

## **FCC Appendix RF Test Data**

**FCC ID** : 2APVY-GK84-1

**Company:** : SHANTOU CITY CHENGHAI JINGWEI INDUSTRIAL, CO., LTD.

**EUT** : BOXING TARGET

**Model Number** : GK84-1

**Report No.** : CTA25041600901

**Reviewed By** : Eric Wang

## Appendix A: DTS Bandwidth

### Test Result

| TestMode | Antenna | Freq(MHz) | DTS BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|-----------|-----------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402      | 0.624           | 2401.688 | 2402.312 | 0.5        | PASS    |
|          |         | 2440      | 0.628           | 2439.696 | 2440.324 | 0.5        | PASS    |
|          |         | 2480      | 0.632           | 2479.688 | 2480.320 | 0.5        | PASS    |

# Test Graphs



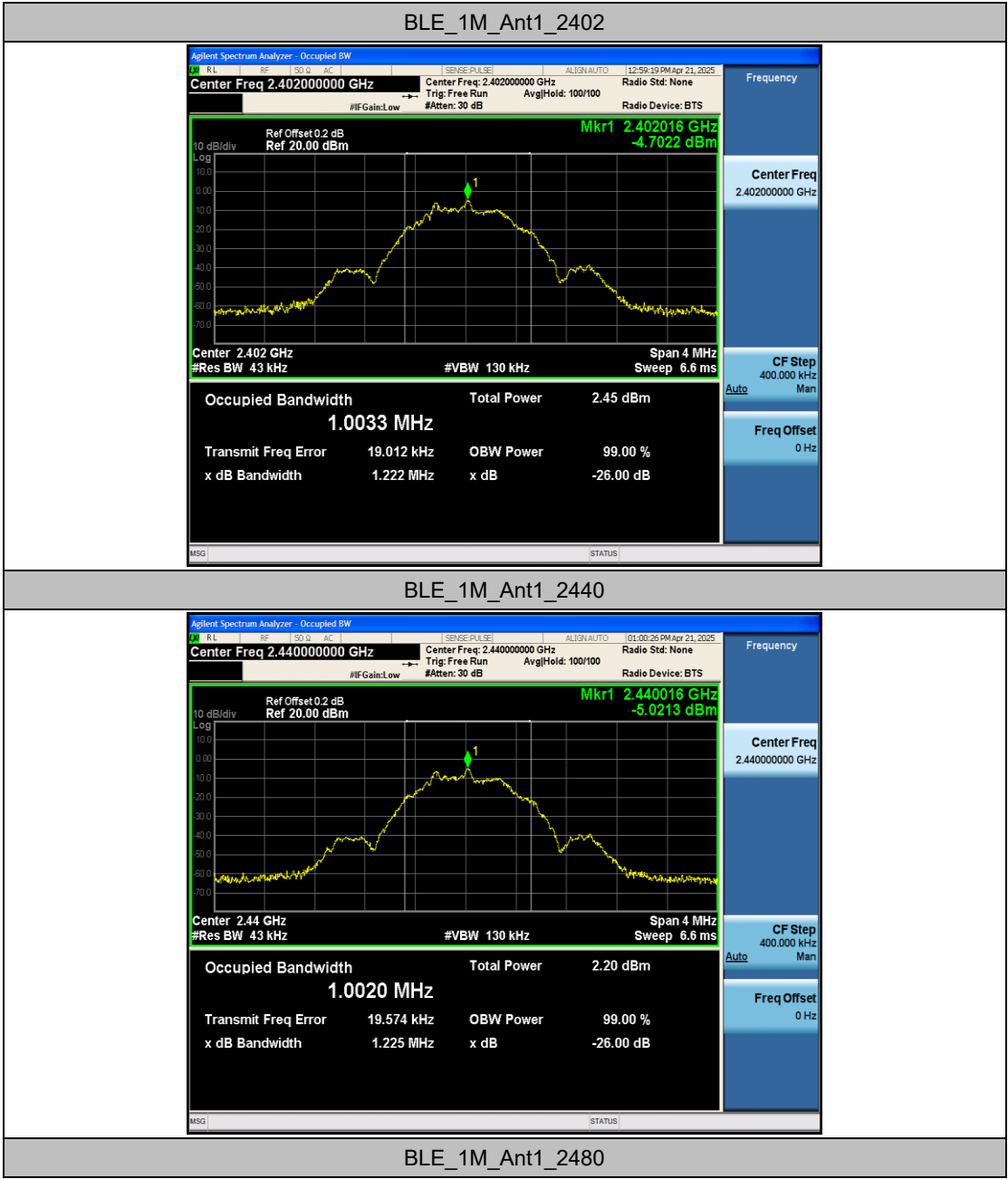


## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Freq(MHz) | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|-----------|-----------|-----------|-----------|------------|---------|
| BLE_1M   | Ant1    | 2402      | 1.0033    | 2401.5174 | 2402.5207 | ---        | ---     |
|          |         | 2440      | 1.0020    | 2439.5186 | 2440.5206 | ---        | ---     |
|          |         | 2480      | 1.0030    | 2479.5187 | 2480.5217 | ---        | ---     |

Test Graphs





## Appendix C: Maximum conducted output power

### Test Result Peak

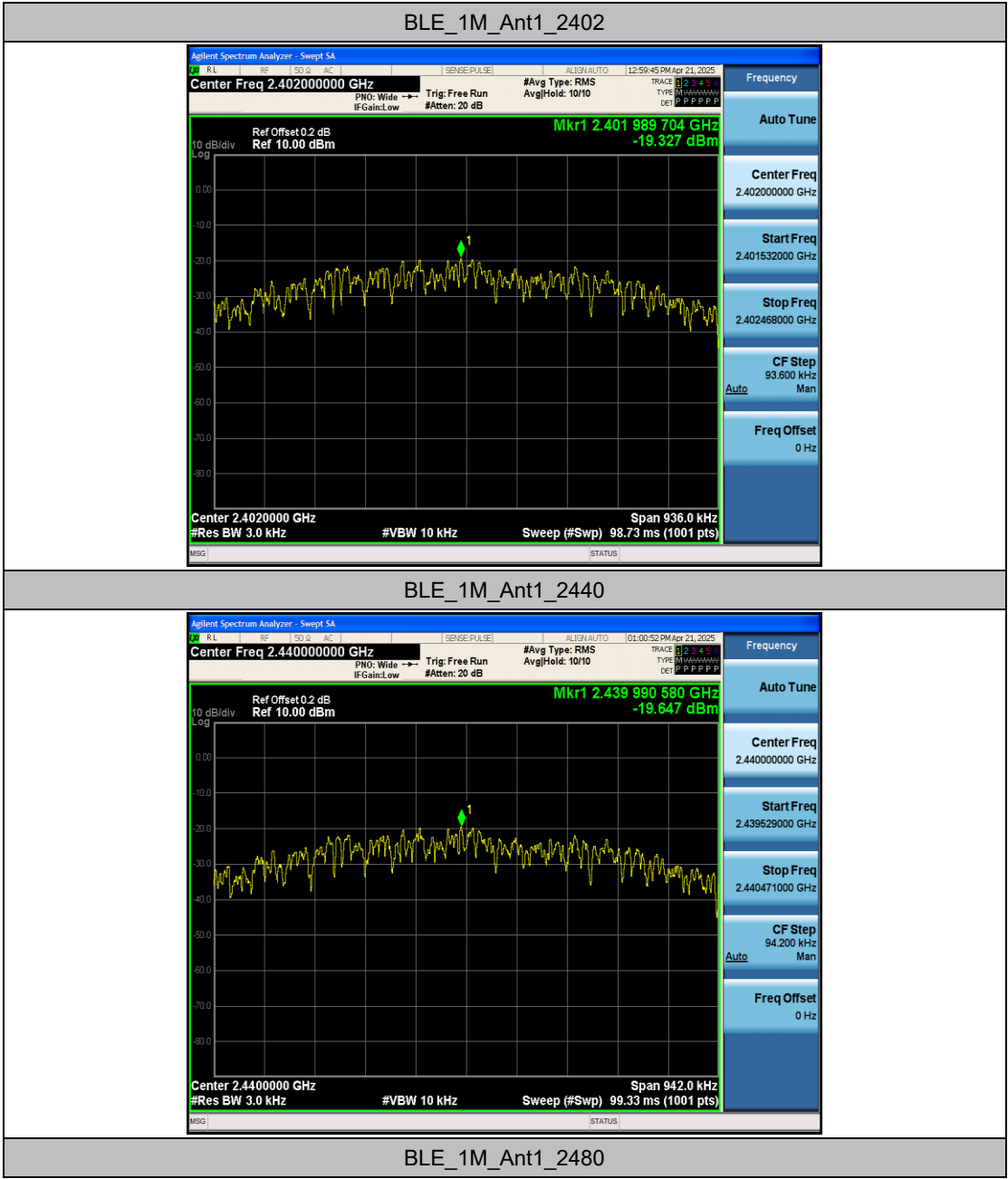
| TestMode | Antenna | Freq(MHz) | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|-----------|---------------------------|----------------------|---------|
| BLE_1M   | Ant1    | 2402      | -3.64                     | ≤30                  | PASS    |
|          |         | 2440      | -3.95                     | ≤30                  | PASS    |
|          |         | 2480      | -3.97                     | ≤30                  | PASS    |

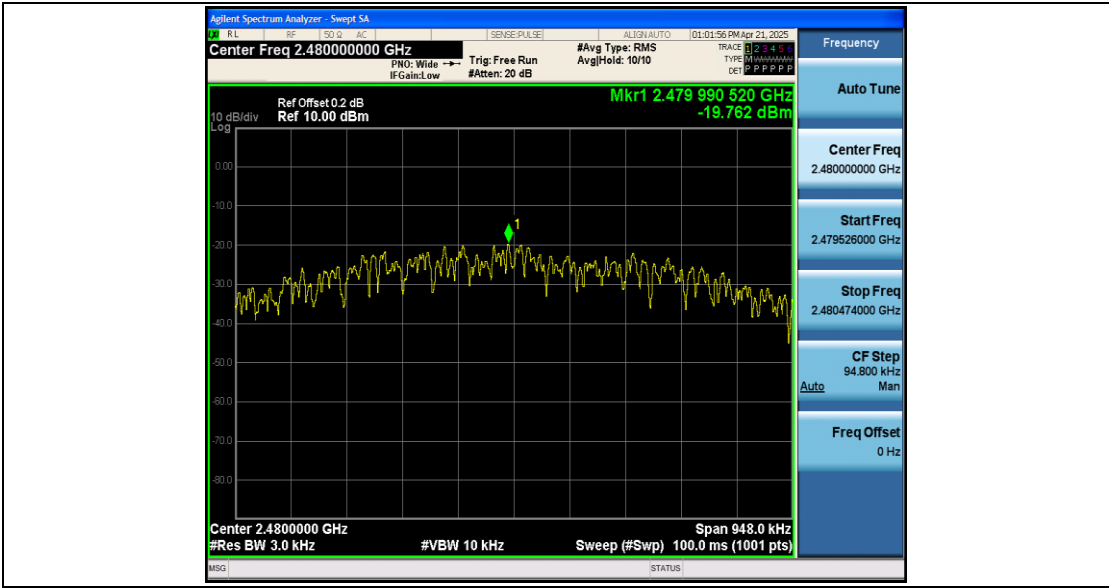
## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Freq(MHz) | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|-----------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402      | -19.33           | ≤8.00           | PASS    |
|          |         | 2440      | -19.65           | ≤8.00           | PASS    |
|          |         | 2480      | -19.76           | ≤8.00           | PASS    |

Test Graphs





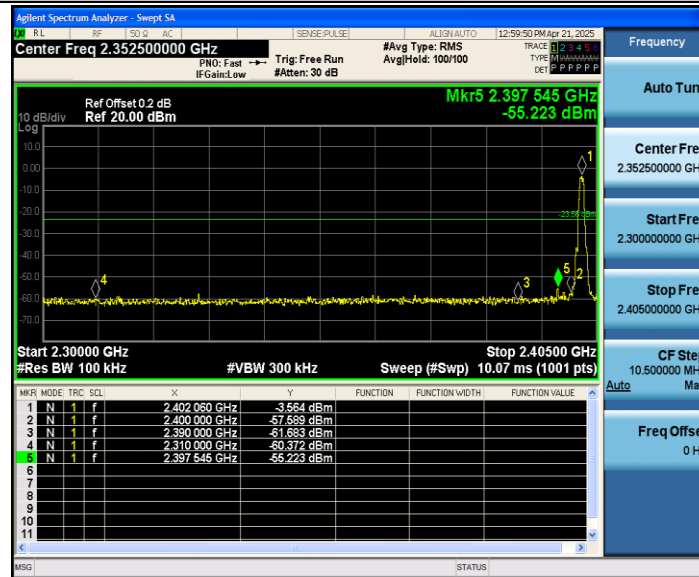
## Appendix E: Band edge measurements

### Test Result

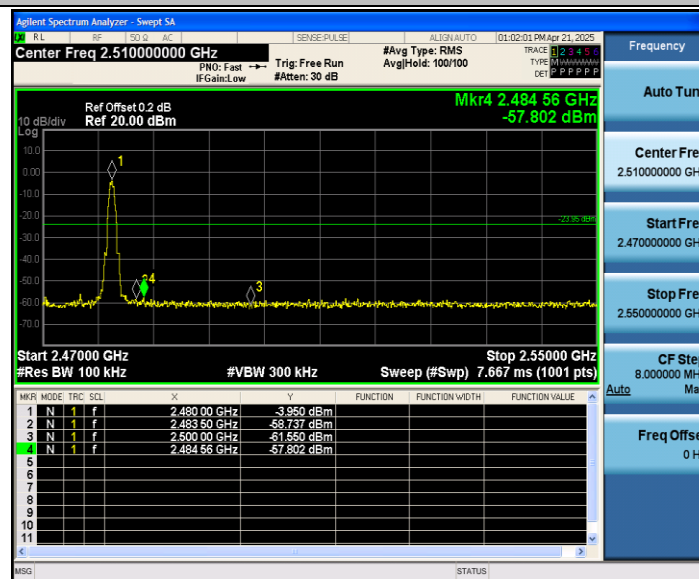
| TestMode | Antenna | Channel | Freq(MHz) | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-----------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low     | 2402      | -3.56         | -55.22      | ≤-23.56    | PASS    |
|          |         | High    | 2480      | -3.95         | -57.8       | ≤-23.95    | PASS    |

## Test Graphs

BLE\_1M\_Ant1\_Low\_2402



BLE\_1M\_Ant1\_High\_2480

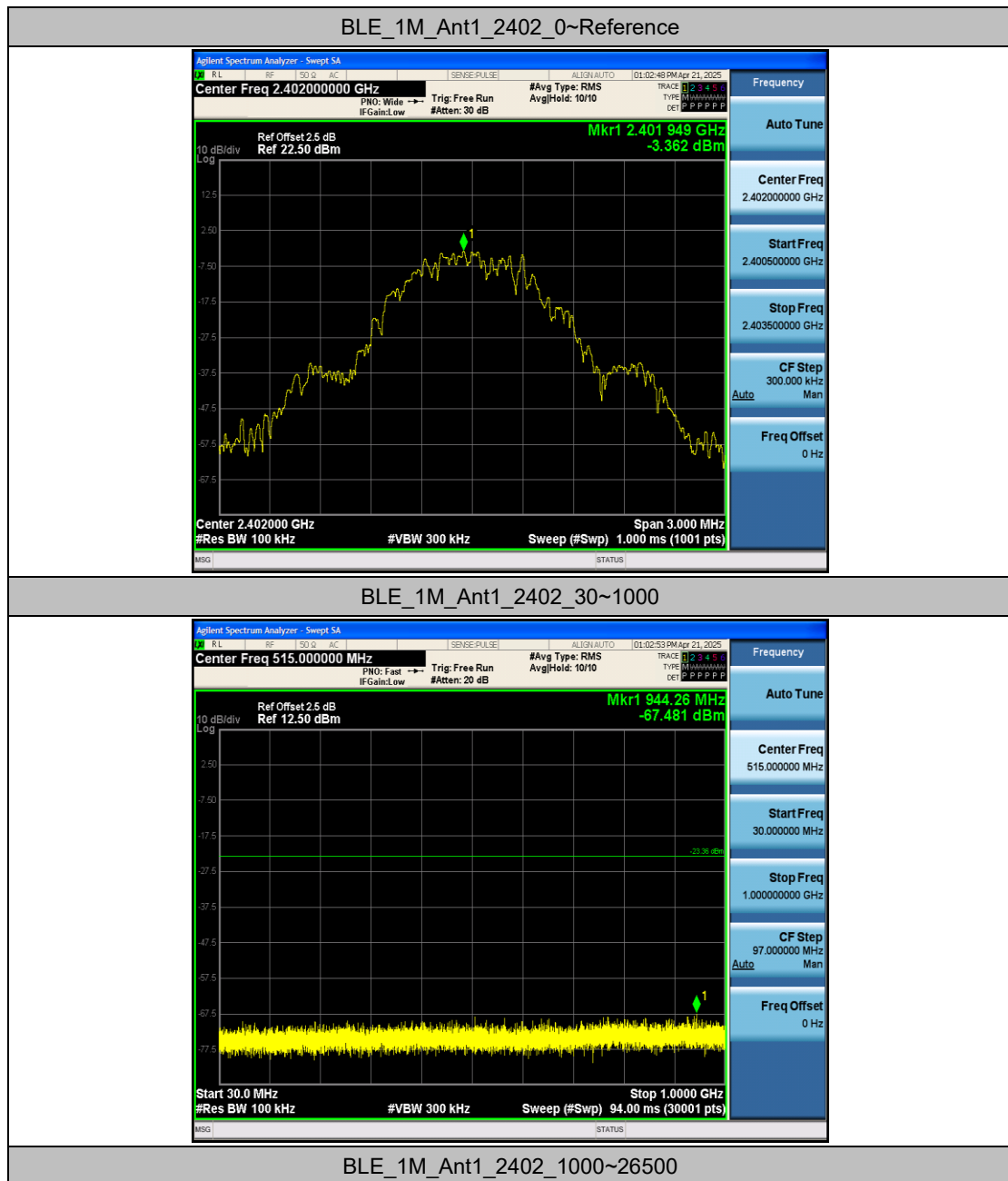


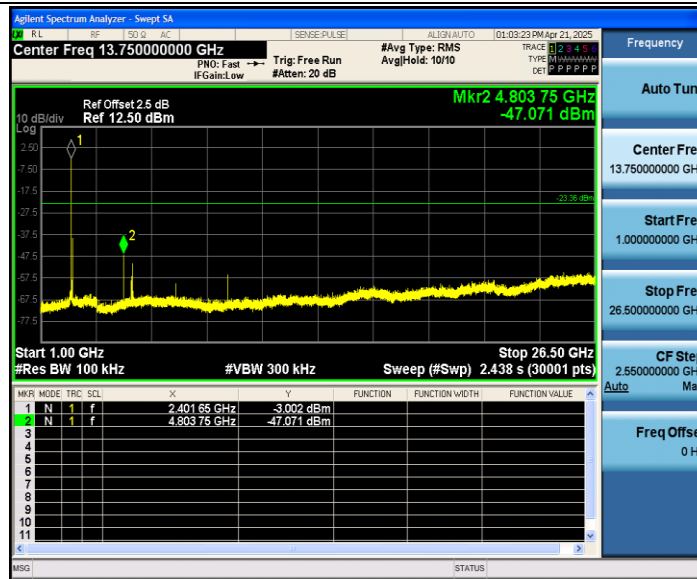
## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Freq(MHz) | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|-----------|-----------------|----------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402      | Reference       | -3.36          | -3.36       | ---        | PASS    |
|          |         |           | 30~1000         | -3.36          | -67.48      | ≤-23.36    | PASS    |
|          |         |           | 1000~26500      | -3.36          | -47.07      | ≤-23.36    | PASS    |
|          |         | 2440      | Reference       | -3.30          | -3.30       | ---        | PASS    |
|          |         |           | 30~1000         | -3.30          | -68.22      | ≤-23.3     | PASS    |
|          |         |           | 1000~26500      | -3.30          | -45.45      | ≤-23.3     | PASS    |
|          |         | 2480      | Reference       | -2.72          | -2.72       | ---        | PASS    |
|          |         |           | 30~1000         | -2.72          | -67.87      | ≤-22.72    | PASS    |
|          |         |           | 1000~26500      | -2.72          | -50.44      | ≤-22.72    | PASS    |

## Test Graphs

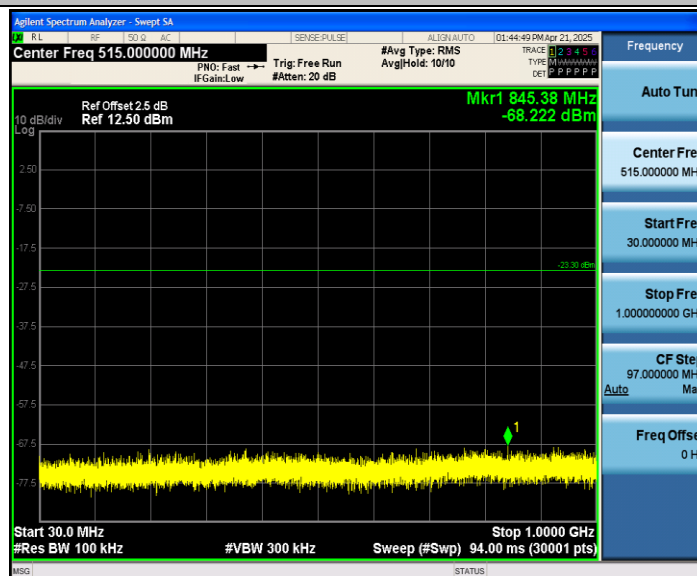




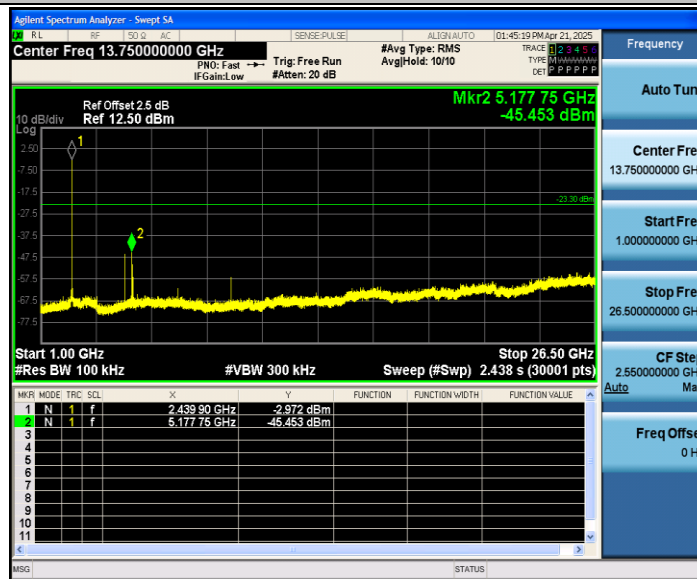
BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000



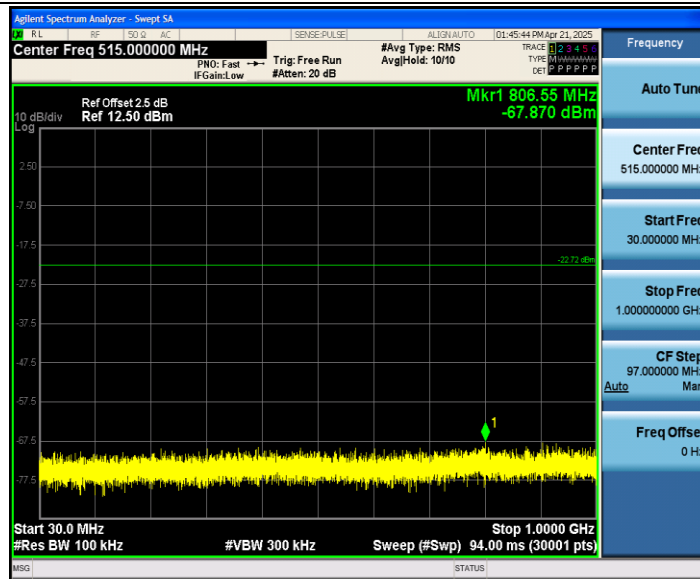
# BLE\_1M\_Ant1\_2440\_1000~26500



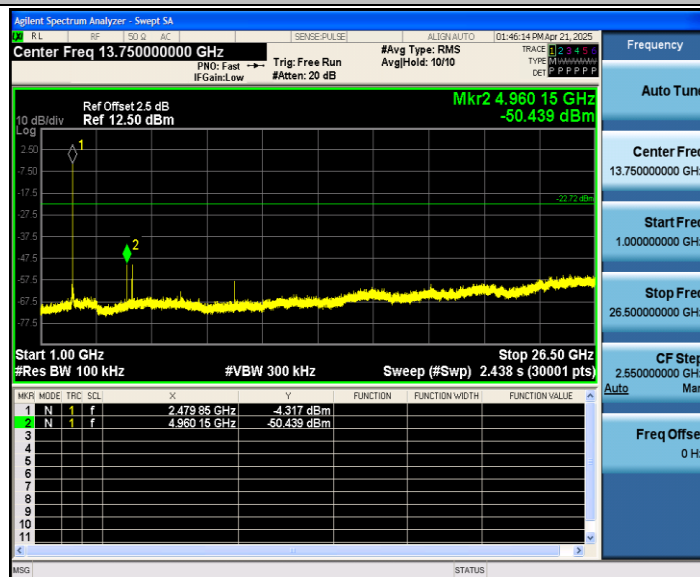
# BLE\_1M\_Ant1\_2480\_0~Reference



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



BLE\_1M\_Ant1\_2480\_1000~26500



## Appendix G: Duty Cycle

### Test Result

| TestMode | Antenna | Freq(MHz) | ON Time<br>[ms] | Period<br>[ms] | X      | DC<br>[%] | xFactor | Limit | Verdict |
|----------|---------|-----------|-----------------|----------------|--------|-----------|---------|-------|---------|
| BLE_1M   | Ant1    | 2402      | 0.41            | 0.63           | 0.6508 | 65.08     | 1.87    | ---   | ---     |
|          |         | 2440      | 0.41            | 0.63           | 0.6508 | 65.08     | 1.87    | ---   | ---     |
|          |         | 2480      | 0.41            | 0.63           | 0.6508 | 65.08     | 1.87    | ---   | ---     |

# Test Graphs

