

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20158401 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.7.25       | Finish Test Date:  | 2022.7.28         |
| Test Engineer:   | <i>Jony.He</i>  | Auditor:           | <i>Edward.Pan</i> |
| Temperature:     | 27.3℃           | Relative Humidity: | 37 %              |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: DTS Bandwidth

## Test Result

| Test Mode | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|--------------|----------|----------|------------|---------|
| BLE_1M    | Ant1    | 2402    | 0.700        | 2401.648 | 2402.348 | ≥0.5       | PASS    |
|           |         | 2440    | 0.668        | 2439.668 | 2440.336 | ≥0.5       | PASS    |
|           |         | 2480    | 0.664        | 2479.676 | 2480.340 | ≥0.5       | PASS    |
| BLE_2M    | Ant1    | 2402    | 1.128        | 2401.428 | 2402.556 | ≥0.5       | PASS    |
|           |         | 2440    | 1.236        | 2439.340 | 2440.576 | ≥0.5       | PASS    |
|           |         | 2480    | 1.116        | 2479.412 | 2480.528 | ≥0.5       | PASS    |

## Test Graphs

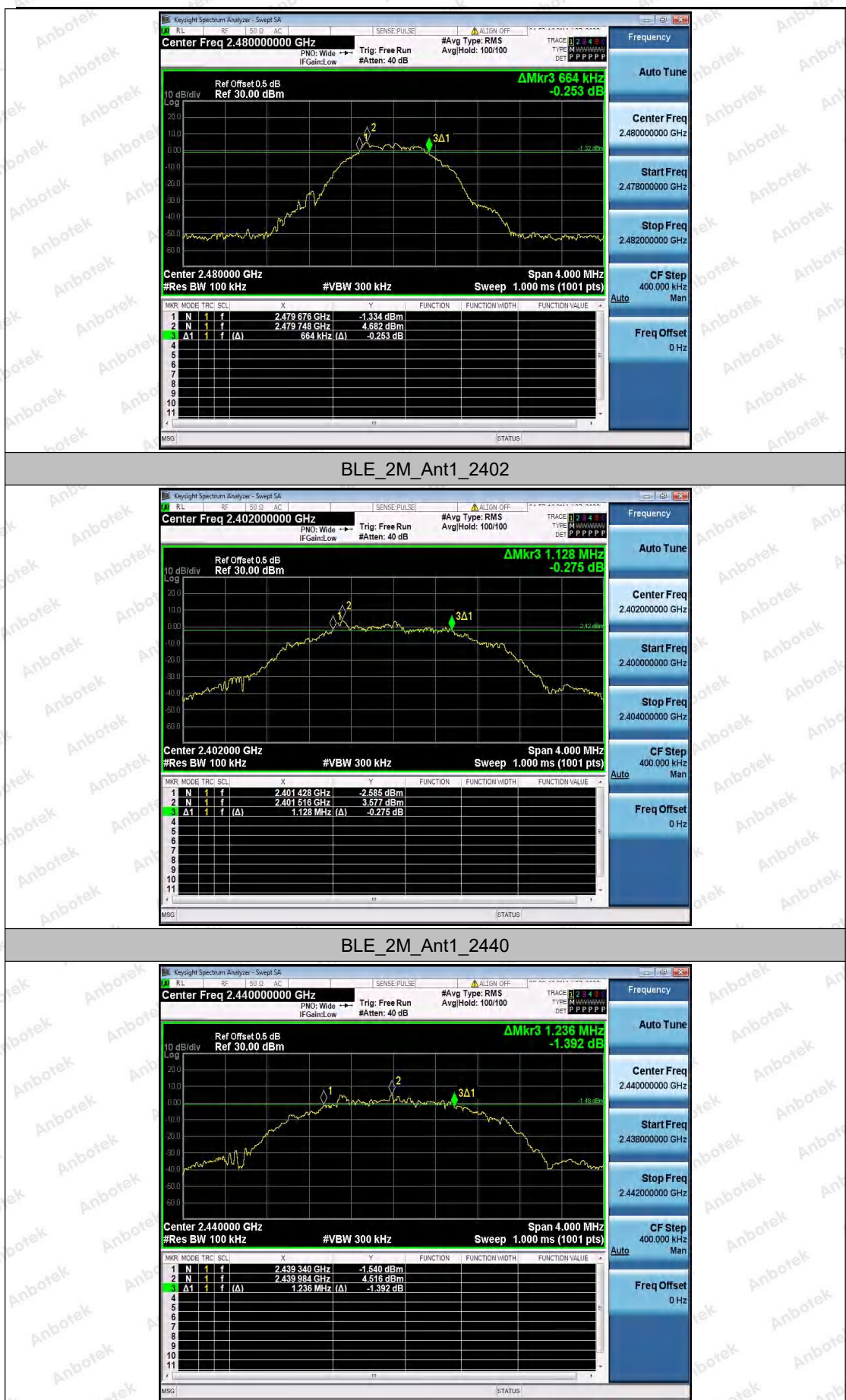
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480



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## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------|----------|----------|------------|---------|
| BLE_1M    | Ant1    | 2402    | 0.99837   | 2401.512 | 2402.510 | ---        | PASS    |
|           |         | 2440    | 1.0140    | 2439.506 | 2440.520 | ---        | PASS    |
|           |         | 2480    | 1.0147    | 2479.499 | 2480.513 | ---        | PASS    |
| BLE_2M    | Ant1    | 2402    | 2.0330    | 2401.013 | 2403.046 | ---        | PASS    |
|           |         | 2440    | 2.0406    | 2439.004 | 2441.045 | ---        | PASS    |
|           |         | 2480    | 2.0407    | 2478.997 | 2481.038 | ---        | PASS    |

## Test Graphs

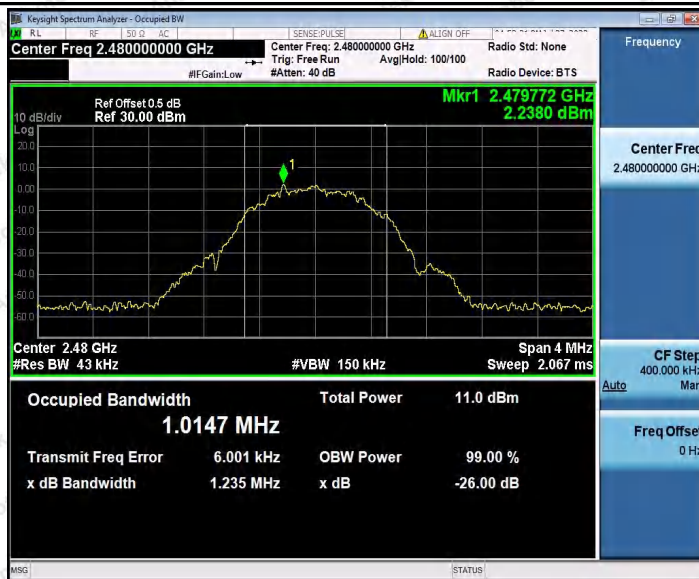


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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440



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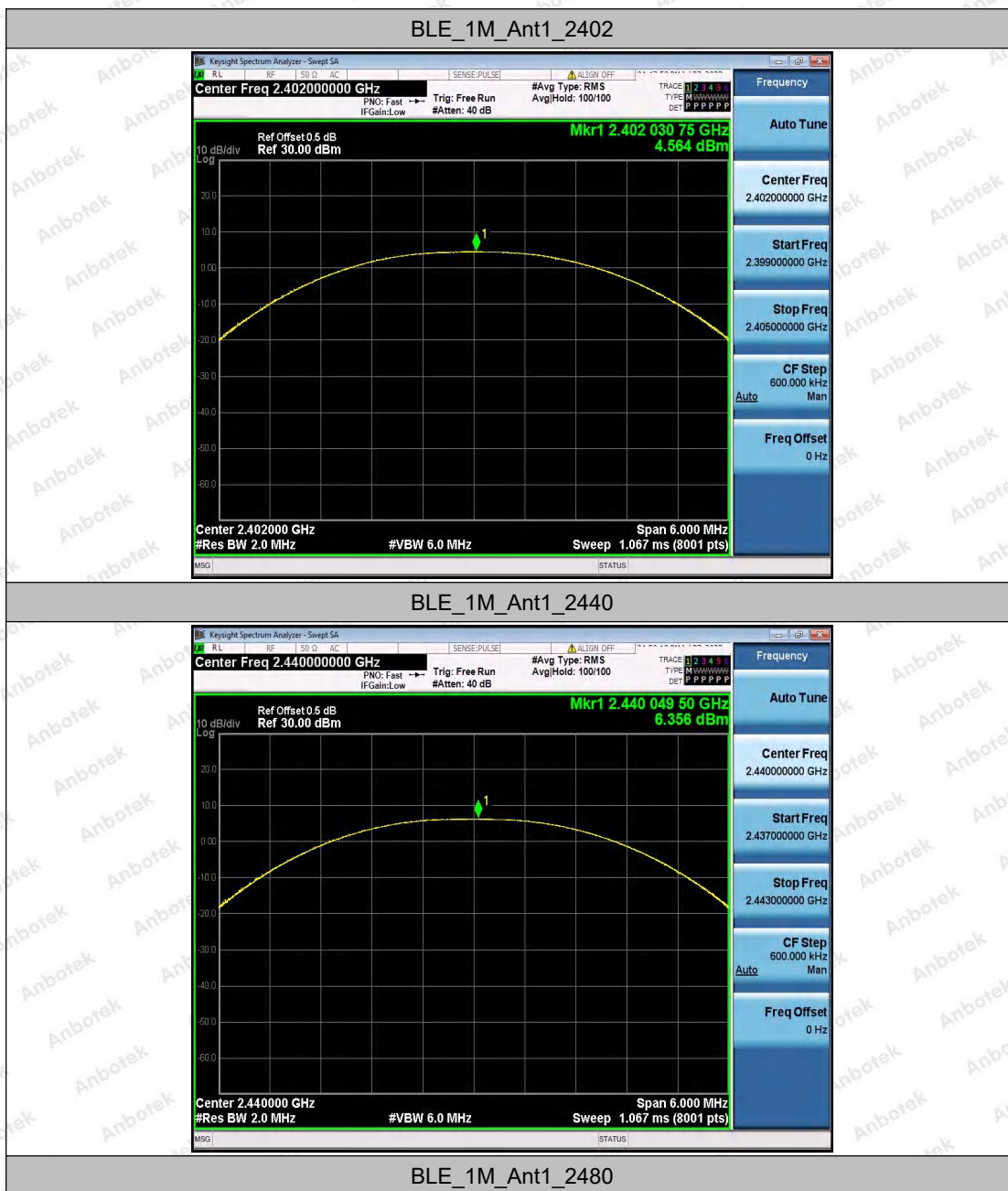
400-003-0500  
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## Appendix C: Maximum conducted output power

### Test Result

| Test Mode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| BLE_1M    | Ant1    | 2402    | 4.56        | ≤30        | PASS    |
|           |         | 2440    | 6.36        | ≤30        | PASS    |
|           |         | 2480    | 5.25        | ≤30        | PASS    |
| BLE_2M    | Ant1    | 2402    | 4.54        | ≤30        | PASS    |
|           |         | 2440    | 6.28        | ≤30        | PASS    |
|           |         | 2480    | 5.01        | ≤30        | PASS    |

## Test Graphs



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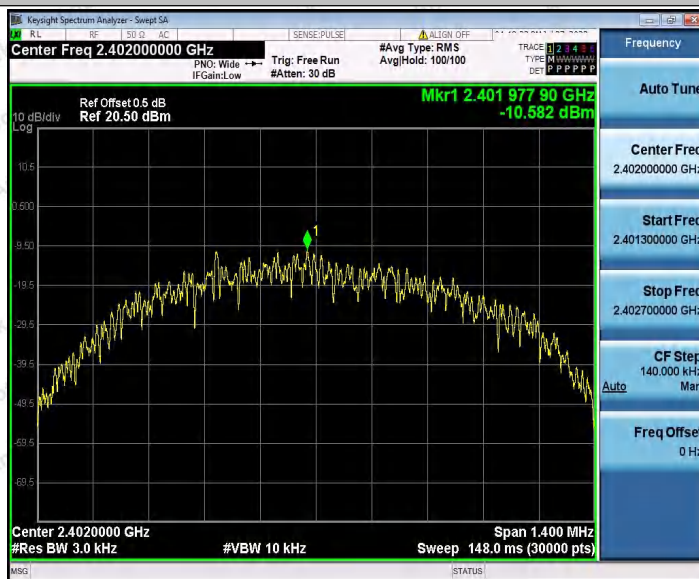
## Appendix D: Maximum power spectral density

### Test Result

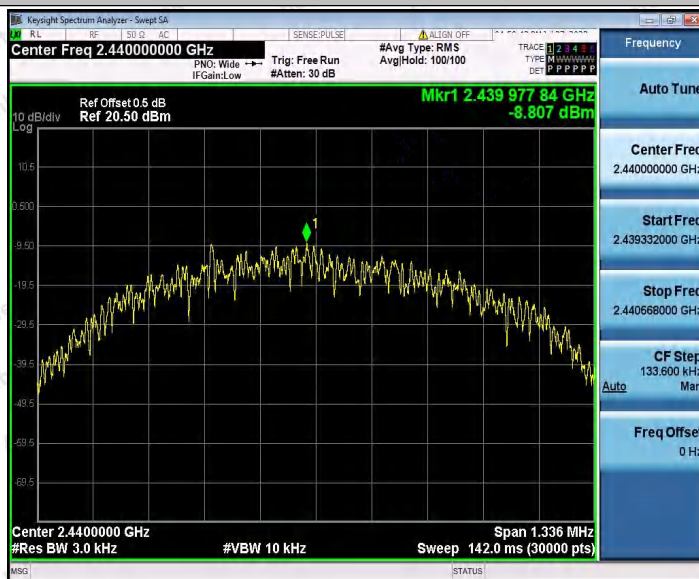
| Test Mode | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|---------|------------------|-----------------|---------|
| BLE_1M    | Ant1    | 2402    | -10.58           | ≤8              | PASS    |
|           |         | 2440    | -8.81            | ≤8              | PASS    |
|           |         | 2480    | -9.83            | ≤8              | PASS    |
| BLE_2M    | Ant1    | 2402    | -13.07           | ≤8              | PASS    |
|           |         | 2440    | -13.49           | ≤8              | PASS    |
|           |         | 2480    | -14.7            | ≤8              | PASS    |

## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440

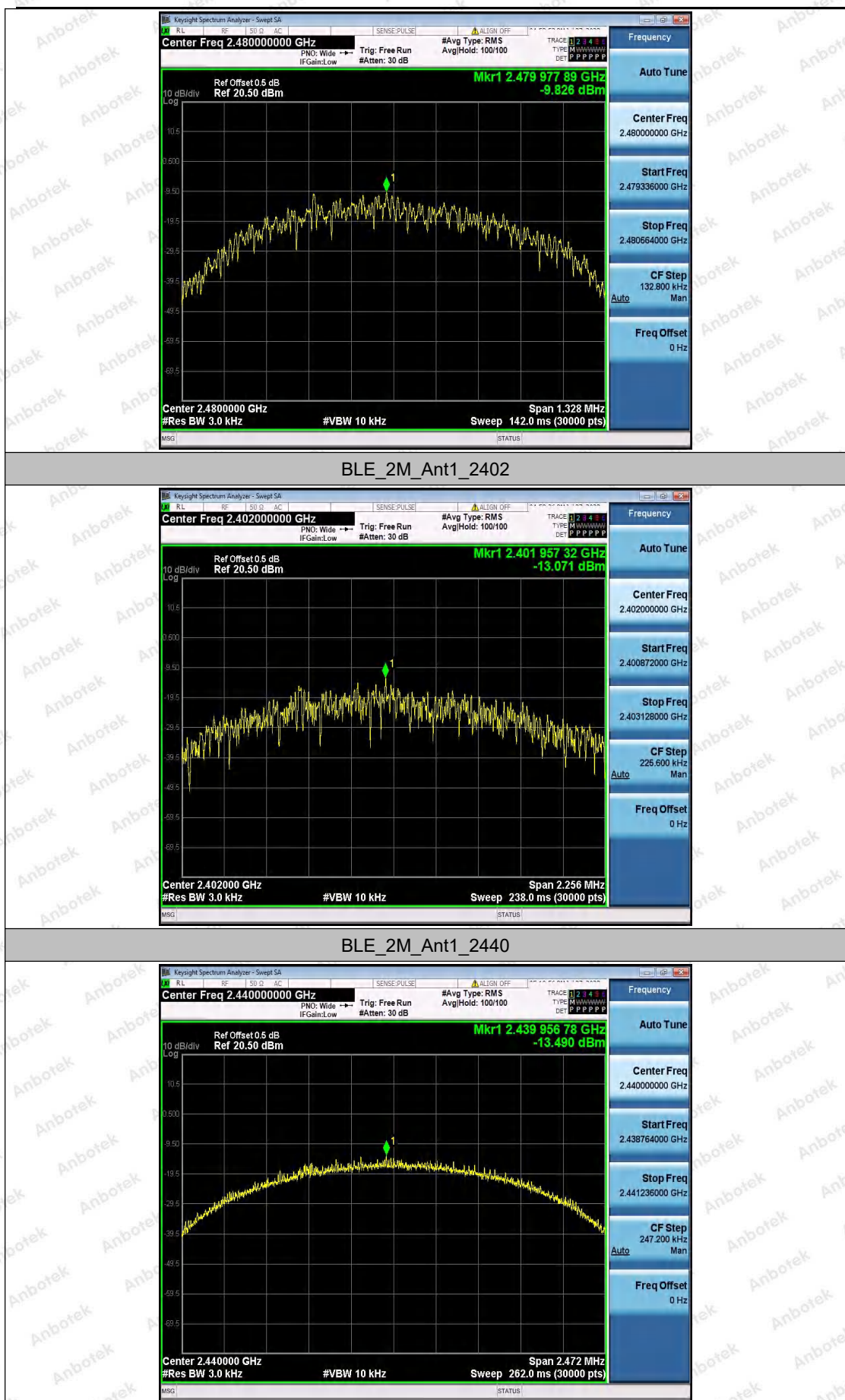


BLE\_1M\_Ant1\_2480

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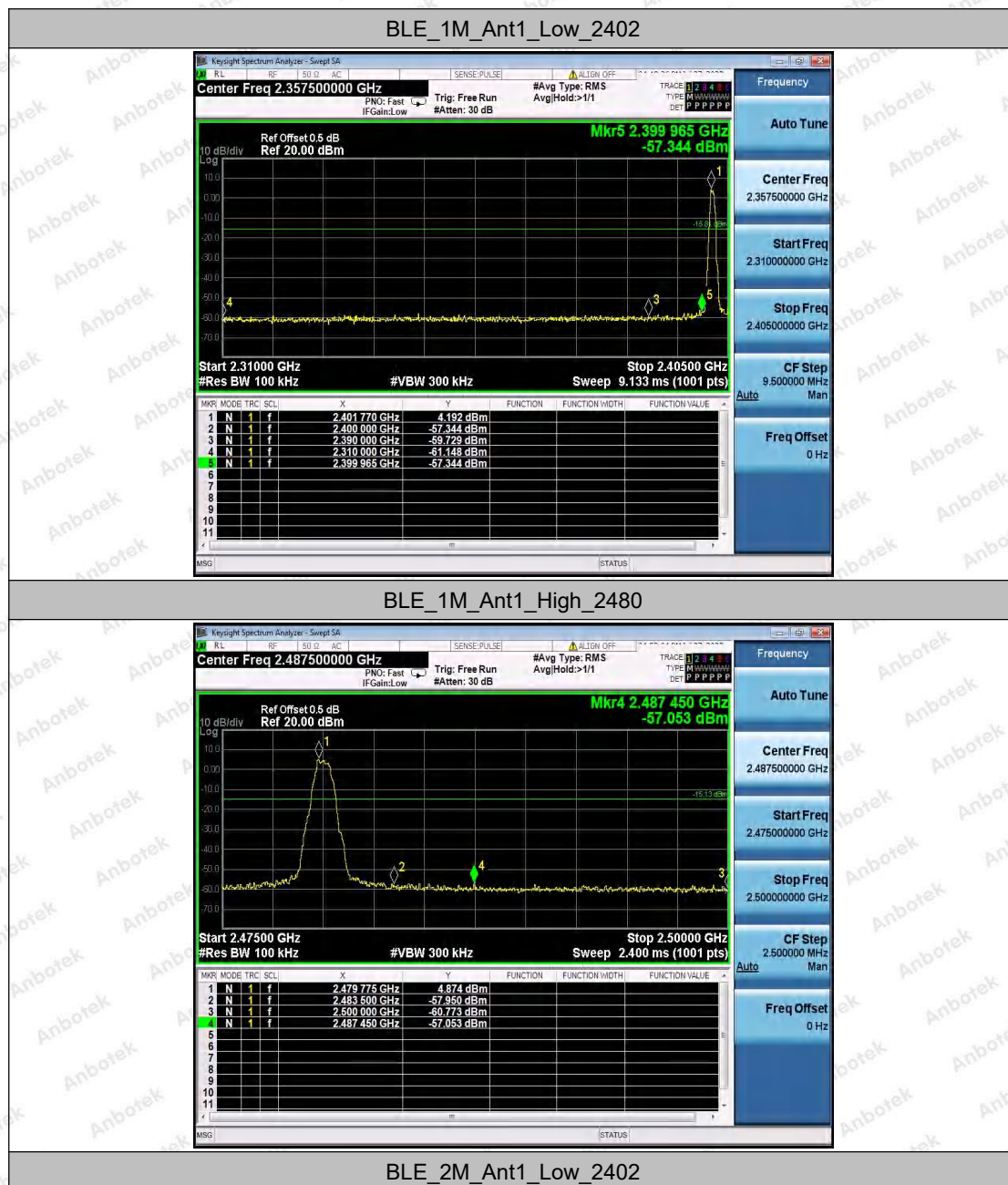
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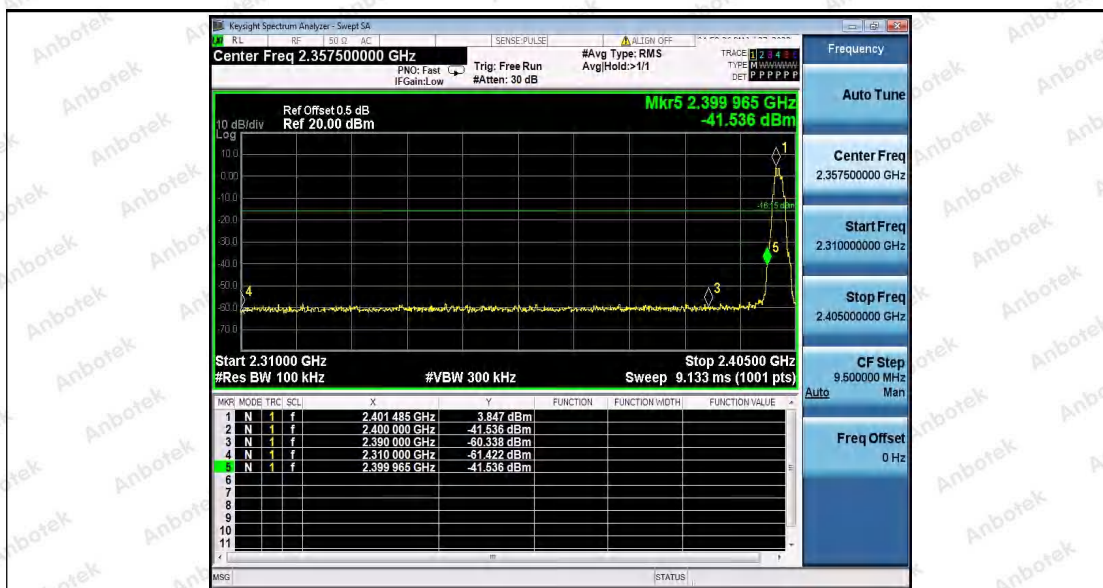
## Appendix E: Band edge measurements

### Test Result

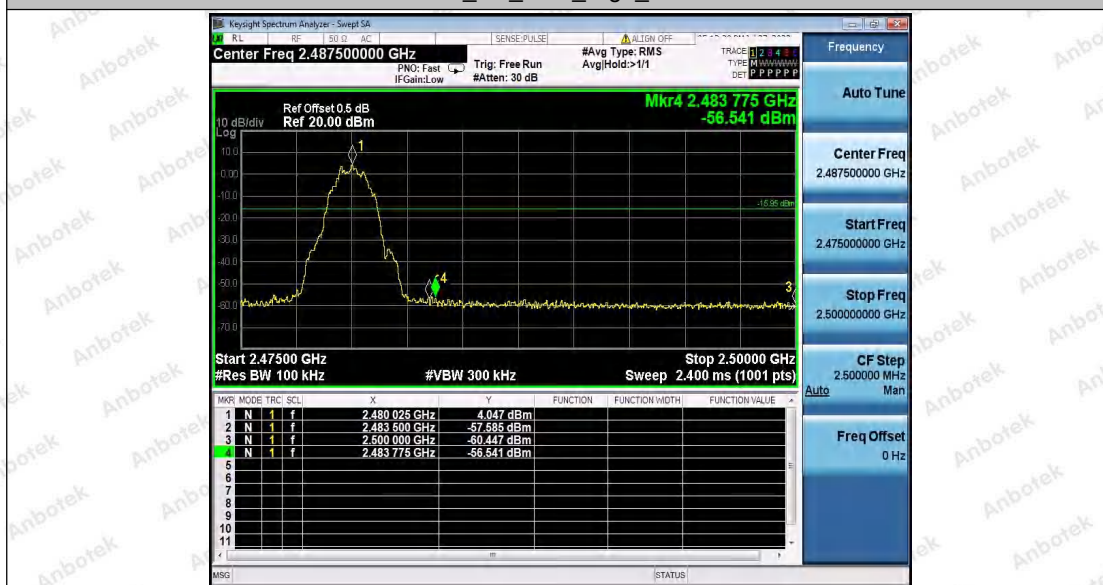
| Test Mode | Antenna | Ch Name | Channel | Ref Level[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|---------|----------------|-------------|------------|---------|
| BLE_1M    | Ant1    | Low     | 2402    | 4.19           | -57.34      | ≤-15.81    | PASS    |
|           |         | High    | 2480    | 4.87           | -57.05      | ≤-15.13    | PASS    |
| BLE_2M    | Ant1    | Low     | 2402    | 3.85           | -41.54      | ≤-16.15    | PASS    |
|           |         | High    | 2480    | 4.05           | -56.54      | ≤-15.95    | PASS    |

## Test Graphs





## BLE\_2M\_Ant1\_High\_2480



## Appendix F: Conducted Spurious Emission

### Test Result

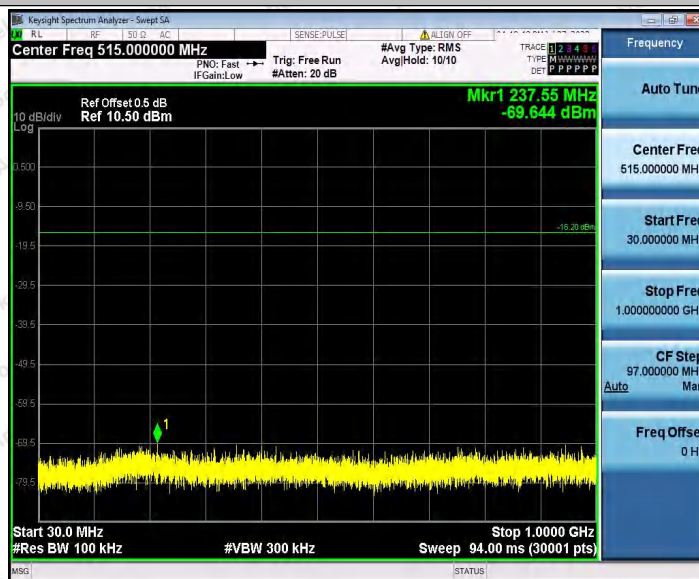
| Test Mode | Antenna | Channel | Freq Range<br>[MHz] | Ref Level<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|---------------------|--------------------|-------------|------------|---------|
| BLE_1M    | Ant1    | 2402    | Reference           | 3.80               | 3.80        | ---        | PASS    |
|           |         |         | 30~1000             | 3.80               | -69.64      | ≤-16.2     | PASS    |
|           |         |         | 1000~26500          | 3.80               | -53.86      | ≤-16.2     | PASS    |
|           |         | 2440    | Reference           | 5.81               | 5.81        | ---        | PASS    |
|           |         |         | 30~1000             | 5.81               | -69.7       | ≤-14.19    | PASS    |
|           |         |         | 1000~26500          | 5.81               | -54.01      | ≤-14.19    | PASS    |
|           |         | 2480    | Reference           | 4.82               | 4.82        | ---        | PASS    |
|           |         |         | 30~1000             | 4.82               | -70.04      | ≤-15.18    | PASS    |
|           |         |         | 1000~26500          | 4.82               | -52.85      | ≤-15.18    | PASS    |
| BLE_2M    | Ant1    | 2402    | Reference           | 3.63               | 3.63        | ---        | PASS    |
|           |         |         | 30~1000             | 3.63               | -68.99      | ≤-16.37    | PASS    |
|           |         |         | 1000~26500          | 3.63               | -54.62      | ≤-16.37    | PASS    |
|           |         | 2440    | Reference           | 5.19               | 5.19        | ---        | PASS    |
|           |         |         | 30~1000             | 5.19               | -69.23      | ≤-14.81    | PASS    |
|           |         |         | 1000~26500          | 5.19               | -54.06      | ≤-14.81    | PASS    |
|           |         | 2480    | Reference           | 4.07               | 4.07        | ---        | PASS    |
|           |         |         | 30~1000             | 4.07               | -69.1       | ≤-15.93    | PASS    |
|           |         |         | 1000~26500          | 4.07               | -54.01      | ≤-15.93    | PASS    |

## Test Graphs

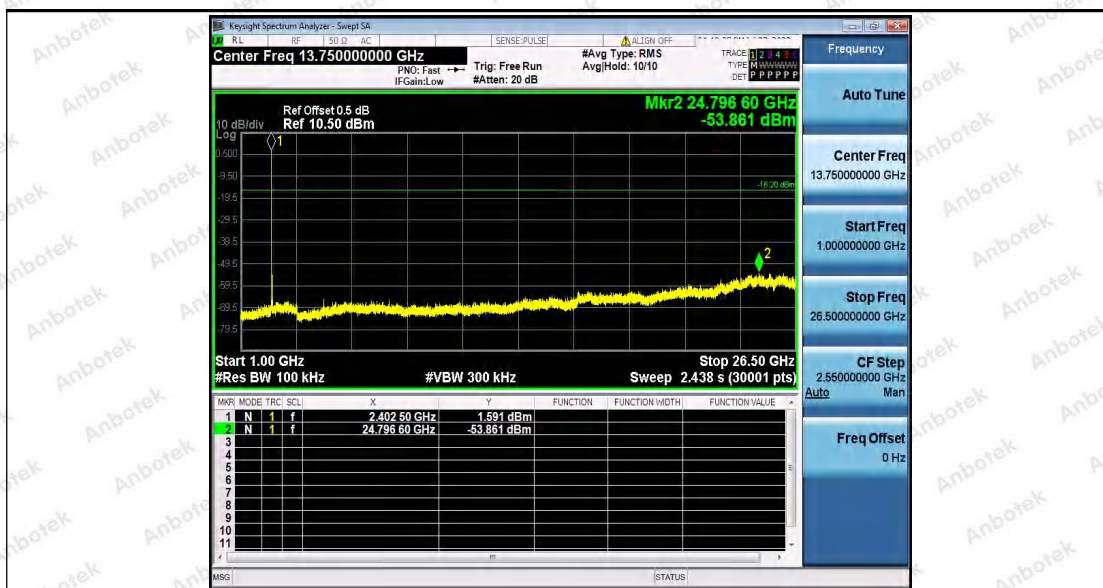
BLE\_1M\_Ant1\_2402\_0~Reference



BLE\_1M\_Ant1\_2402\_30~1000



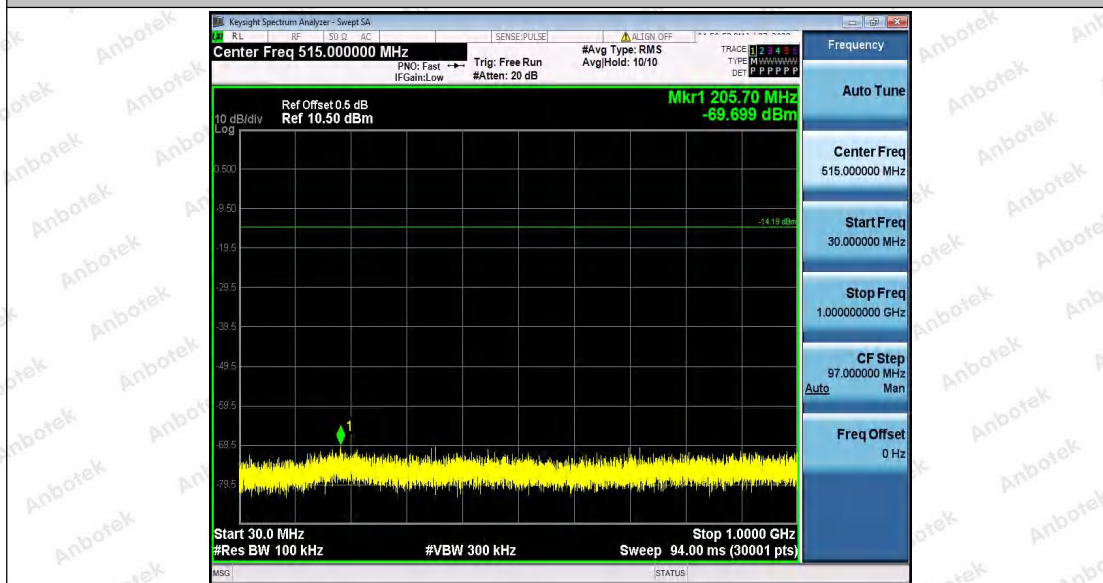
BLE\_1M\_Ant1\_2402\_1000~26500



BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000

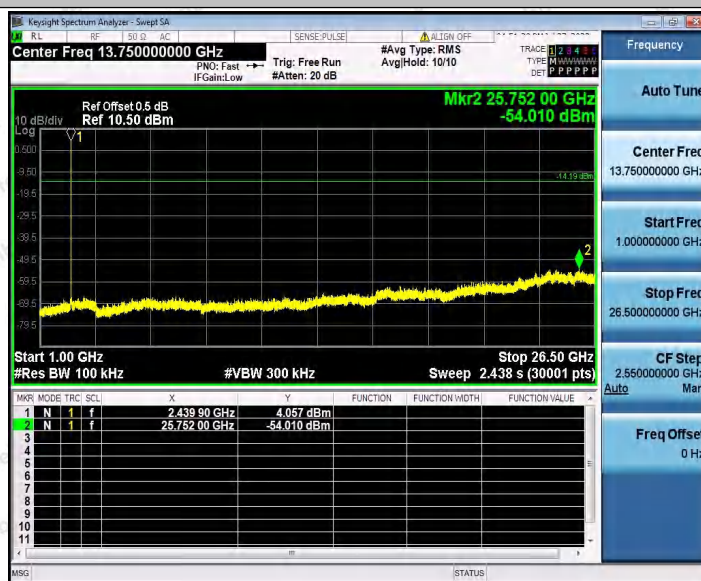


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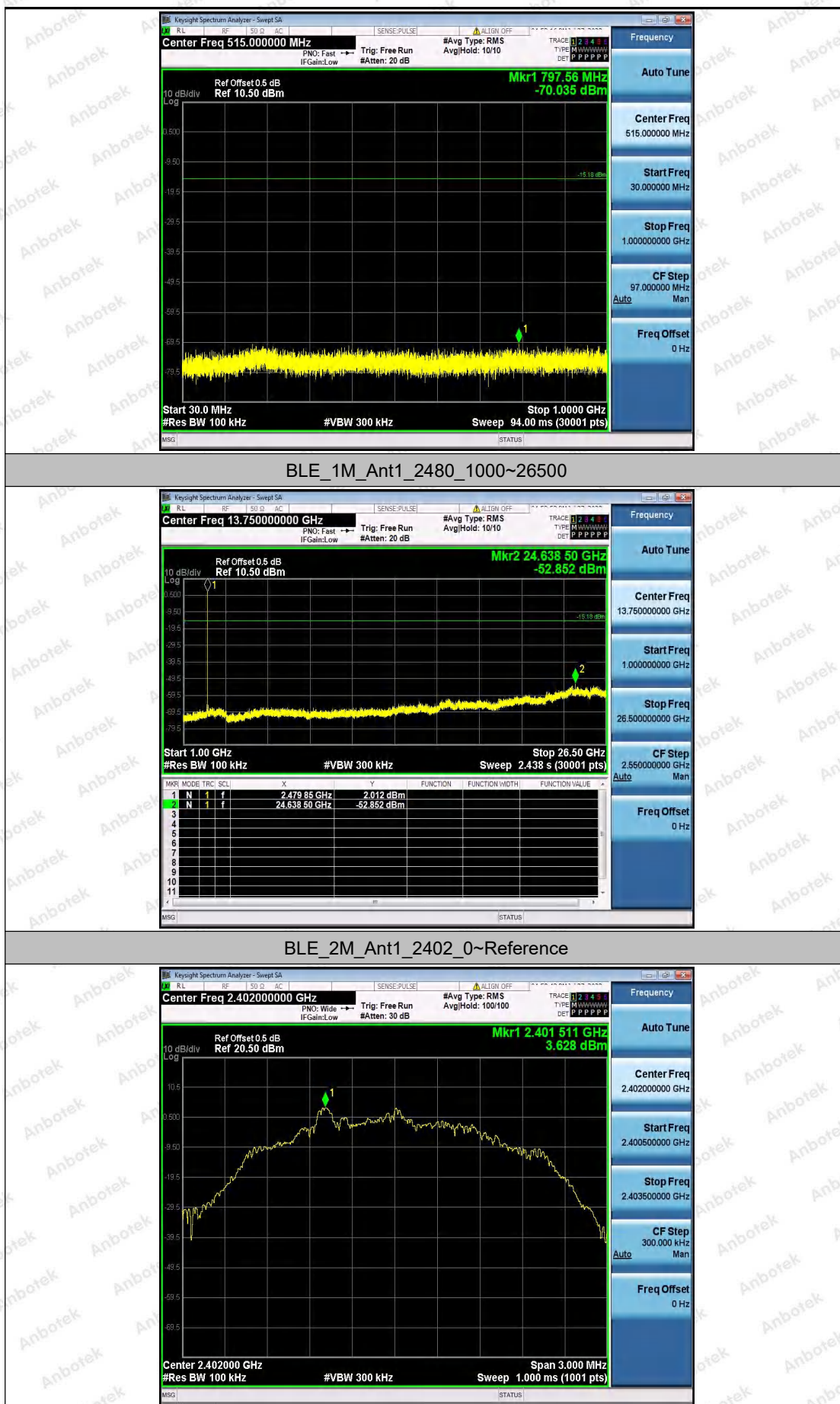
## BLE\_1M\_Ant1\_2440\_1000~26500



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



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

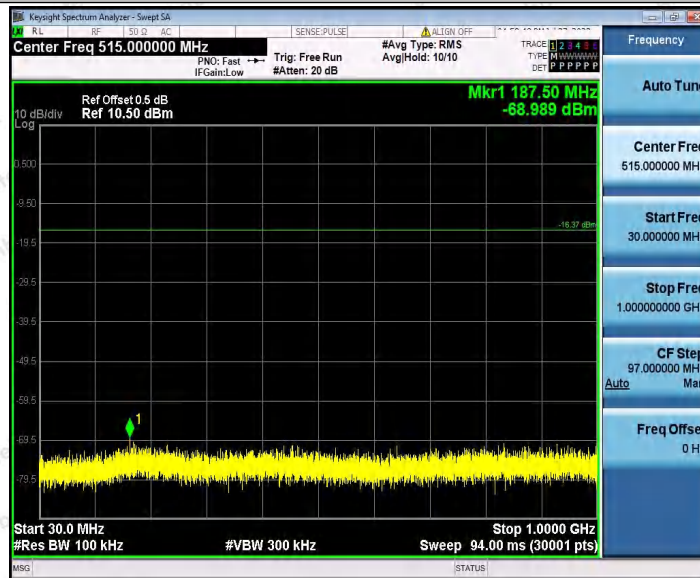


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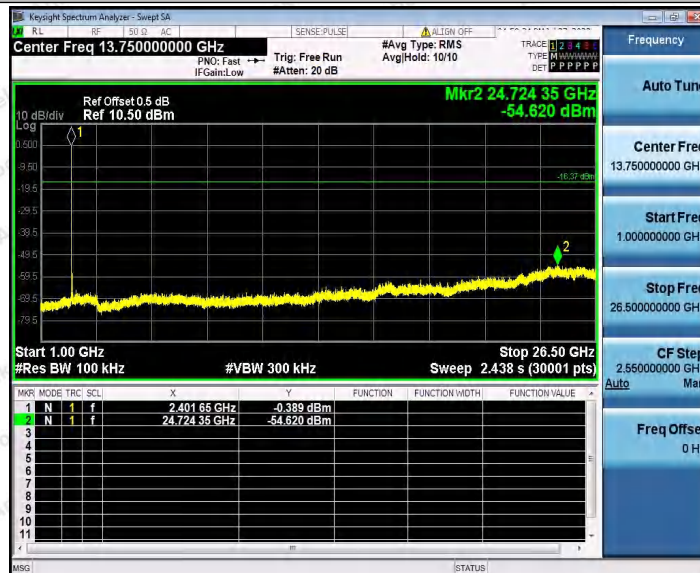
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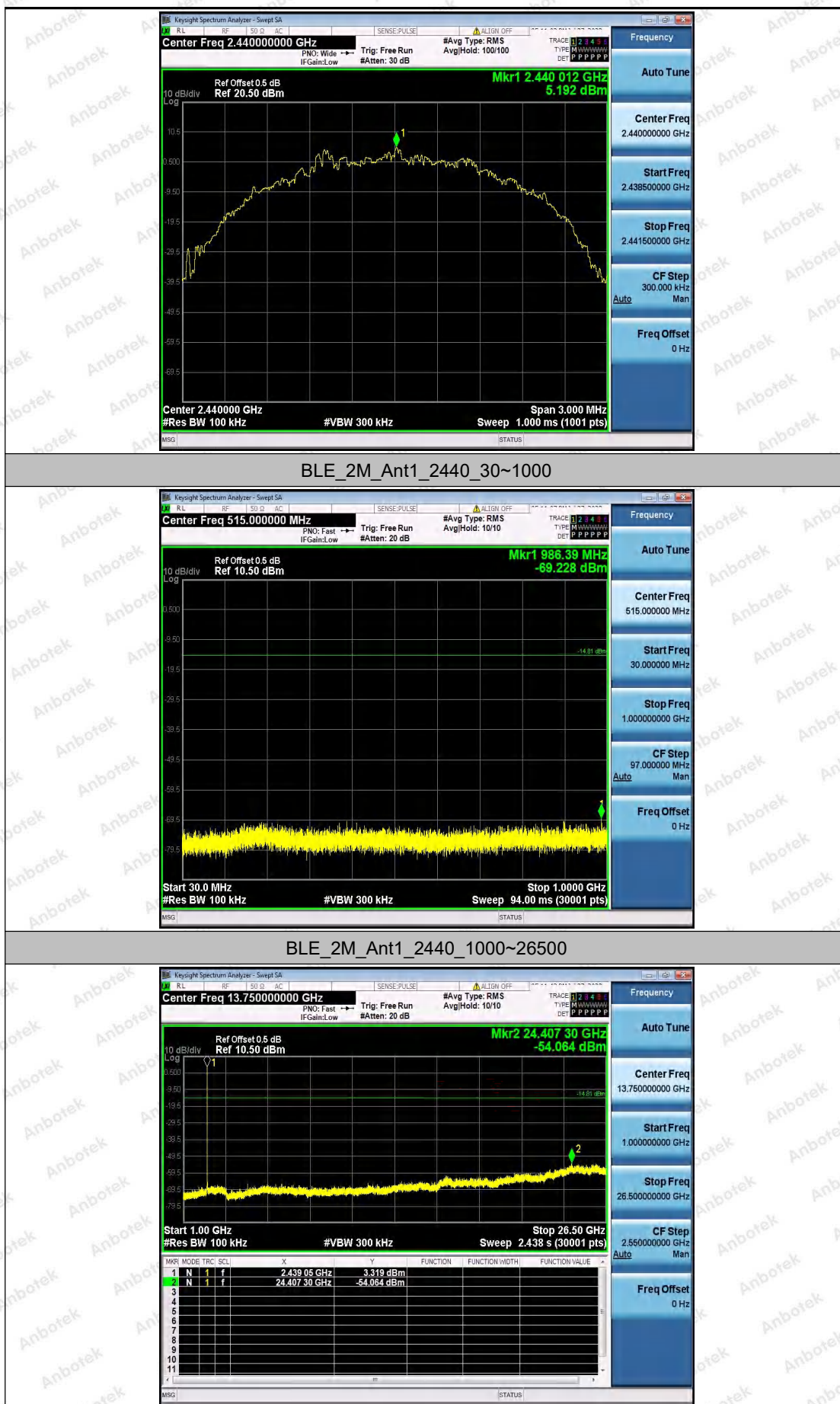
BLE\_2M\_Ant1\_2402\_30~1000



BLE\_2M\_Ant1\_2402\_1000~26500



BLE\_2M\_Ant1\_2440\_0~Reference



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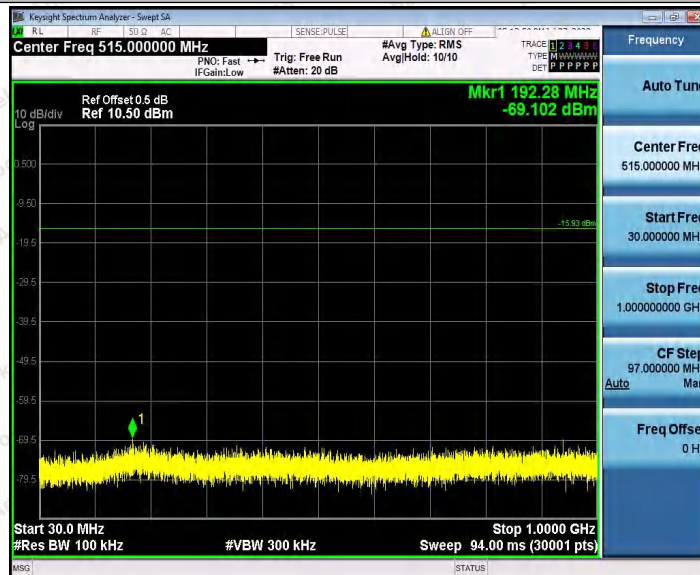
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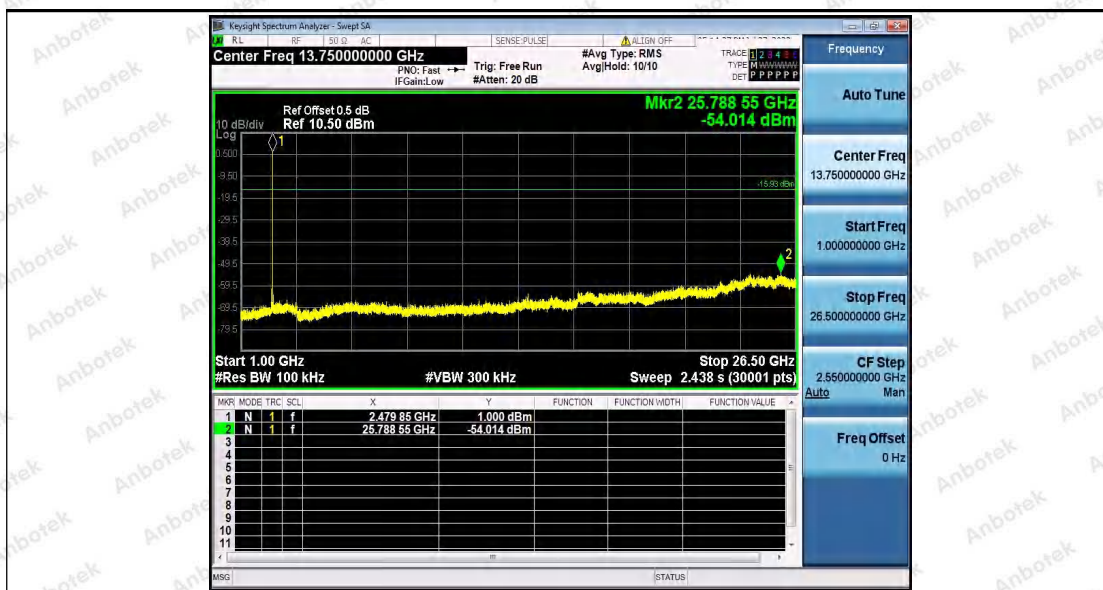
BLE\_2M\_Ant1\_2480\_0~Reference



BLE\_2M\_Ant1\_2480\_30~1000



BLE\_2M\_Ant1\_2480\_1000~26500



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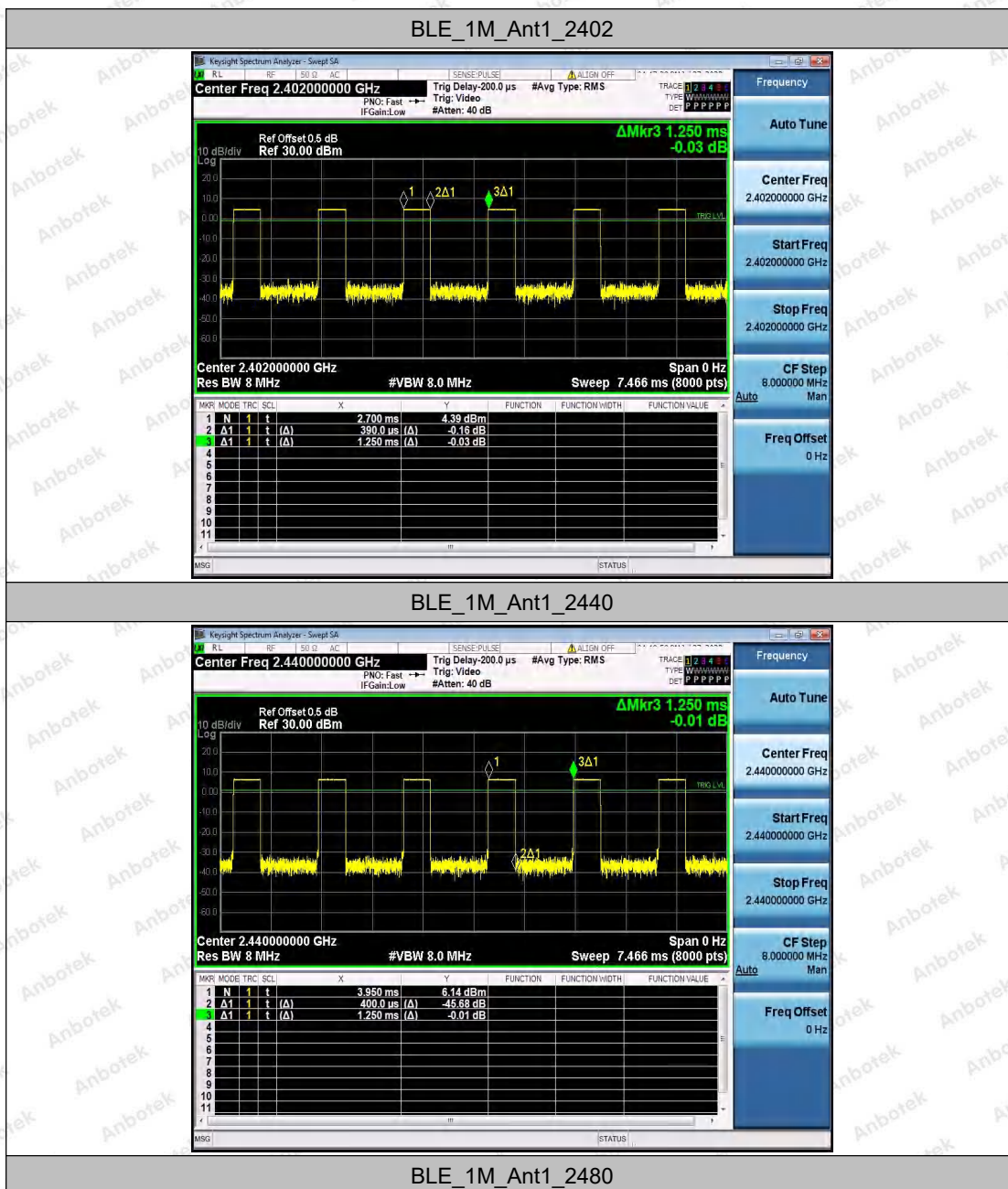
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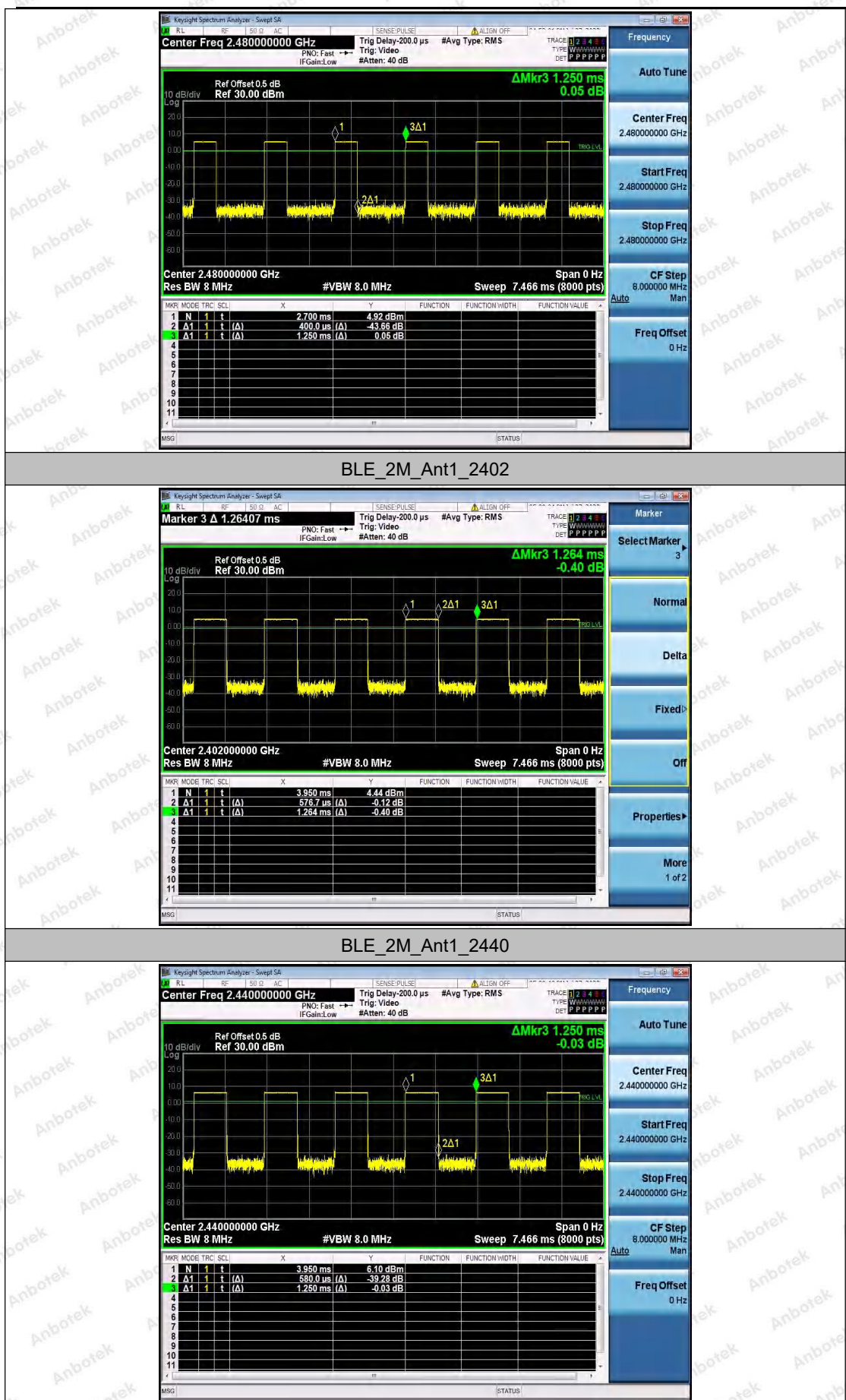
## Appendix G: Duty Cycle

### Test Result

| Test Mode | Antenna | Channel | ON Time<br>[ms] | Period<br>[ms] | X      | DC [%] | X Factor | Limit | Verdict |
|-----------|---------|---------|-----------------|----------------|--------|--------|----------|-------|---------|
| BLE_1M    | Ant1    | 2402    | 0.39            | 1.25           | 0.3120 | 31.20  | 10.12    | ---   | PASS    |
|           |         | 2440    | 0.40            | 1.25           | 0.3200 | 32.00  | 9.9      | ---   | PASS    |
|           |         | 2480    | 0.40            | 1.25           | 0.3200 | 32.00  | 9.9      | ---   | PASS    |
| BLE_2M    | Ant1    | 2402    | 1.16            | 2.50           | 0.4640 | 46.40  | 6.66     | ---   | PASS    |
|           |         | 2440    | 0.58            | 1.25           | 0.4640 | 46.40  | 6.66     | ---   | PASS    |
|           |         | 2480    | 0.58            | 1.25           | 0.4640 | 46.40  | 6.66     | ---   | PASS    |

## Test Graphs

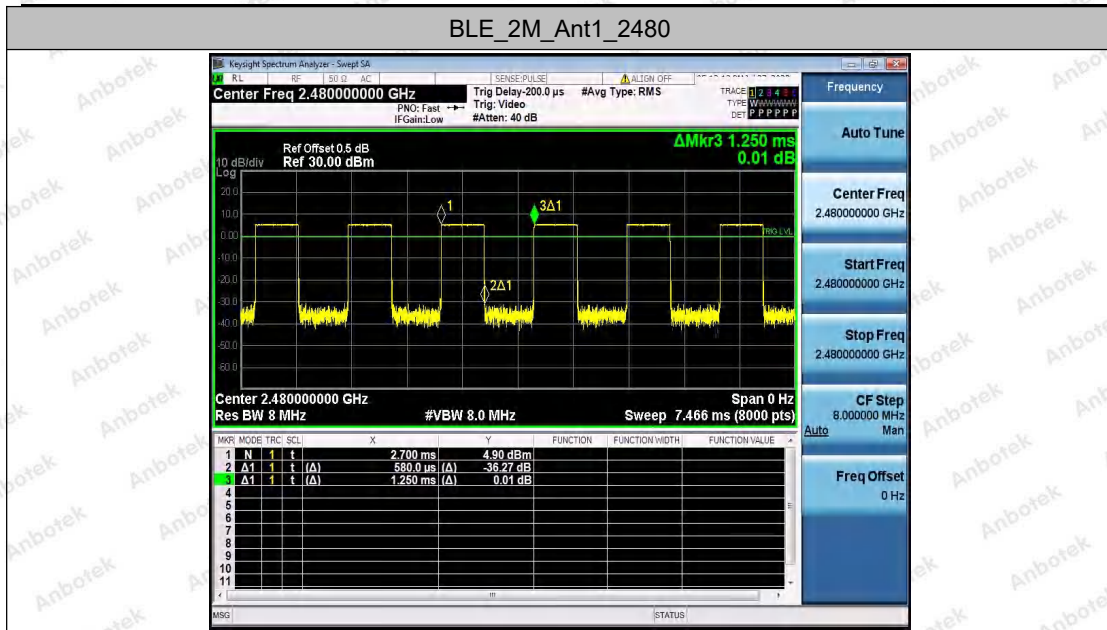




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