

## Appendix Test Data

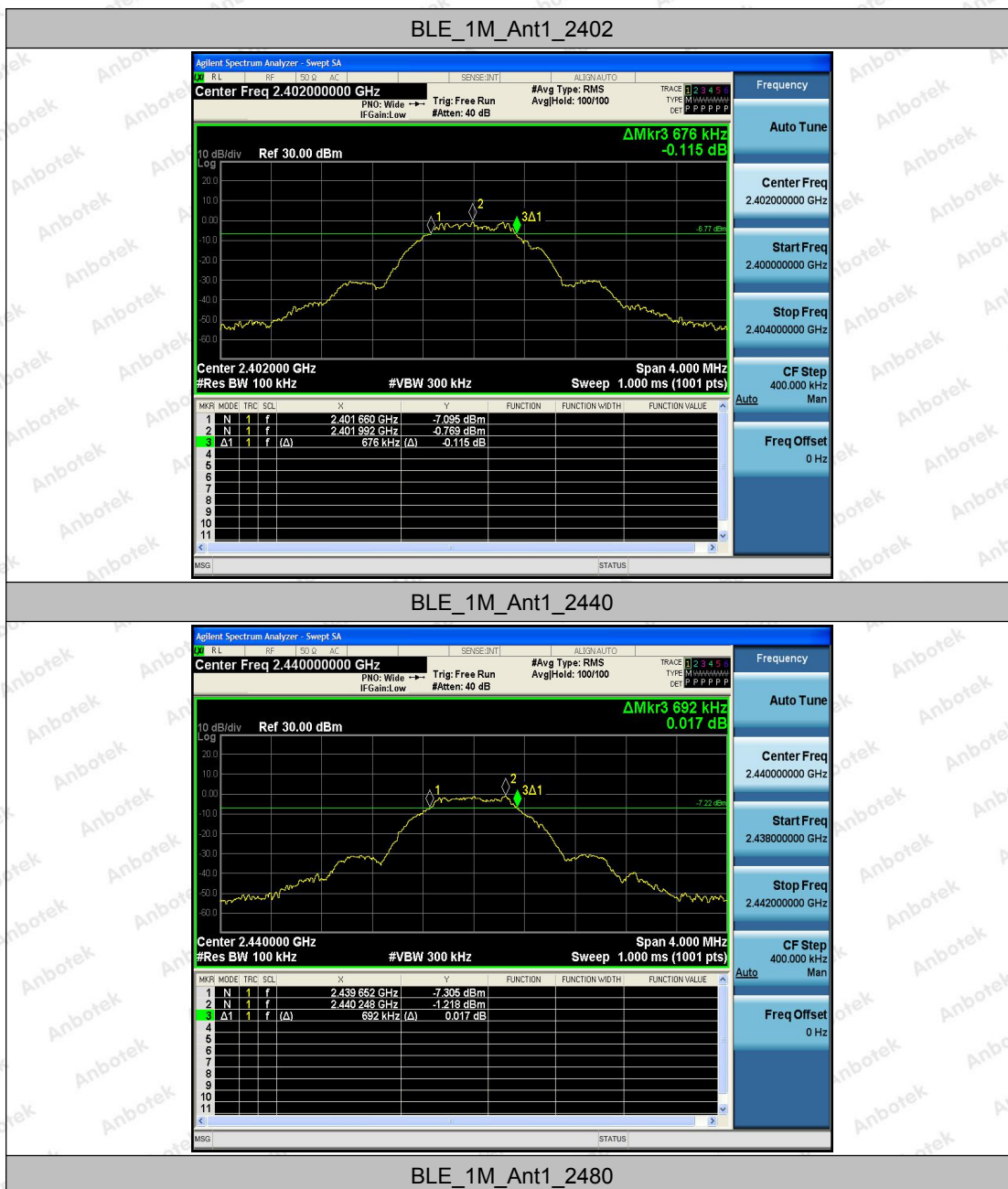
|                |                 |                    |                   |
|----------------|-----------------|--------------------|-------------------|
| Report No.:    | 18220WC10241201 | Test Date:         | 2021.11.3         |
| Test Engineer: | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:   | 24.3C°          | Relative Humidity: | 57 %              |
| Pressure:      | 1012 hPa        |                    |                   |

## Appendix A: DTS Bandwidth

## Test Result

| Test Mode | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|--------------|----------|----------|------------|---------|
| BLE_1M    | Ant1    | 2402    | 0.676        | 2401.660 | 2402.336 | ≥0.5       | PASS    |
|           |         | 2440    | 0.692        | 2439.652 | 2440.344 | ≥0.5       | PASS    |
|           |         | 2480    | 0.688        | 2479.644 | 2480.332 | ≥0.5       | PASS    |

## Test Graphs



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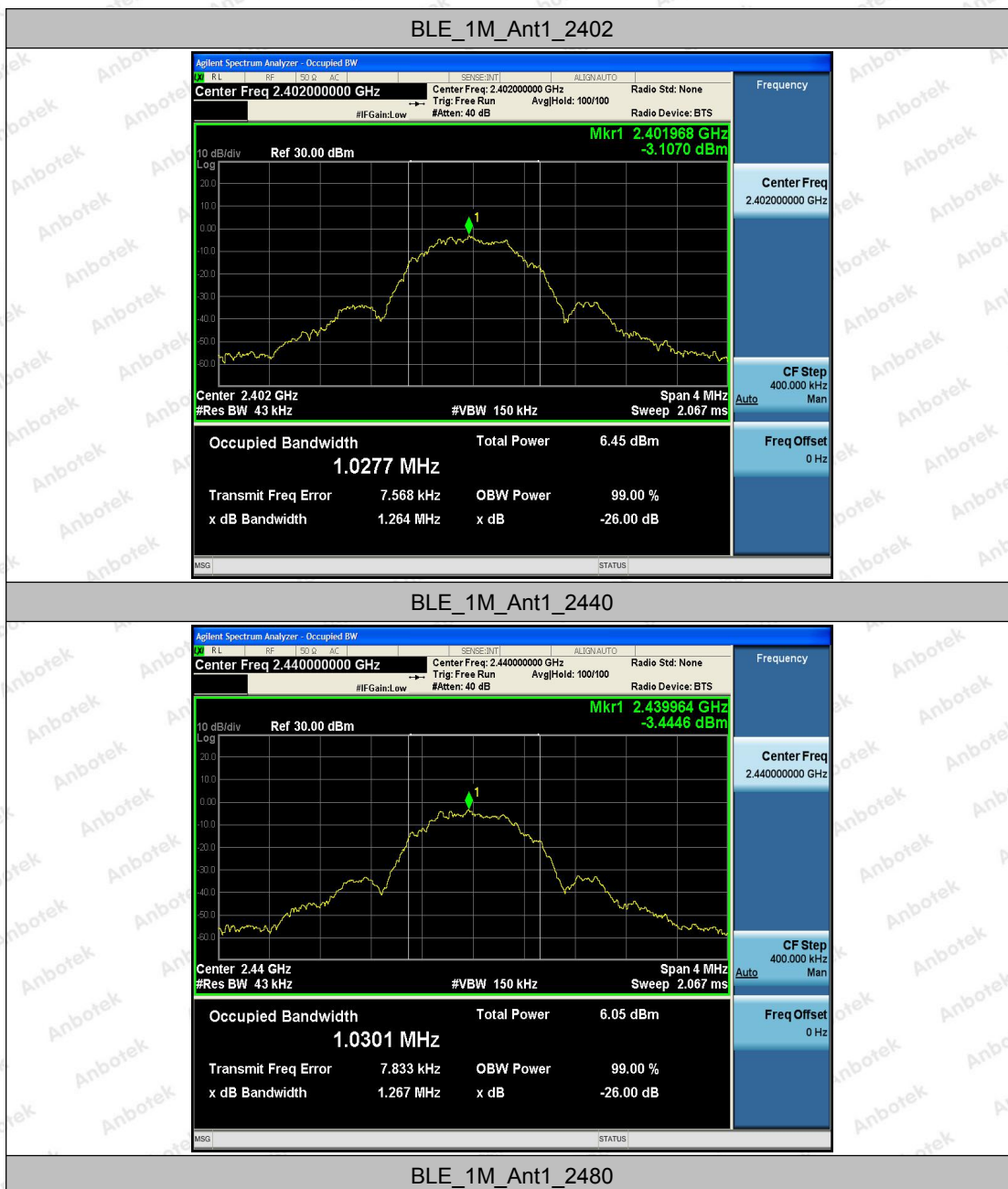
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## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------|----------|----------|------------|---------|
| BLE_1M    | Ant1    | 2402    | 1.0277    | 2401.494 | 2402.521 | ---        | PASS    |
|           |         | 2440    | 1.0301    | 2439.493 | 2440.523 | ---        | PASS    |
|           |         | 2480    | 1.0305    | 2479.492 | 2480.522 | ---        | PASS    |

## Test Graphs



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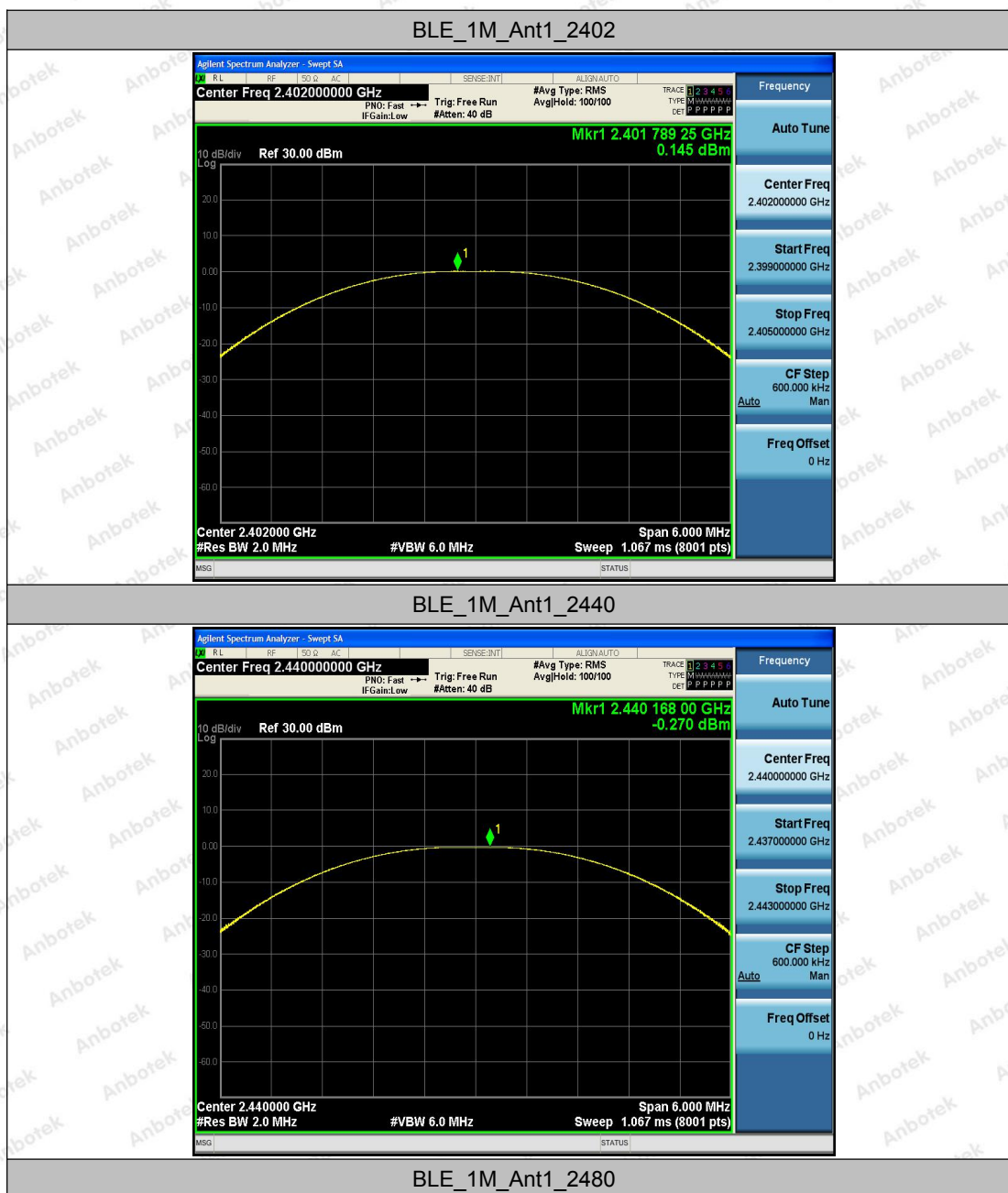
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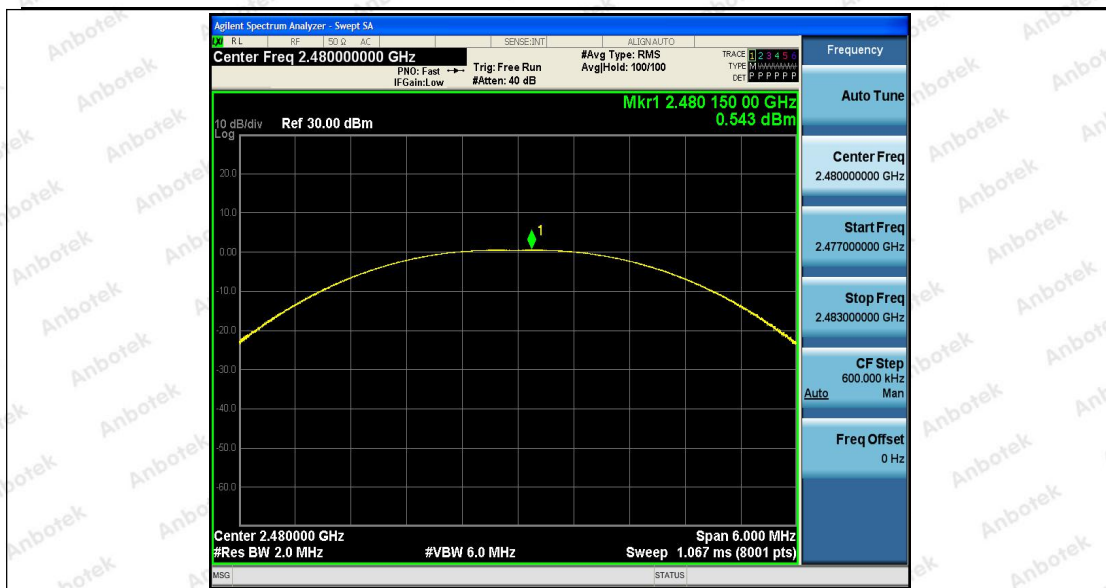
## Appendix C: Maximum conducted output power

### Test Result

| Test Mode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| BLE_1M    | Ant1    | 2402    | 0.15        | ≤30        | PASS    |
|           |         | 2440    | -0.27       | ≤30        | PASS    |
|           |         | 2480    | 0.54        | ≤30        | PASS    |

## Test Graphs





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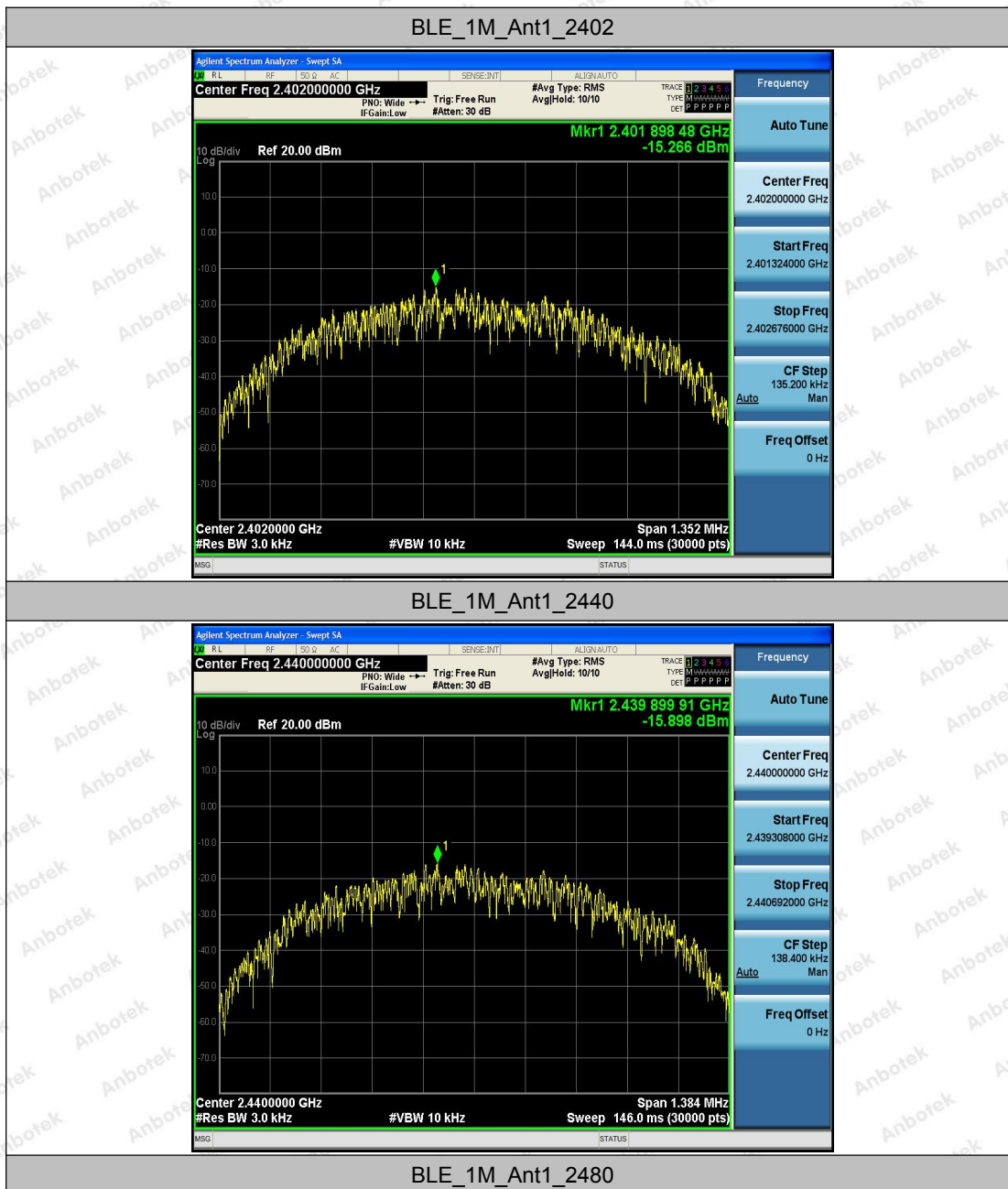
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## Appendix D: Maximum power spectral density

### Test Result

| Test Mode | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|---------|------------------|-----------------|---------|
| BLE_1M    | Ant1    | 2402    | -15.27           | ≤8              | PASS    |
|           |         | 2440    | -15.9            | ≤8              | PASS    |
|           |         | 2480    | -14.71           | ≤8              | PASS    |

## Test Graphs

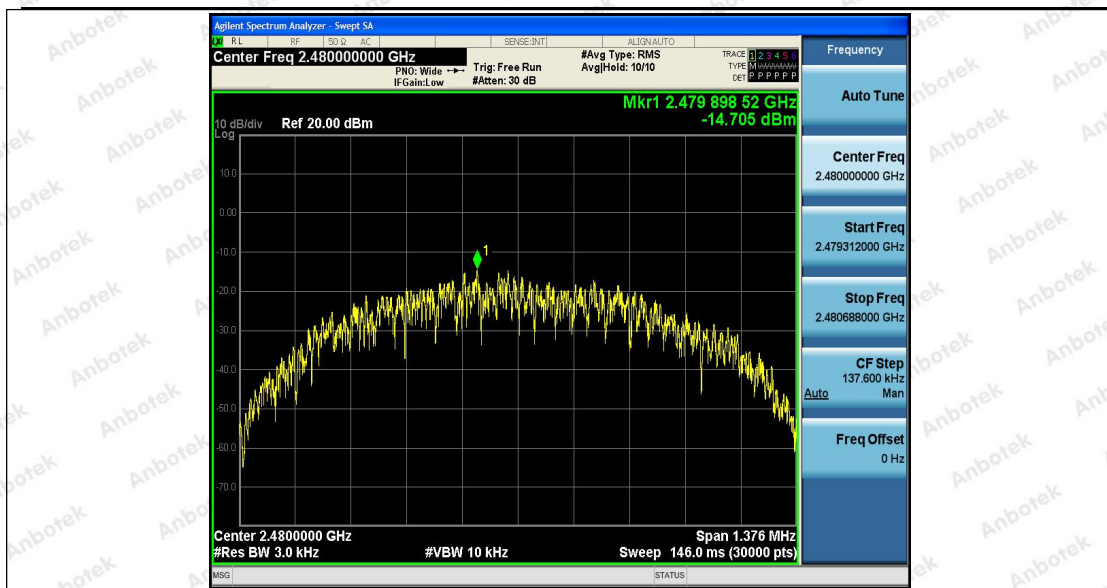


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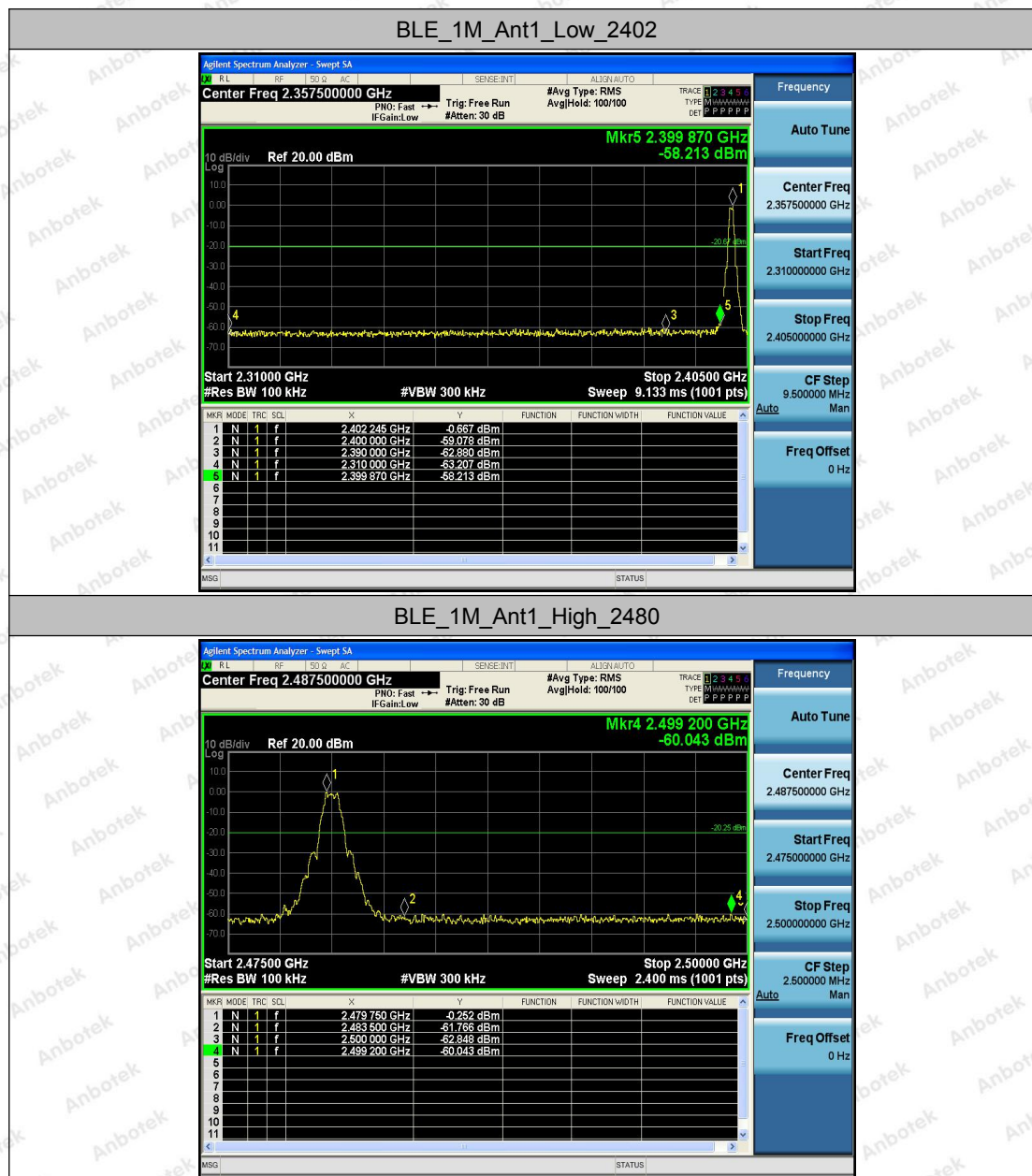
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## Appendix E: Band edge measurements

### Test Result

| Test Mode | Antenna | Ch Name | Channel | Ref Level[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|-----------|---------|---------|---------|----------------|-------------|---------------|---------|
| BLE_1M    | Ant1    | Low     | 2402    | -0.67          | -58.21      | $\leq -20.67$ | PASS    |
|           |         | High    | 2480    | -0.25          | -60.04      | $\leq -20.25$ | PASS    |

## Test Graphs



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## Appendix F: Conducted Spurious Emission

### Test Result

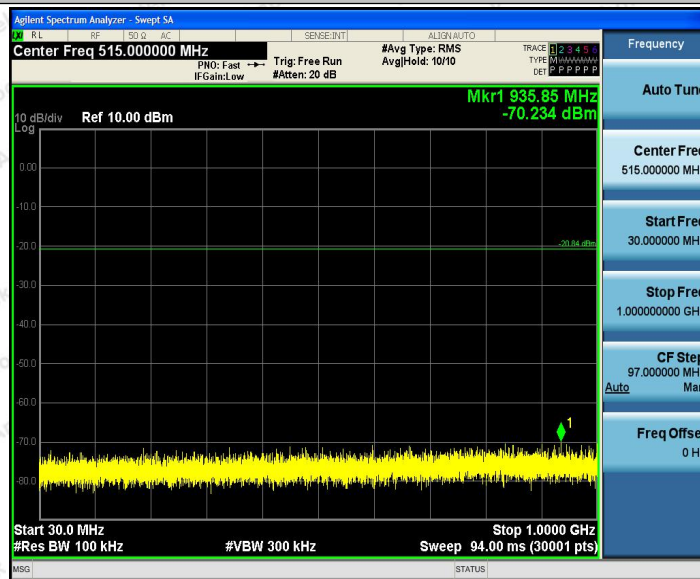
| Test Mode | Antenna | Channel | FreqRange<br>[MHz] | Ref Level<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|--------------------|--------------------|-------------|------------|---------|
| BLE_1M    | Ant1    | 2402    | Reference          | -0.84              | -0.84       | ---        | PASS    |
|           |         |         | 30~1000            | -0.84              | -70.23      | ≤-20.84    | PASS    |
|           |         |         | 1000~26500         | -0.84              | -55.56      | ≤-20.84    | PASS    |
|           |         | 2440    | Reference          | -1.22              | -1.22       | ---        | PASS    |
|           |         |         | 30~1000            | -1.22              | -70.31      | ≤-21.22    | PASS    |
|           |         |         | 1000~26500         | -1.22              | -54.78      | ≤-21.22    | PASS    |
|           |         | 2480    | Reference          | -0.33              | -0.33       | ---        | PASS    |
|           |         |         | 30~1000            | -0.33              | -70.59      | ≤-20.33    | PASS    |
|           |         |         | 1000~26500         | -0.33              | -54.94      | ≤-20.33    | 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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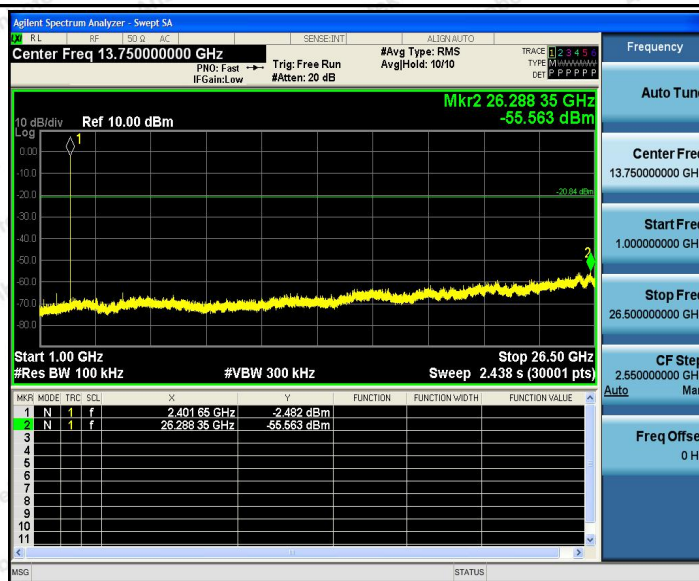
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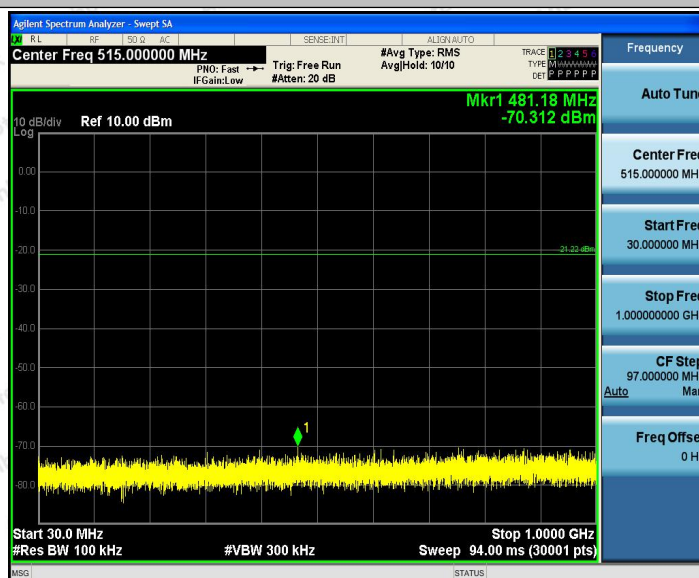
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BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000



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



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



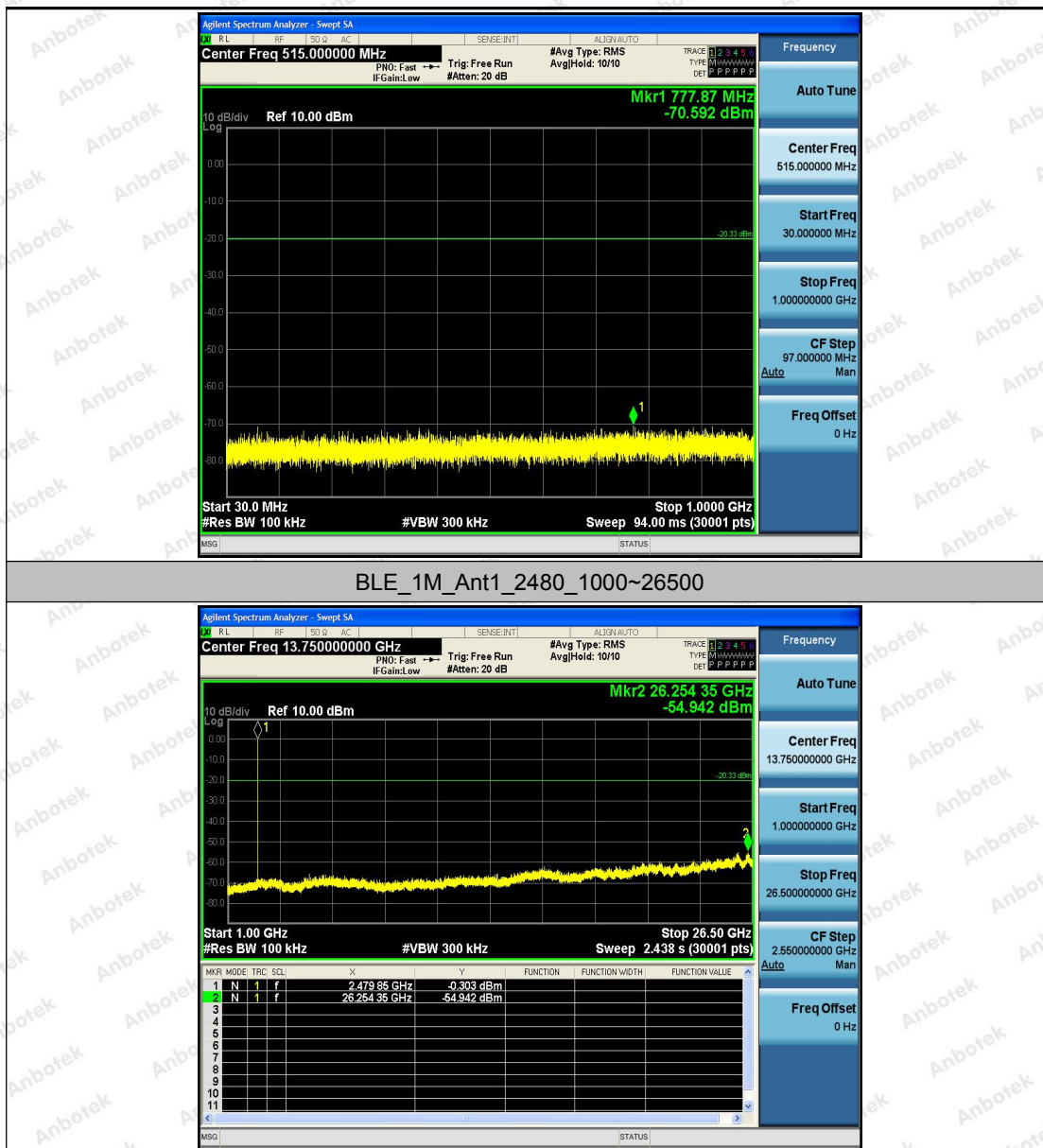
## BLE\_1M\_Ant1\_2480\_30~1000

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## Appendix G: Duty Cycle

### Test Result

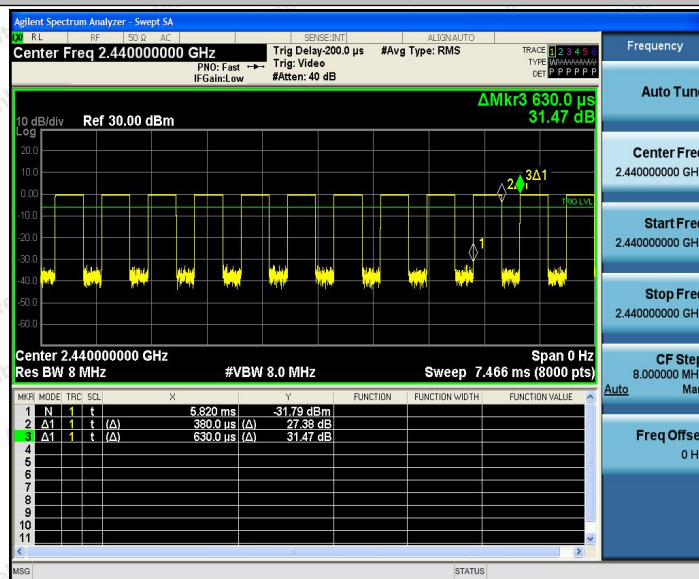
| Test Mode | Antenna | Channel | ON Time<br>[ms] | Period<br>[ms] | X      | DC<br>[%] | x Factor | Limit | Verdict |
|-----------|---------|---------|-----------------|----------------|--------|-----------|----------|-------|---------|
| BLE_1M    | Ant1    | 2402    | 0.38            | 0.63           | 0.6032 | 60.32     | 2.20     | ---   | PASS    |
|           |         | 2440    | 0.38            | 0.63           | 0.6032 | 60.32     | 2.20     | ---   | PASS    |
|           |         | 2480    | 0.38            | 0.62           | 0.6129 | 61.29     | 2.13     | ---   | PASS    |

## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

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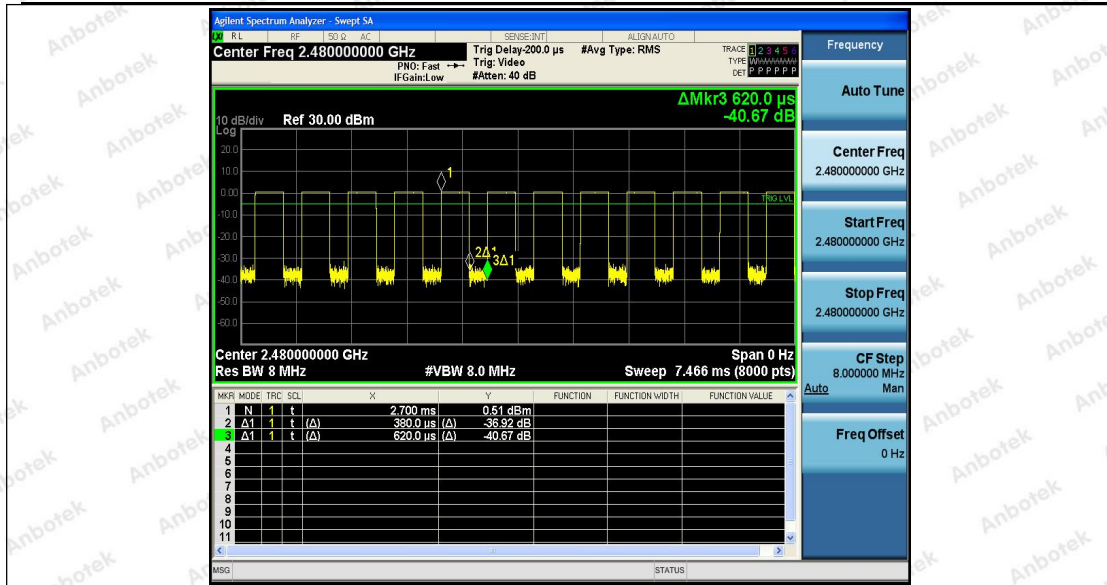
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