

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20082601 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.4.24       | Finish Test Date:  | 2022.4.28         |
| Test Engineer:   | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 24.3°C          | Relative Humidity: | 56.2 %            |
| 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    | 0.668        | 2401.676 | 2402.344 | ≥0.5       | PASS    |
|          |         | 2442    | 0.688        | 2441.672 | 2442.360 | ≥0.5       | PASS    |
|          |         | 2480    | 0.684        | 2479.676 | 2480.360 | ≥0.5       | PASS    |

## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2442



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    | 1.0259    | 2401.499 | 2402.525 | ---        | PASS    |
|          |         | 2442    | 1.0315    | 2441.497 | 2442.528 | ---        | PASS    |
|          |         | 2480    | 1.0145    | 2479.502 | 2480.516 | ---        | PASS    |

## Test Graphs

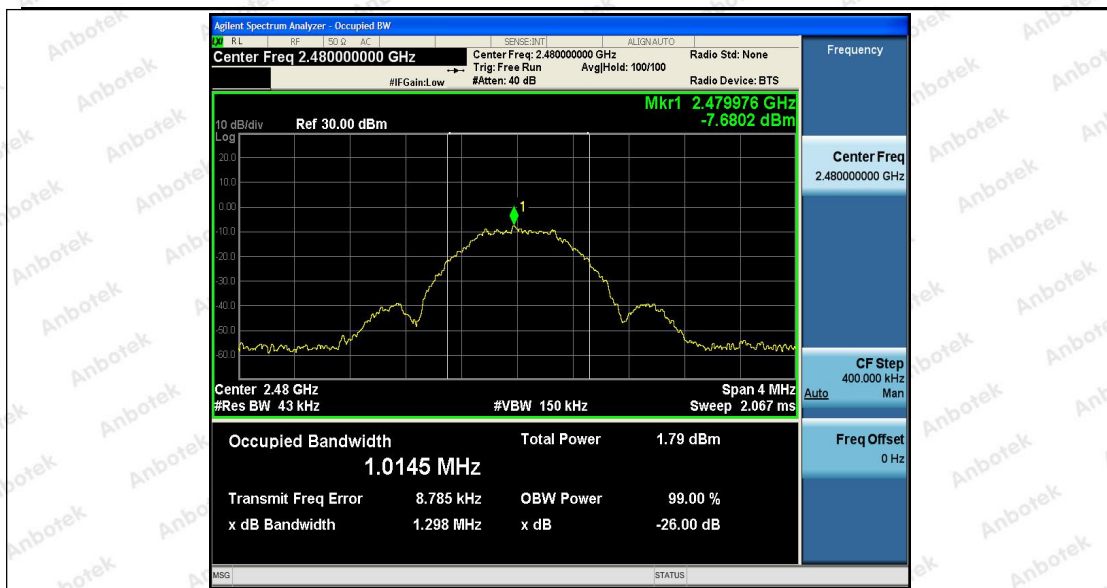


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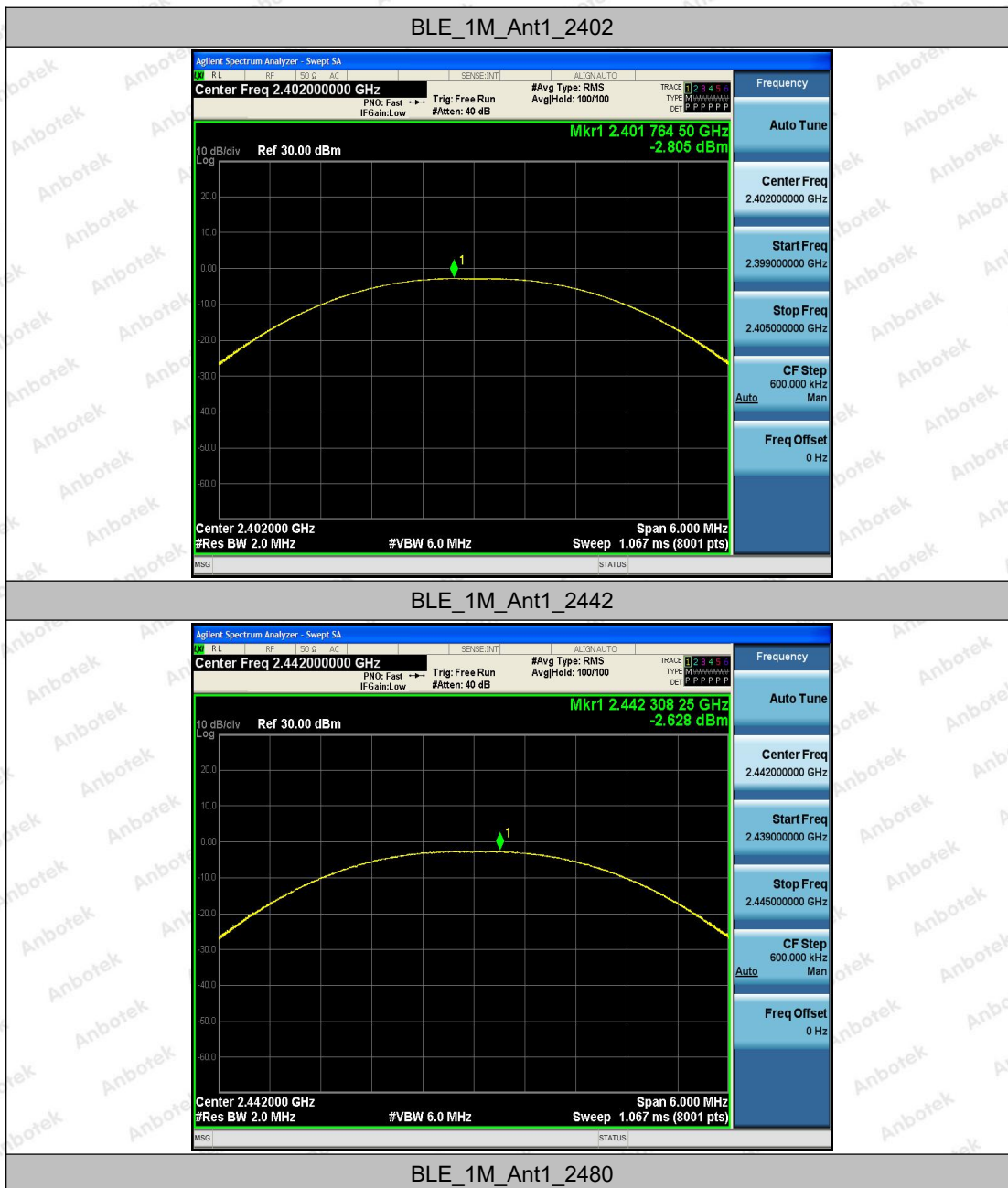
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## Appendix C: Maximum conducted output power

### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | -2.81       | ≤30        | PASS    |
|          |         | 2442    | -2.63       | ≤30        | PASS    |
|          |         | 2480    | -3.64       | ≤30        | PASS    |

## Test Graphs

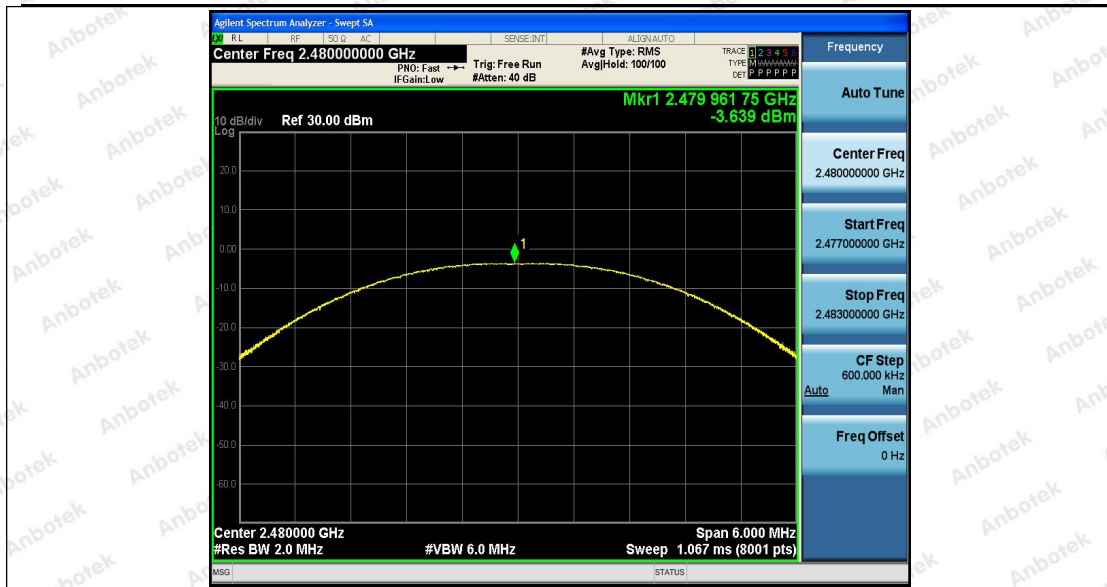


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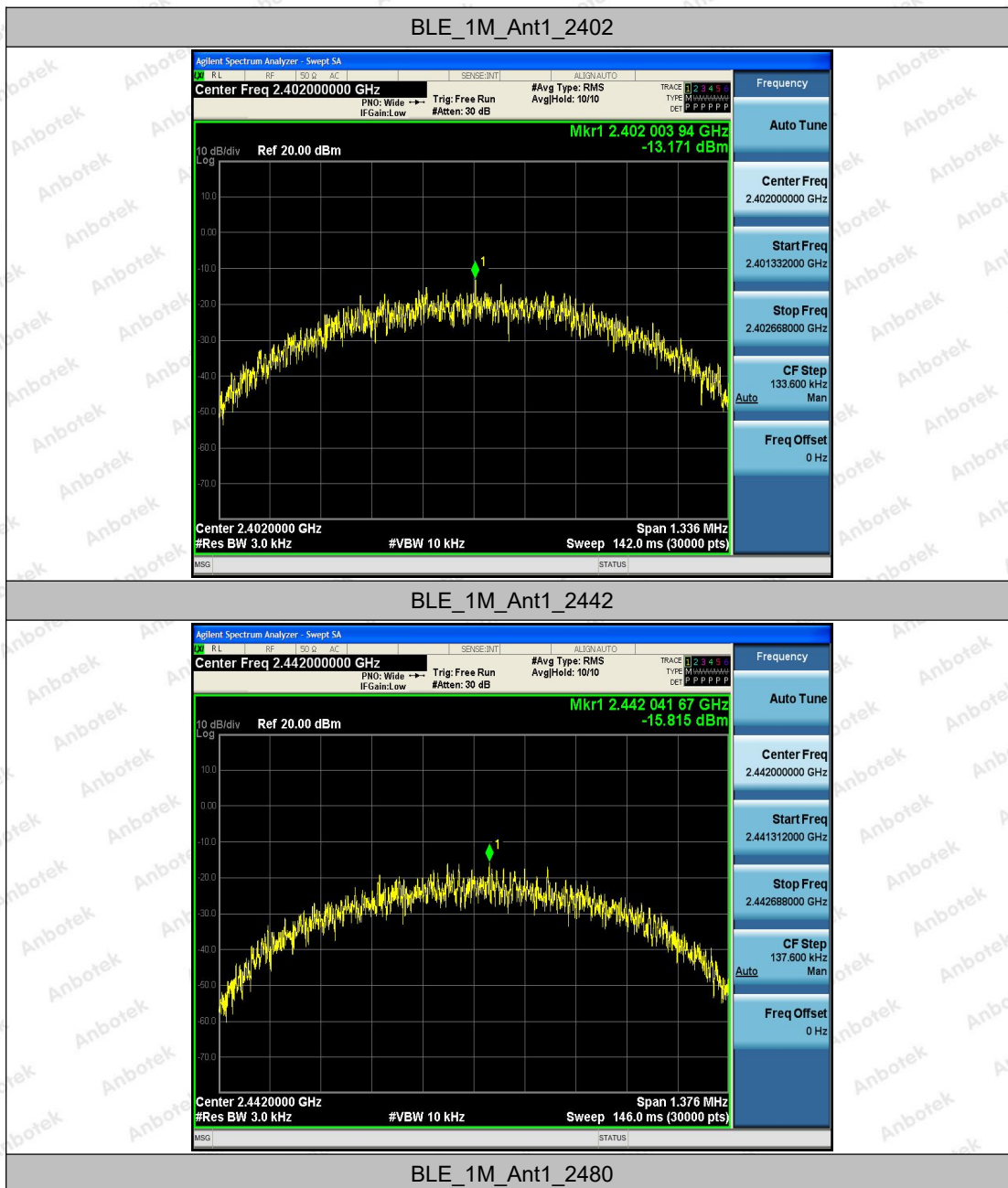
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## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402    | -13.17           | ≤8              | PASS    |
|          |         | 2442    | -15.82           | ≤8              | PASS    |
|          |         | 2480    | -13.43           | ≤8              | PASS    |

## Test Graphs

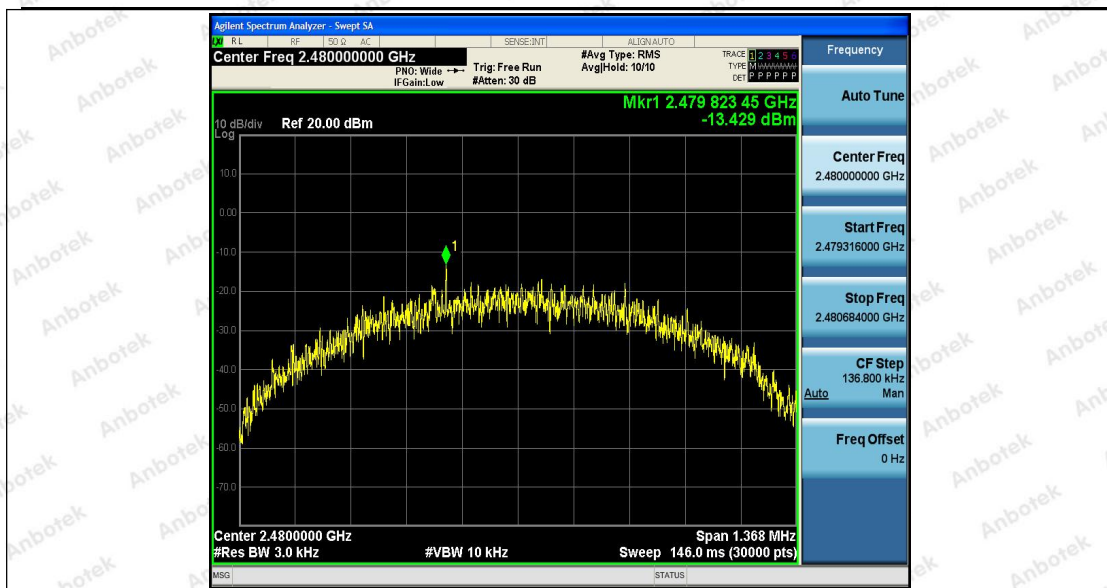


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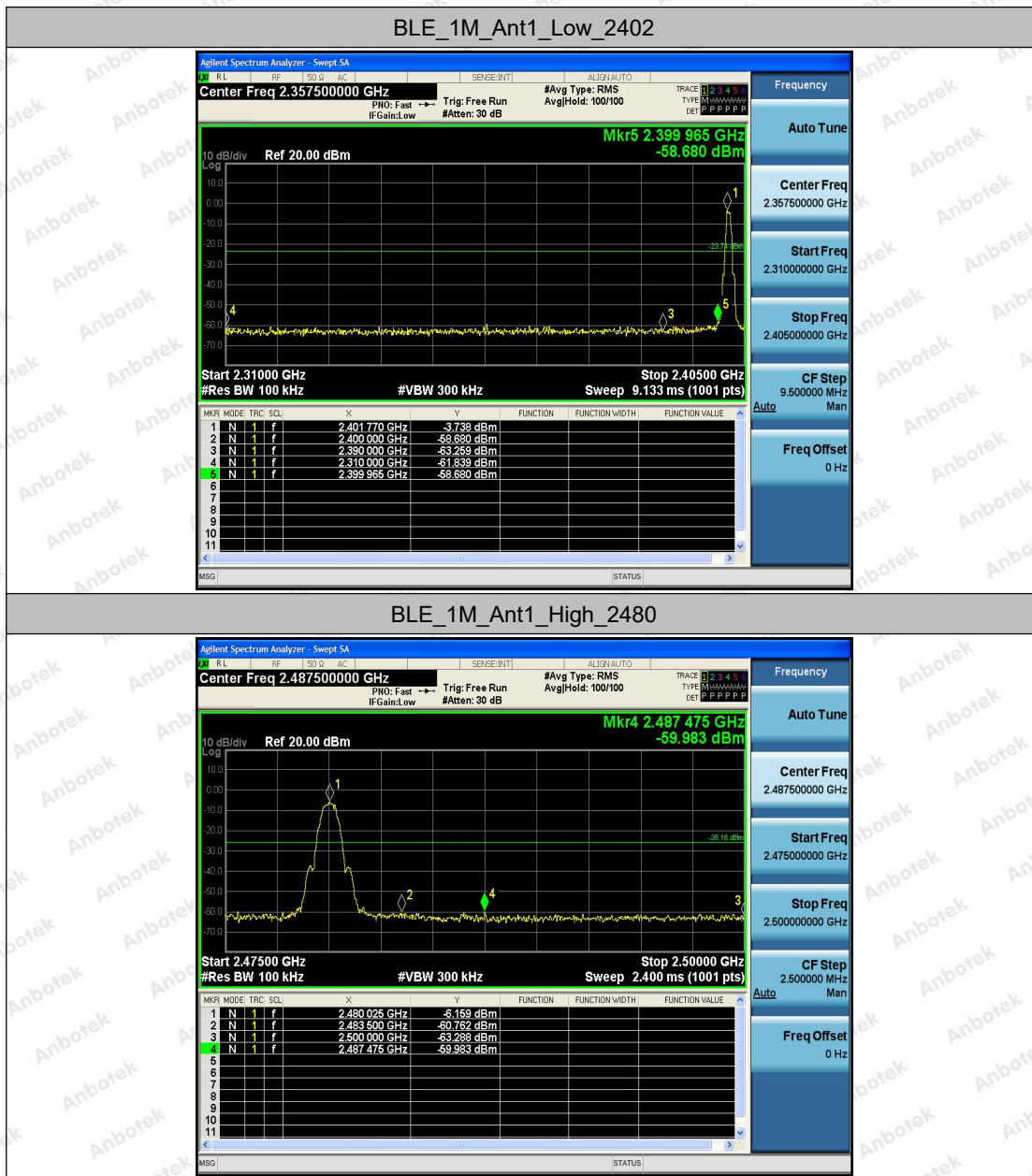
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## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|---------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | -3.74         | -58.68      | ≤-23.74    | PASS    |
|          |         | High   | 2480    | -6.16         | -59.98      | ≤-26.16    | PASS    |

## Test Graphs



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## Appendix F: Conducted Spurious Emission

### Test Result

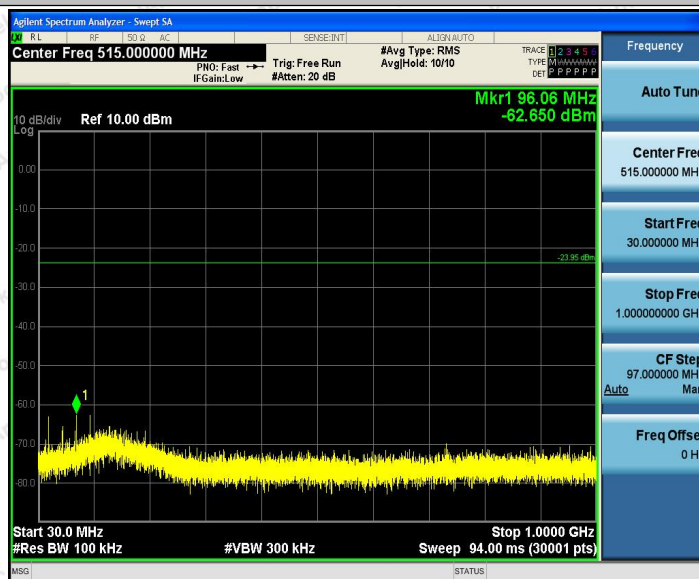
| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | Reference          | -3.95             | -3.95       | ---        | PASS    |
|          |         |         | 30~1000            | -3.95             | -62.65      | ≤-23.95    | PASS    |
|          |         |         | 1000~265<br>00     | -3.95             | -46.88      | ≤-23.95    | PASS    |
|          |         | 2442    | Reference          | -5.84             | -5.84       | ---        | PASS    |
|          |         |         | 30~1000            | -5.84             | -61.56      | ≤-25.84    | PASS    |
|          |         |         | 1000~265<br>00     | -5.84             | -48.12      | ≤-25.84    | PASS    |
|          |         | 2480    | Reference          | -6.65             | -6.65       | ---        | PASS    |
|          |         |         | 30~1000            | -6.65             | -62.38      | ≤-26.65    | PASS    |
|          |         |         | 1000~265<br>00     | -6.65             | -49.16      | ≤-26.65    | 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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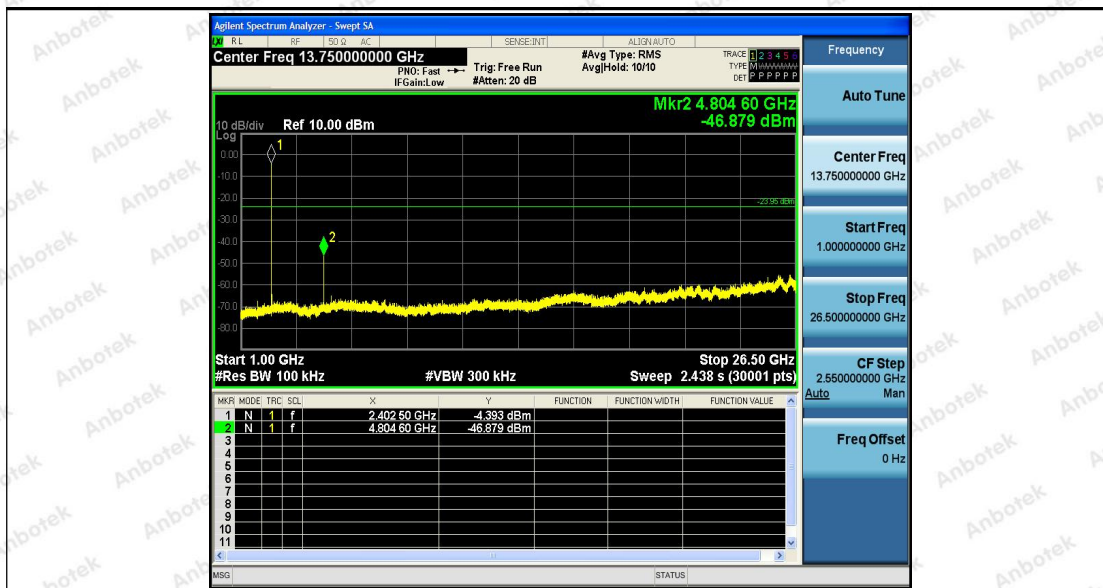
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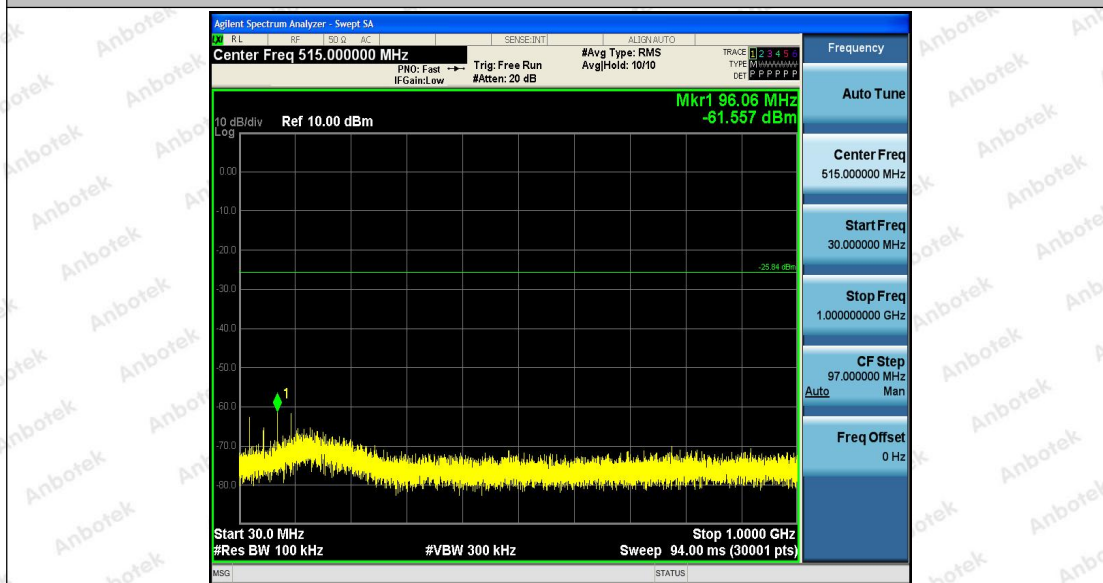
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BLE\_1M\_Ant1\_2442\_0~Reference



BLE\_1M\_Ant1\_2442\_30~1000



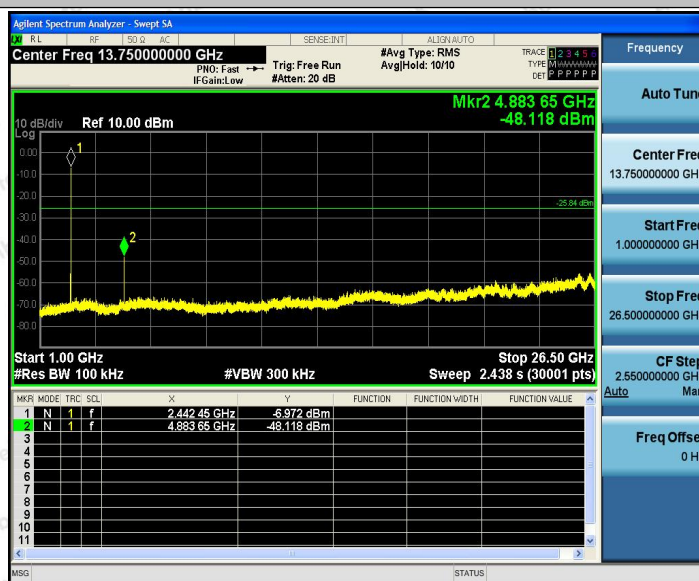
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## BLE\_1M\_Ant1\_2442\_1000~26500



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



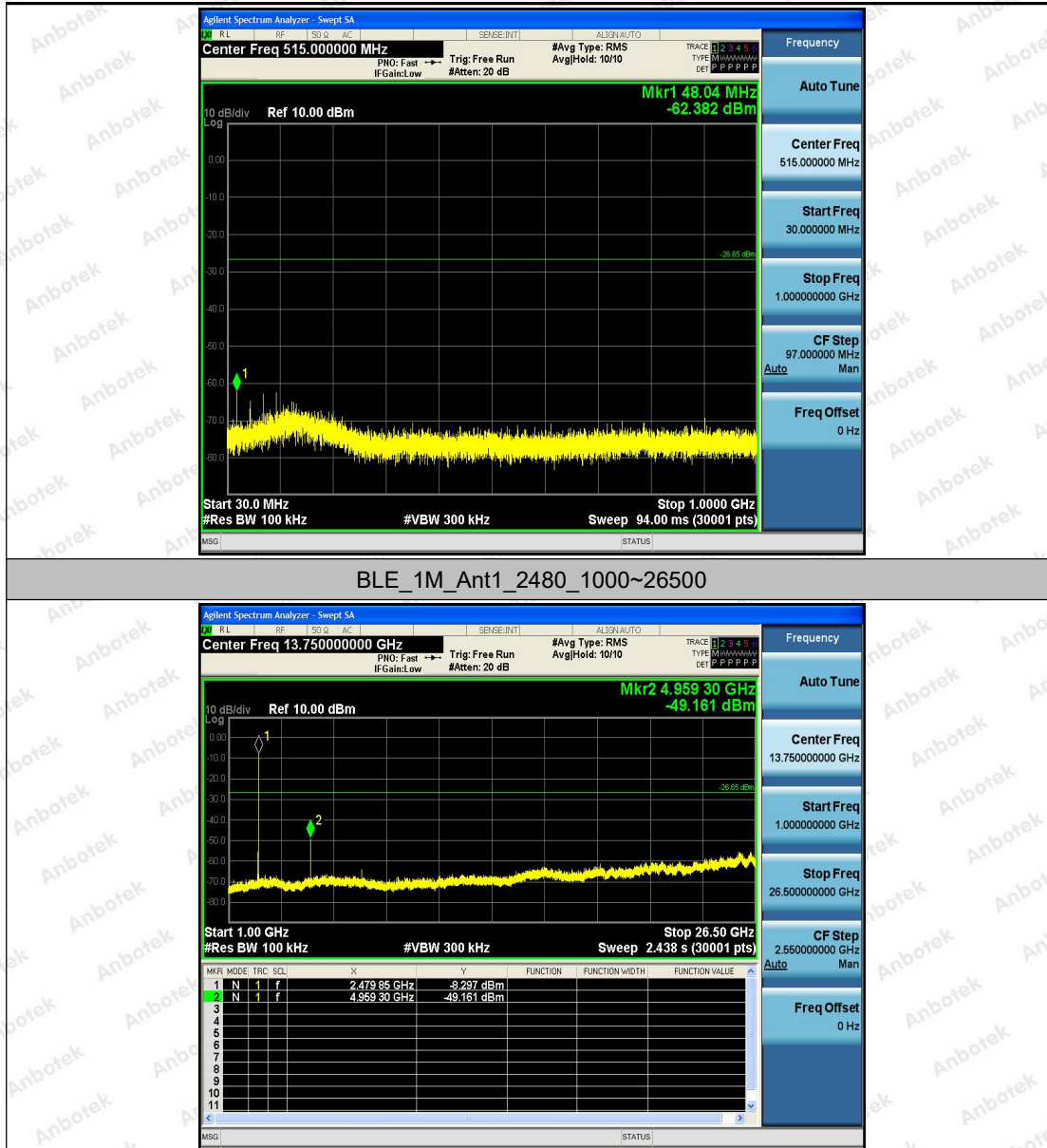
## BLE\_1M\_Ant1\_2480\_30~1000

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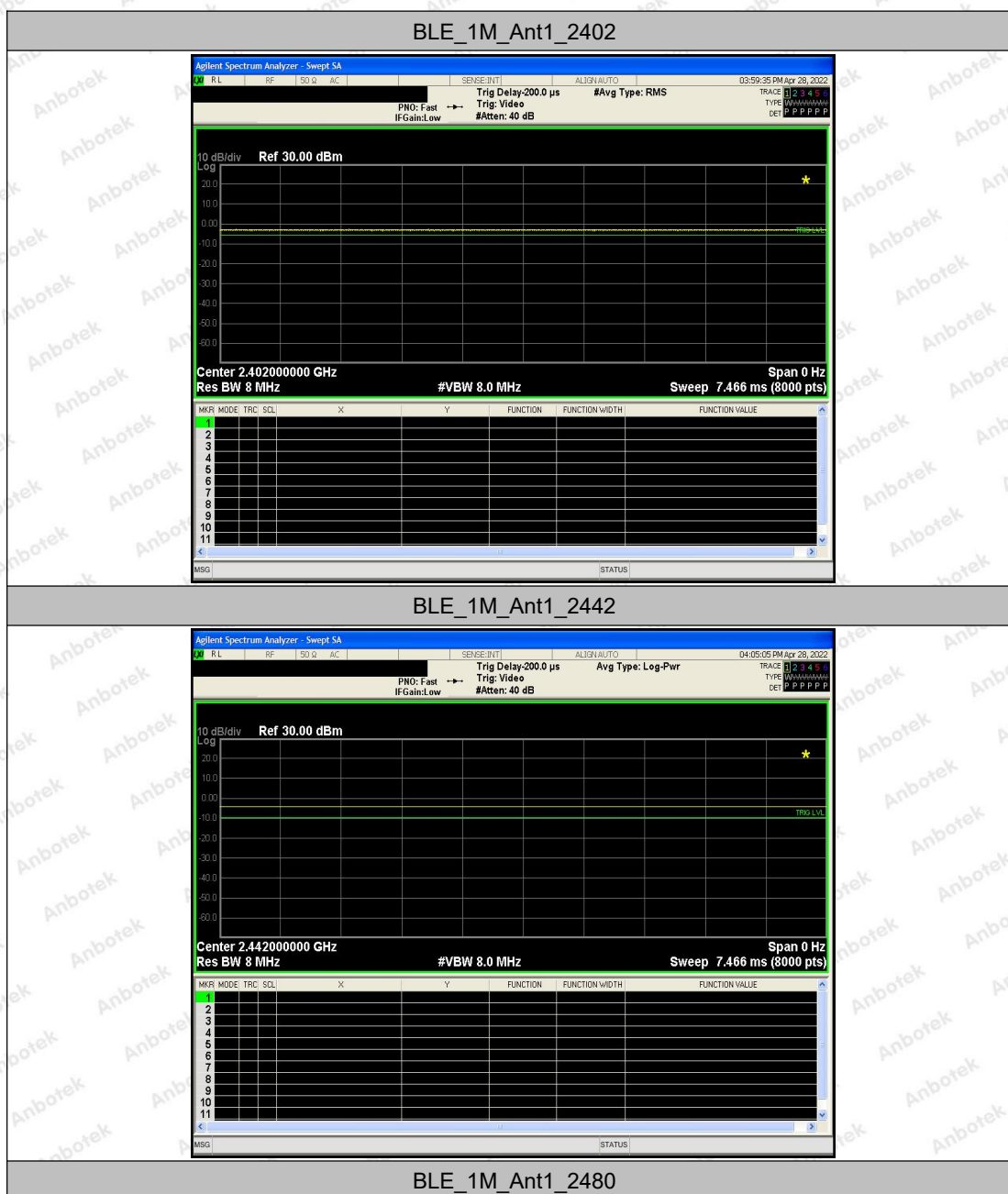
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## Appendix G: Duty Cycle

### Test Result

| TestMode | Antenna | Channel | ON Time<br>[ms] | Period<br>[ms] | X | DC<br>[%] | xFactor | Limit | Verdict |
|----------|---------|---------|-----------------|----------------|---|-----------|---------|-------|---------|
| BLE_1M   | Ant1    | 2402    | 7.466           | 7.466          | 1 | 100       | 0       | ---   | PASS    |
|          |         | 2442    | 7.466           | 7.466          | 1 | 100       | 0       | ---   | PASS    |
|          |         | 2480    | 7.466           | 7.466          | 1 | 100       | 0       | ---   | PASS    |

### Test Graphs



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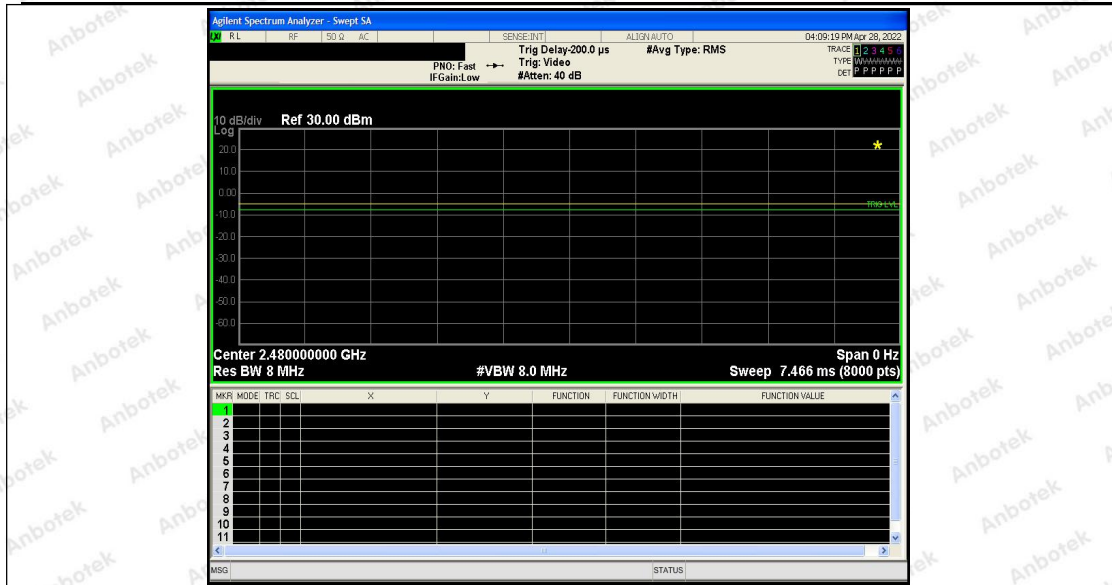
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