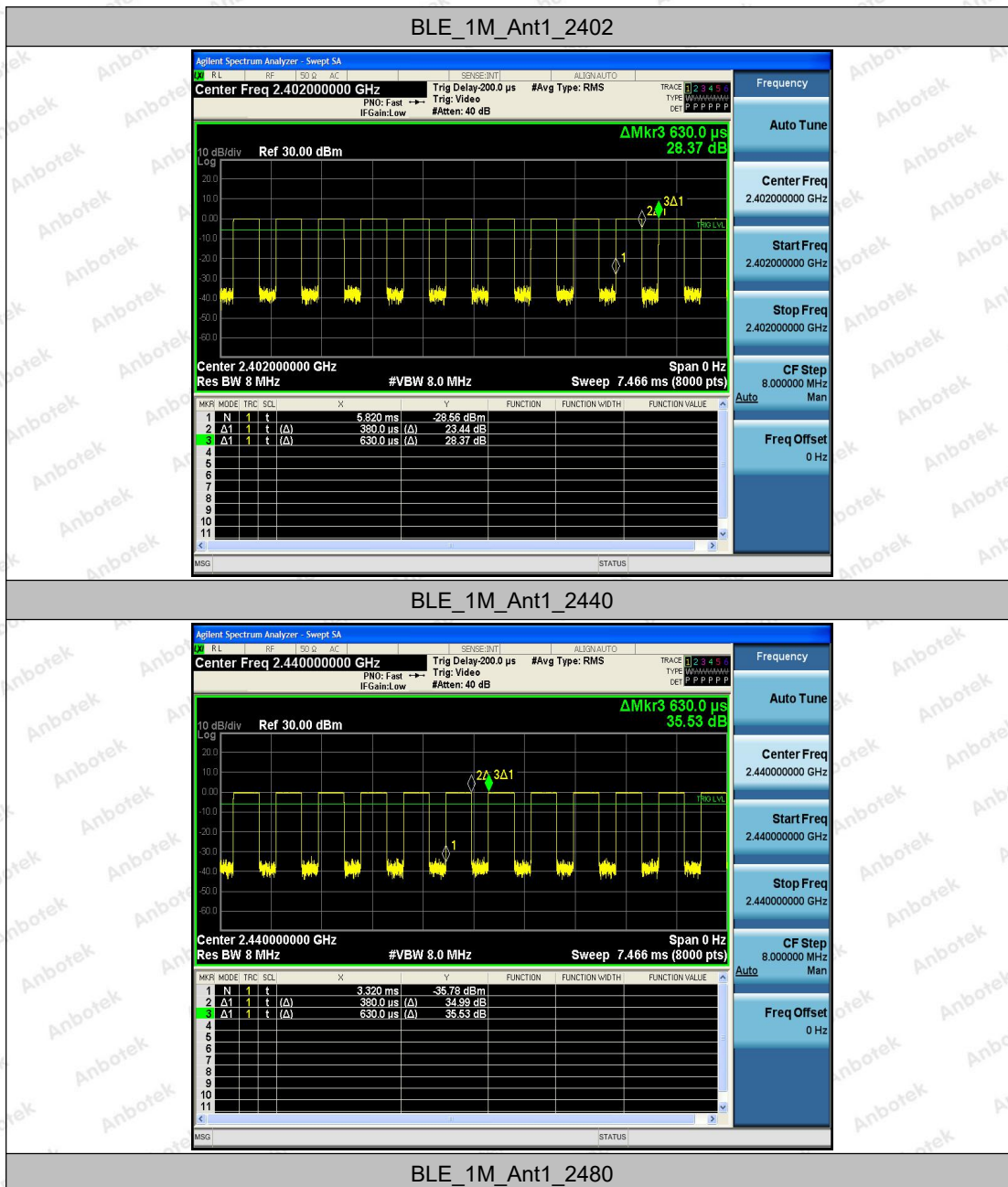
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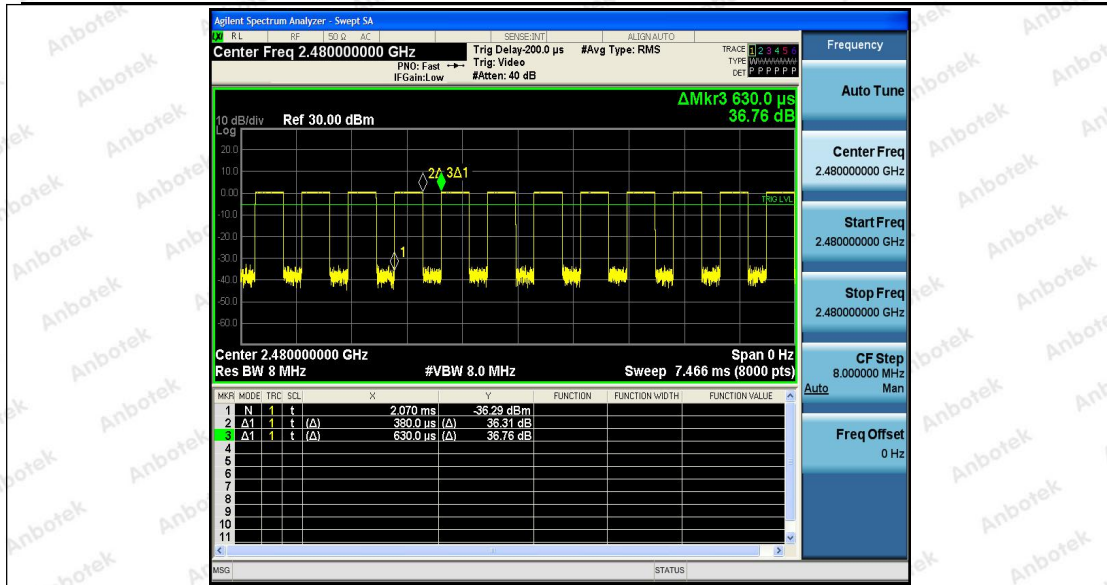
## Appendix G: Duty Cycle

### Test Result

| TestMode | Antenna | Channel | ON Time<br>[ms] | Period<br>[ms] | X          | DC<br>[%] | xFactor | Limit | Verdict |
|----------|---------|---------|-----------------|----------------|------------|-----------|---------|-------|---------|
| BLE_1M   | Ant1    | 2402    | 0.38            | 0.63           | 0.603<br>2 | 60.32     | 2.20    | ---   | PASS    |
|          |         | 2440    | 0.38            | 0.63           | 0.603<br>2 | 60.32     | 2.20    | ---   | PASS    |
|          |         | 2480    | 0.38            | 0.63           | 0.603<br>2 | 60.32     | 2.20    | ---   | PASS    |

## Test Graphs





---End---