

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20235801 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.10.9       | Finish Test Date:  | 2022.10.10        |
| Test Engineer:   | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 27.3°C          | 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           | 0.644        | 2401.668 | 2402.312 | 0.5        | PASS    |
|          |         | 2440           | 0.660        | 2439.664 | 2440.324 | 0.5        | PASS    |
|          |         | 2480           | 0.636        | 2479.664 | 2480.300 | 0.5        | PASS    |







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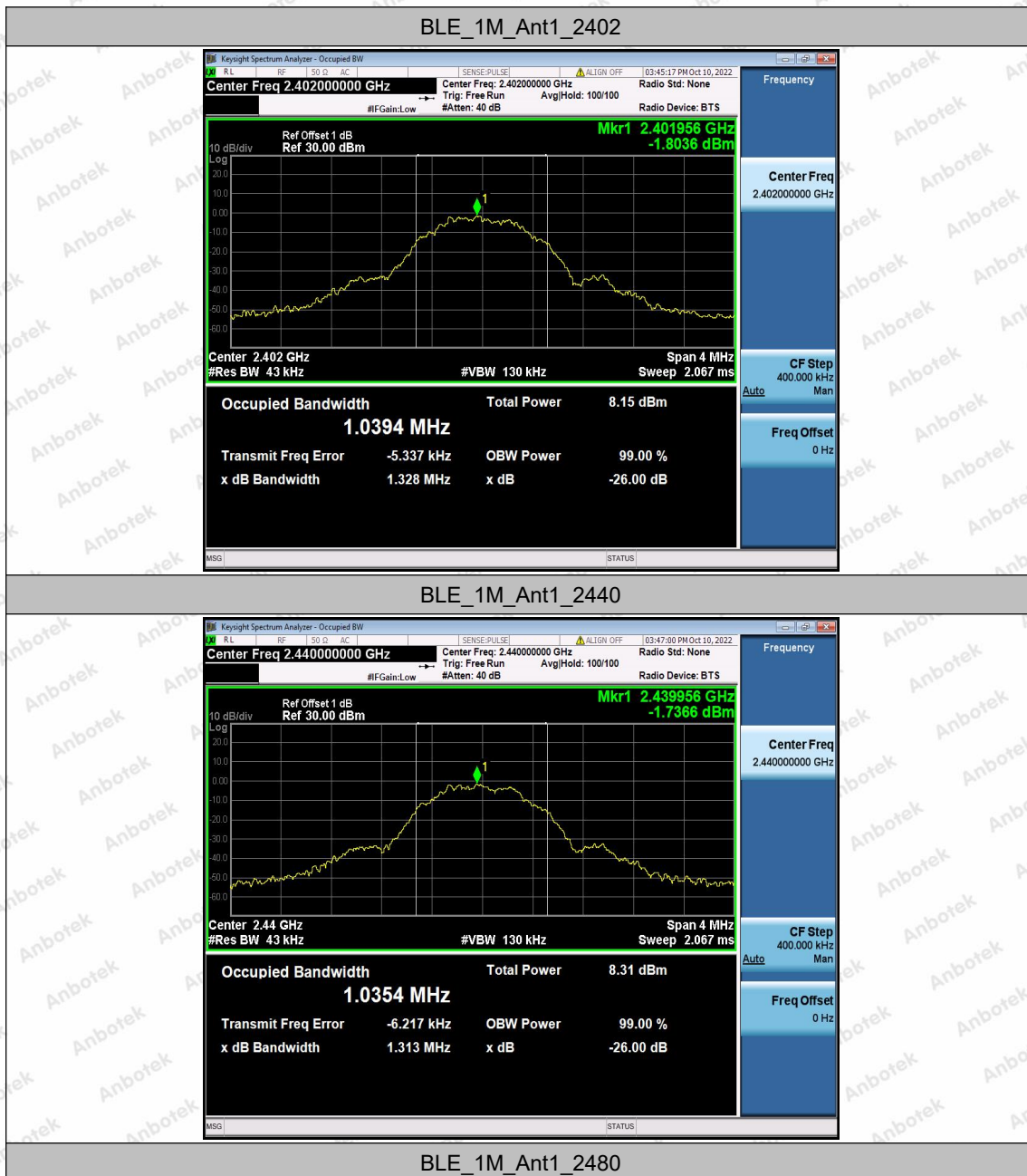
## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|----------|---------|----------------|-----------|-----------|-----------|
| BLE_1M   | Ant1    | 2402           | 1.0394    | 2401.4750 | 2402.5144 |
|          |         | 2440           | 1.0354    | 2439.4761 | 2440.5115 |
|          |         | 2480           | 1.0343    | 2479.4785 | 2480.5128 |



## Test Graphs



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## Appendix C: Maximum output power

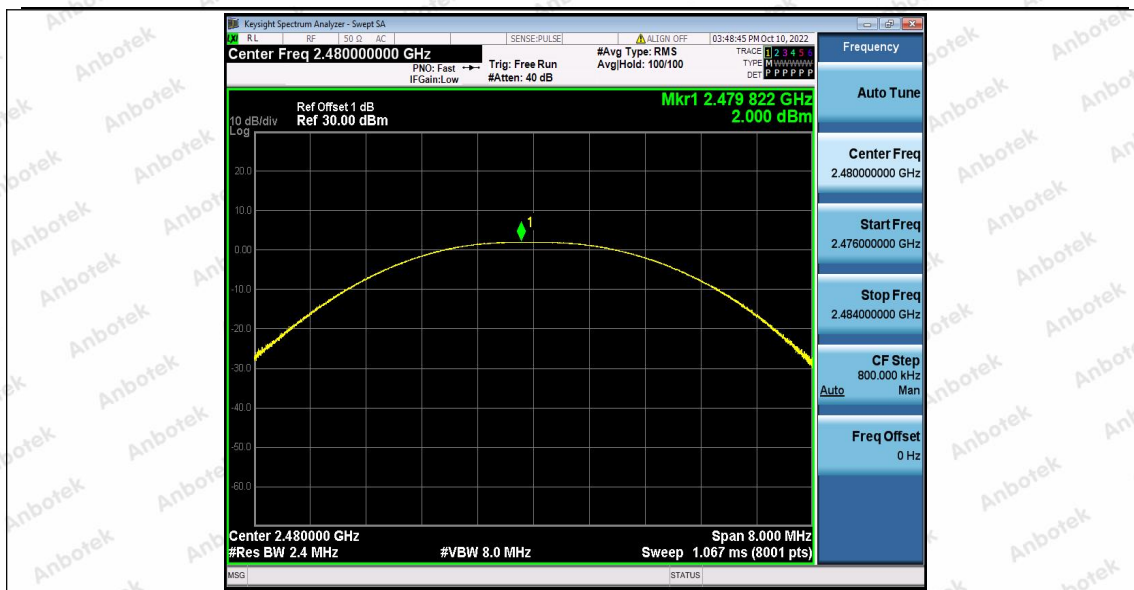
### Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted<br>Peak<br>Power[dBm] | Conducted<br>Limit[dBm] | EIRP<br>Power[dBm] | EIRP<br>Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------------|-------------------------|--------------------|--------------------|---------|
| BLE_1M   | Ant1    | 2402           | 1.97                            | ≤30                     | 5.4                | ≤36.02             | PASS    |
|          |         | 2440           | 2                               | ≤30                     | 5.43               | ≤36.02             | PASS    |
|          |         | 2480           | 2                               | ≤30                     | 5.43               | ≤36.02             | PASS    |







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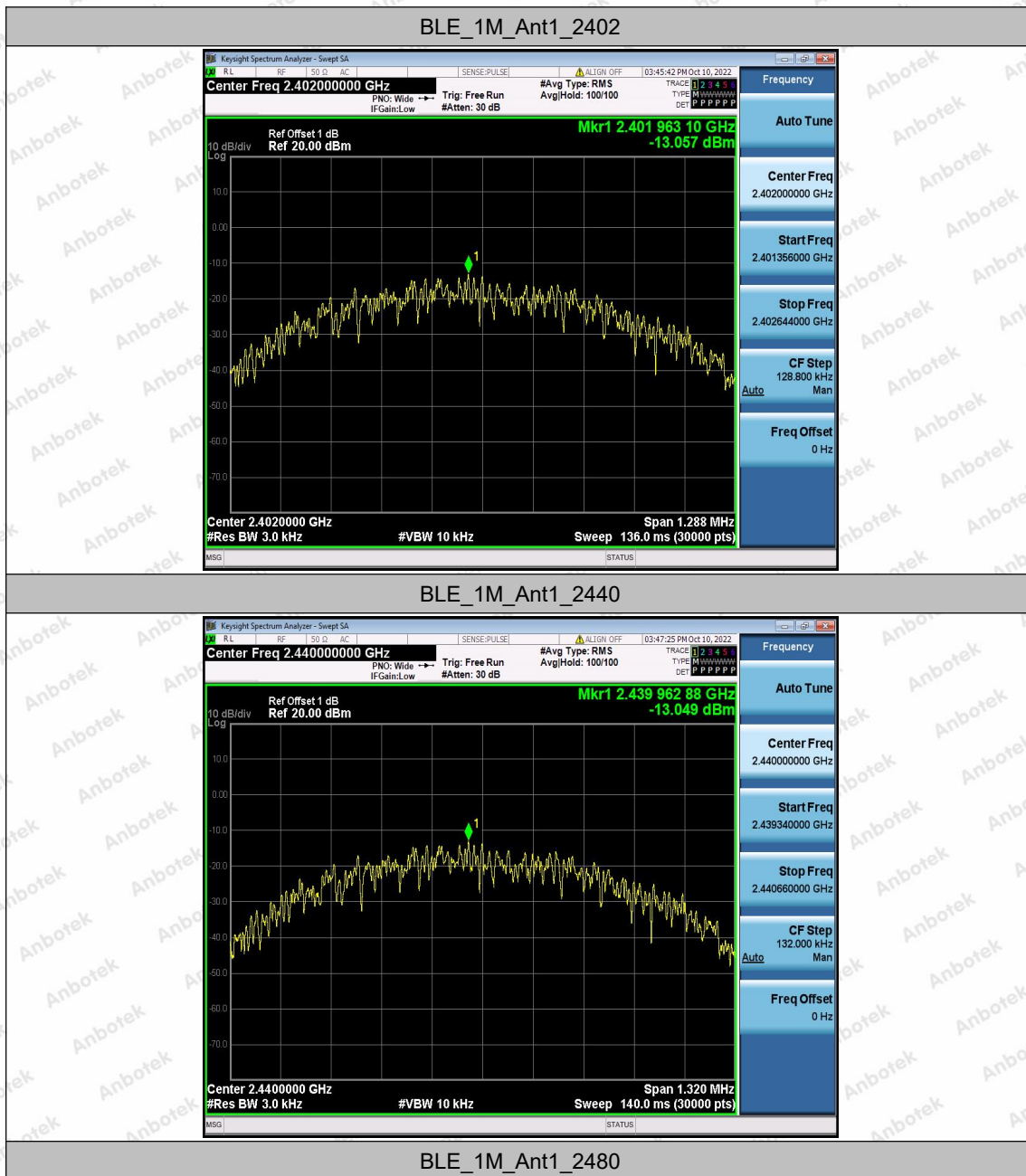
## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -13.06           | ≤8.00           | PASS    |
|          |         | 2440           | -13.05           | ≤8.00           | PASS    |
|          |         | 2480           | -13.01           | ≤8.00           | PASS    |



## Test Graphs



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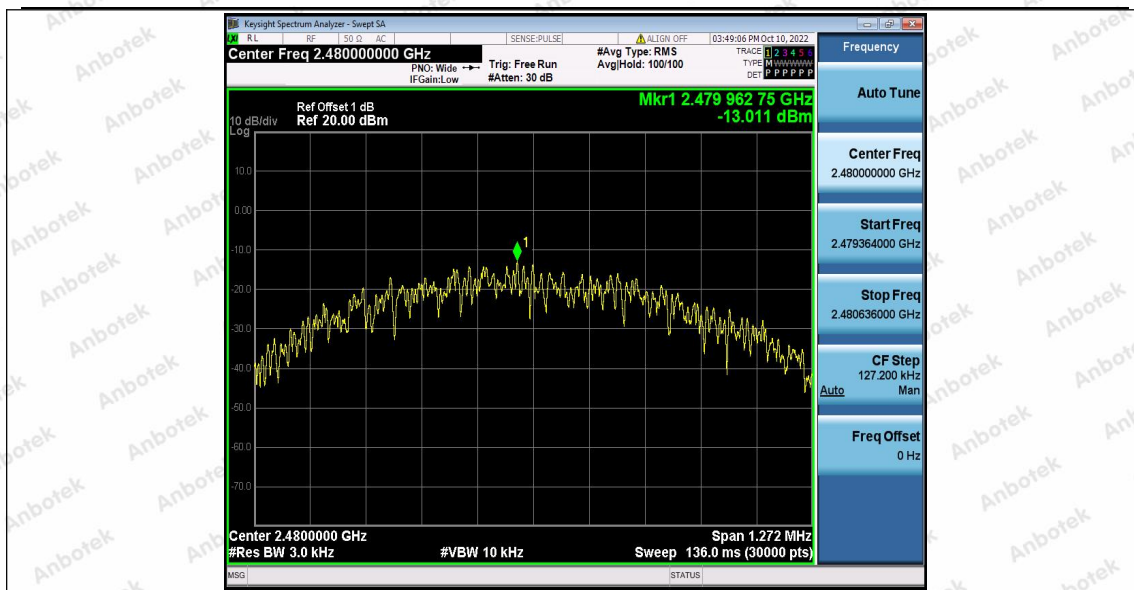
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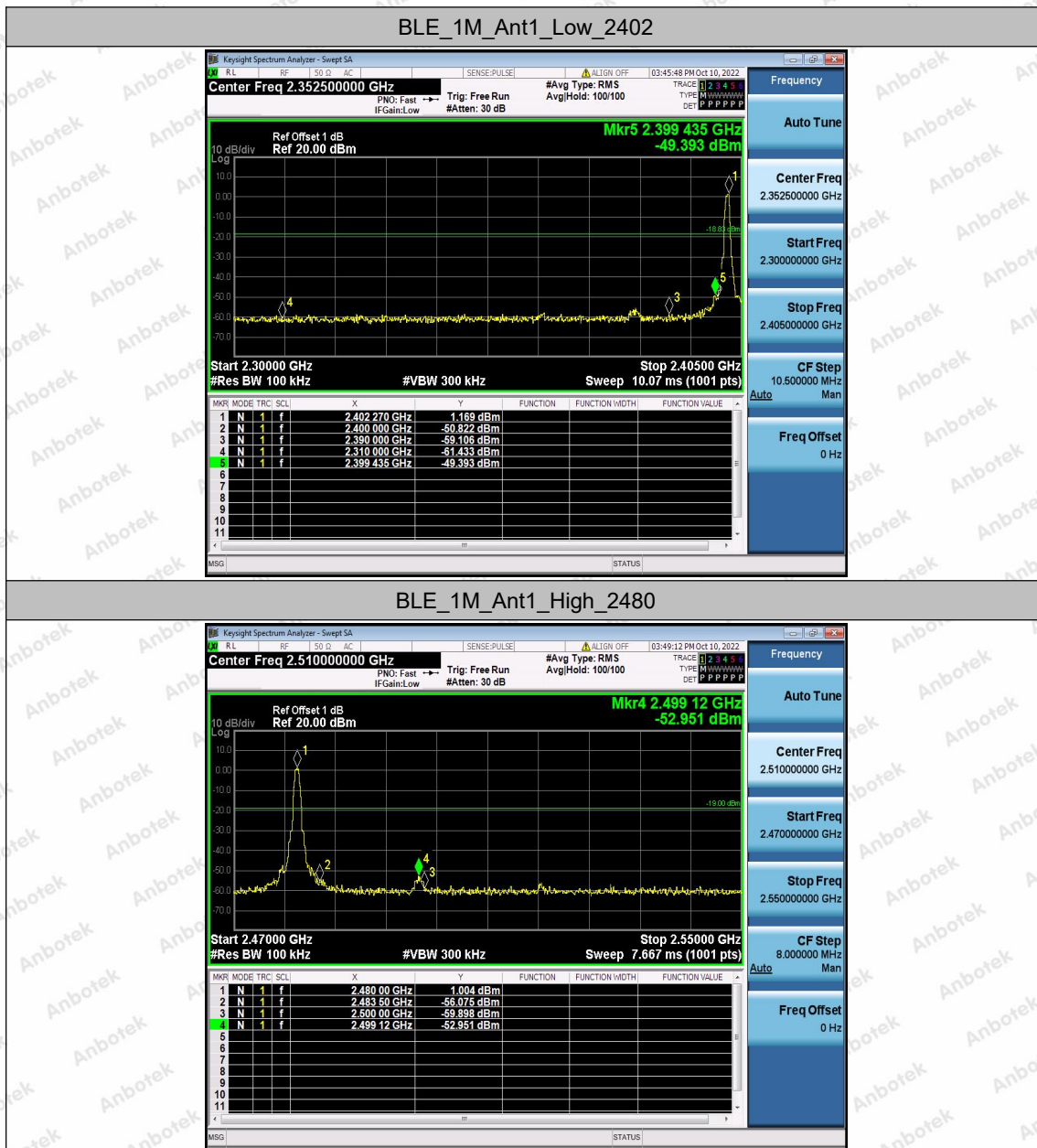
**Appendix E: Band edge measurements**

**Test Result**

| TestMode | Antenna | Channel | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low     | 2402           | 1.17          | -49.39      | ≤-18.83    | PASS    |
|          |         | High    | 2480           | 1.00          | -52.95      | ≤-19       | 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       | 0.09           | 0.09        | ---        | PASS    |
|          |         |                | 30~1000         | 0.09           | -56.66      | ≤-19.91    | PASS    |
|          |         |                | 1000~26500      | 0.09           | -53.52      | ≤-19.91    | PASS    |
|          |         | 2440           | Reference       | 0.83           | 0.83        | ---        | PASS    |
|          |         |                | 30~1000         | 0.83           | -56.79      | ≤-19.17    | PASS    |
|          |         |                | 1000~26500      | 0.83           | -52.94      | ≤-19.17    | PASS    |
|          |         | 2480           | Reference       | 1.07           | 1.07        | ---        | PASS    |
|          |         |                | 30~1000         | 1.07           | -57.01      | ≤-18.93    | PASS    |
|          |         |                | 1000~26500      | 1.07           | -53.59      | ≤-18.93    | PASS    |

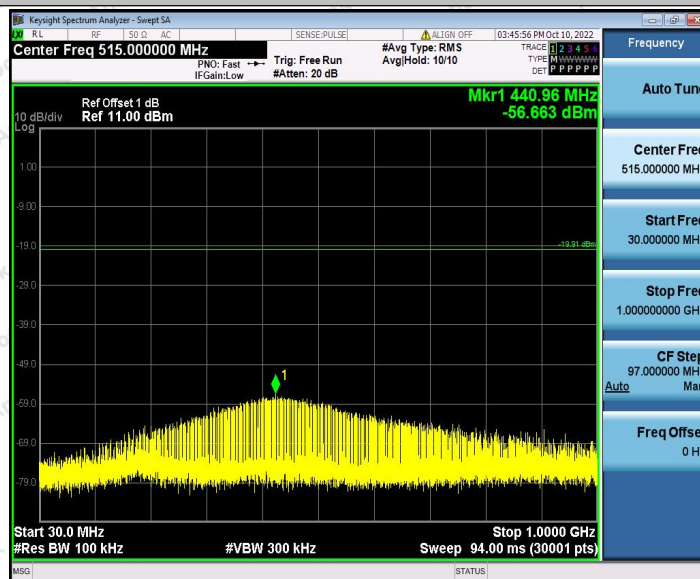


## Test Graphs

BLE\_1M\_Ant1\_2402\_0~Reference



BLE\_1M\_Ant1\_2402\_30~1000



BLE\_1M\_Ant1\_2402\_1000~26500

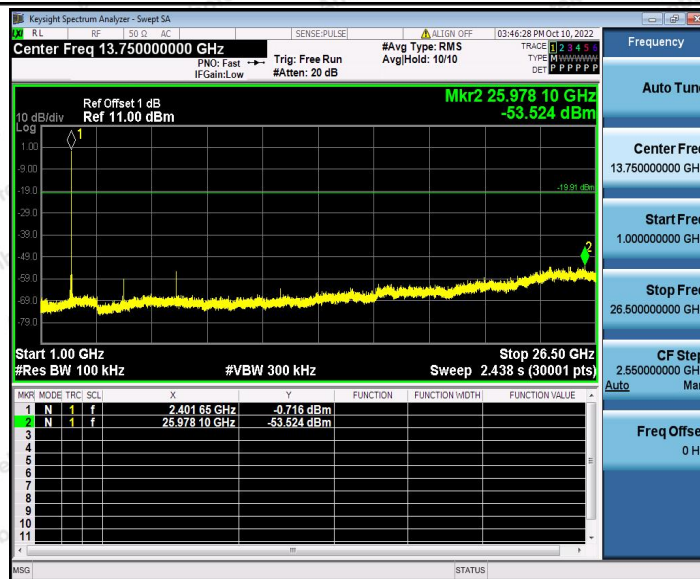
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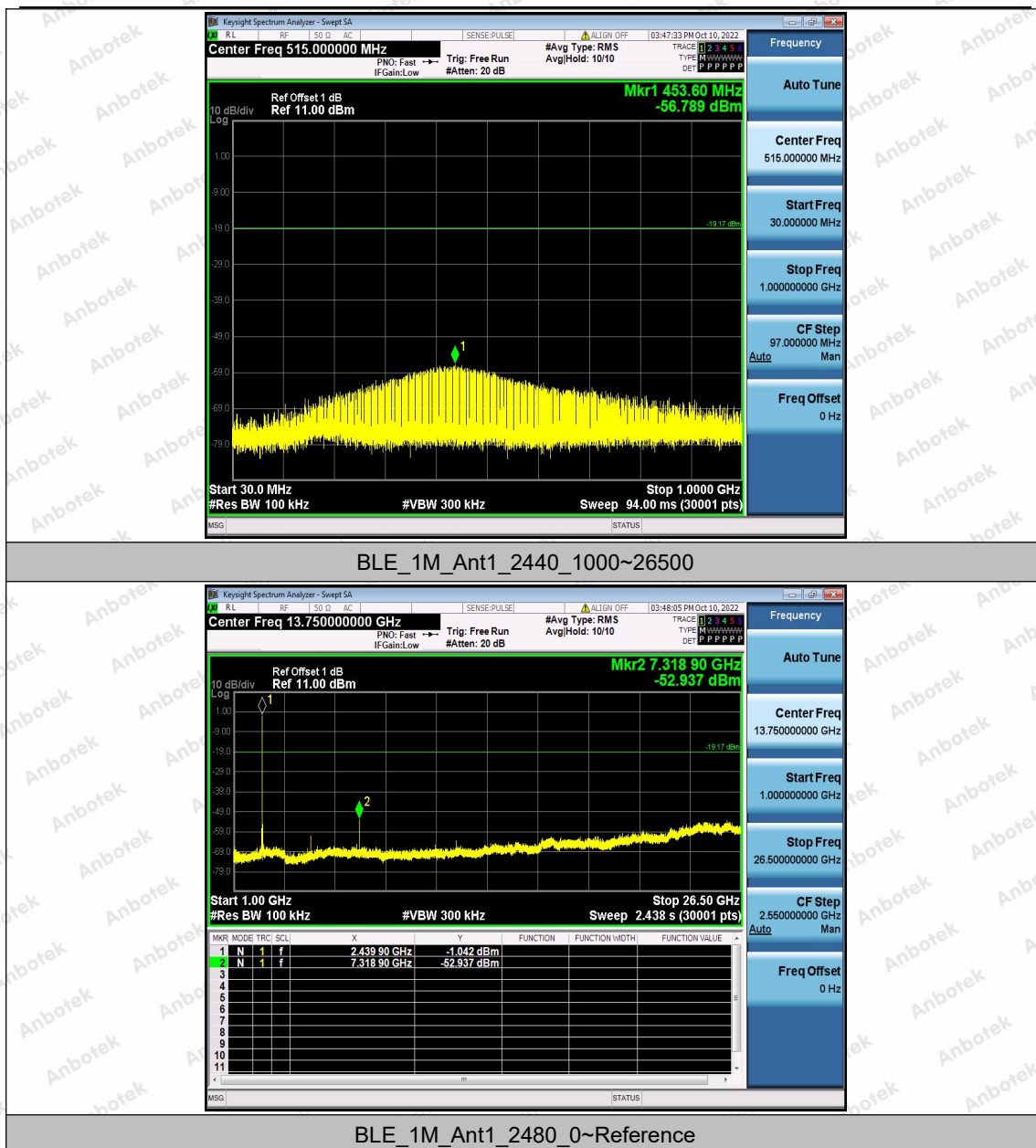
BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000







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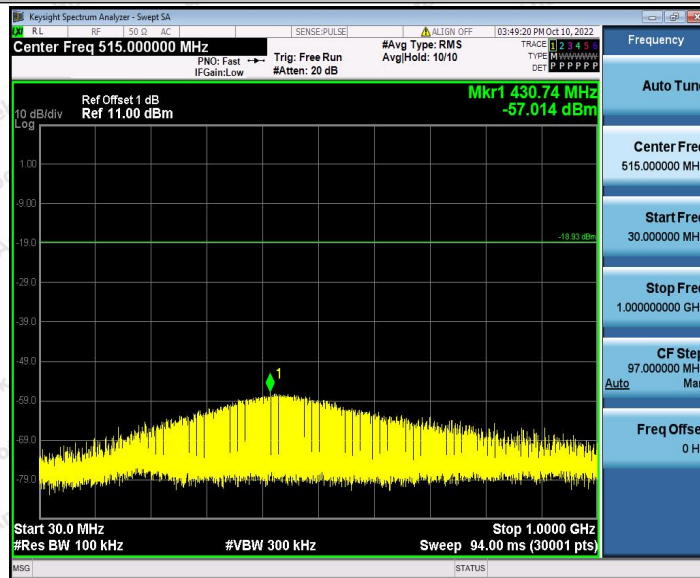


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BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500

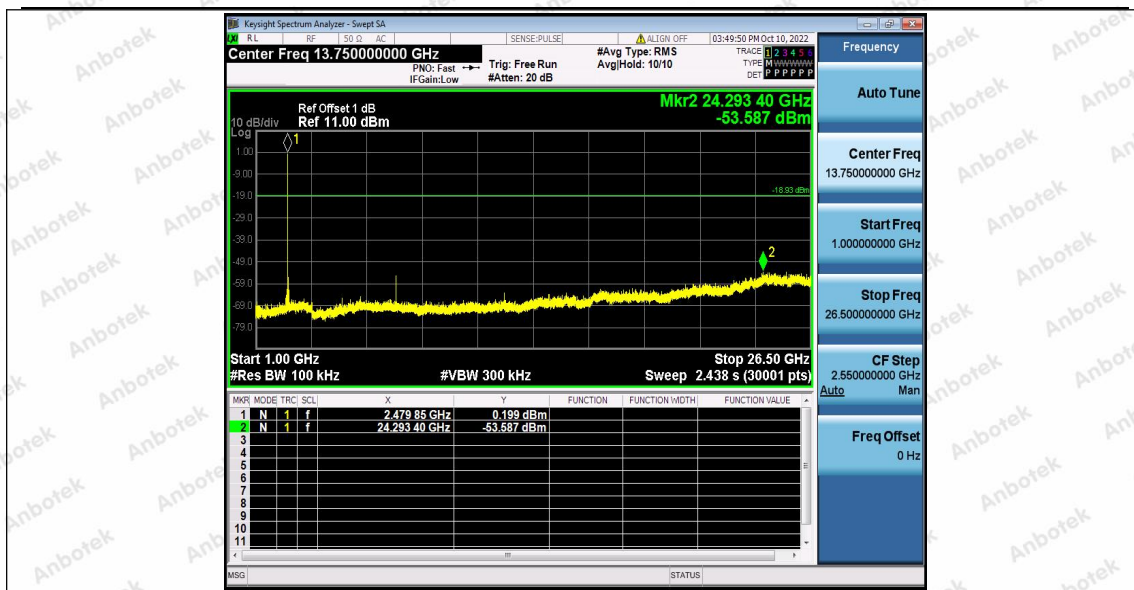
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## Appendix G: Duty Cycle

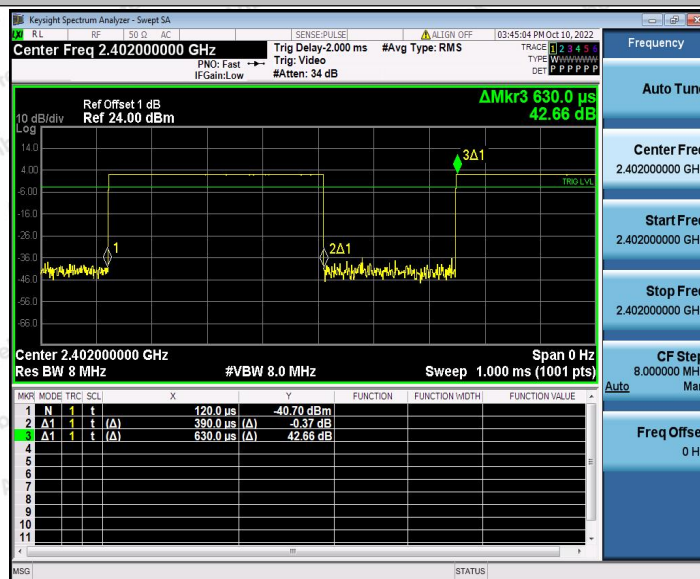
### Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>Factor[dB] |
|----------|---------|----------------|-----------------|----------------|-------------------|--------------------------|
| BLE_1M   | Ant1    | 2402           | 0.39            | 0.63           | 61.90             | 2.08                     |
|          |         | 2440           | 0.39            | 0.63           | 61.90             | 2.08                     |
|          |         | 2480           | 0.39            | 0.63           | 61.90             | 2.08                     |

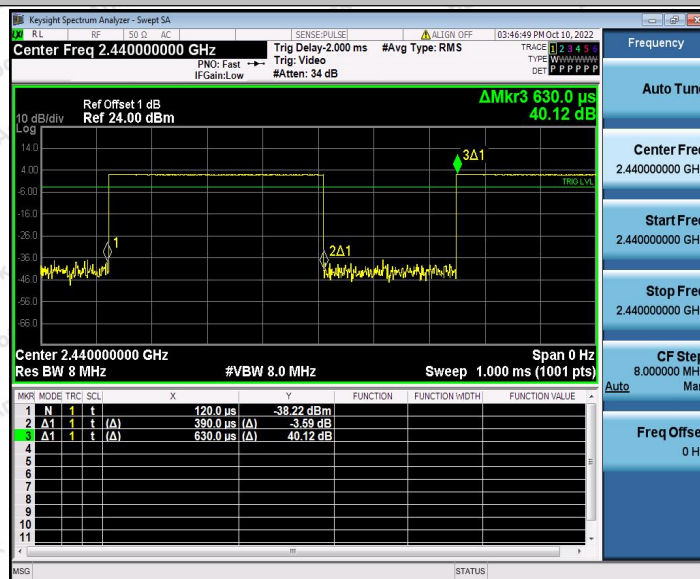


## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

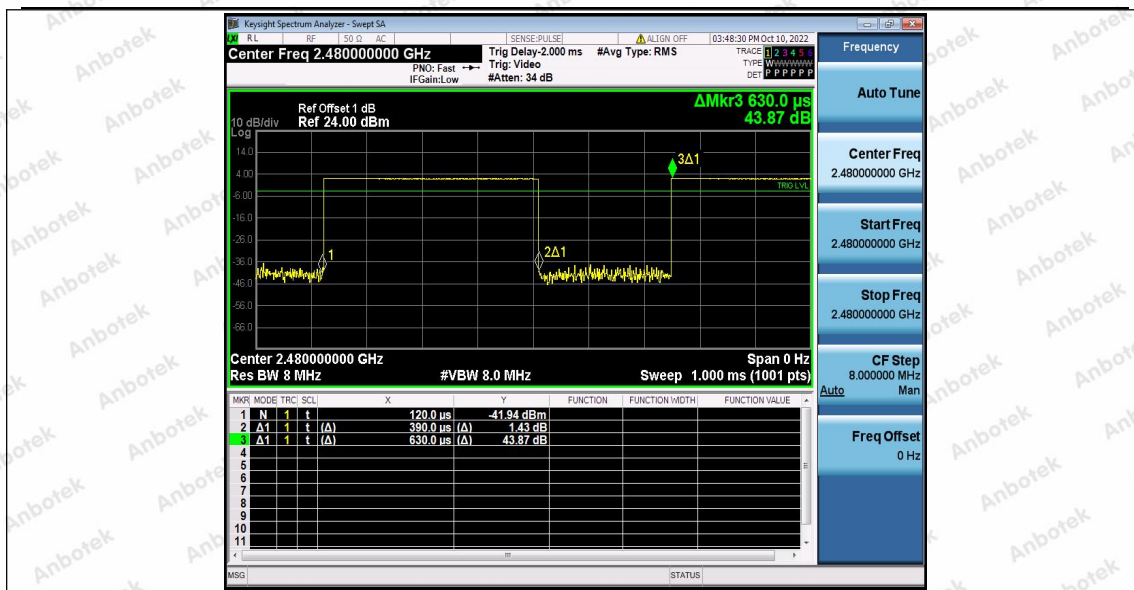
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