

Appendix Test Data

|                  |                  |                    |             |
|------------------|------------------|--------------------|-------------|
| Report No.:      | 182512C400394102 | Test Sample No.:   | 1-2-2       |
| Start Test Date: | 2024.7.5         | Finish Test Date:  | 2024.8.20   |
| Test Engineer:   | Foker Wang       | Auditor:           | Justin Feng |
| Temperature:     | 24.5℃            | Relative Humidity: | 49%         |
| Pressure:        | 101kPa           |                    |             |

Appendix A: 6dB Bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | 6dB BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 0.644        | 2401.696 | 2402.340 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2440           | 0.624        | 2439.700 | 2440.324 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2480           | 0.636        | 2479.692 | 2480.328 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2402           | 1.096        | 2401.452 | 2402.548 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2440           | 1.100        | 2439.460 | 2440.560 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2480           | 1.112        | 2479.448 | 2480.560 | 0.5        | PASS    |



## Test Graphs



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS



BLE\_1M-Ant1-2480-PASS

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BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS



BLE\_2M-Ant1-2480-PASS

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## Appendix B: 99% Occupied Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB<br>[MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|-----------|-----------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 1.0285       | 2401.5116 | 2402.5401 | ---        | ---     |
| BLE_1M   | Ant1    | 2440           | 1.0407       | 2439.5050 | 2440.5457 | ---        | ---     |
| BLE_1M   | Ant1    | 2480           | 1.0306       | 2479.5112 | 2480.5418 | ---        | ---     |
| BLE_2M   | Ant1    | 2402           | 2.0246       | 2401.0237 | 2403.0483 | ---        | ---     |
| BLE_2M   | Ant1    | 2440           | 2.0407       | 2439.0047 | 2441.0454 | ---        | ---     |
| BLE_2M   | Ant1    | 2480           | 2.0425       | 2479.0158 | 2481.0583 | ---        | ---     |



## Test Graphs



BLE\_1M-Ant1-2402



BLE\_1M-Ant1-2440



BLE\_1M-Ant1-2480

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BLE\_2M-Ant1-2402



BLE\_2M-Ant1-2440



BLE\_2M-Ant1-2480

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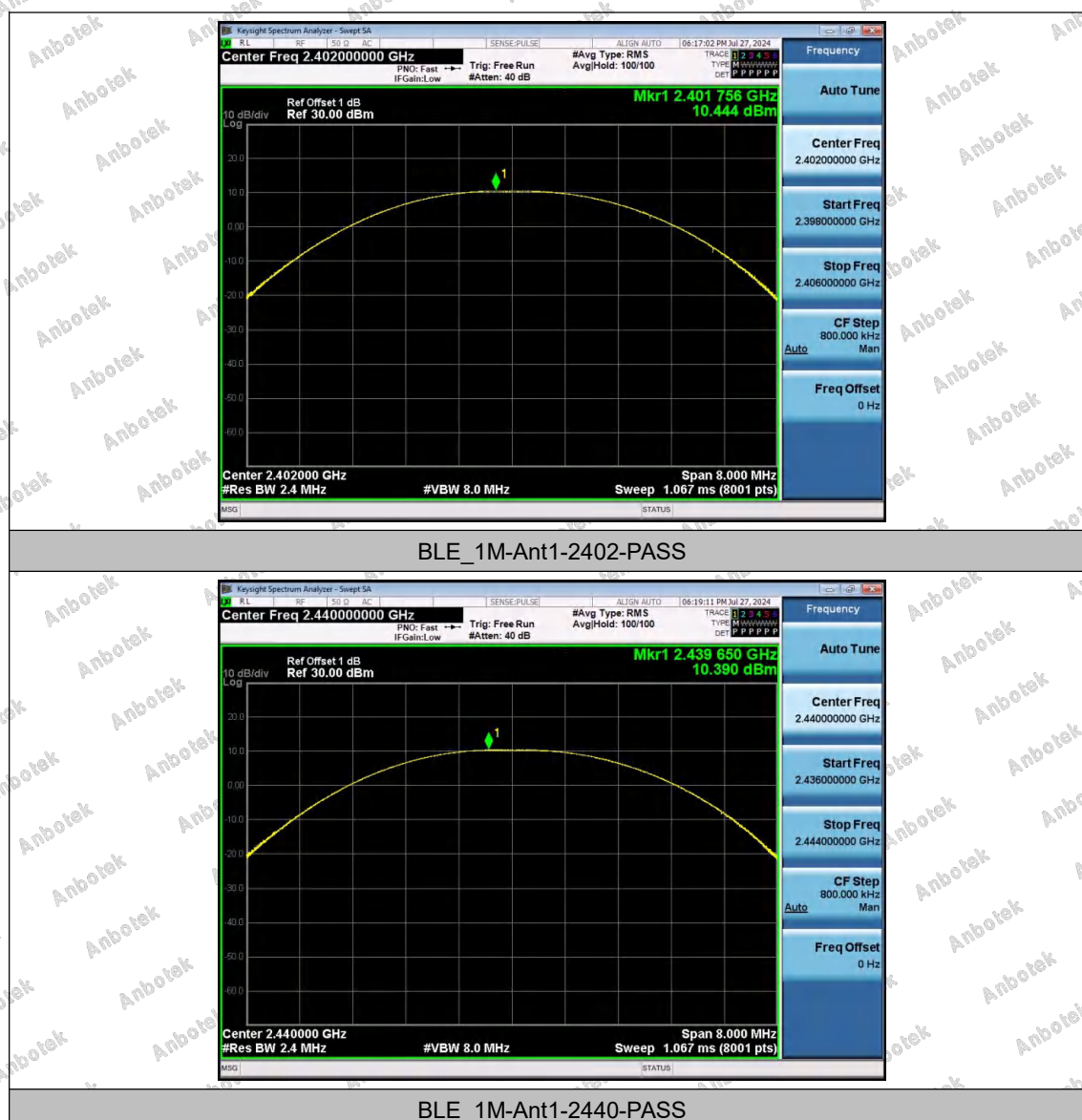


## Appendix C: Maximum conducted output power

### Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | EIRP[dBm] | EIRP Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|-----------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | 10.44                     | ≤30                  | 10.44     | ≤36             | PASS    |
| BLE_1M   | Ant1    | 2440           | 10.39                     | ≤30                  | 10.39     | ≤36             | PASS    |
| BLE_1M   | Ant1    | 2480           | 10.05                     | ≤30                  | 10.05     | ≤36             | PASS    |
| BLE_2M   | Ant1    | 2402           | 10.44                     | ≤30                  | 10.44     | ≤36             | PASS    |
| BLE_2M   | Ant1    | 2440           | 10.34                     | ≤30                  | 10.34     | ≤36             | PASS    |
| BLE_2M   | Ant1    | 2480           | 10.00                     | ≤30                  | 10.00     | ≤36             | PASS    |

### Test Graphs Peak



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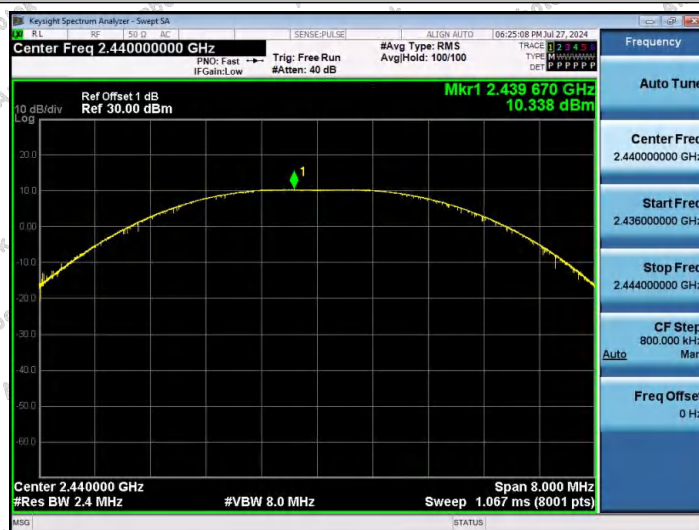




BLE\_1M-Ant1-2480-PASS



BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS

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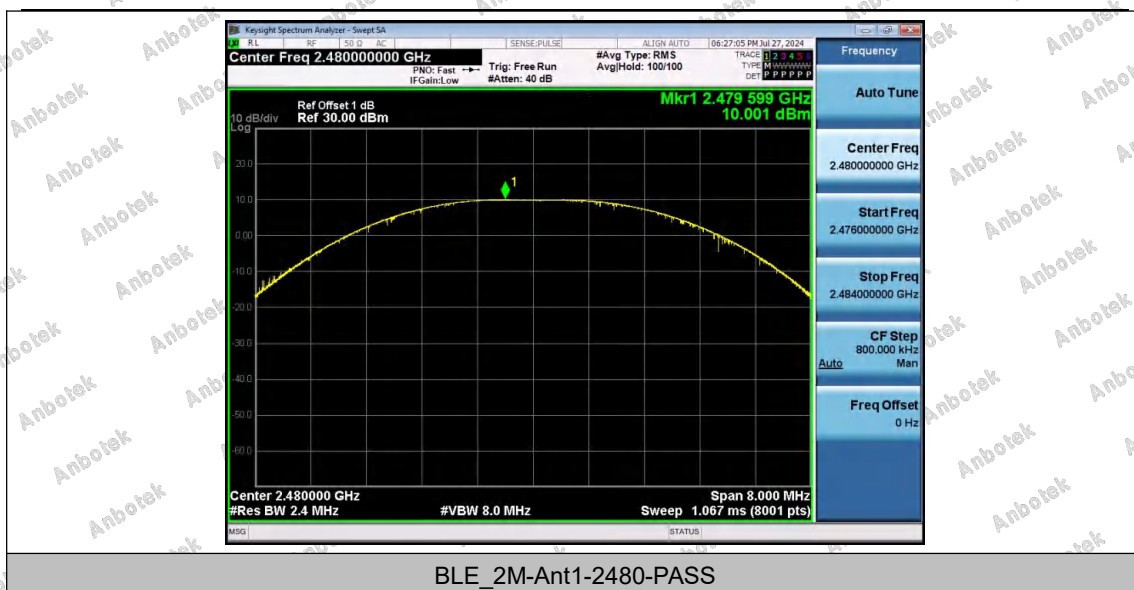
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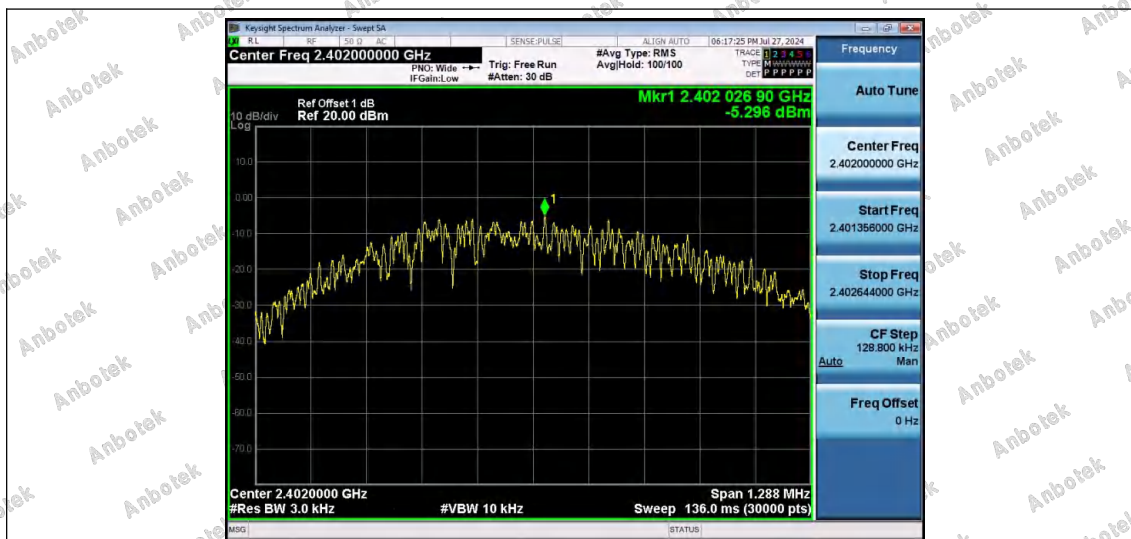
## Appendix D: Maximum power spectral density

### Test Result

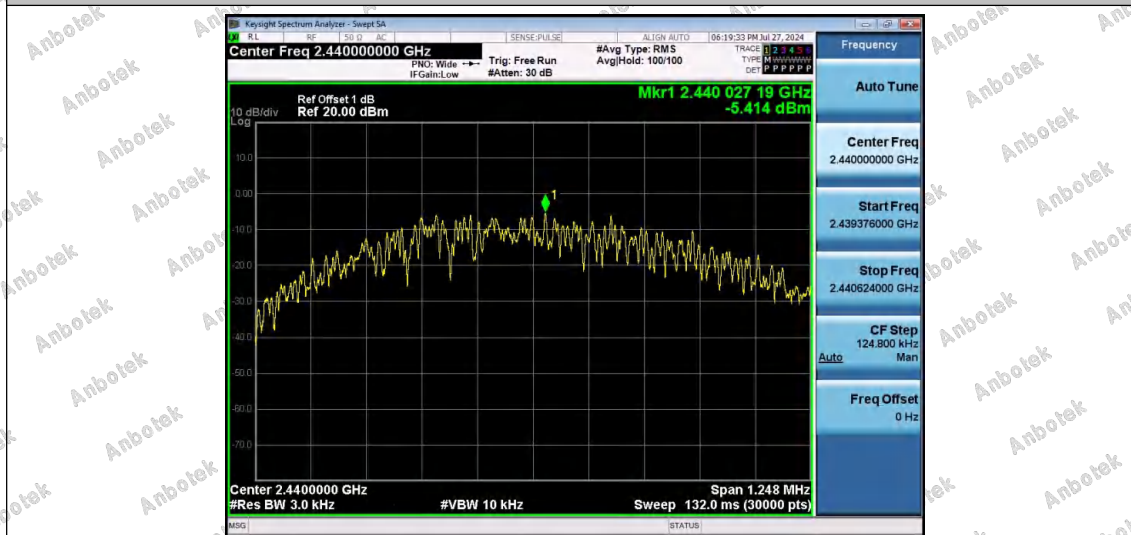
| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -5.30            | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -5.41            | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -5.78            | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2402           | -7.09            | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2440           | -7.17            | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2480           | -7.43            | ≤8.00           | PASS    |



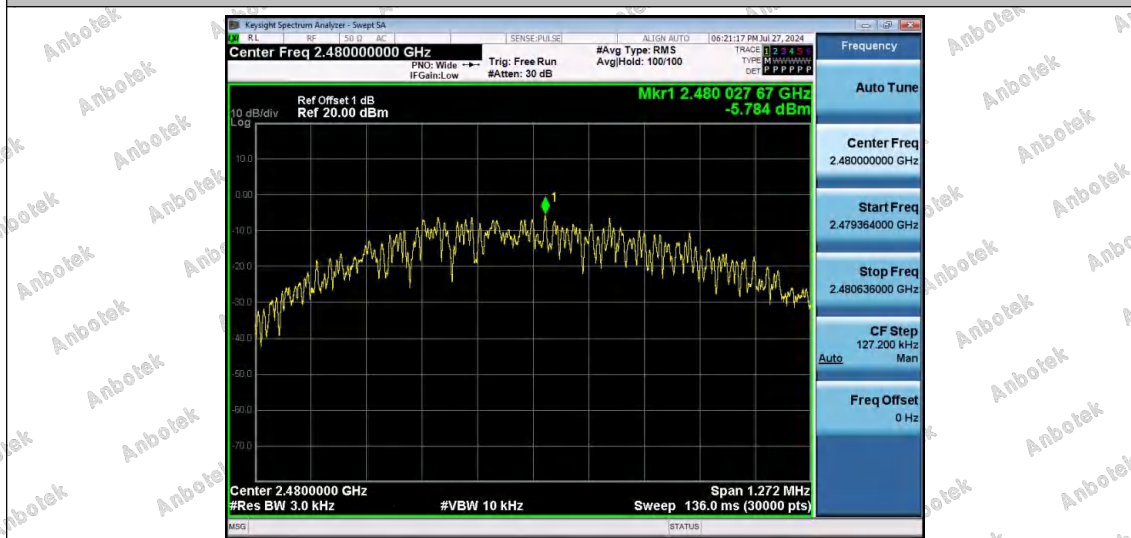
## Test Graphs



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS



BLE\_1M-Ant1-2480-PASS

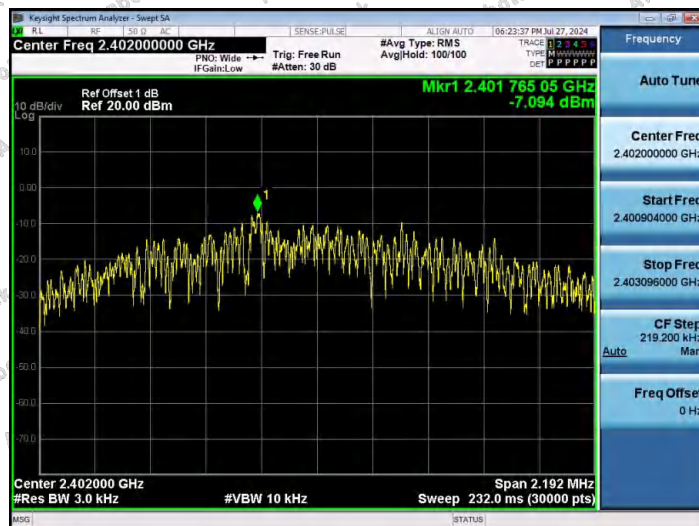
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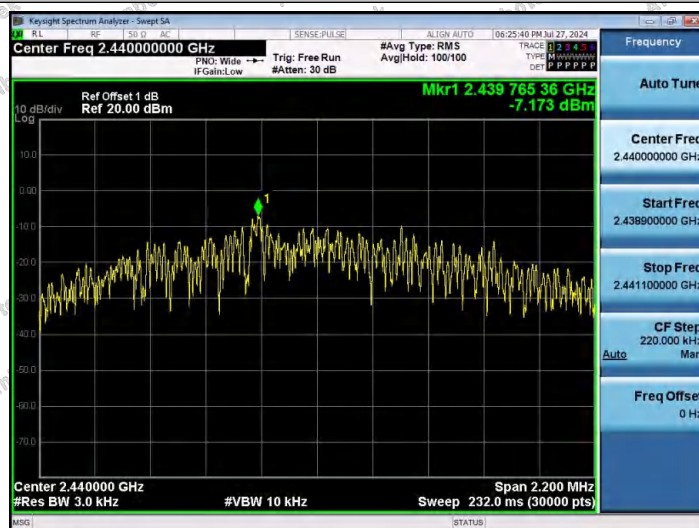


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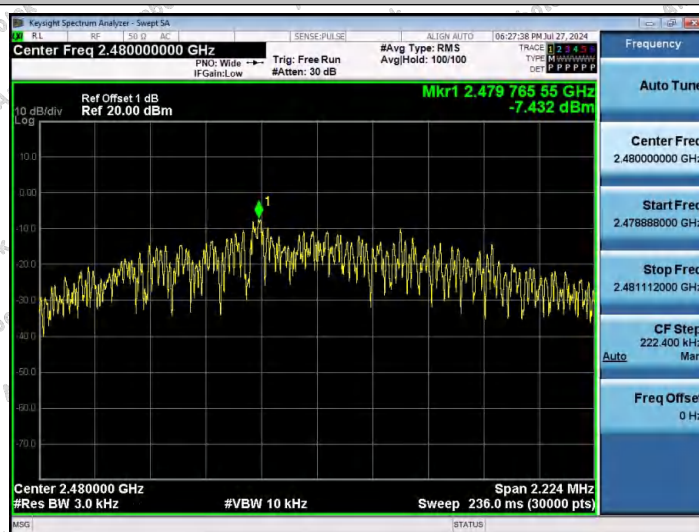




BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS



BLE\_2M-Ant1-2480-PASS

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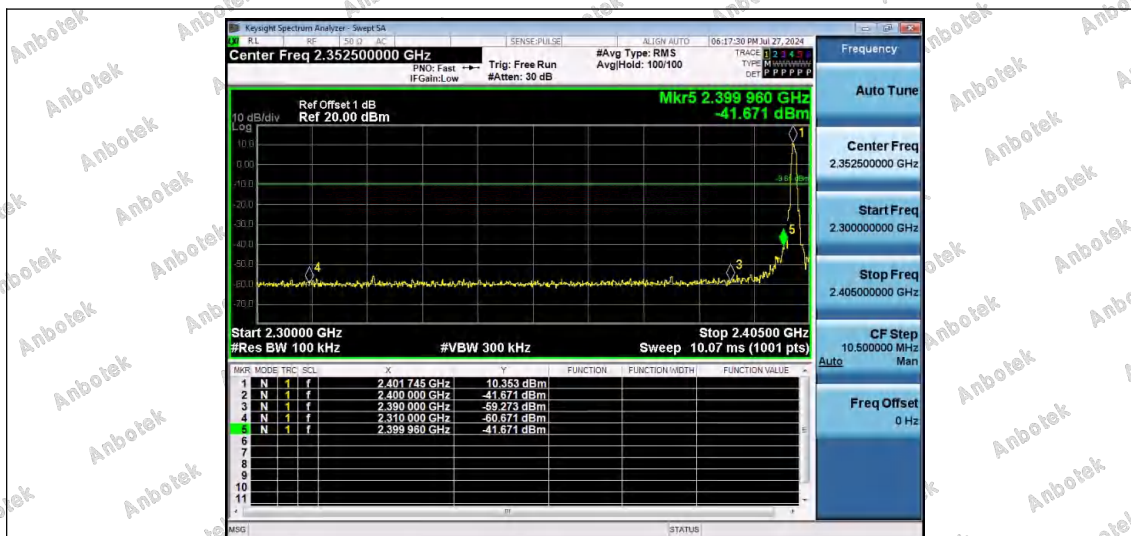
Appendix E: Band edge measurements

Test Result

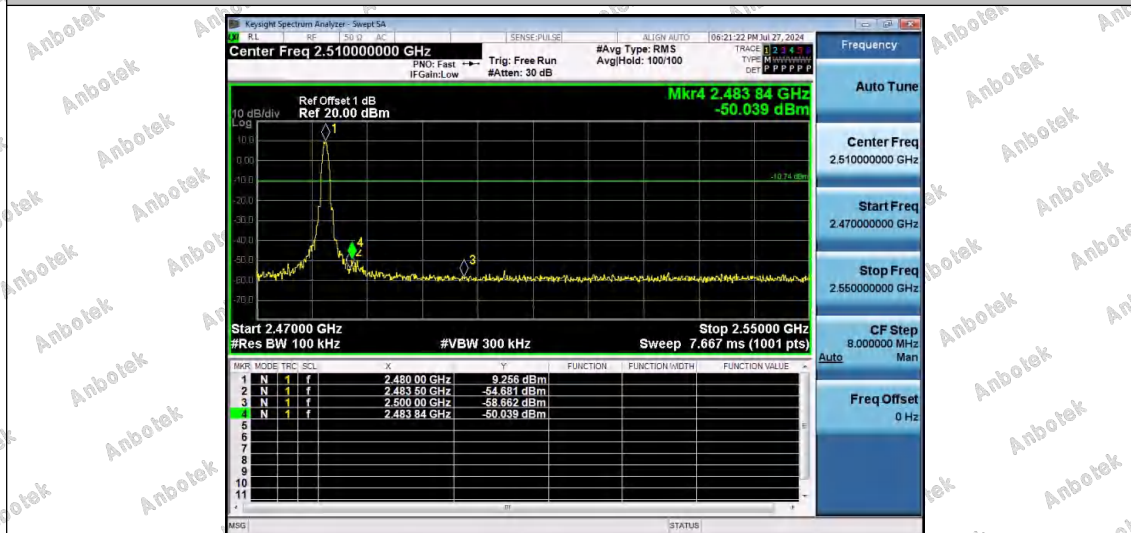
| TestMode | Antenna | Channel | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low     | 2402           | 10.35         | -41.67      | ≤-9.65     | PASS    |
| BLE_1M   | Ant1    | High    | 2480           | 9.26          | -50.04      | ≤-10.74    | PASS    |
| BLE_2M   | Ant1    | Low     | 2402           | 9.14          | -26.84      | ≤-10.86    | PASS    |
| BLE_2M   | Ant1    | High    | 2480           | 9.88          | -42.9       | ≤-10.13    | PASS    |



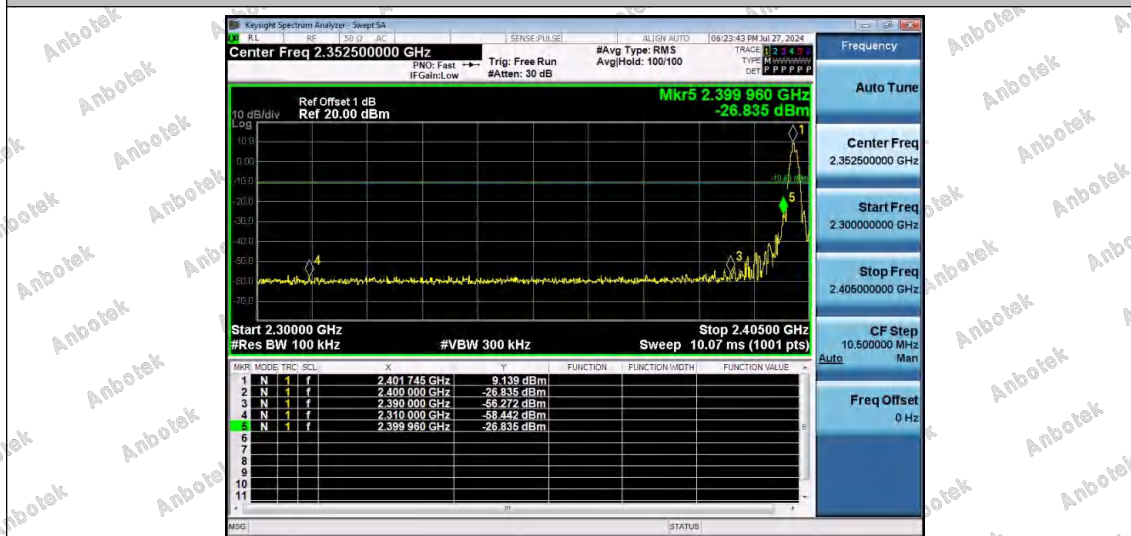
## Test Graphs



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2480-PASS



BLE\_2M-Ant1-2402-PASS

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## Appendix F: Conducted Spurious Emission

### Test Result

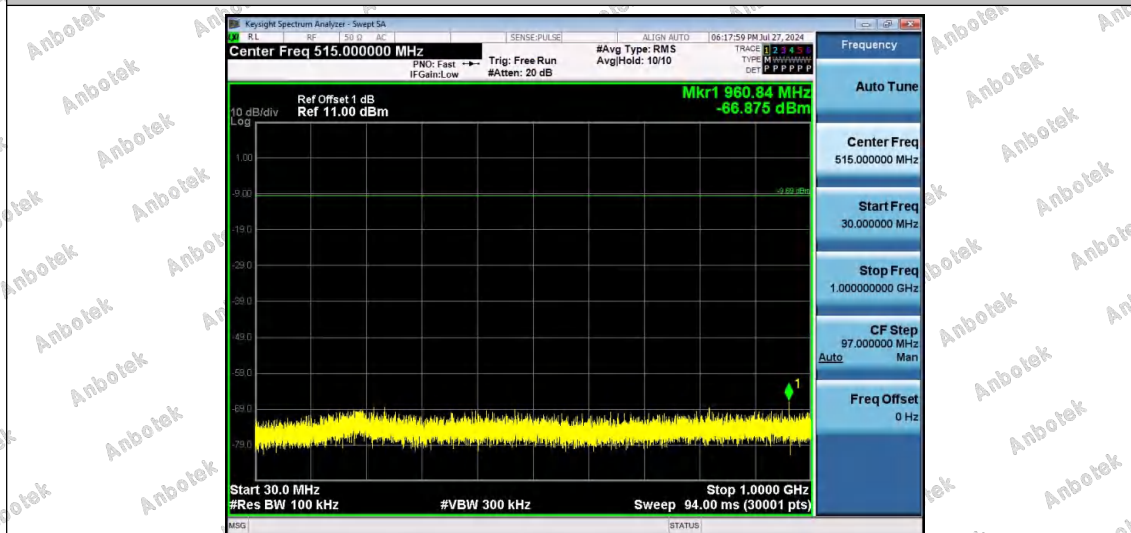
| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 0~Reference     | 10.31          | 10.31       | ---        | PASS    |
| BLE_1M   | Ant1    | 2402           | 30~1000         | 10.31          | -66.88      | ≤-9.69     | PASS    |
| BLE_1M   | Ant1    | 2402           | 1000~26500      | 10.31          | -49.35      | ≤-9.69     | PASS    |
| BLE_1M   | Ant1    | 2440           | 0~Reference     | 9.09           | 9.09        | ---        | PASS    |
| BLE_1M   | Ant1    | 2440           | 30~1000         | 9.09           | -67.97      | ≤-10.91    | PASS    |
| BLE_1M   | Ant1    | 2440           | 1000~26500      | 9.09           | -50.08      | ≤-10.91    | PASS    |
| BLE_1M   | Ant1    | 2480           | 0~Reference     | 9.68           | 9.68        | ---        | PASS    |
| BLE_1M   | Ant1    | 2480           | 30~1000         | 9.68           | -68         | ≤-10.32    | PASS    |
| BLE_1M   | Ant1    | 2480           | 1000~26500      | 9.68           | -45.95      | ≤-10.32    | PASS    |
| BLE_2M   | Ant1    | 2402           | 0~Reference     | 7.40           | 7.40        | ---        | PASS    |
| BLE_2M   | Ant1    | 2402           | 30~1000         | 7.40           | -68.65      | ≤-12.6     | PASS    |
| BLE_2M   | Ant1    | 2402           | 1000~26500      | 7.40           | -50.65      | ≤-12.6     | PASS    |
| BLE_2M   | Ant1    | 2440           | 0~Reference     | 5.31           | 5.31        | ---        | PASS    |
| BLE_2M   | Ant1    | 2440           | 30~1000         | 5.31           | -65.81      | ≤-14.69    | PASS    |
| BLE_2M   | Ant1    | 2440           | 1000~26500      | 5.31           | -51.94      | ≤-14.69    | PASS    |
| BLE_2M   | Ant1    | 2480           | 0~Reference     | 5.72           | 5.72        | ---        | PASS    |
| BLE_2M   | Ant1    | 2480           | 30~1000         | 5.72           | -68.35      | ≤-14.28    | PASS    |
| BLE_2M   | Ant1    | 2480           | 1000~26500      | 5.72           | -50.3       | ≤-14.28    | PASS    |



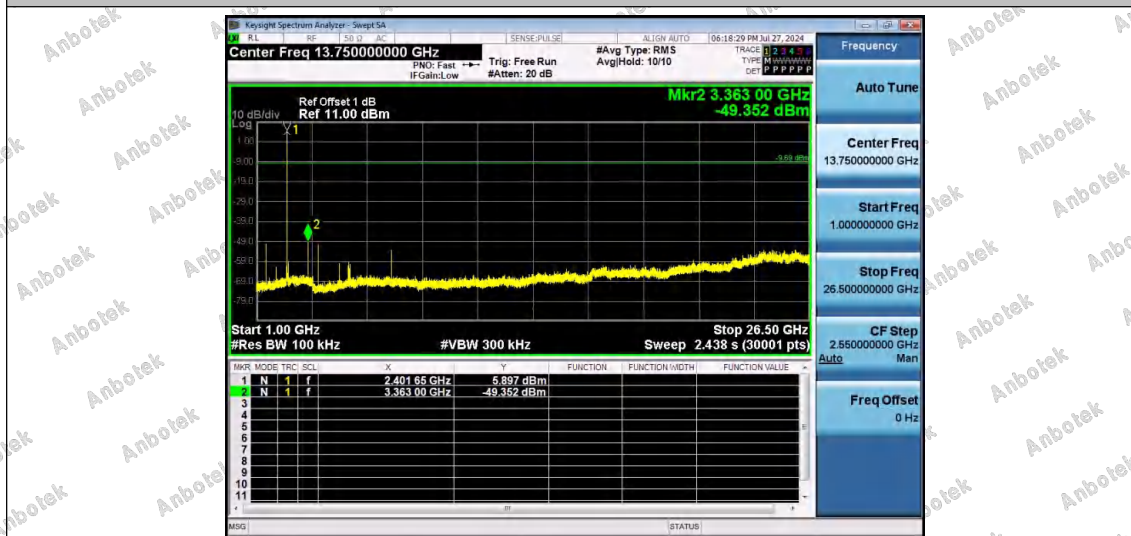
## Test Graphs



BLE\_1M-Ant1-2402-0~Reference-PASS



BLE\_1M-Ant1-2402-30~1000-PASS



BLE\_1M-Ant1-2402-1000~26500-PASS

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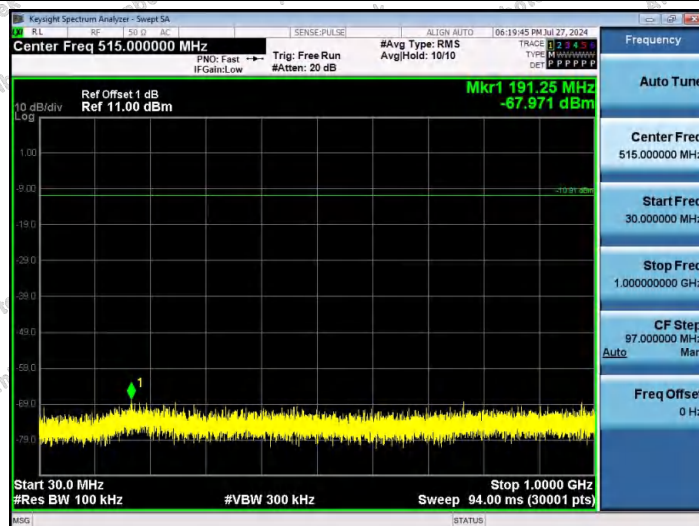
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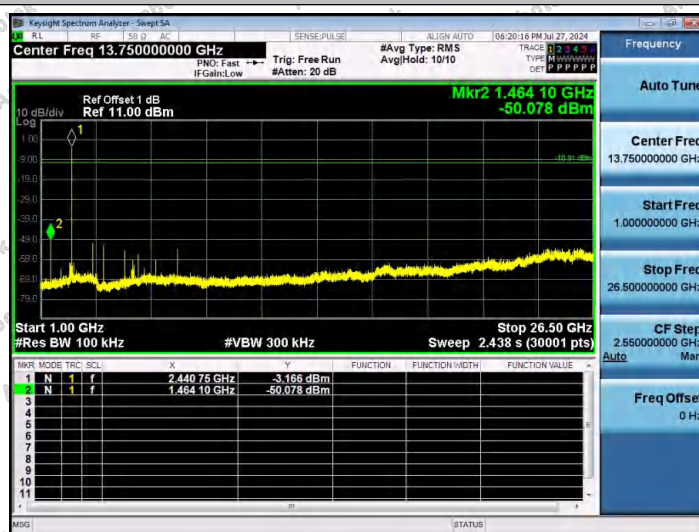




BLE\_1M-Ant1-2440-0~Reference-PASS



BLE\_1M-Ant1-2440-30~1000-PASS

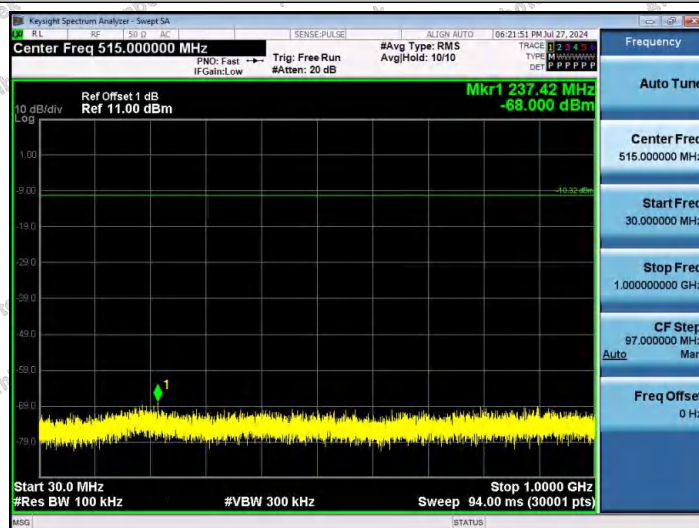


BLE\_1M-Ant1-2440-1000~26500-PASS

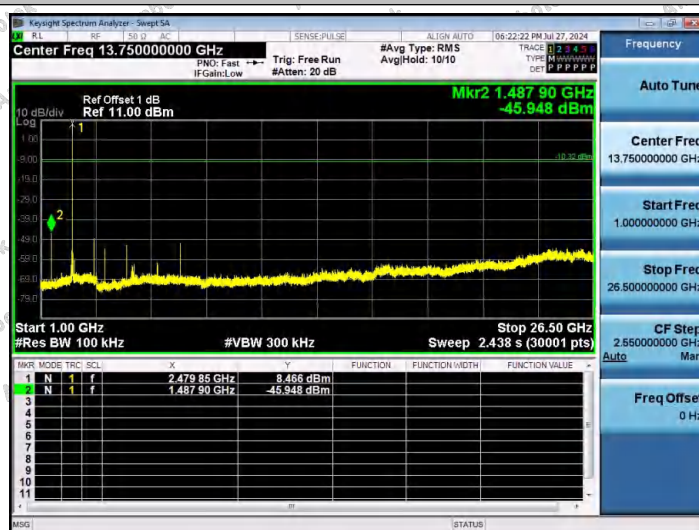




BLE\_1M-Ant1-2480-0~Reference-PASS



BLE\_1M-Ant1-2480-30~1000-PASS

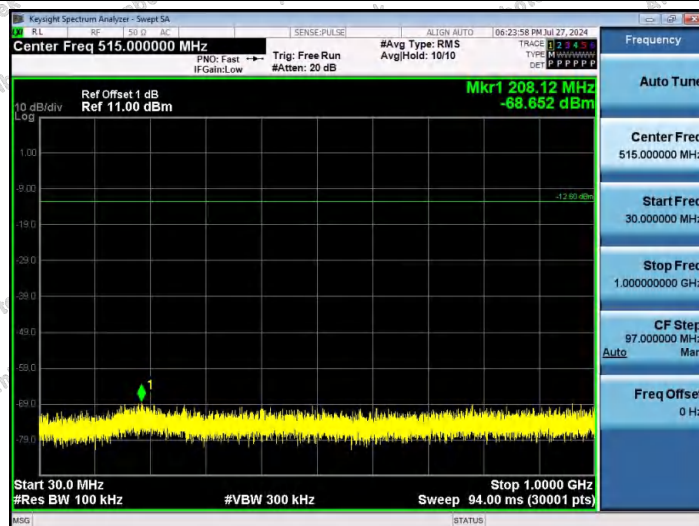


BLE\_1M-Ant1-2480-1000~26500-PASS

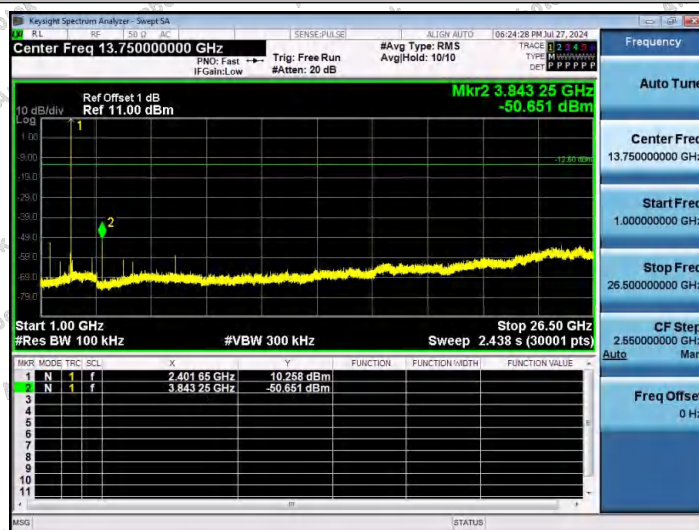




BLE\_2M-Ant1-2402-0~Reference-PASS



BLE\_2M-Ant1-2402-30~1000-PASS

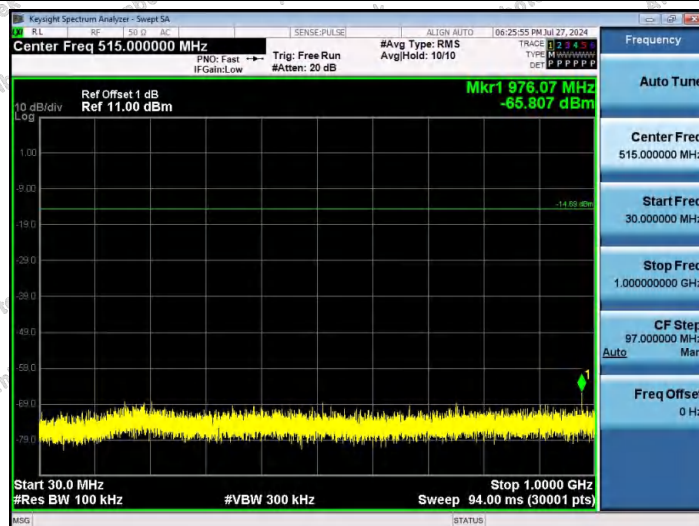


BLE\_2M-Ant1-2402-1000~26500-PASS

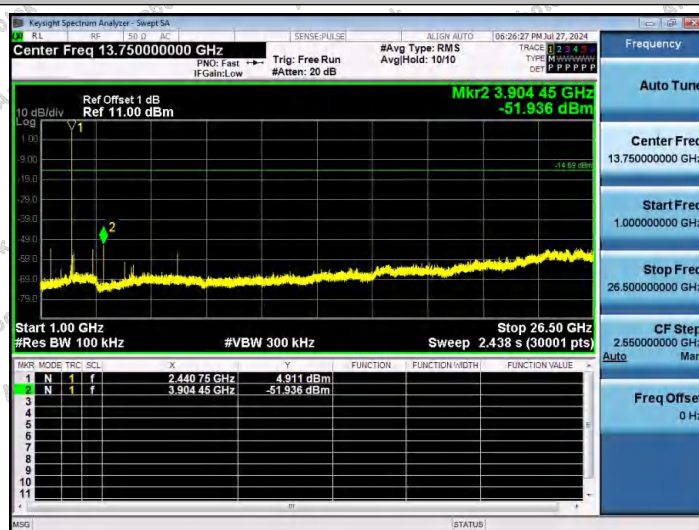




BLE\_2M-Ant1-2440-0~Reference-PASS



BLE\_2M-Ant1-2440-30~1000-PASS



BLE\_2M-Ant1-2440-1000~26500-PASS

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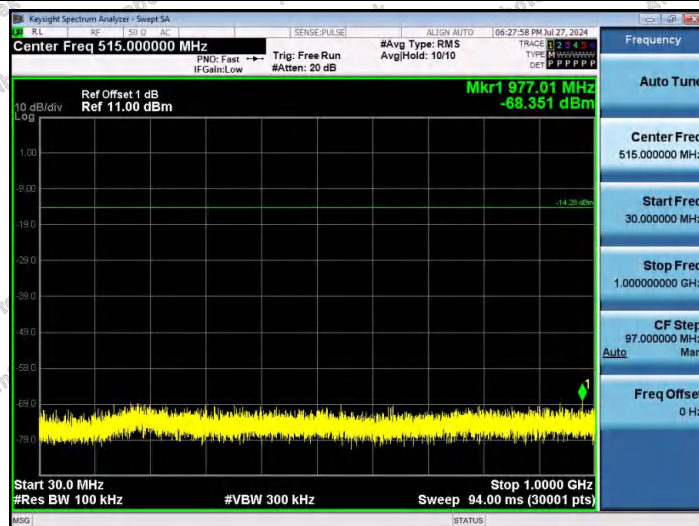
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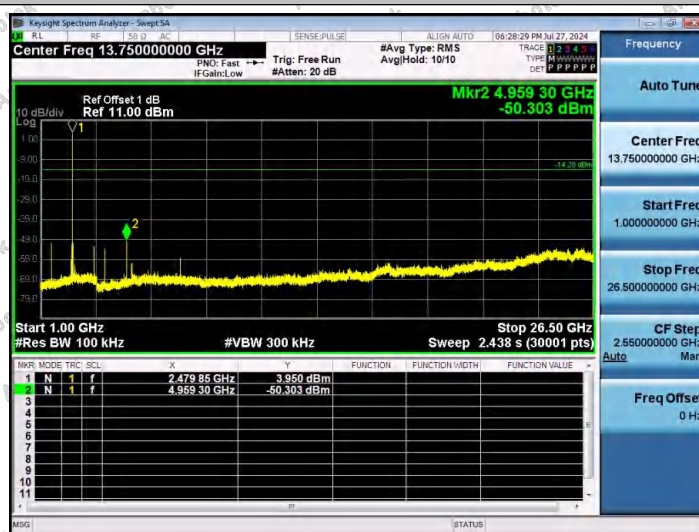




BLE\_2M-Ant1-2480-0~Reference-PASS



BLE\_2M-Ant1-2480-30~1000-PASS



BLE\_2M-Ant1-2480-1000~26500-PASS



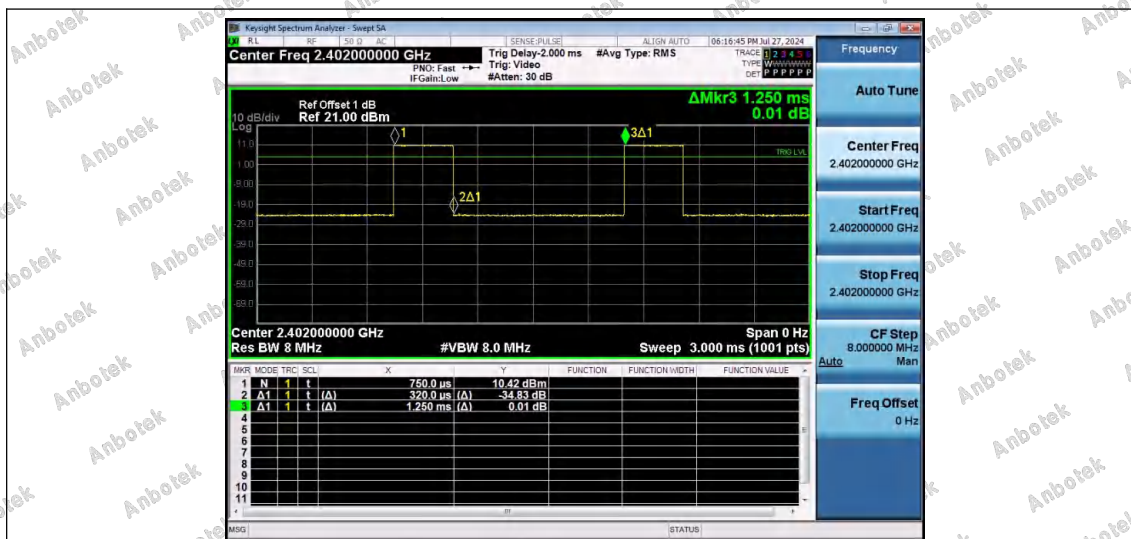
Appendix G: Duty Cycle

Test Result

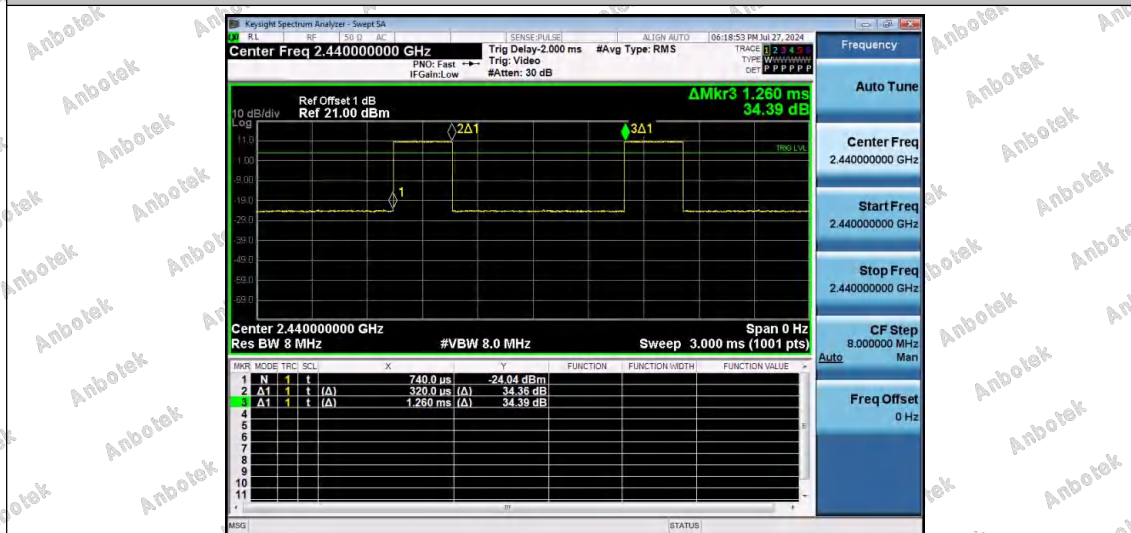
| TestMode | Antenna | Frequency[MHz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>Factor[dB] |
|----------|---------|----------------|-----------------|----------------|-------------------|--------------------------|
| BLE_1M   | Ant1    | 2402           | 0.32            | 1.25           | 25.60             | 5.92                     |
| BLE_1M   | Ant1    | 2440           | 0.32            | 1.26           | 25.40             | 5.95                     |
| BLE_1M   | Ant1    | 2480           | 0.32            | 1.25           | 25.60             | 5.92                     |
| BLE_2M   | Ant1    | 2402           | 0.18            | 1.26           | 14.29             | 8.45                     |
| BLE_2M   | Ant1    | 2440           | 0.18            | 1.26           | 14.29             | 8.45                     |
| BLE_2M   | Ant1    | 2480           | 0.18            | 1.26           | 14.29             | 8.45                     |



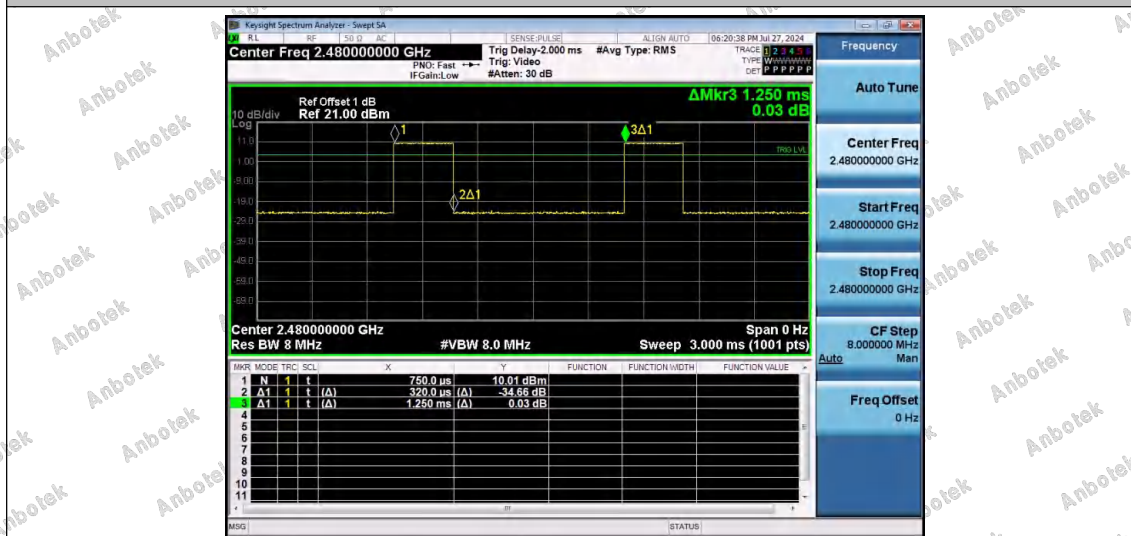
## Test Graphs



NTNV-BLE\_1M-Ant1-2402



NTNV-BLE\_1M-Ant1-2440



NTNV-BLE\_1M-Ant1-2480

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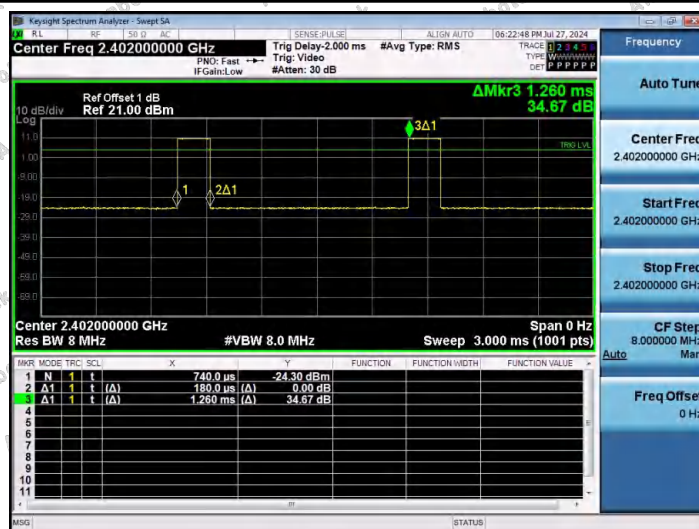
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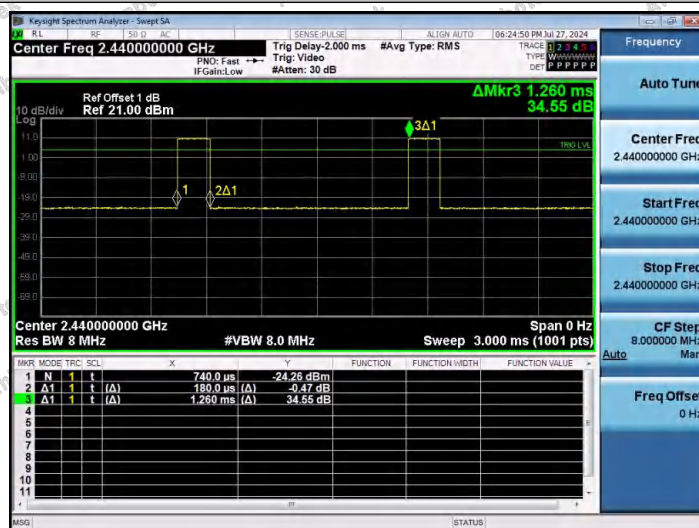


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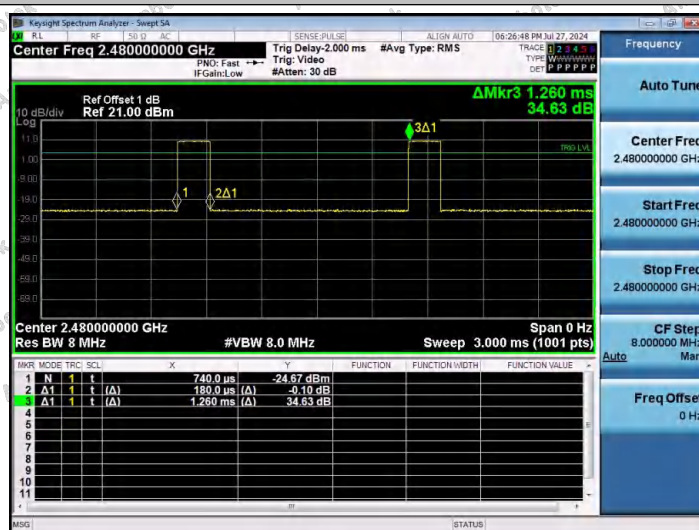




NTNV-BLE\_2M-Ant1-2402



NTNV-BLE\_2M-Ant1-2440



NTNV-BLE\_2M-Ant1-2480

---End---

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