

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20275401 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.12.5       | Finish Test Date:  | 2022.12.14        |
| Test Engineer:   | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 24.3C°          | Relative Humidity: | 47 %              |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: DTS Bandwidth

## Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 0.672        | 2401.668 | 2402.340 | 0.5        | PASS    |
|          |         | 2440           | 0.684        | 2439.660 | 2440.344 | 0.5        | PASS    |
|          |         | 2480           | 0.684        | 2479.656 | 2480.340 | 0.5        | PASS    |



## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

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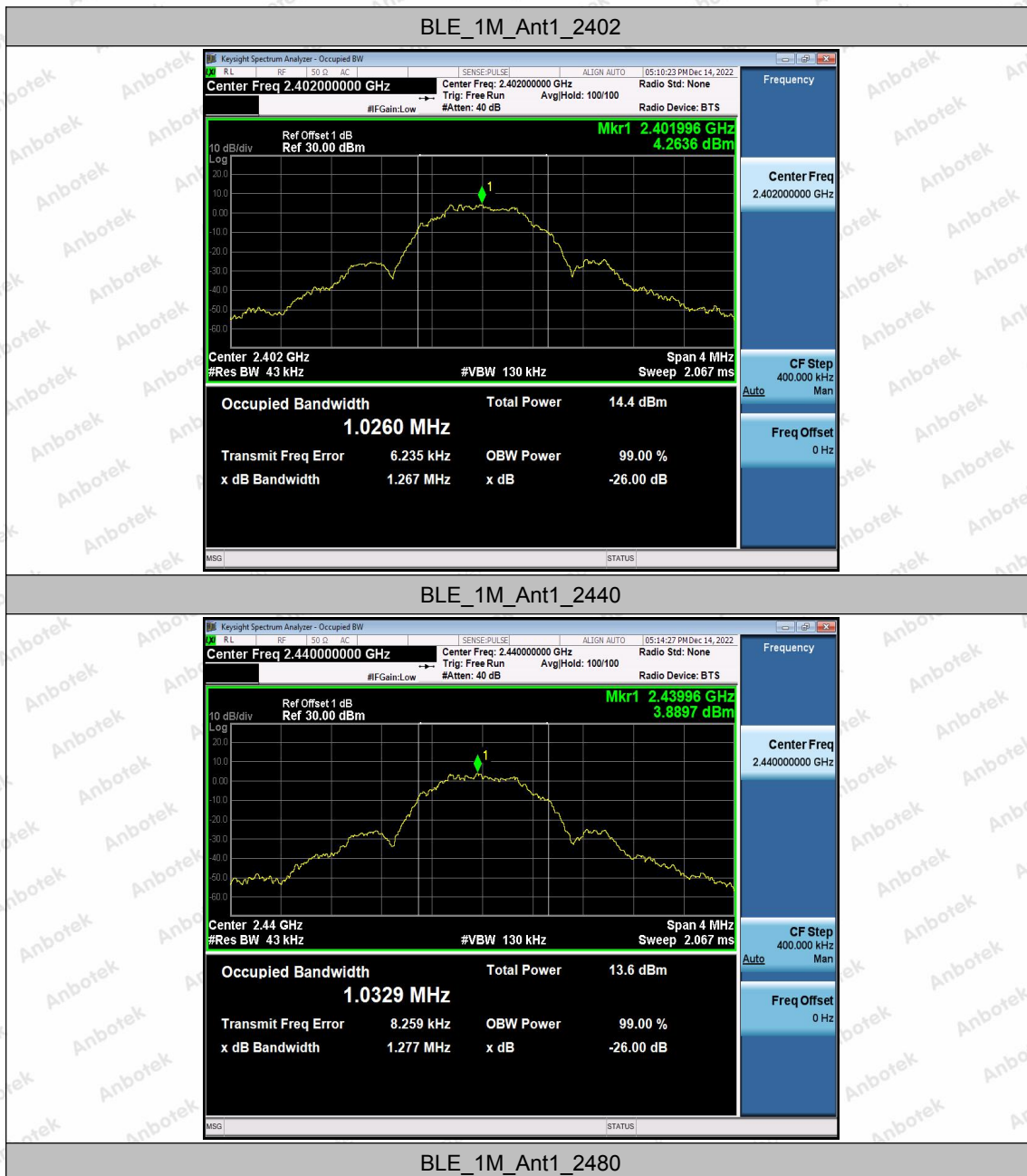
## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|----------|---------|----------------|-----------|-----------|-----------|
| BLE_1M   | Ant1    | 2402           | 1.0260    | 2401.4932 | 2402.5192 |
|          |         | 2440           | 1.0329    | 2439.4918 | 2440.5247 |
|          |         | 2480           | 1.0288    | 2479.4935 | 2480.5223 |



## 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           | 8.05                      | ≤30                  | PASS    |
|          |         | 2440           | 7.3                       | ≤30                  | PASS    |
|          |         | 2480           | 7.16                      | ≤30                  | PASS    |



## Test Graphs Peak



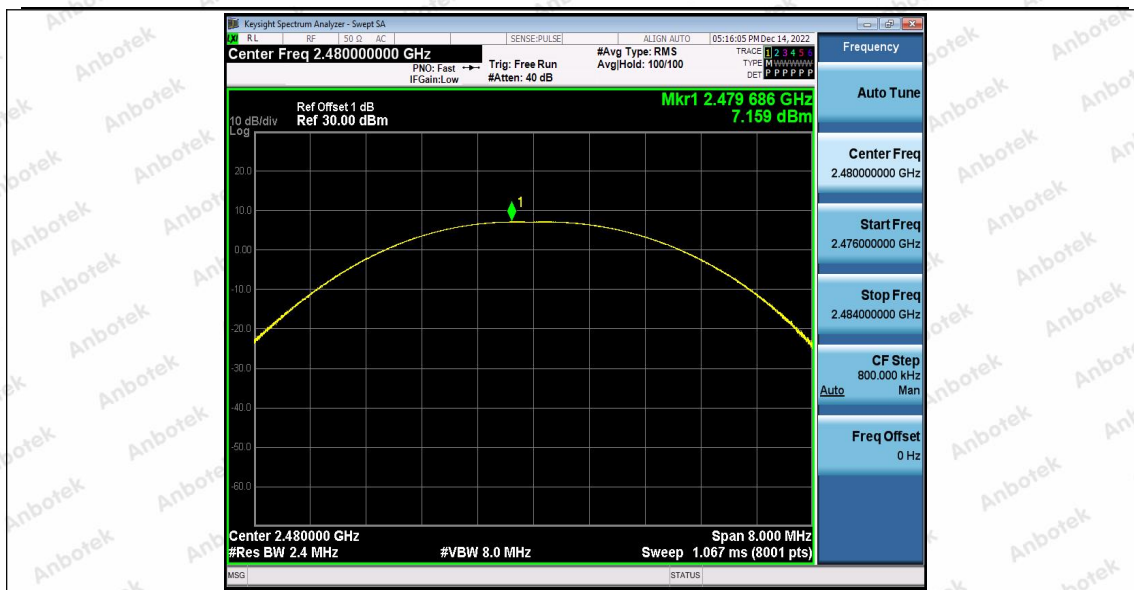
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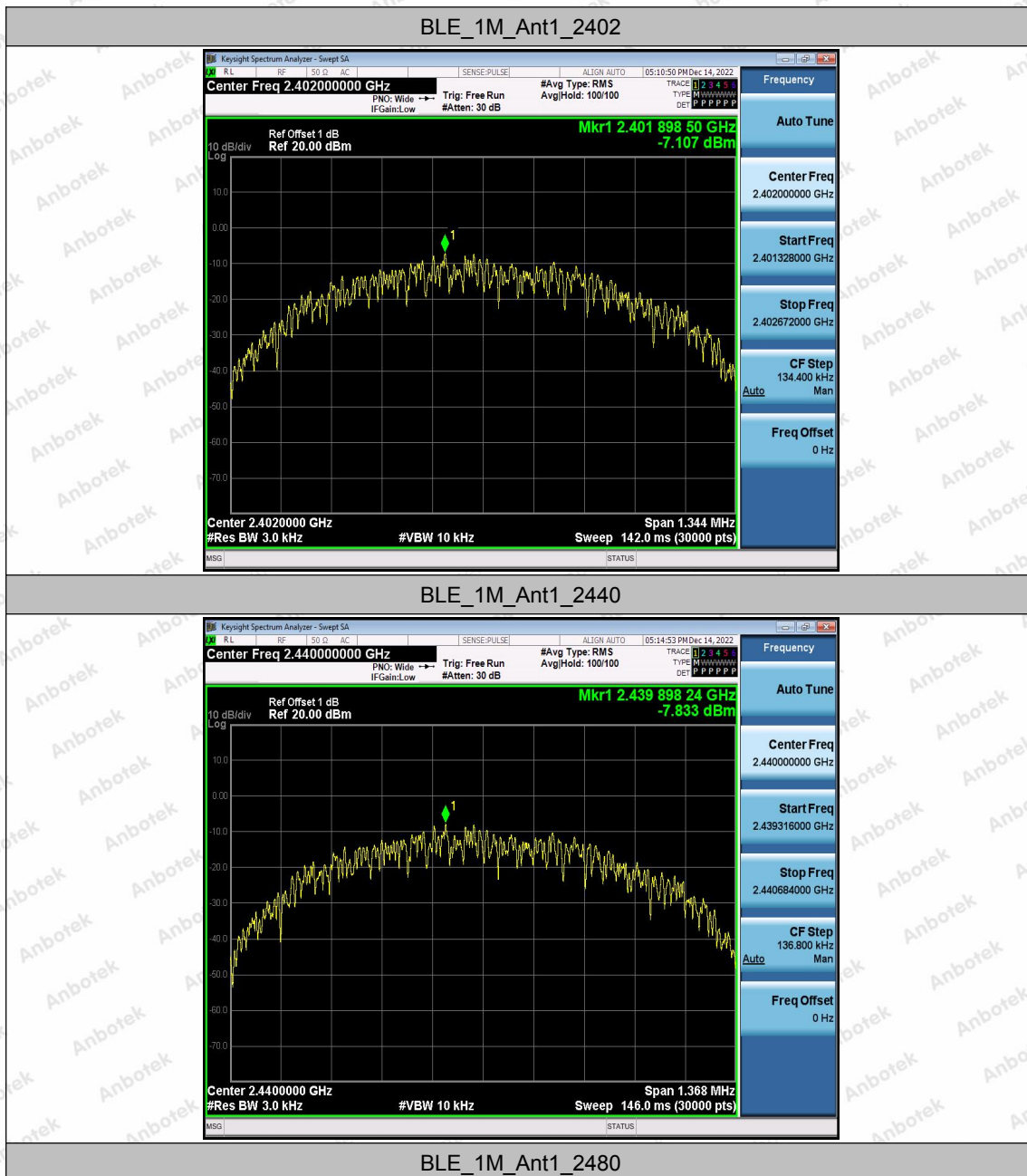
## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -7.11            | ≤8.00           | PASS    |
|          |         | 2440           | -7.83            | ≤8.00           | PASS    |
|          |         | 2480           | -7.91            | ≤8.00           | PASS    |



## Test Graphs



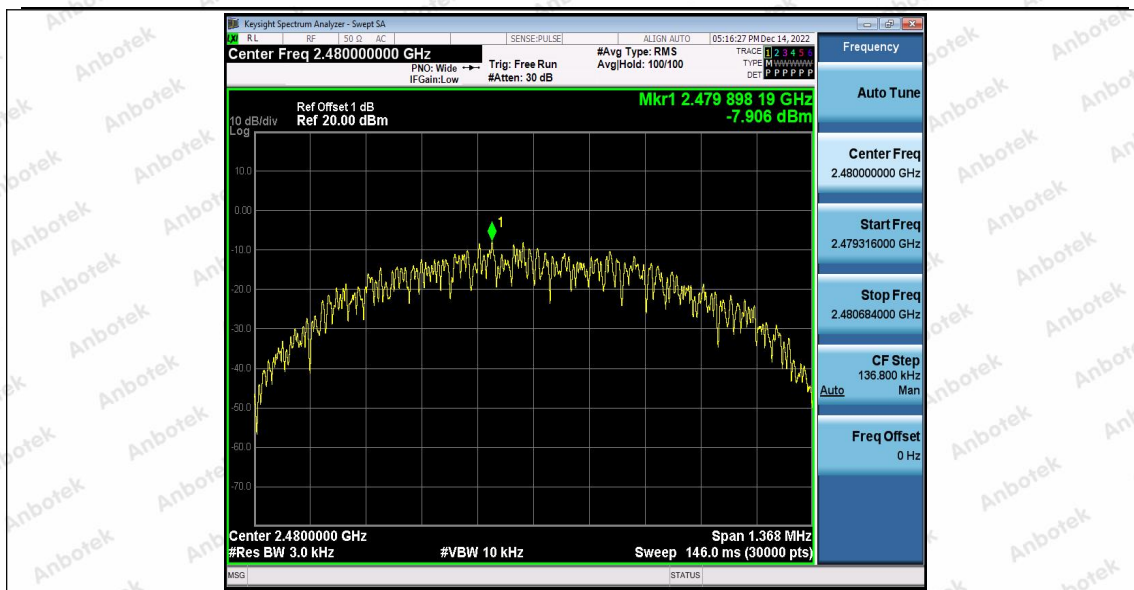
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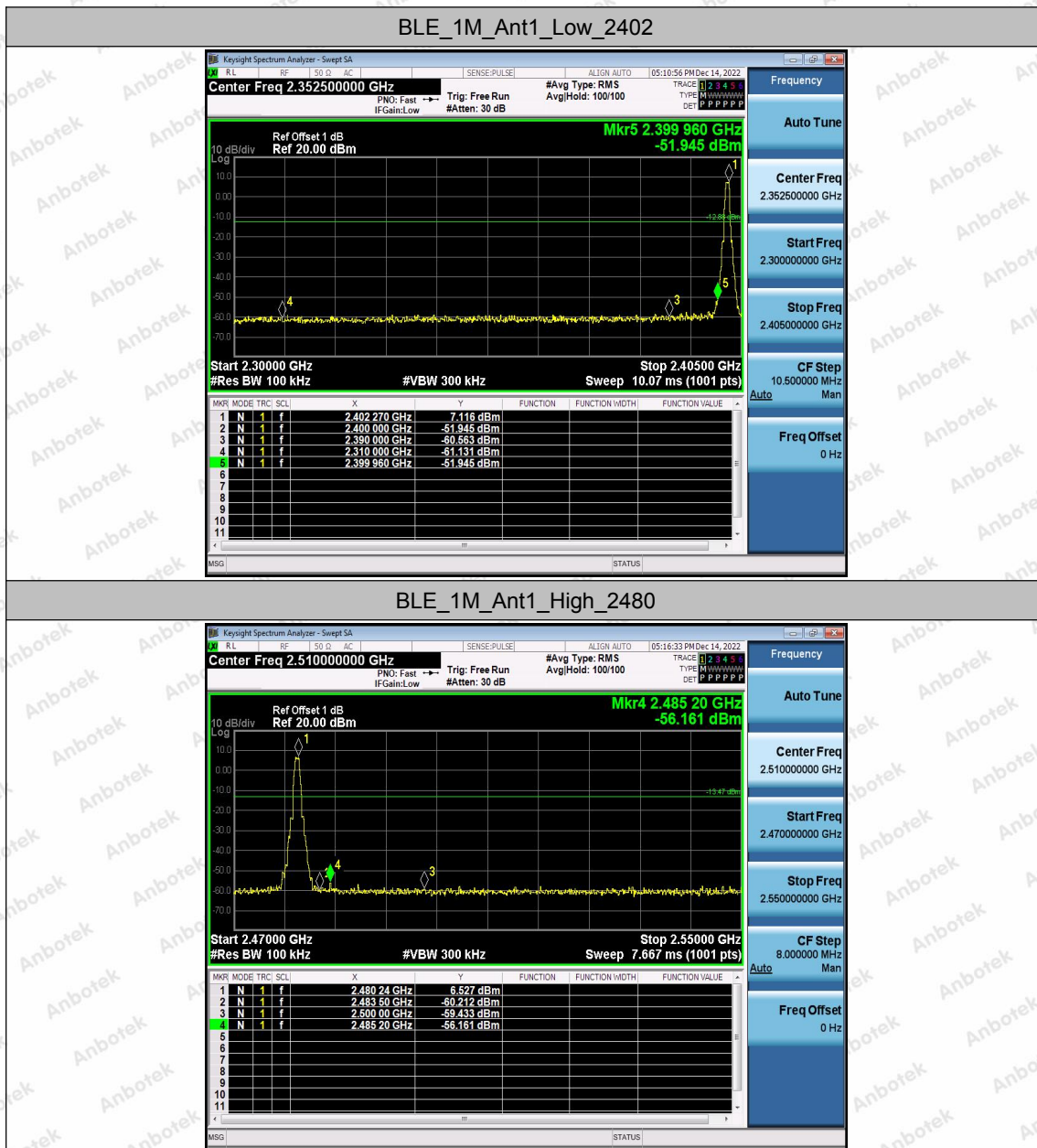
## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | Channel | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low     | 2402           | 7.12          | -51.95      | ≤-12.88    | PASS    |
|          |         | High    | 2480           | 6.53          | -56.16      | ≤-13.47    | 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       | 6.73           | 6.73        | ---        | PASS    |
|          |         |                | 30~1000         | 6.73           | -68.42      | ≤-13.27    | PASS    |
|          |         |                | 1000~26500      | 6.73           | -52.81      | ≤-13.27    | PASS    |
|          |         | 2440           | Reference       | 6.28           | 6.28        | ---        | PASS    |
|          |         |                | 30~1000         | 6.28           | -67.71      | ≤-13.72    | PASS    |
|          |         |                | 1000~26500      | 6.28           | -52.38      | ≤-13.72    | PASS    |
|          |         | 2480           | Reference       | 6.22           | 6.22        | ---        | PASS    |
|          |         |                | 30~1000         | 6.22           | -68.63      | ≤-13.78    | PASS    |
|          |         |                | 1000~26500      | 6.22           | -53.17      | ≤-13.78    | PASS    |

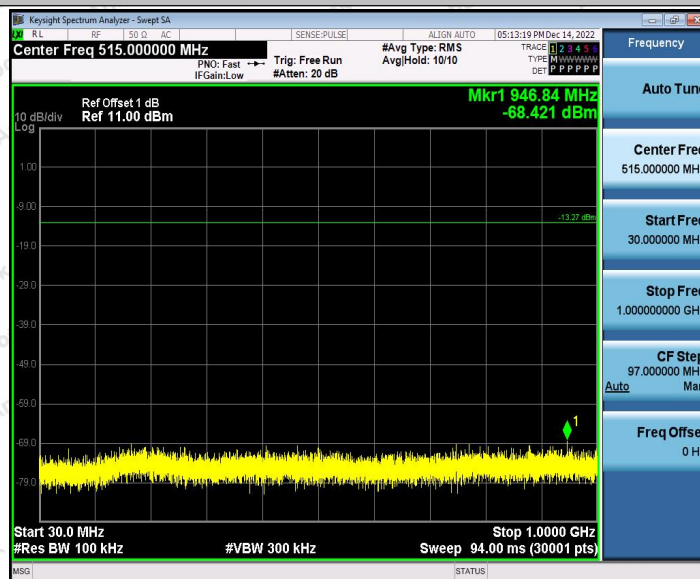


## Test Graphs

BLE\_1M\_Ant1\_2402\_0~Reference



BLE\_1M\_Ant1\_2402\_30~1000



BLE\_1M\_Ant1\_2402\_1000~26500

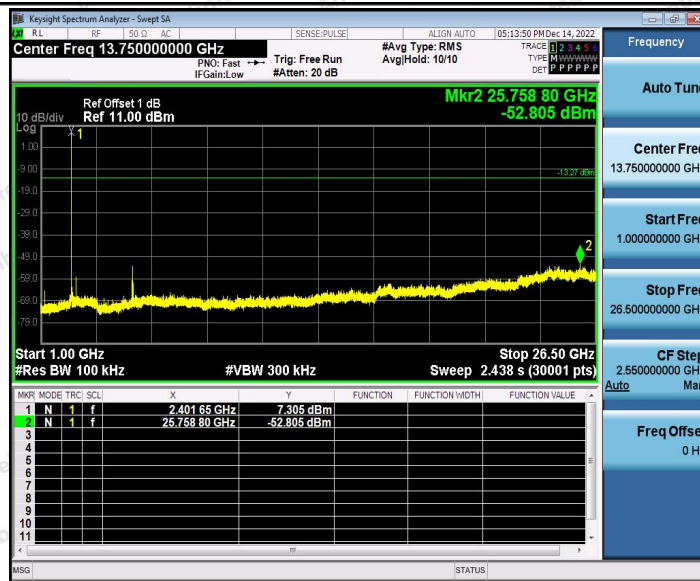
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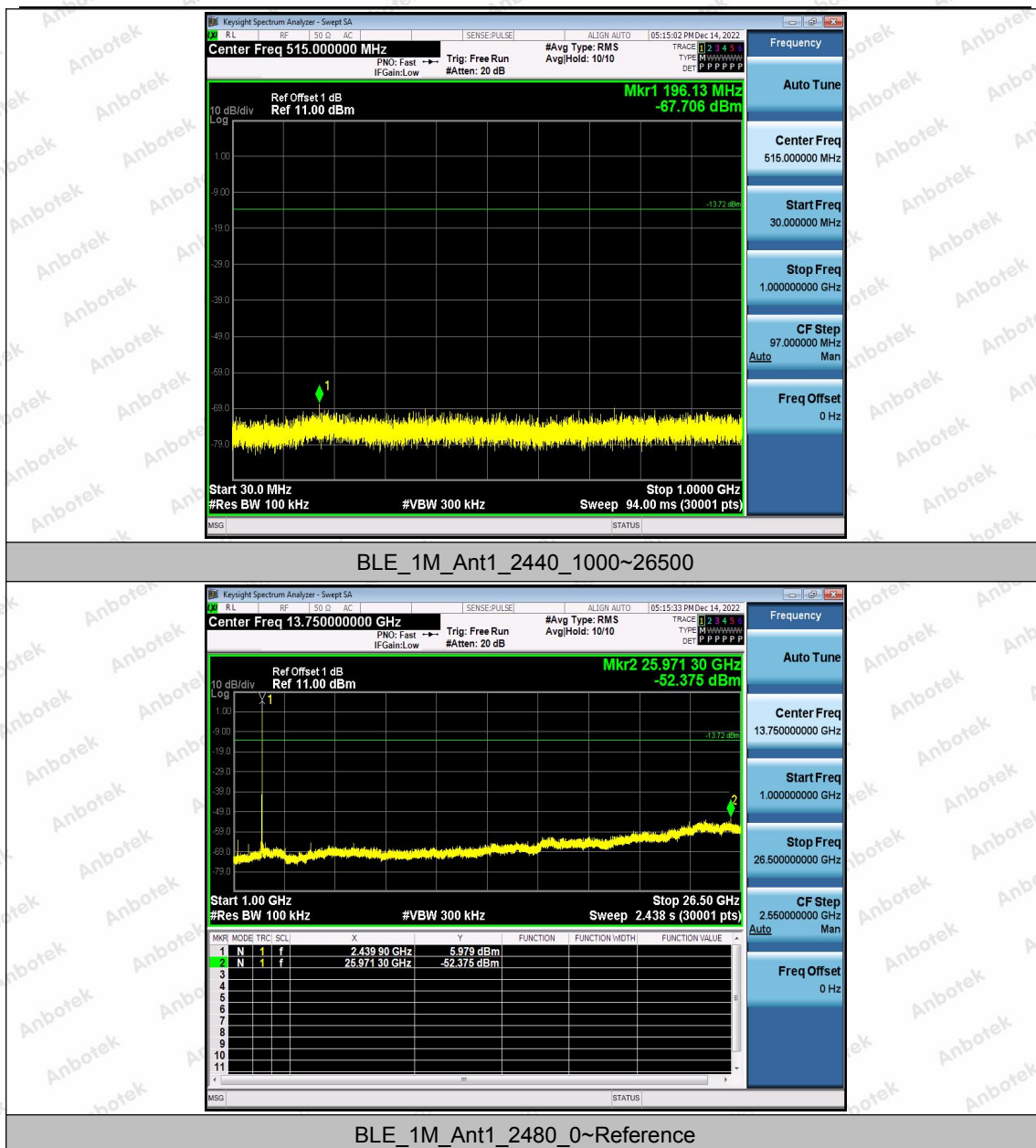


BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000





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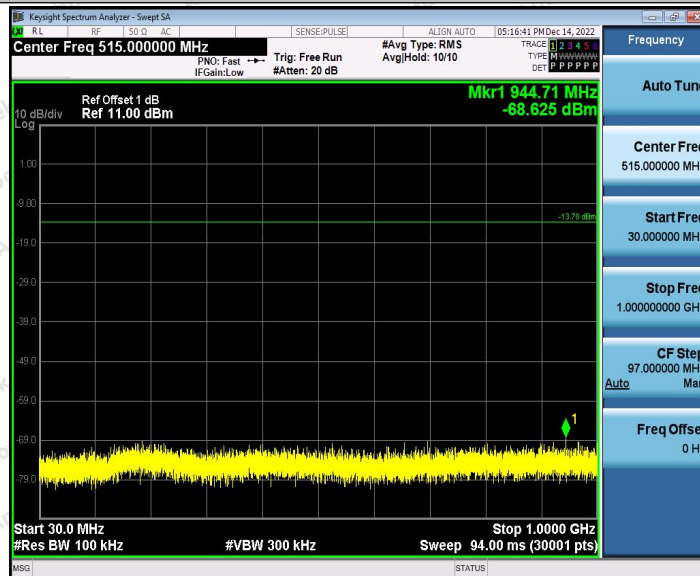


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BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500

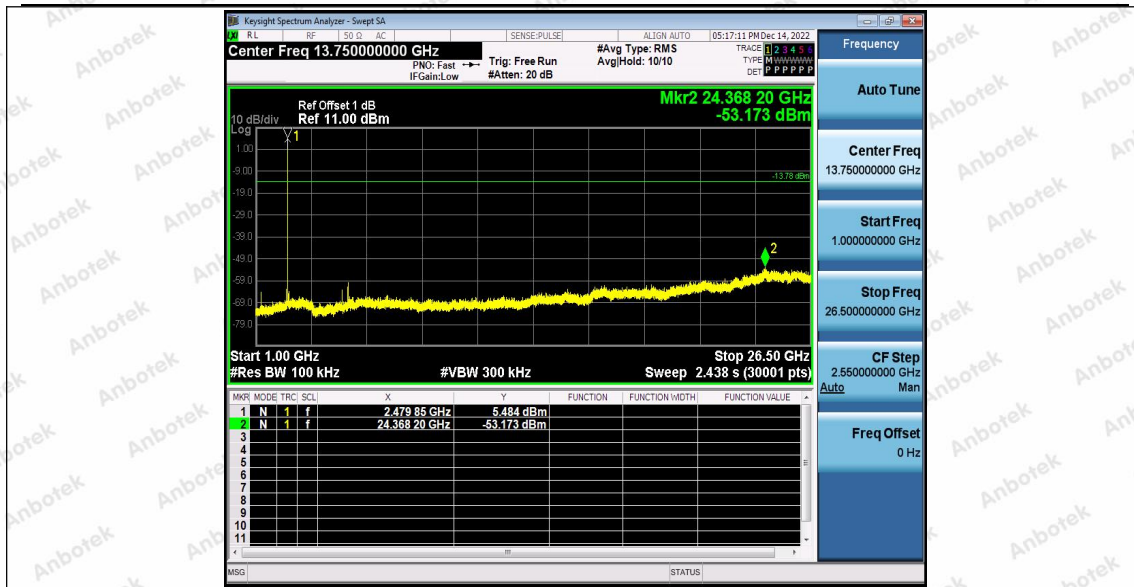
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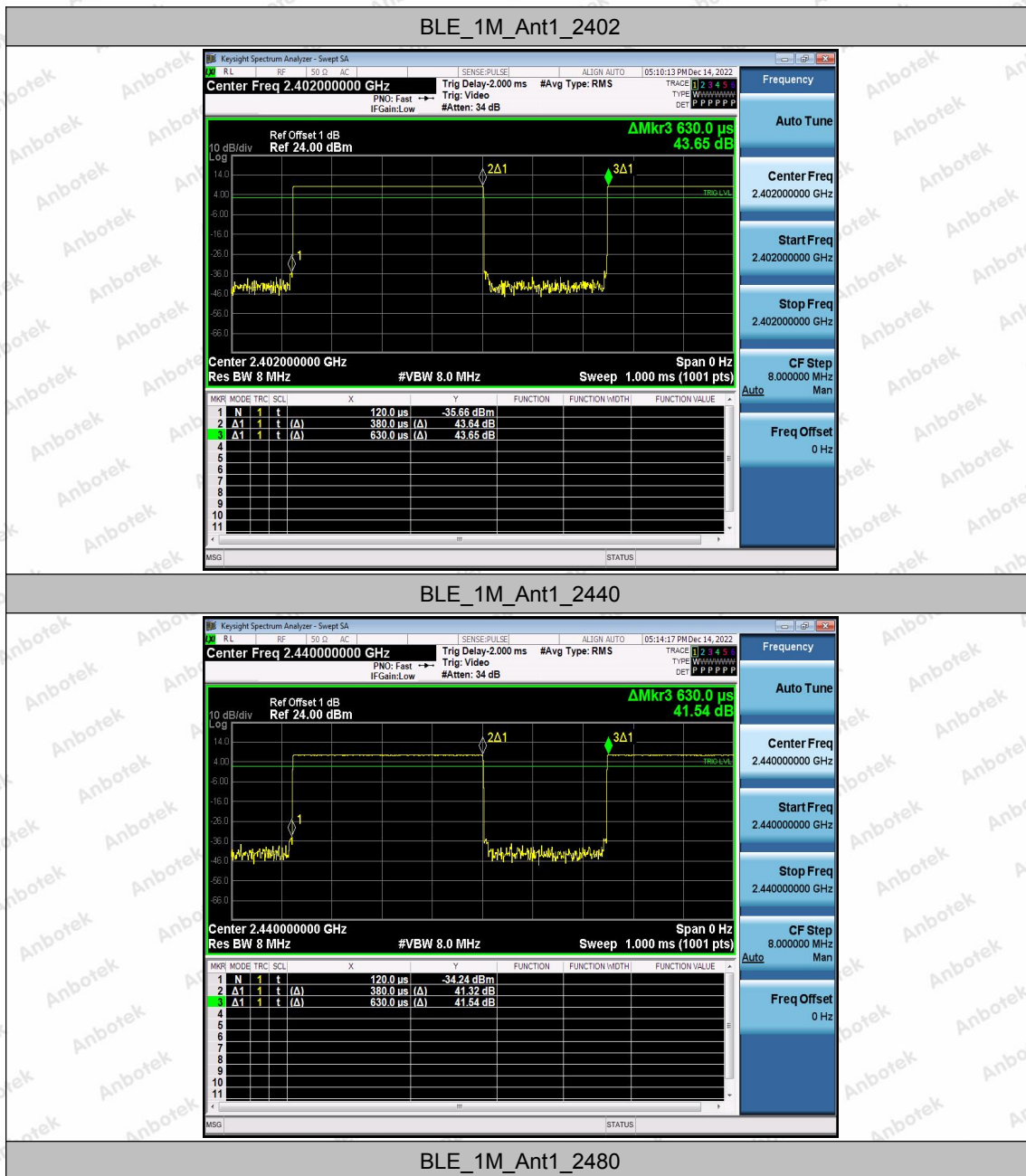
## Appendix G: Duty Cycle

### 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           | 0.38            | 0.63           | 60.32             | 2.20                     |
|          |         | 2480           | 0.38            | 0.63           | 60.32             | 2.20                     |



## Test Graphs



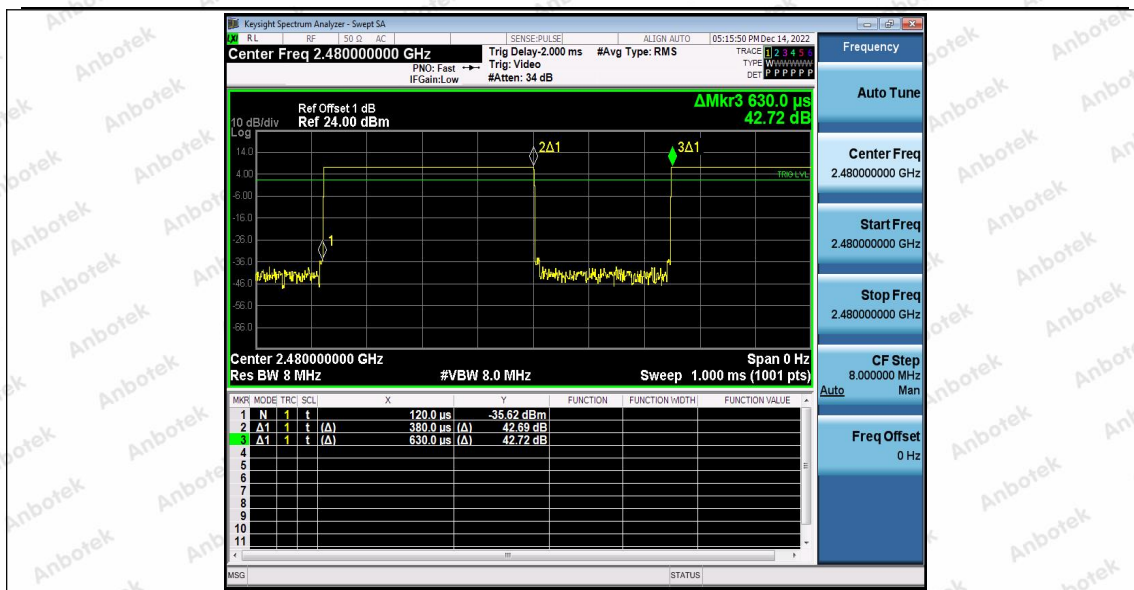
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