

|                  |                 |                    |            |
|------------------|-----------------|--------------------|------------|
| Report No.:      | 18360WC30016302 | Test Sample No.:   | 1-2-2      |
| Start Test Date: | 2023.12.20      | Finish Test Date:  | 2023.12.21 |
| Test Engineer:   | Hayman Chen     | Auditor:           | Rick Luo   |
| Temperature:     | 24.6°C          | Relative Humidity: | 45%        |
| Pressure:        | 101kPa          |                    |            |

## Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 0.684           | 2401.652 | 2402.336 | 0.5        | PASS    |
|          |         | 2440           | 0.684           | 2439.652 | 2440.336 | 0.5        | PASS    |
|          |         | 2480           | 0.680           | 2479.652 | 2480.332 | 0.5        | PASS    |

## Test Graphs



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## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|----------|---------|----------------|-----------|-----------|-----------|
| BLE_1M   | Ant1    | 2402           | 1.0287    | 2401.4957 | 2402.5244 |
|          |         | 2440           | 1.0292    | 2439.4948 | 2440.5240 |
|          |         | 2480           | 1.0285    | 2479.4960 | 2480.5245 |

### Test Graphs



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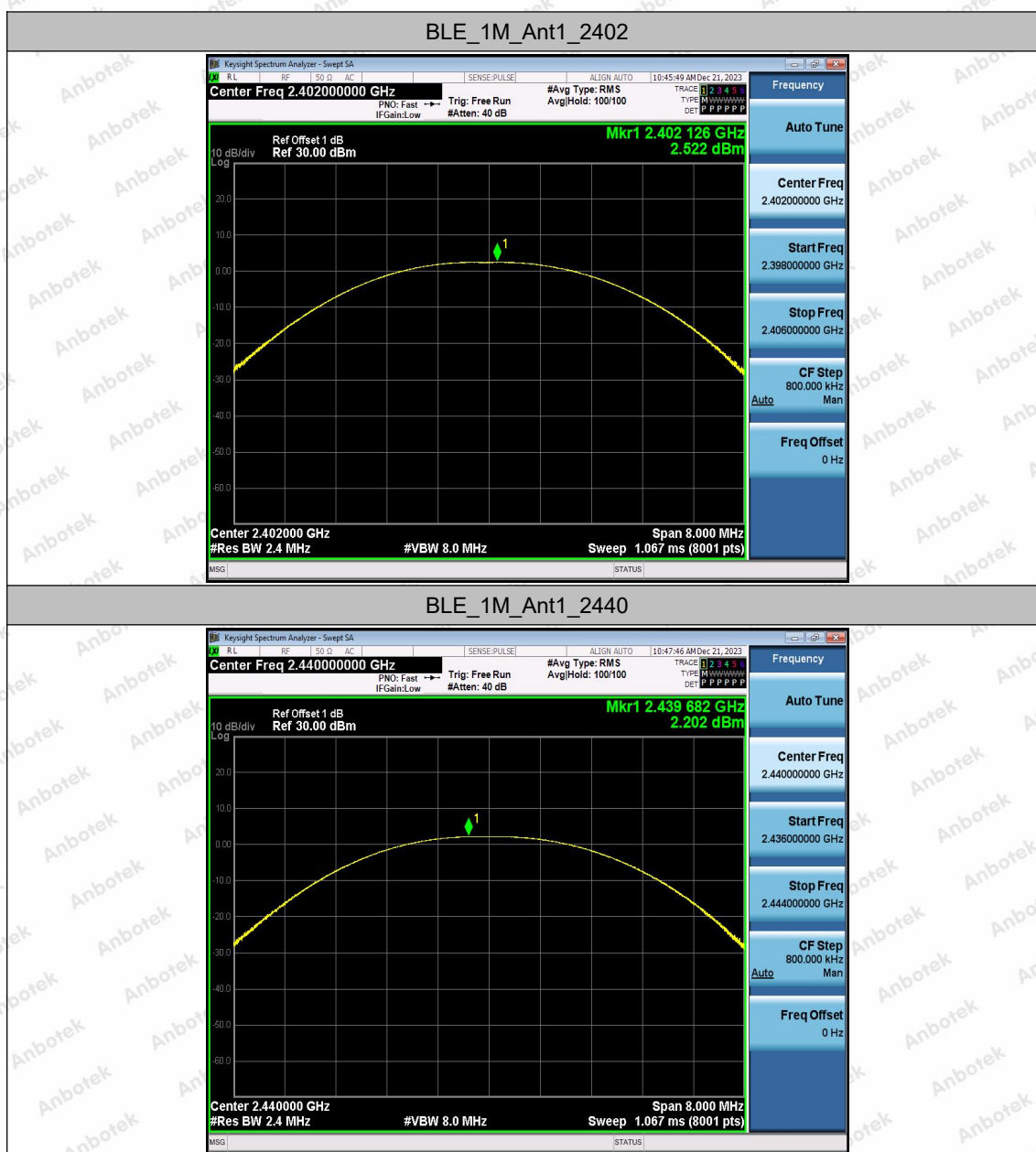


## Appendix C: Maximum conducted output power

### Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M   | Ant1    | 2402           | 2.52                      | ≤30                  | PASS    |
|          |         | 2440           | 2.20                      | ≤30                  | PASS    |
|          |         | 2480           | 1.69                      | ≤30                  | PASS    |

### Test Graphs Peak



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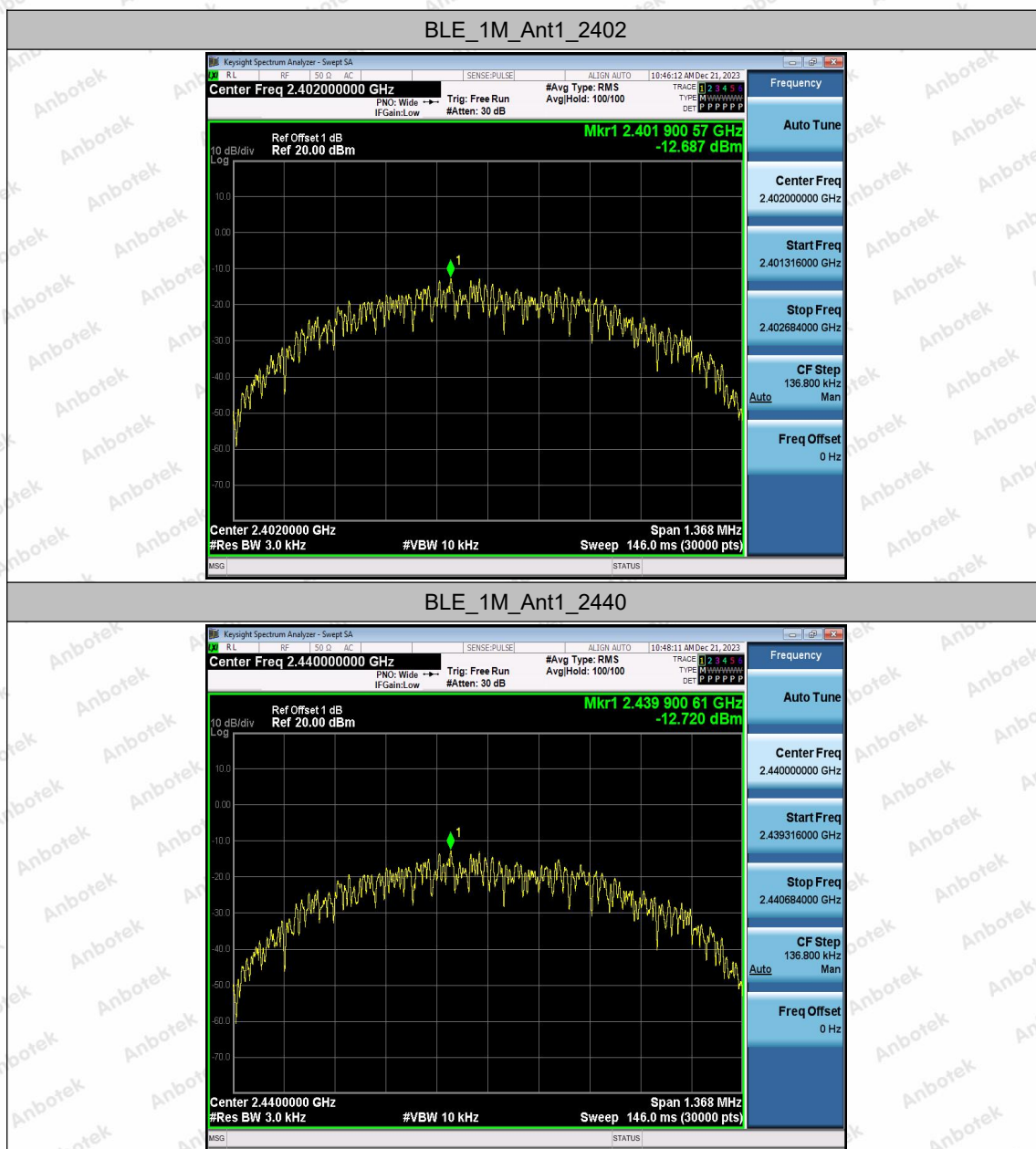


## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -12.69           | ≤8.00           | PASS    |
|          |         | 2440           | -12.72           | ≤8.00           | PASS    |
|          |         | 2480           | -13.47           | ≤8.00           | PASS    |

### Test Graphs



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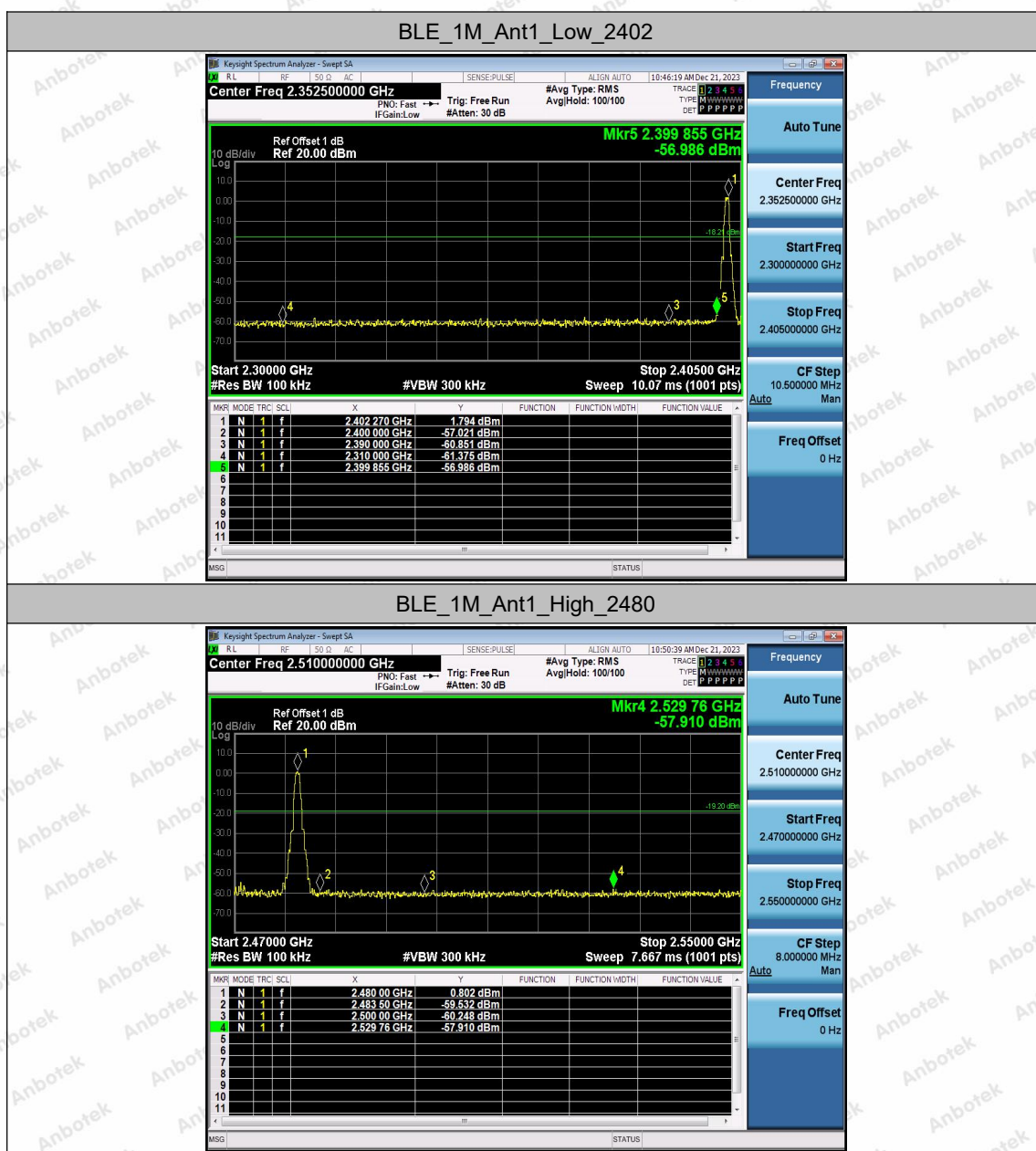


## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | Channel | Frequency [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|---------|-----------------|----------------|--------------|-------------|---------|
| BLE_1M   | Ant1    | Low     | 2402            | 1.79           | -56.99       | ≤-18.21     | PASS    |
|          |         | High    | 2480            | 0.80           | -57.91       | ≤-19.2      | PASS    |

### Test Graphs



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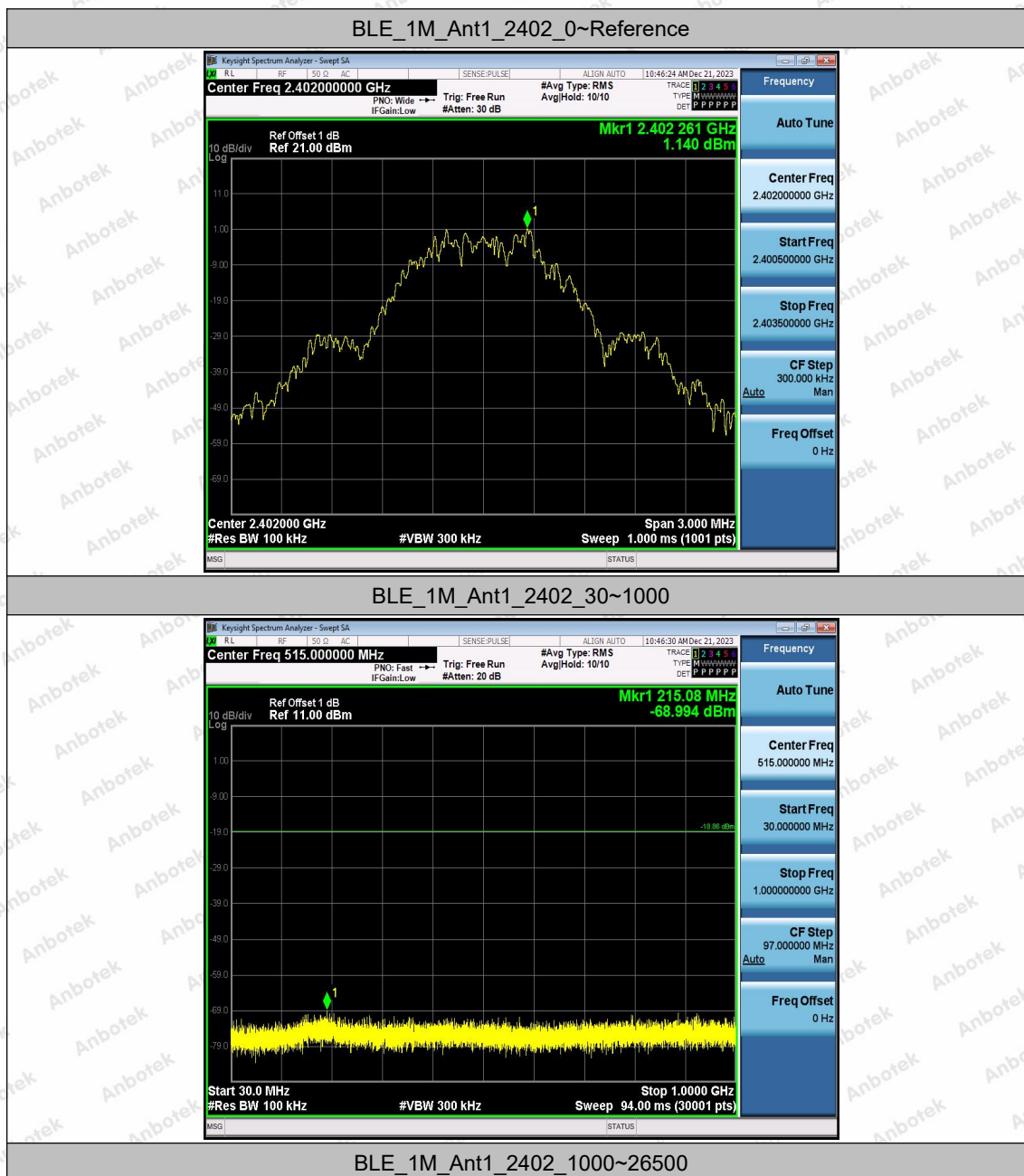
## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402           | Reference       | 1.14           | 1.14        | ---        | PASS    |
|          |         |                | 30~1000         | 1.14           | -68.99      | ≤-18.86    | PASS    |
|          |         |                | 1000~26500      | 1.14           | -52.59      | ≤-18.86    | PASS    |
|          |         | 2440           | Reference       | 0.84           | 0.84        | ---        | PASS    |
|          |         |                | 30~1000         | 0.84           | -69.78      | ≤-19.16    | PASS    |
|          |         |                | 1000~26500      | 0.84           | -53.11      | ≤-19.16    | PASS    |
|          |         | 2480           | Reference       | 0.59           | 0.59        | ---        | PASS    |
|          |         |                | 30~1000         | 0.59           | -68.93      | ≤-19.41    | PASS    |
|          |         |                | 1000~26500      | 0.59           | -53.04      | ≤-19.41    | PASS    |



## Test Graphs



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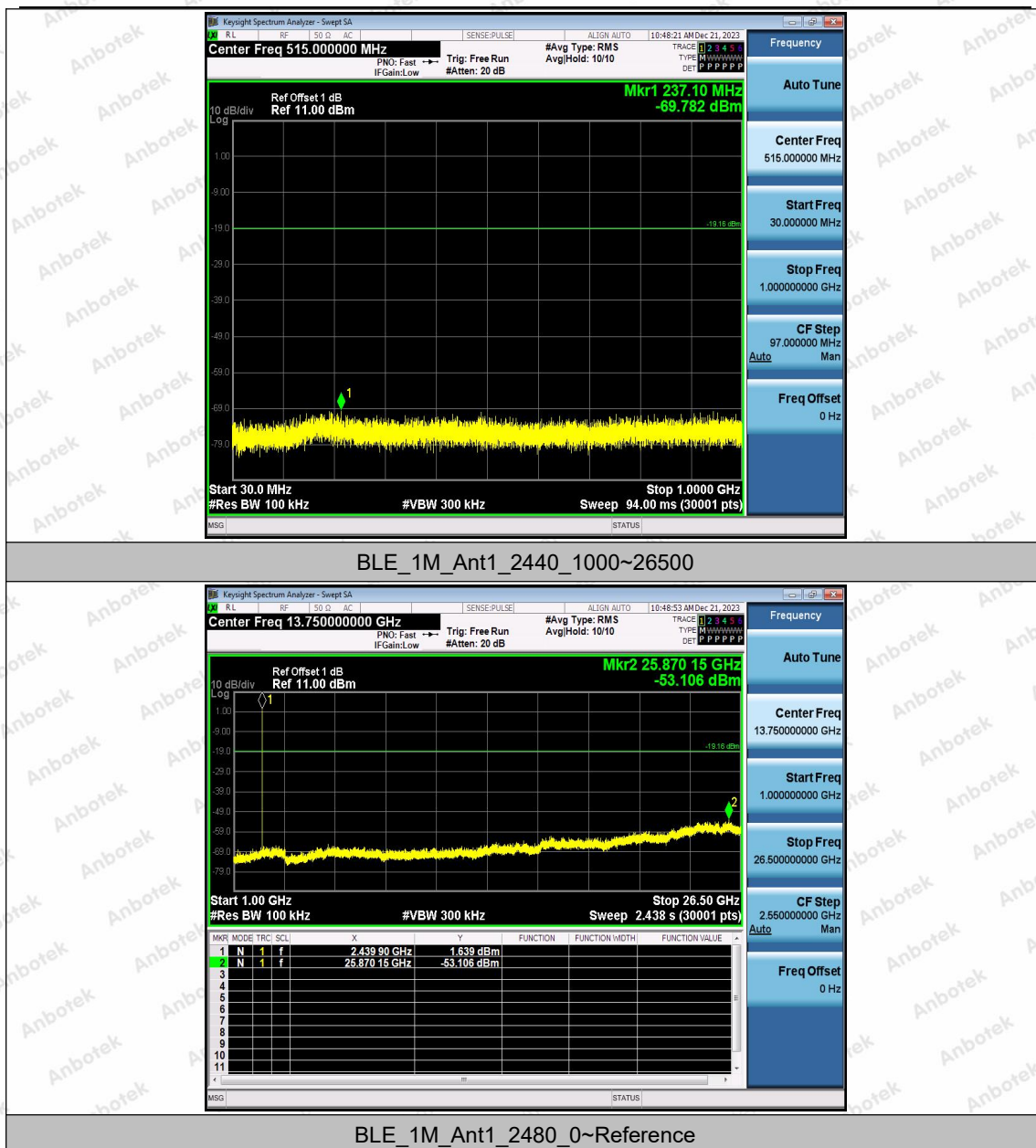


BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000





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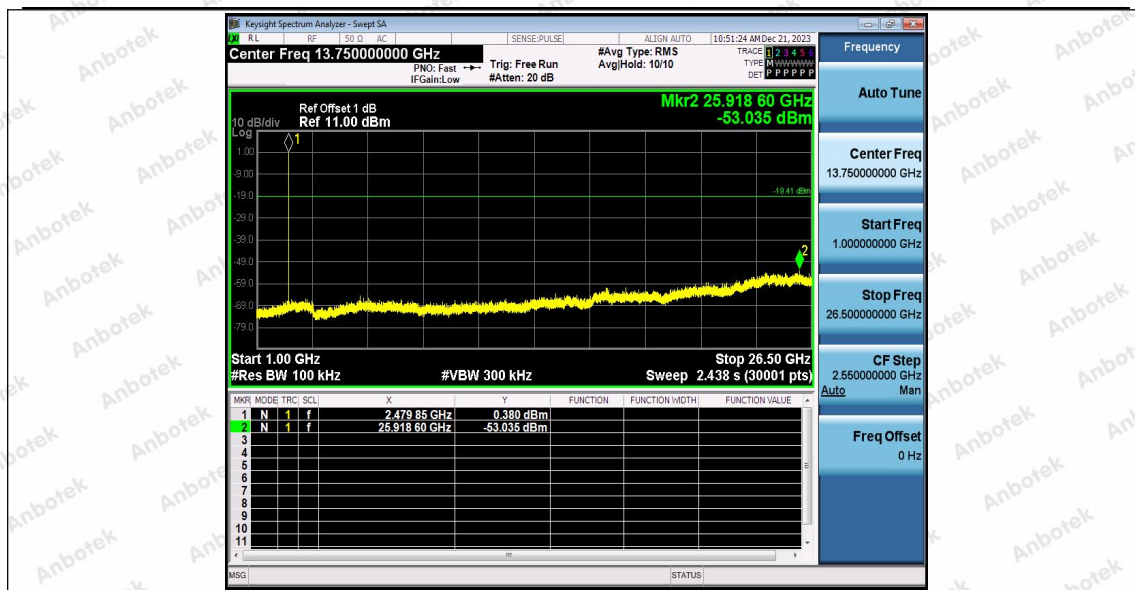
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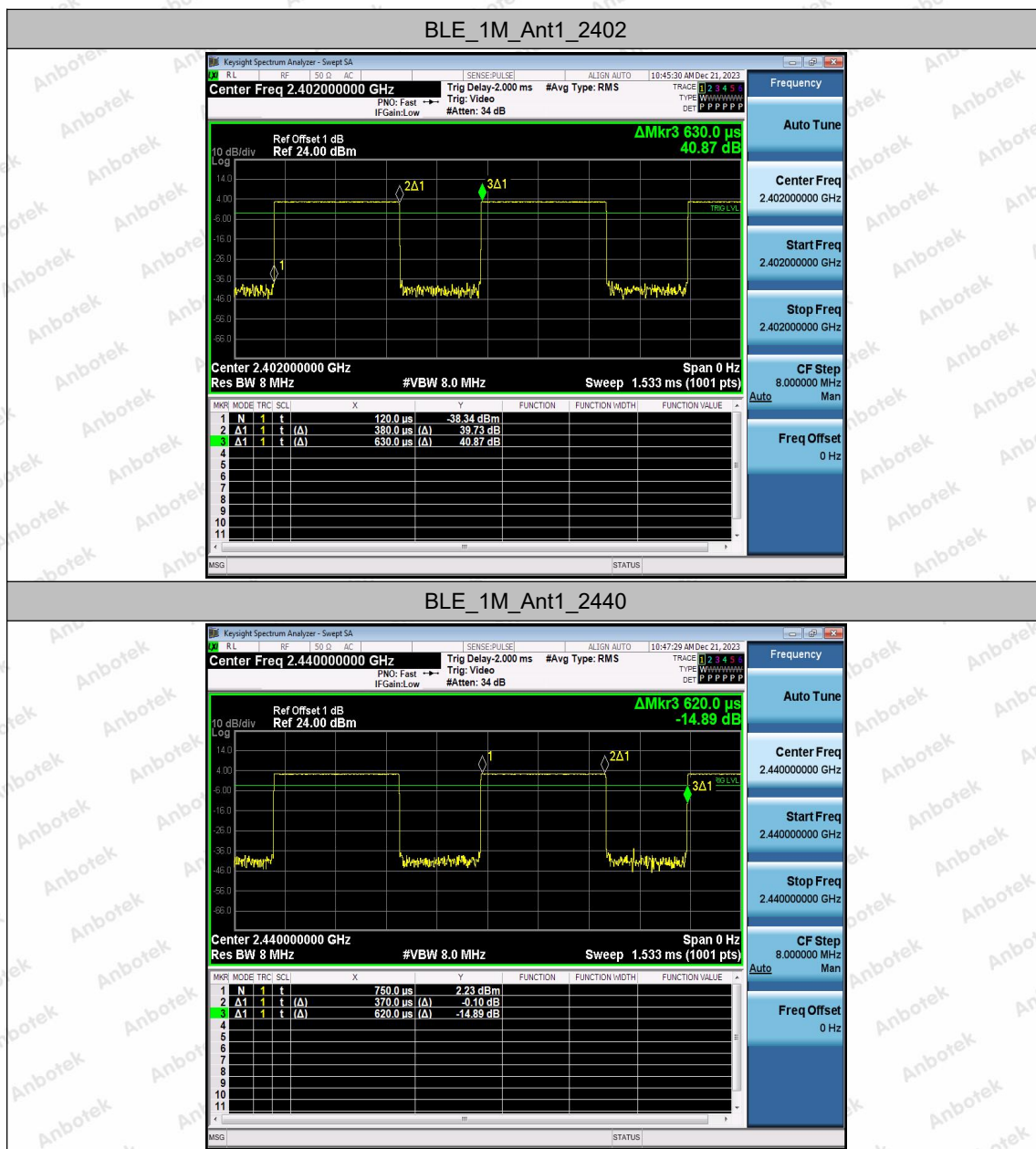


## Appendix G: Duty Cycle

### Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>Factor[dB] |
|----------|---------|----------------|-----------------|----------------|-------------------|--------------------------|
| BLE_1M   | Ant1    | 2402           | 0.38            | 0.63           | 60.32             | 2.20                     |
|          |         | 2440           | 0.37            | 0.62           | 59.68             | 2.24                     |
|          |         | 2480           | 0.38            | 0.63           | 60.32             | 2.20                     |

### Test Graphs



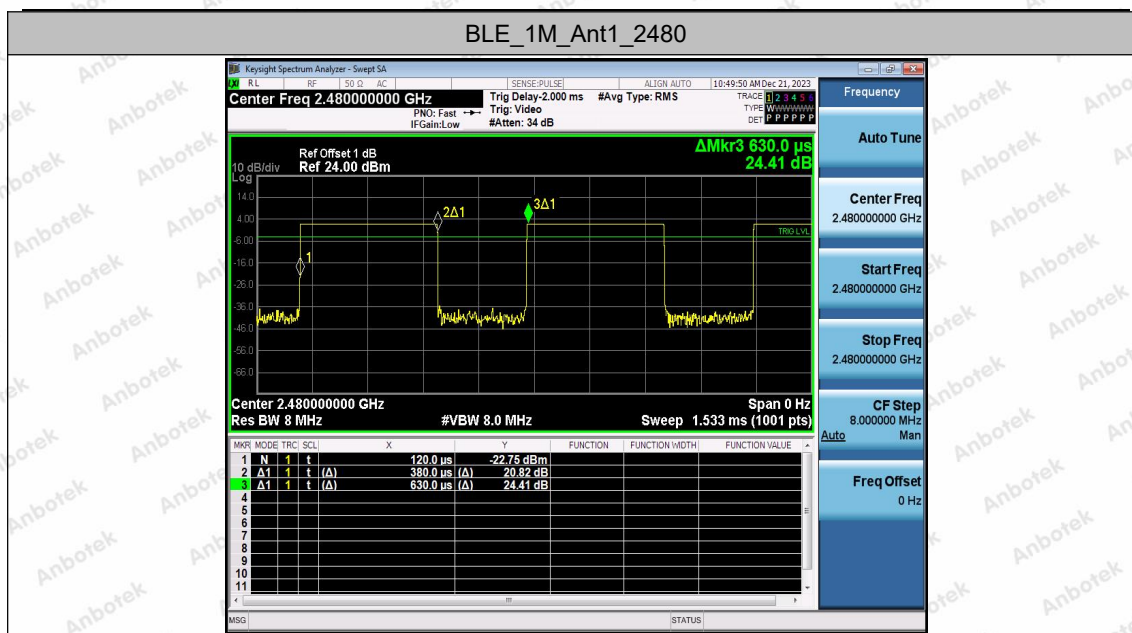
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