

## Appendix Test Data

|                |                 |                    |                   |
|----------------|-----------------|--------------------|-------------------|
| Report No.:    | 18220WC10228501 | Test Date:         | 2021.10.18        |
| 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

| TestMode | Antenna | Channel | DTS BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 0.672           | 2401.672 | 2402.344 | ≥0.5       | PASS    |
|          |         | 2440    | 0.664           | 2439.676 | 2440.340 | ≥0.5       | PASS    |
|          |         | 2480    | 0.620           | 2479.708 | 2480.328 | ≥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 | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 1.0413    | 2401.499 | 2402.540 | ---        | PASS    |
|          |         | 2440    | 1.0494    | 2439.494 | 2440.544 | ---        | PASS    |
|          |         | 2480    | 1.0427    | 2479.501 | 2480.544 | ---        | PASS    |

## Test Graphs

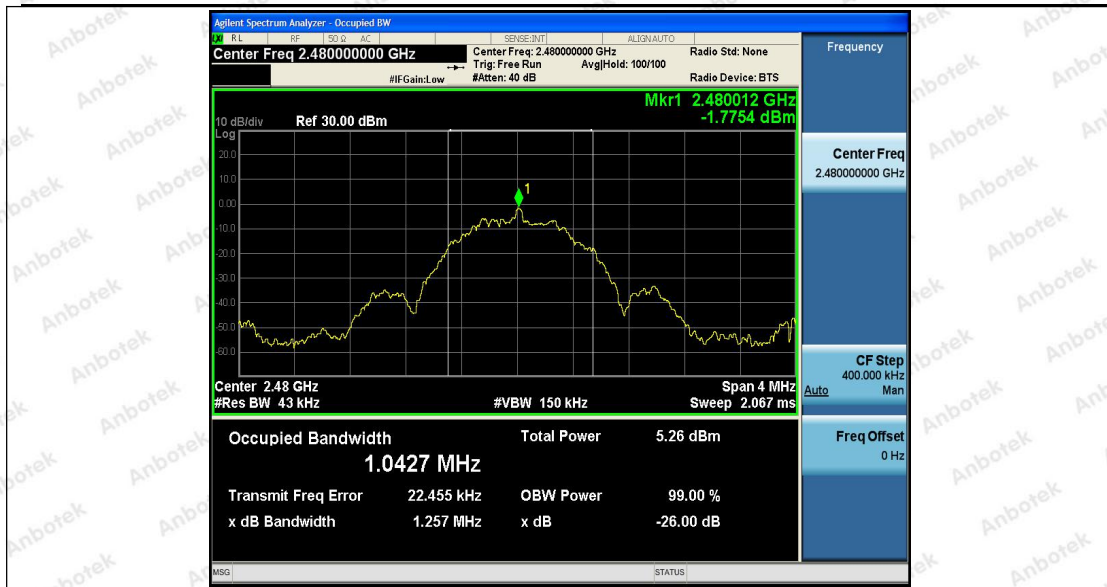


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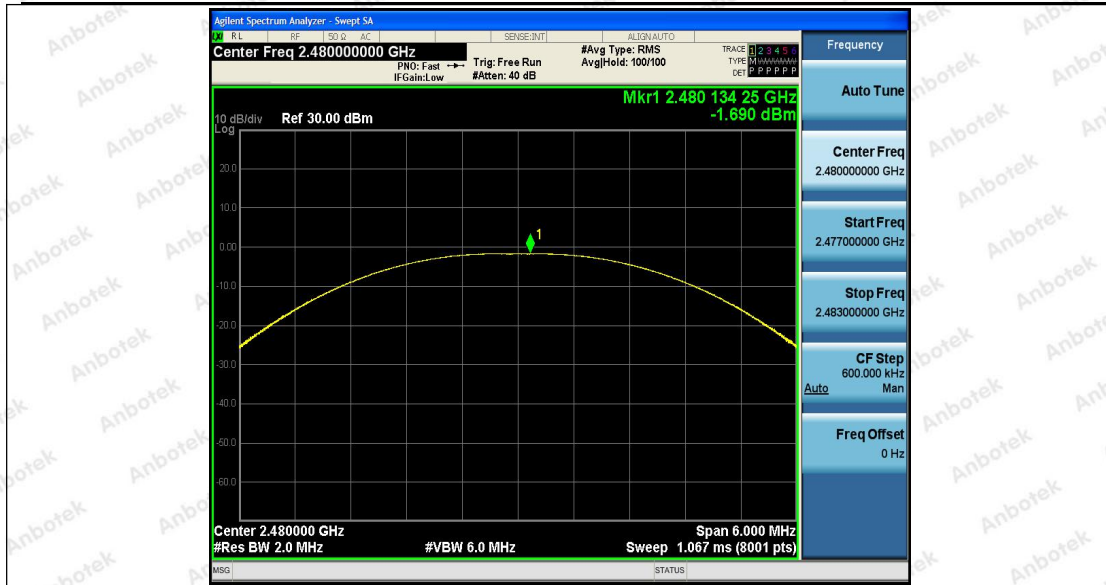
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## Appendix C: Maximum conducted output power

### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | -1.8        | ≤30        | PASS    |
|          |         | 2440    | -2.03       | ≤30        | PASS    |
|          |         | 2480    | -1.69       | ≤30        | PASS    |





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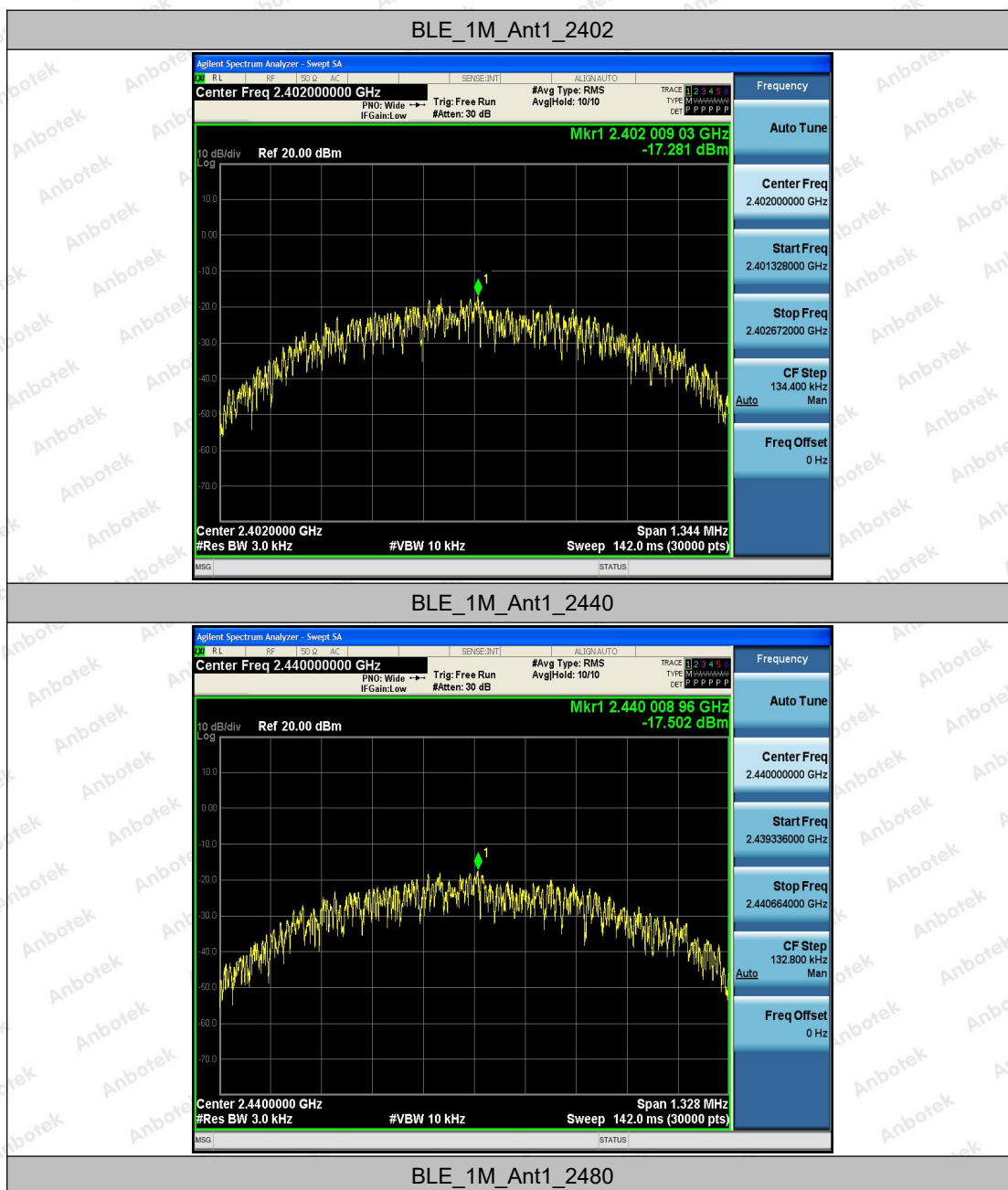
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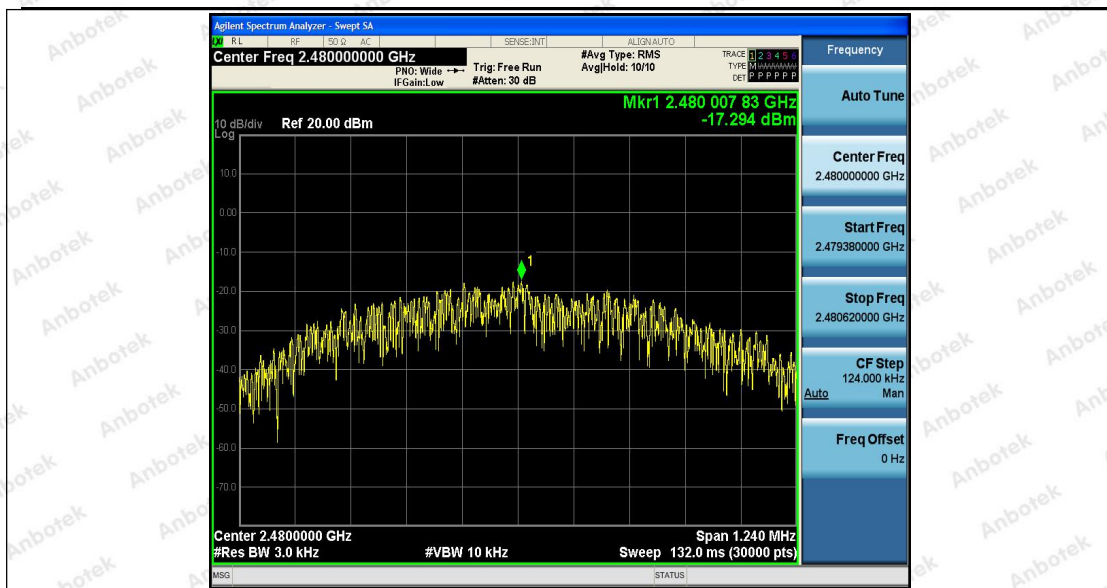
## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|----------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402    | -17.28               | ≤8              | PASS    |
|          |         | 2440    | -17.5                | ≤8              | PASS    |
|          |         | 2480    | -17.29               | ≤8              | PASS    |

## Test Graphs





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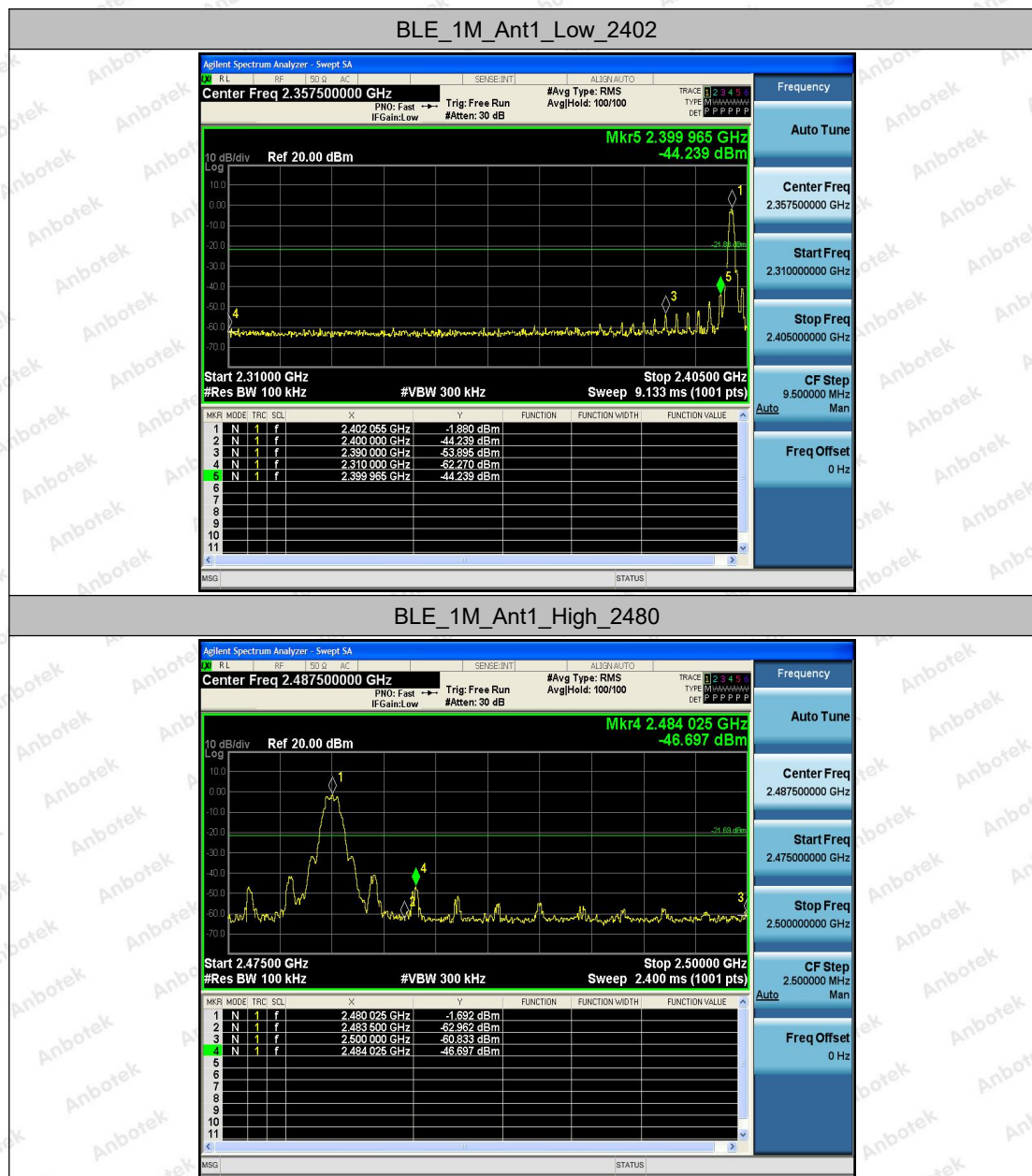
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## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|----------|---------|--------|---------|---------------|-------------|---------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | -1.88         | -44.24      | $\leq -21.88$ | PASS    |
|          |         | High   | 2480    | -1.69         | -46.7       | $\leq -21.69$ | PASS    |

## Test Graphs



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## Appendix F: Conducted Spurious Emission

### Test Result

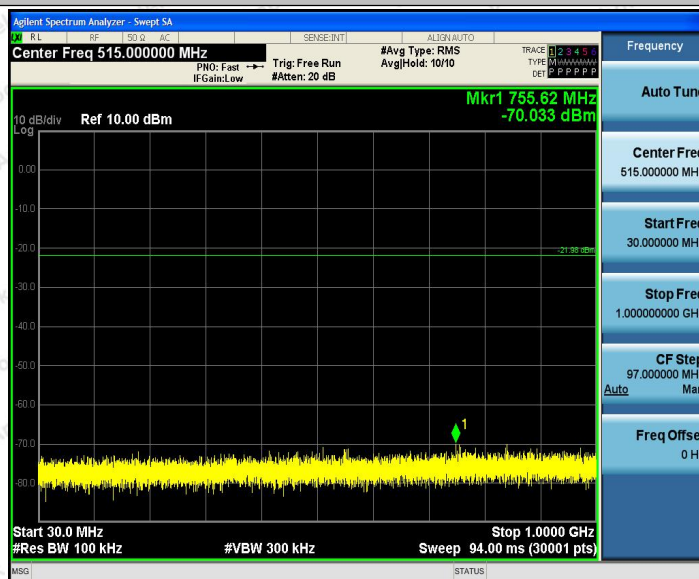
| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | Reference          | -1.98             | -1.98       | ---        | PASS    |
|          |         |         | 30~1000            | -1.98             | -70.03      | ≤-21.98    | PASS    |
|          |         |         | 1000~265<br>00     | -1.98             | -52.16      | ≤-21.98    | PASS    |
|          |         | 2440    | Reference          | -2.16             | -2.16       | ---        | PASS    |
|          |         |         | 30~1000            | -2.16             | -70.91      | ≤-22.16    | PASS    |
|          |         |         | 1000~265<br>00     | -2.16             | -54.04      | ≤-22.16    | PASS    |
|          |         | 2480    | Reference          | -1.81             | -1.81       | ---        | PASS    |
|          |         |         | 30~1000            | -1.81             | -70.91      | ≤-21.81    | PASS    |
|          |         |         | 1000~265<br>00     | -1.81             | -53.67      | ≤-21.81    | 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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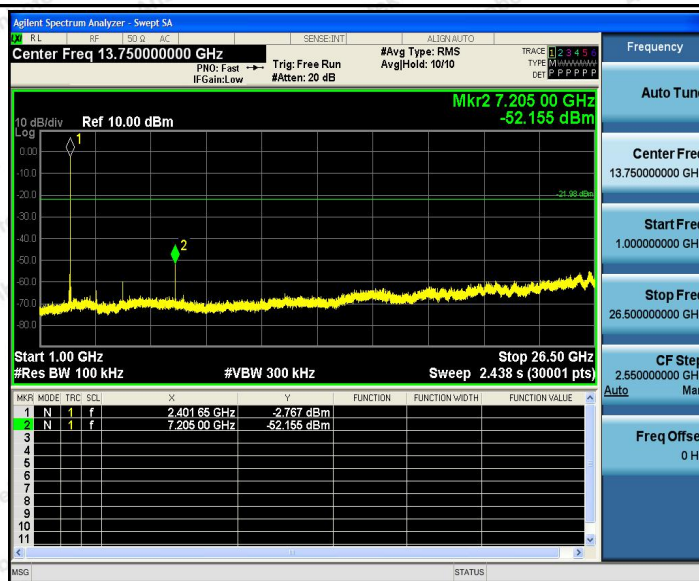
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BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000



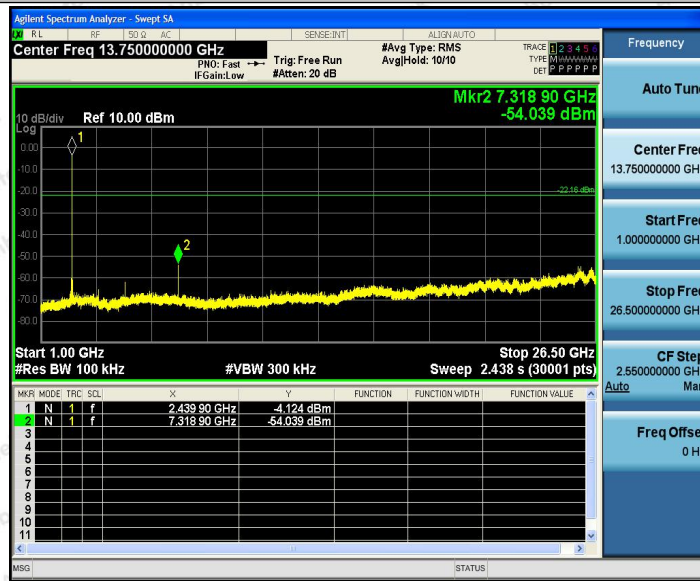
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## BLE\_1M\_Ant1\_2440\_1000~26500



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



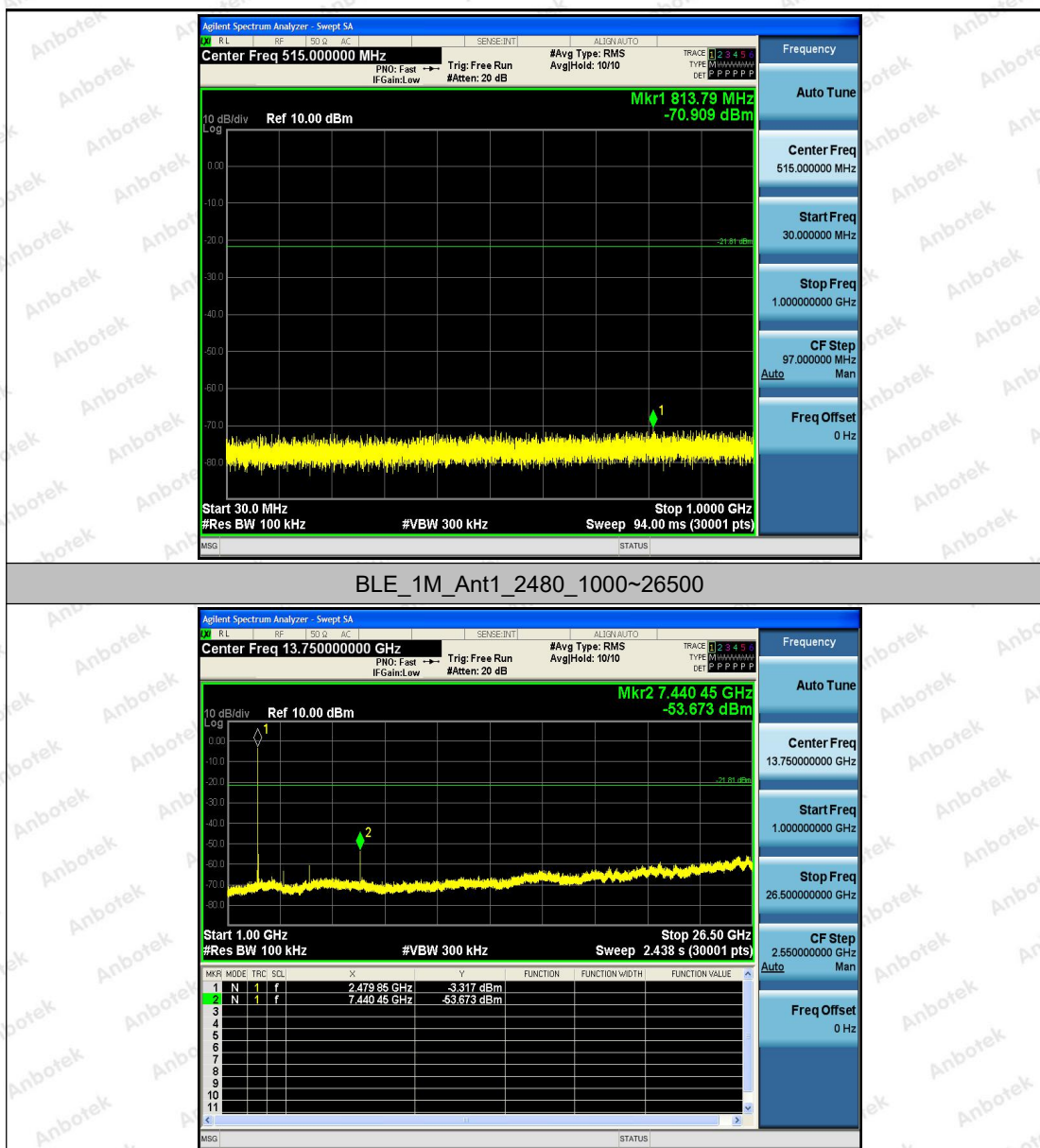
## BLE\_1M\_Ant1\_2480\_30~1000

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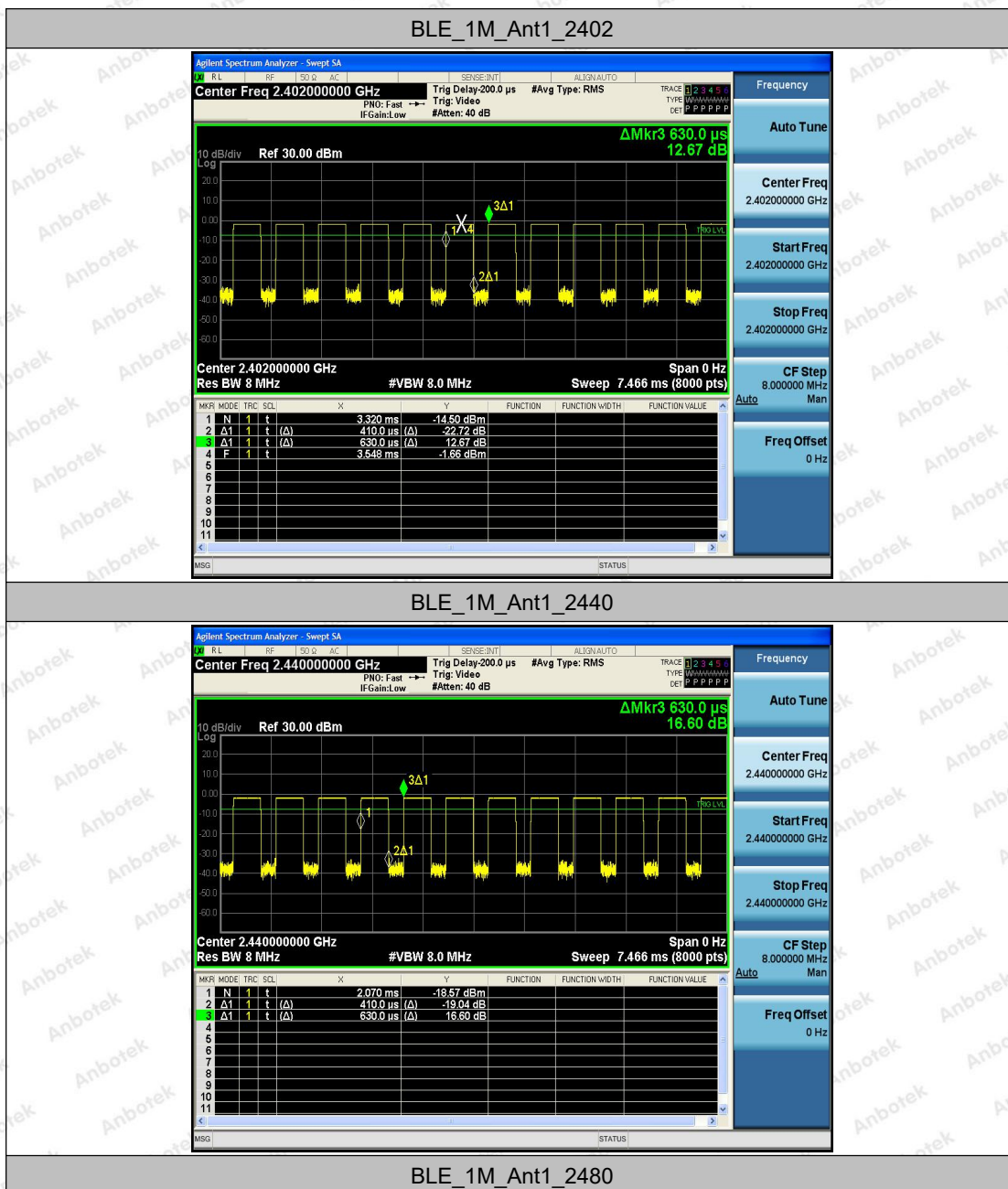
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## Appendix G: Duty Cycle

### Test Result

| TestMode | Antenna | Channel | ON Time<br>[ms] | Period<br>[ms] | X          | DC<br>[%] | xFactor | Limit | Verdict |
|----------|---------|---------|-----------------|----------------|------------|-----------|---------|-------|---------|
| BLE_1M   | Ant1    | 2402    | 0.41            | 0.63           | 0.650<br>8 | 65.08     | 1.87    | ---   | PASS    |
|          |         | 2440    | 0.41            | 0.63           | 0.650<br>8 | 65.08     | 1.87    | ---   | PASS    |
|          |         | 2480    | 0.40            | 0.62           | 0.645<br>2 | 64.52     | 1.90    | ---   | PASS    |

## Test Graphs

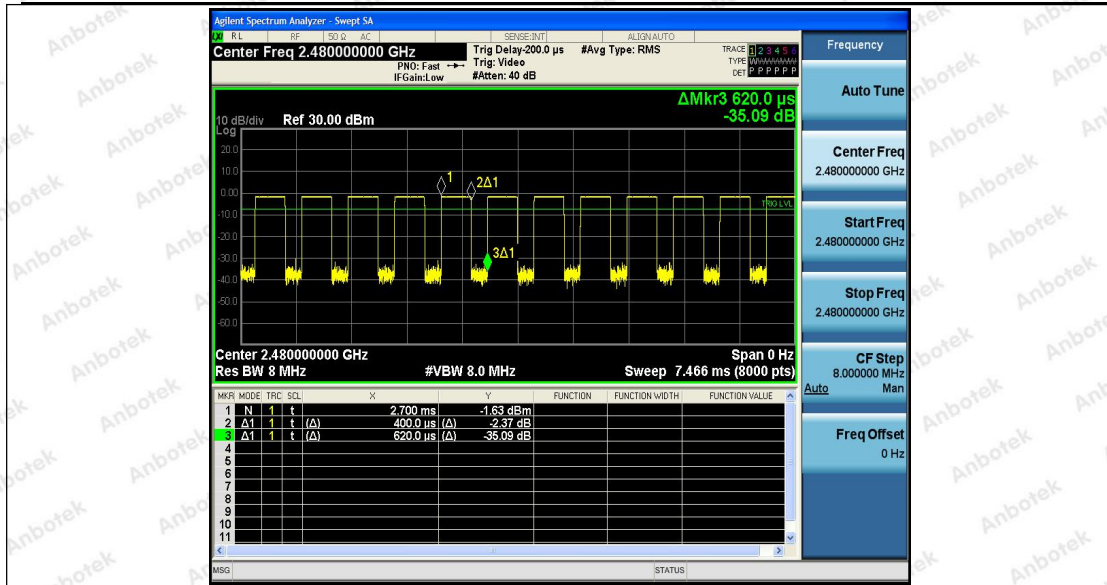


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