

## Appendix Test Data

|                |                 |                    |                   |
|----------------|-----------------|--------------------|-------------------|
| Project No.:   | 18220WC10148801 | Test Date:         | 2021.7.27         |
| Test Engineer: | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:   | 24.8C°          | Relative Humidity: | 58 %              |
| 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    | 0.676        | 2401.656 | 2402.332 | >=0.5      | PASS    |
|          |         | 2440    | 0.668        | 2439.660 | 2440.328 | >=0.5      | PASS    |
|          |         | 2480    | 0.688        | 2479.644 | 2480.332 | >=0.5      | PASS    |

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## 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    | 1.0296    | 2401.490 | 2402.520 | ---        | PASS    |
|          |         | 2440    | 1.0240    | 2439.490 | 2440.514 | ---        | PASS    |
|          |         | 2480    | 1.0282    | 2479.488 | 2480.516 | ---        | PASS    |

## Test Graphs



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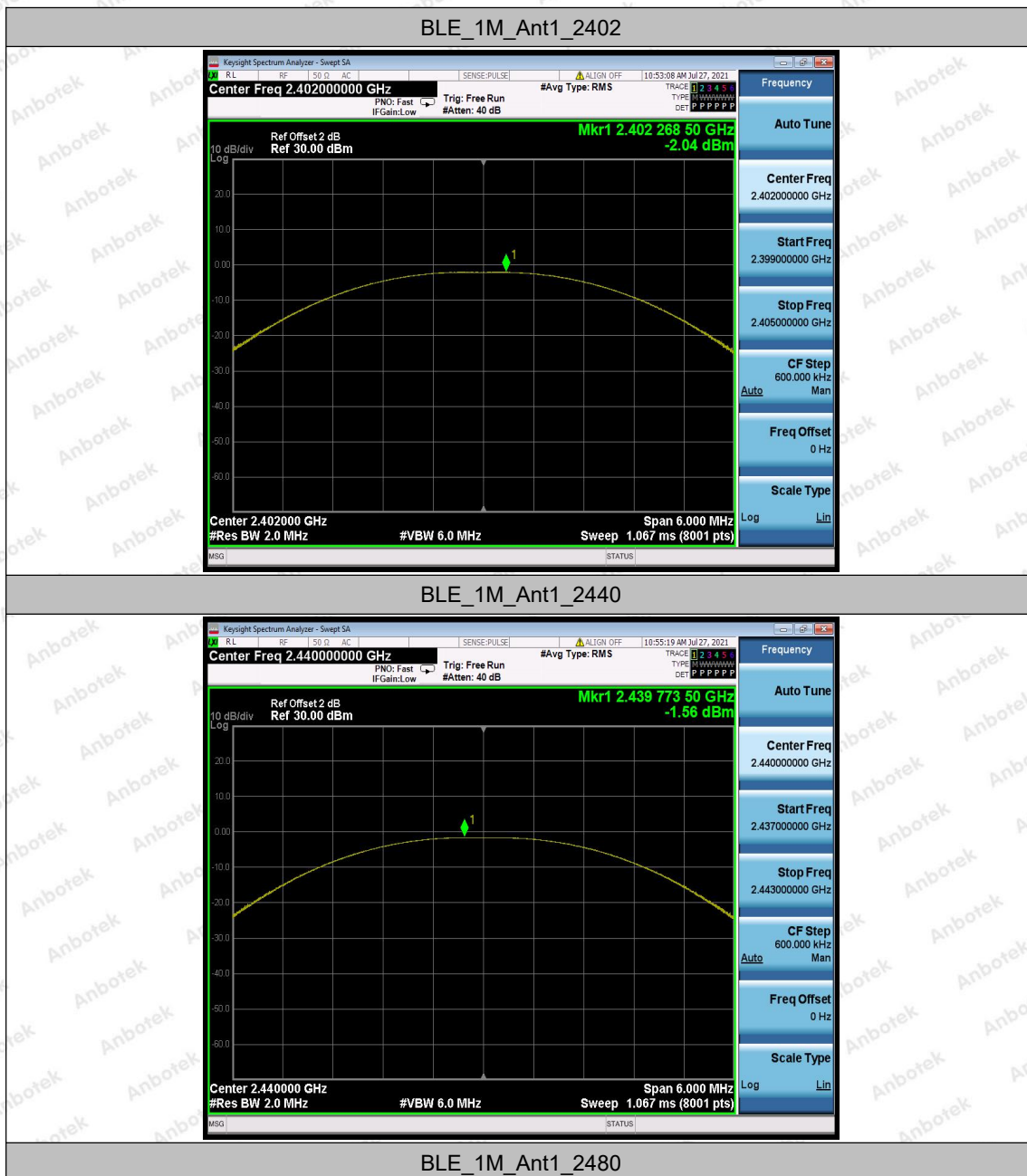
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## Appendix C: Maximum conducted output power

### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | -2.04       | <=30       | PASS    |
|          |         | 2440    | -1.56       | <=30       | PASS    |
|          |         | 2480    | -2.2        | <=30       | PASS    |

## Test Graphs



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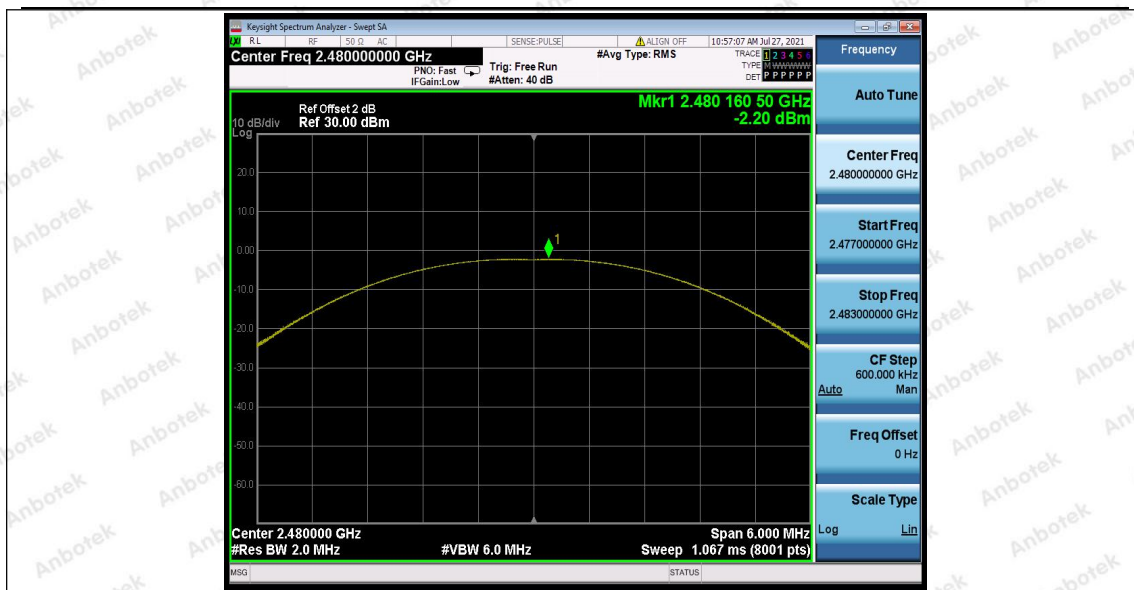
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## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Channel | Result<br>[dBm/10kHz] | Result[dBm/3kHz] | Limit[dBm/3<br>kHz] | Verdict |
|----------|---------|---------|-----------------------|------------------|---------------------|---------|
| BLE_1M   | Ant1    | 2402    | -12.09                | -17.31           | <=8                 | PASS    |
|          |         | 2440    | -11.61                | -16.83           | <=8                 | PASS    |
|          |         | 2480    | -12.31                | -17.53           | <=8                 | PASS    |

## Test Graphs



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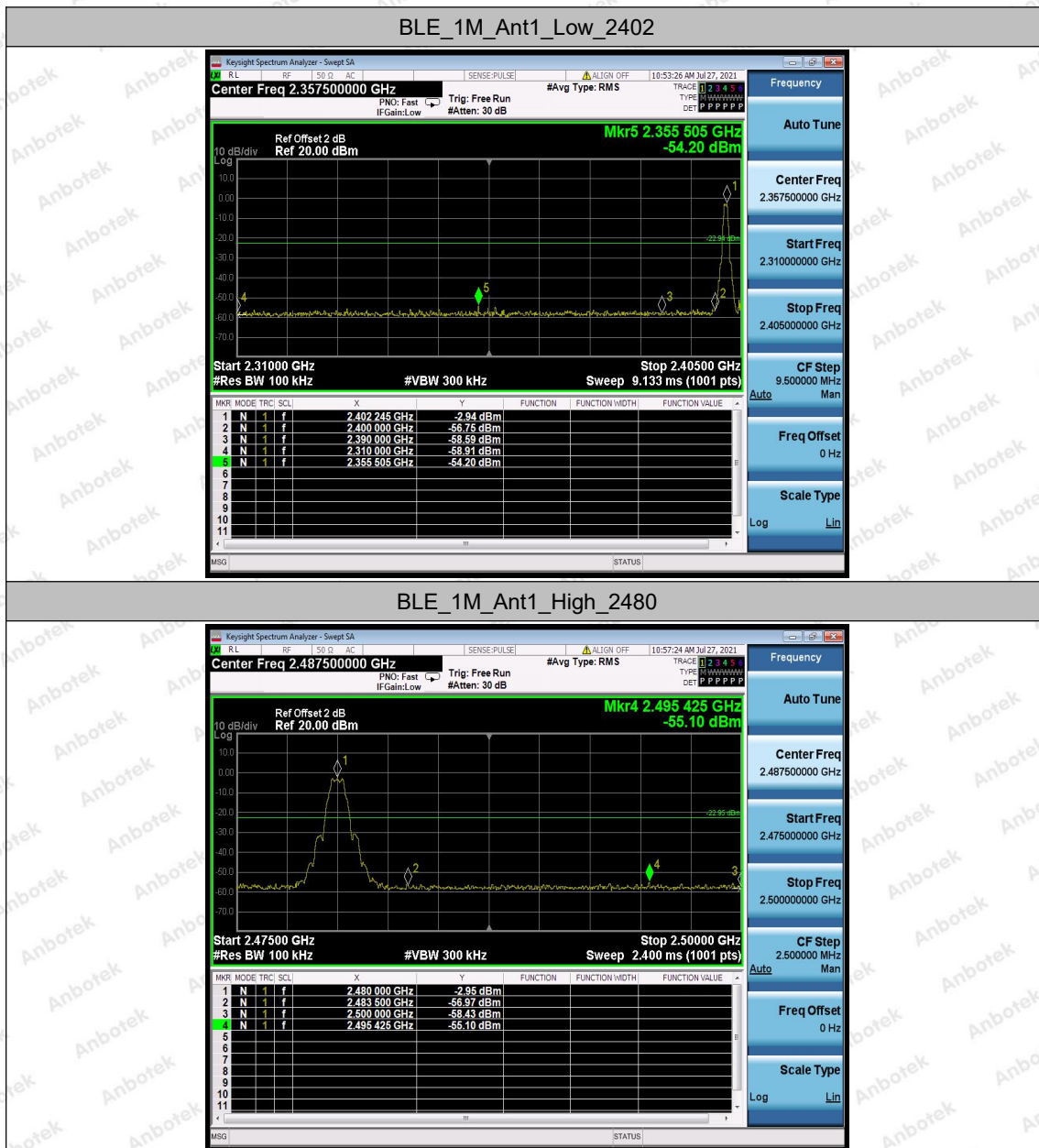
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**Appendix E: Band edge measurements**

**Test Result**

| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|---------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | -2.94         | -54.2       | <=-22.94   | PASS    |
|          |         | High   | 2480    | -2.95         | -55.1       | <=-22.95   | PASS    |

## Test Graphs



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## Appendix F: Conducted Spurious Emission

### Test Result

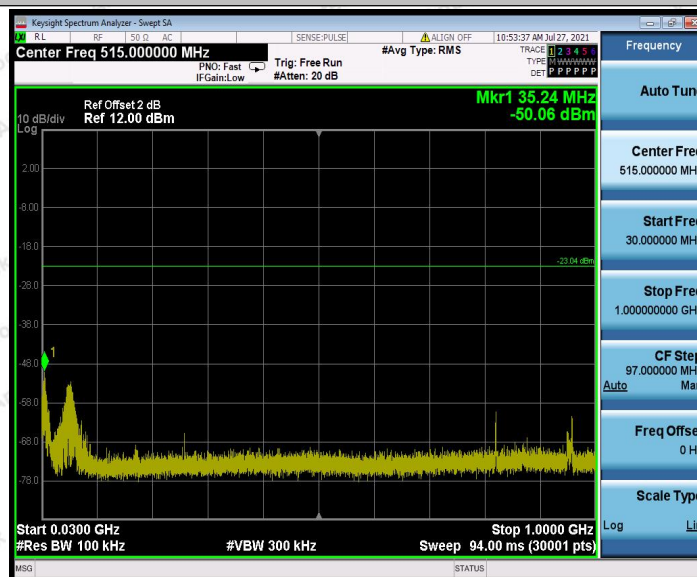
| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | Reference          | -3.04             | -3.04       | ---        | PASS    |
|          |         |         | 30~1000            | -3.04             | -50.06      | <=-23.04   | PASS    |
|          |         |         | 1000~26500         | -3.04             | -44.38      | <=-23.04   | PASS    |
|          |         | 2440    | Reference          | -2.50             | -2.50       | ---        | PASS    |
|          |         |         | 30~1000            | -2.50             | -48.74      | <=-22.5    | PASS    |
|          |         |         | 1000~26500         | -2.50             | -49.54      | <=-22.5    | PASS    |
|          |         | 2480    | Reference          | -3.20             | -3.20       | ---        | PASS    |
|          |         |         | 30~1000            | -3.20             | -50.21      | <=-23.2    | PASS    |
|          |         |         | 1000~26500         | -3.20             | -46.29      | <=-23.2    | 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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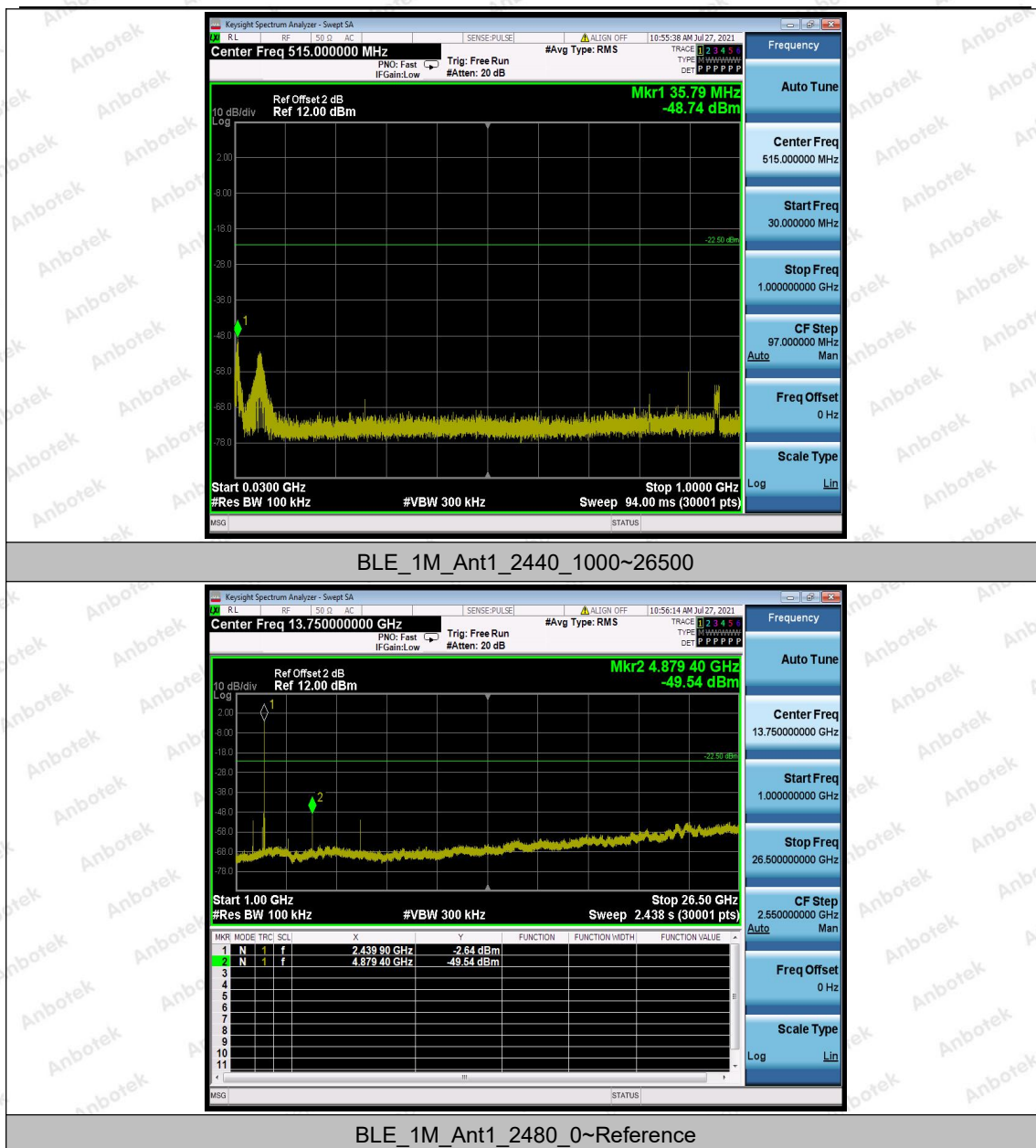
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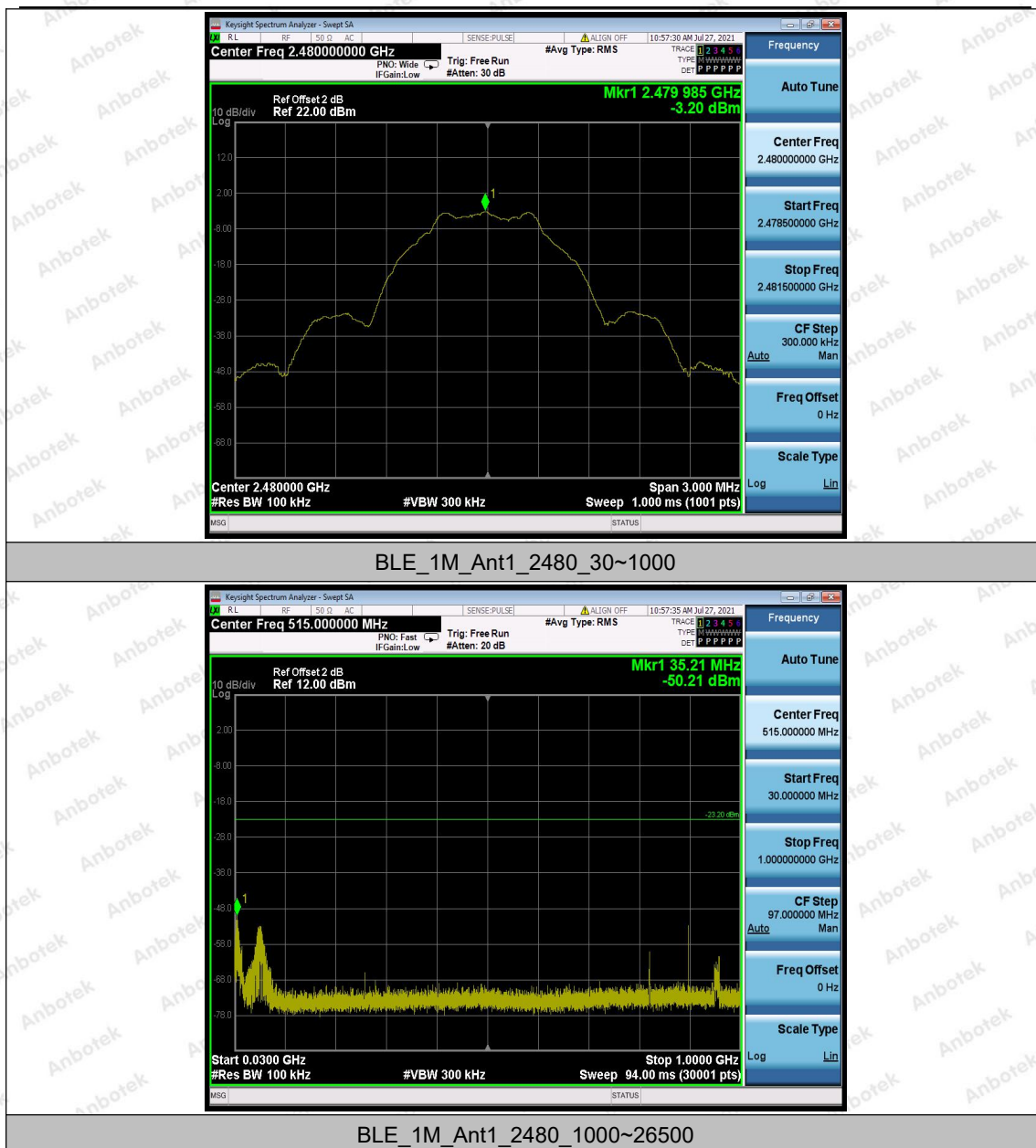
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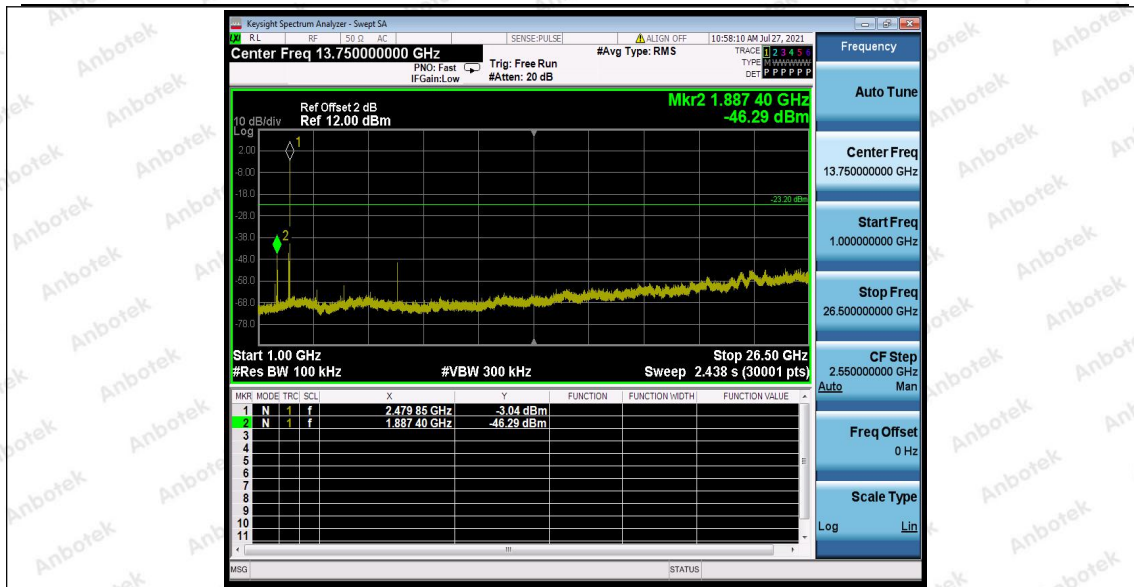
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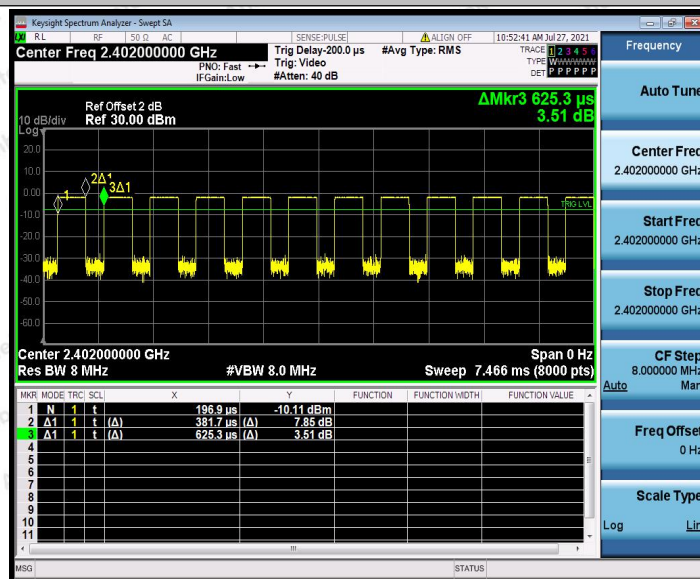
## Appendix G: Duty Cycle

### Test Result

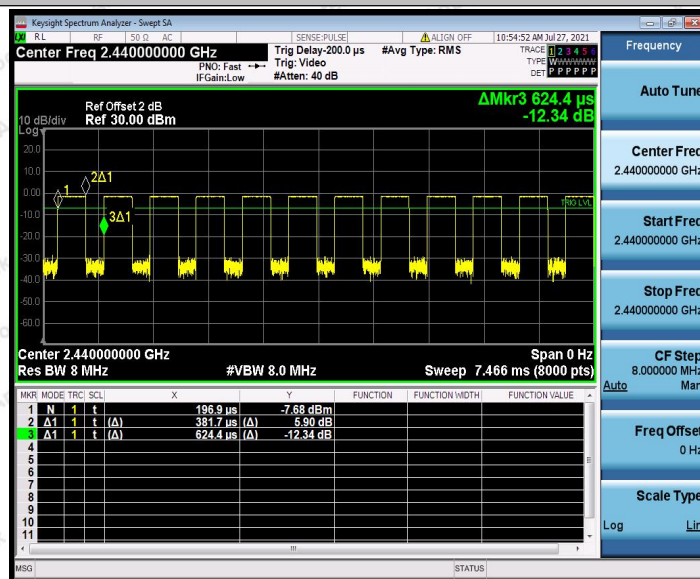
| TestMode | Antenna | Channel | ON Time<br>[ms] | Period<br>[ms] | X      | DC<br>[%] | xFactor | Limit | Verdict |
|----------|---------|---------|-----------------|----------------|--------|-----------|---------|-------|---------|
| BLE_1M   | Ant1    | 2402    | 0.38            | 0.63           | 0.6032 | 60.32     | 2.20    | ---   | 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

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

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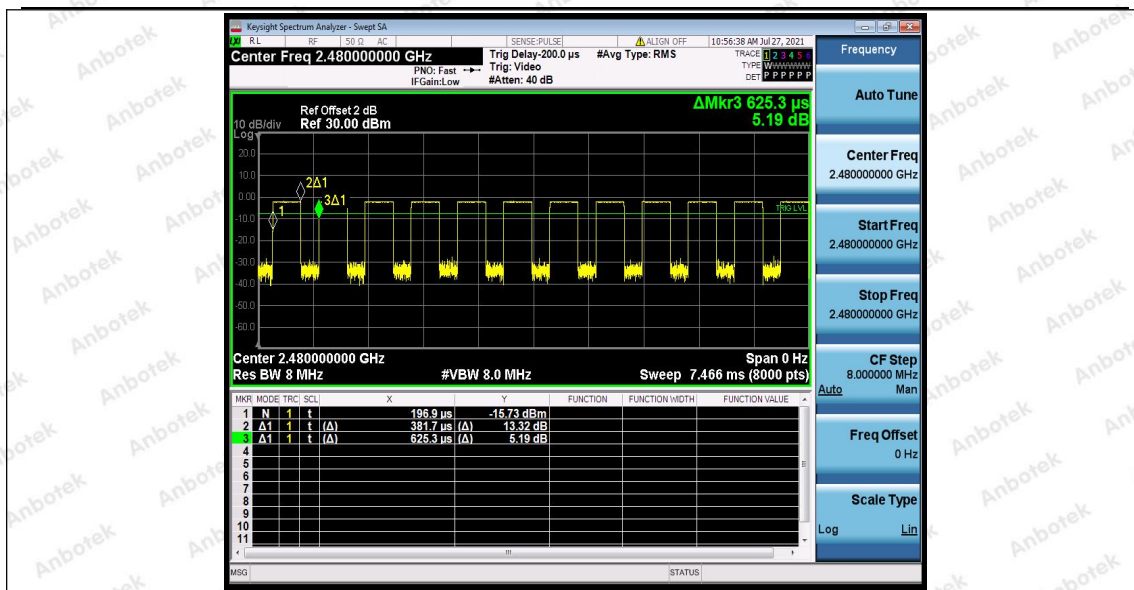
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