

## Appendix A: RESULTS for BLE

### Appendix A: DTS Bandwidth

#### Test Result

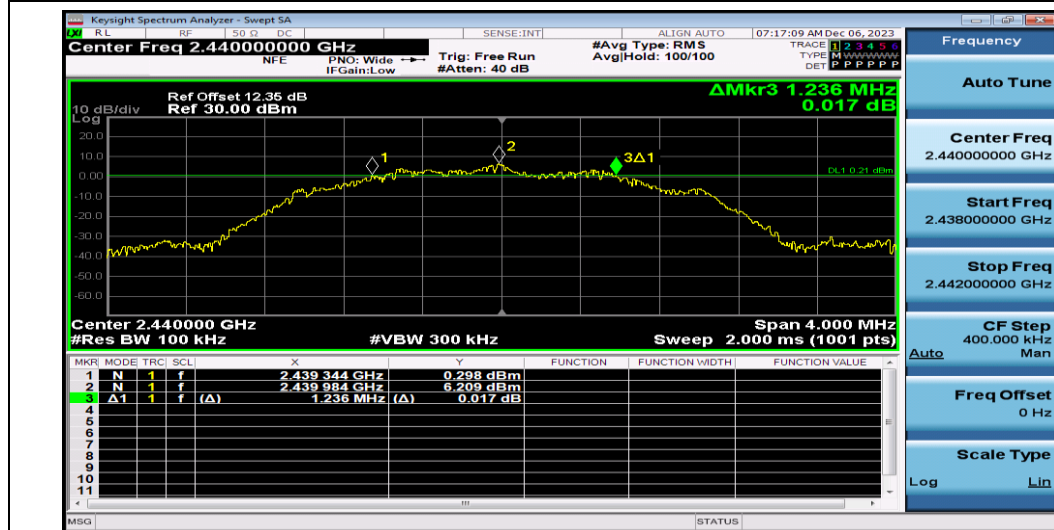
| TestMode | Antenna | Frequency[MHz] | DTS BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------------|----------|----------|------------|---------|
| BLE_1M   | Ant0    | 2402           | 0.680           | 2401.660 | 2402.340 | 0.5        | PASS    |
| BLE_1M   | Ant0    | 2440           | 0.684           | 2439.644 | 2440.328 | 0.5        | PASS    |
| BLE_1M   | Ant0    | 2480           | 0.708           | 2479.624 | 2480.332 | 0.5        | PASS    |
| BLE_2M   | Ant0    | 2402           | 1.224           | 2401.352 | 2402.576 | 0.5        | PASS    |
| BLE_2M   | Ant0    | 2440           | 1.236           | 2439.344 | 2440.580 | 0.5        | PASS    |
| BLE_2M   | Ant0    | 2480           | 1.240           | 2479.332 | 2480.572 | 0.5        | PASS    |

## Test Graphs





BLE\_2M-Ant0-2402



BLE\_2M-Ant0-2440



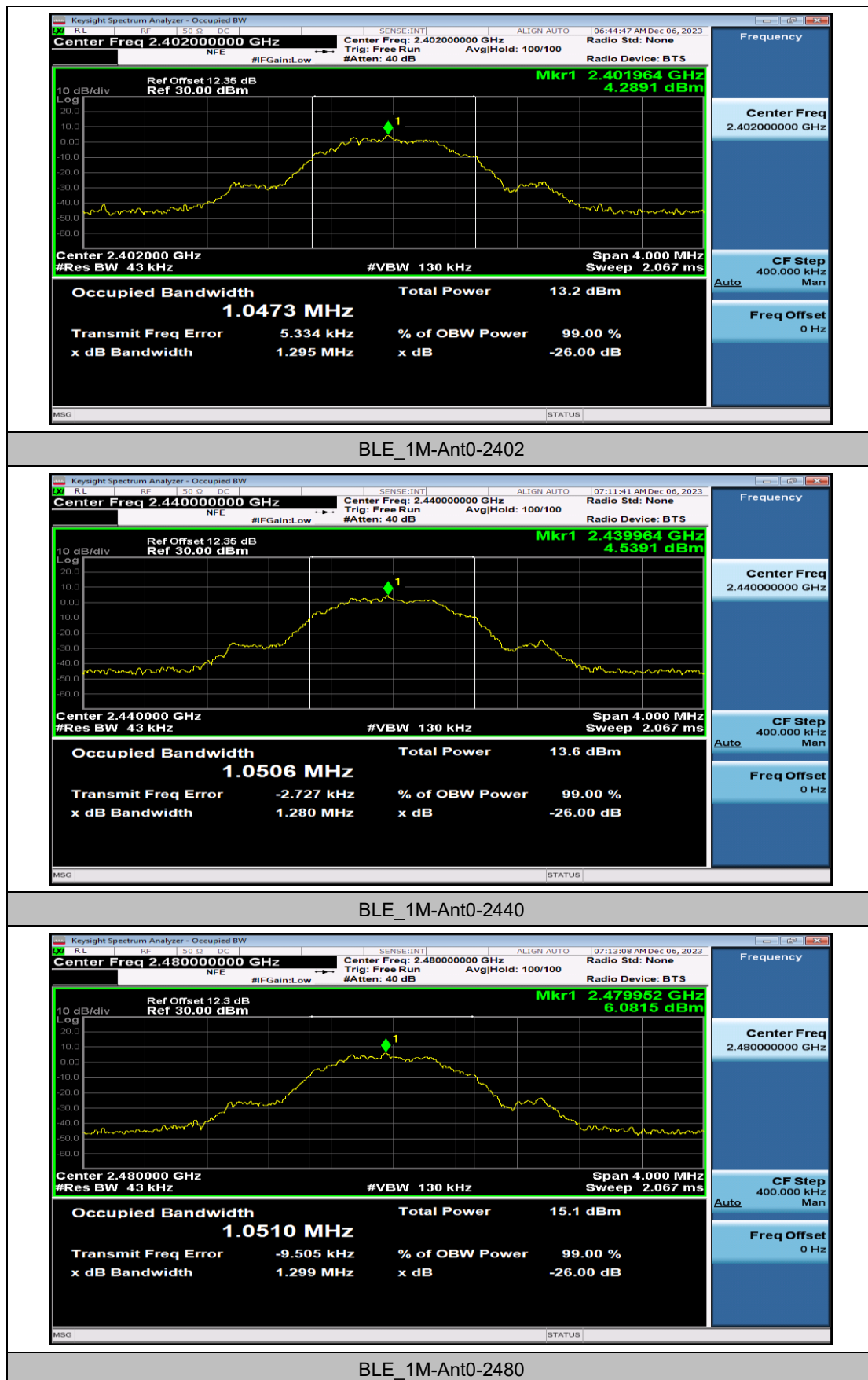
BLE\_2M-Ant0-2480

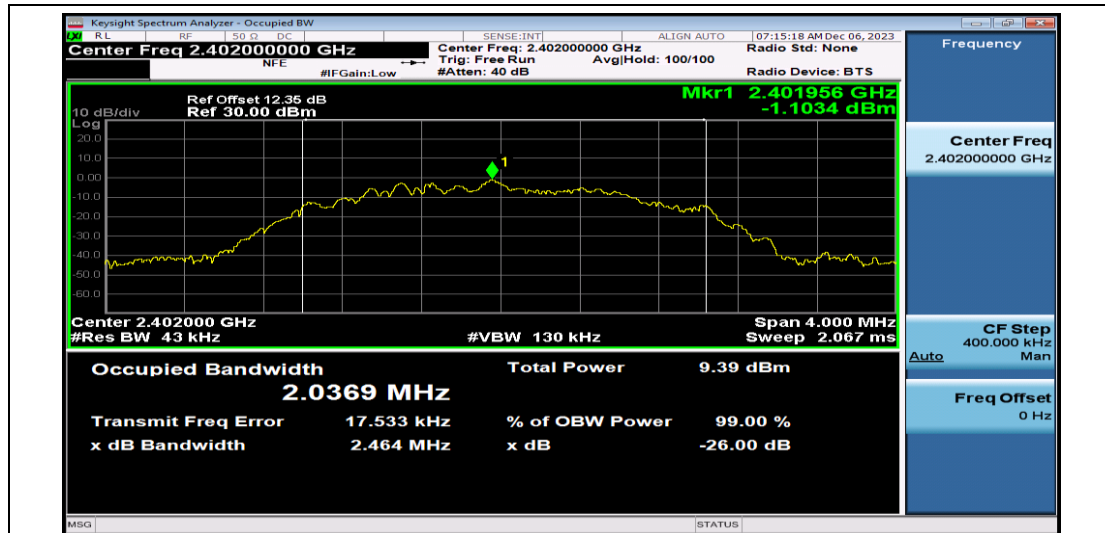
## Appendix A: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB<br>[MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|-----------|-----------|------------|---------|
| BLE_1M   | Ant0    | 2402           | 1.0473       | 2401.4817 | 2402.5290 | ---        | ---     |
| BLE_1M   | Ant0    | 2440           | 1.0506       | 2439.4720 | 2440.5226 | ---        | ---     |
| BLE_1M   | Ant0    | 2480           | 1.0510       | 2479.4650 | 2480.5160 | ---        | ---     |
| BLE_2M   | Ant0    | 2402           | 2.0369       | 2400.9991 | 2403.0360 | ---        | ---     |
| BLE_2M   | Ant0    | 2440           | 2.0350       | 2438.9917 | 2441.0267 | ---        | ---     |
| BLE_2M   | Ant0    | 2480           | 2.0512       | 2478.9744 | 2481.0256 | ---        | ---     |

## Test Graphs





BLE\_2M-Ant0-2402



BLE\_2M-Ant0-2440



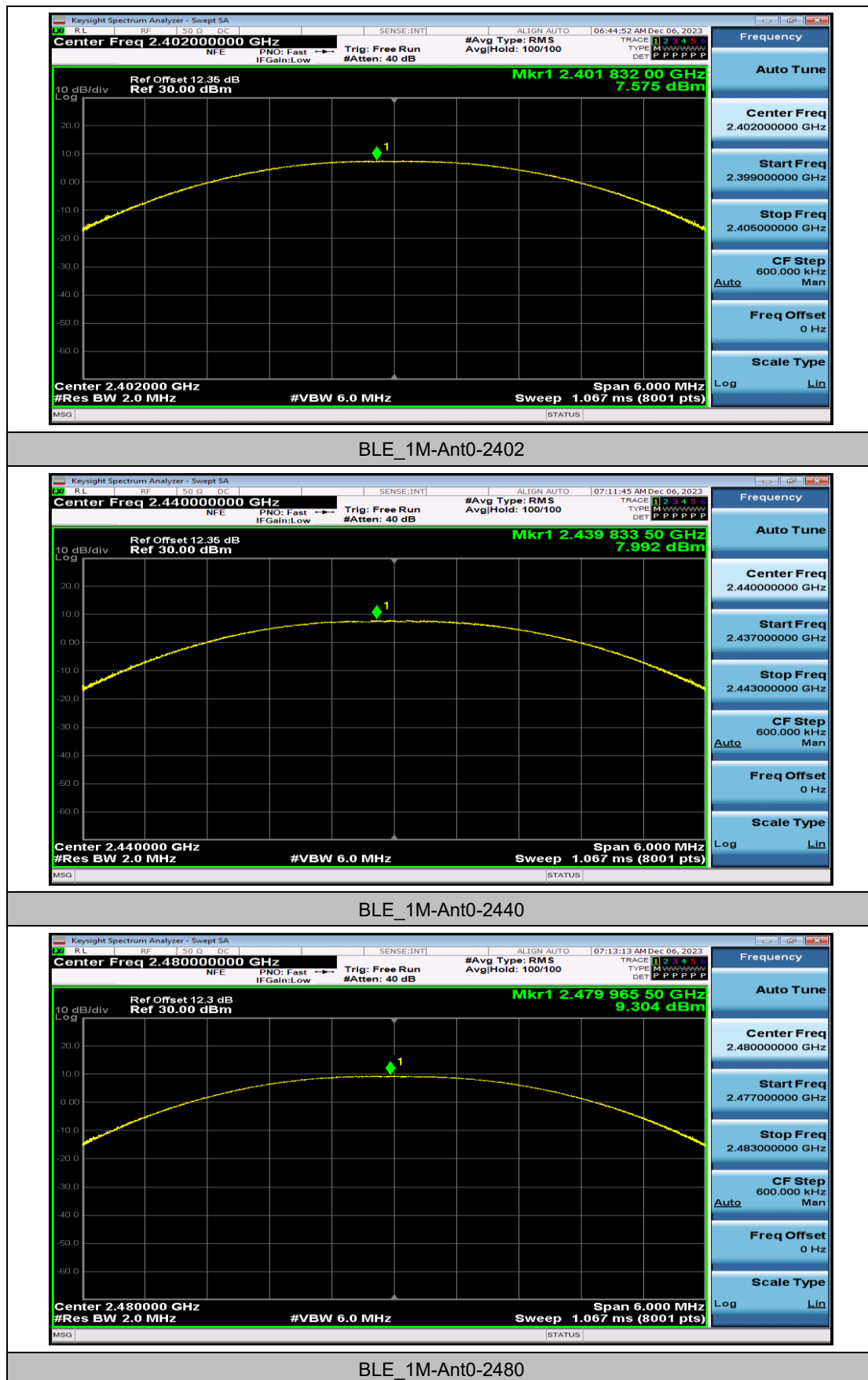
BLE\_2M-Ant0-2480

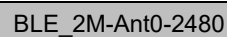
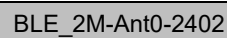
## Appendix A: Maximum conducted output power

### Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted<br>Peak<br>Power[dBm] | Conducted<br>Limit[dBm] | EIRP[dBm] | EIRP<br>Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------------|-------------------------|-----------|--------------------|---------|
| BLE_1M   | Ant0    | 2402           | 7.58                            | ≤30                     | 9.09      | ≤36                | PASS    |
| BLE_1M   | Ant0    | 2440           | 7.99                            | ≤30                     | 9.50      | ≤36                | PASS    |
| BLE_1M   | Ant0    | 2480           | 9.30                            | ≤30                     | 10.81     | ≤36                | PASS    |
| BLE_2M   | Ant0    | 2402           | 4.80                            | ≤30                     | 6.31      | ≤36                | PASS    |
| BLE_2M   | Ant0    | 2440           | 7.89                            | ≤30                     | 9.40      | ≤36                | PASS    |
| BLE_2M   | Ant0    | 2480           | 9.35                            | ≤30                     | 10.86     | ≤36                | PASS    |

## Test Graphs Peak



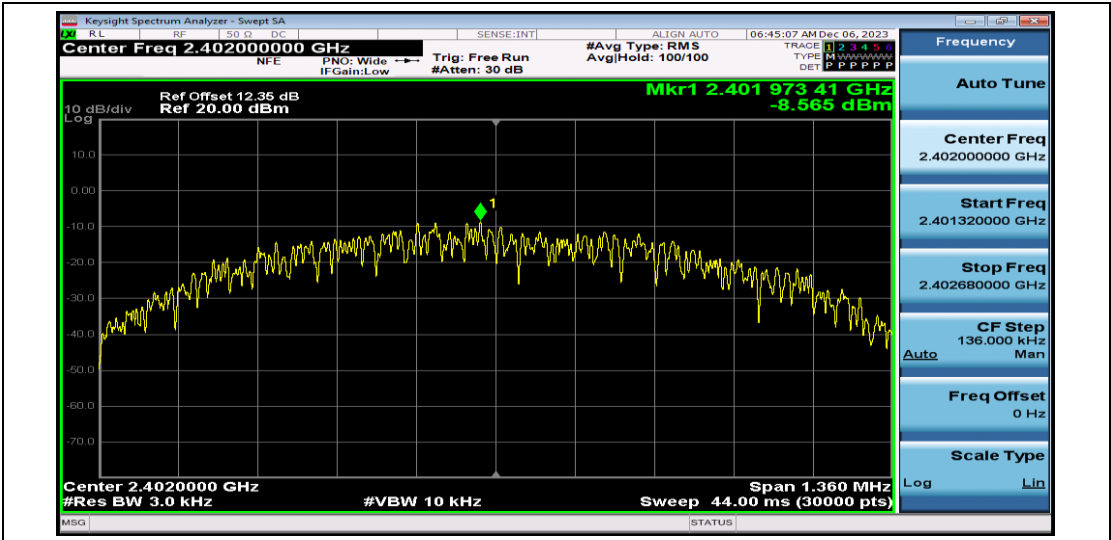


## Appendix A: Maximum power spectral density

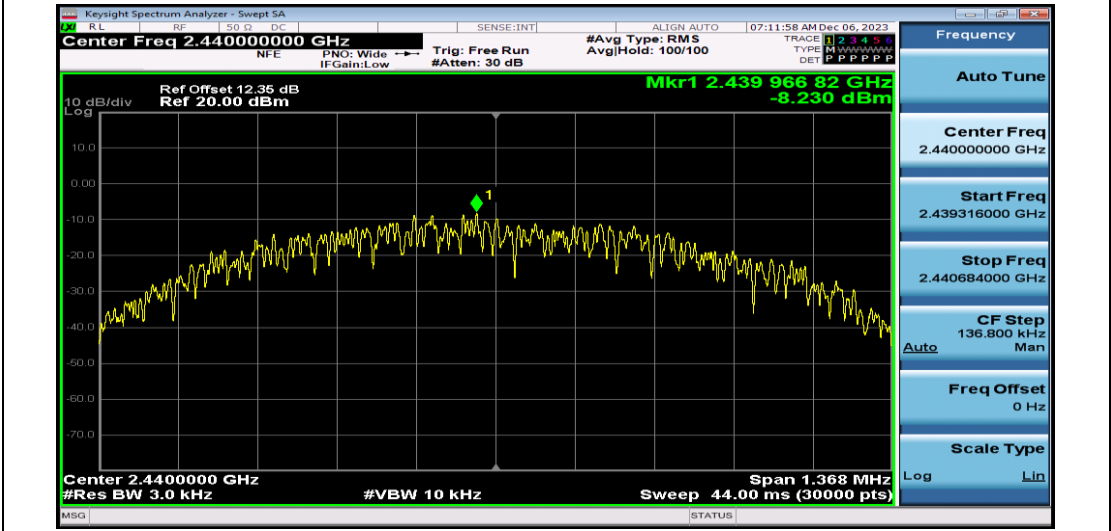
### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant0    | 2402           | -8.57            | ≤8.00           | PASS    |
| BLE_1M   | Ant0    | 2440           | -8.23            | ≤8.00           | PASS    |
| BLE_1M   | Ant0    | 2480           | -6.72            | ≤8.00           | PASS    |
| BLE_2M   | Ant0    | 2402           | -14.11           | ≤8.00           | PASS    |
| BLE_2M   | Ant0    | 2440           | -10.66           | ≤8.00           | PASS    |
| BLE_2M   | Ant0    | 2480           | -8.98            | ≤8.00           | PASS    |

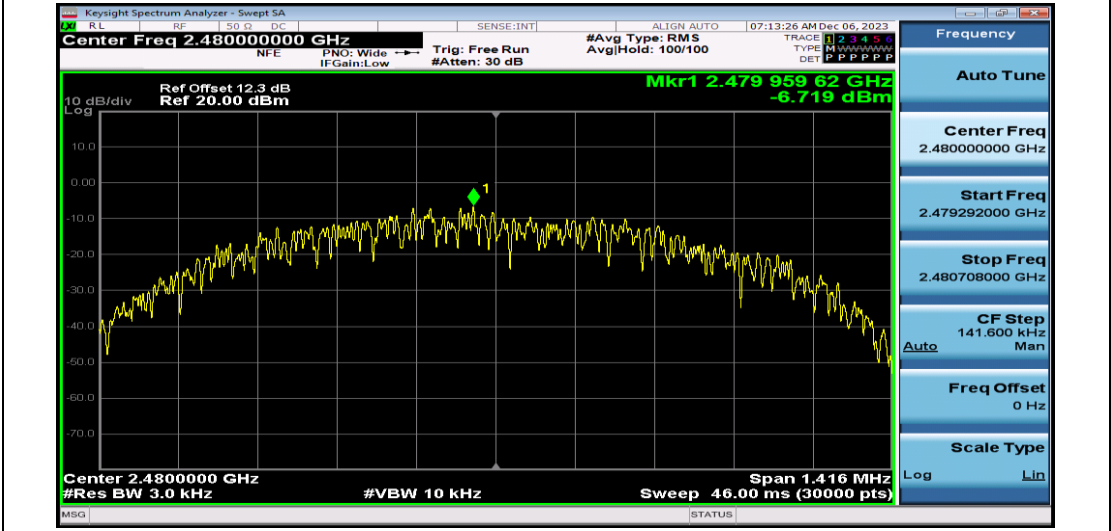
Test Graphs



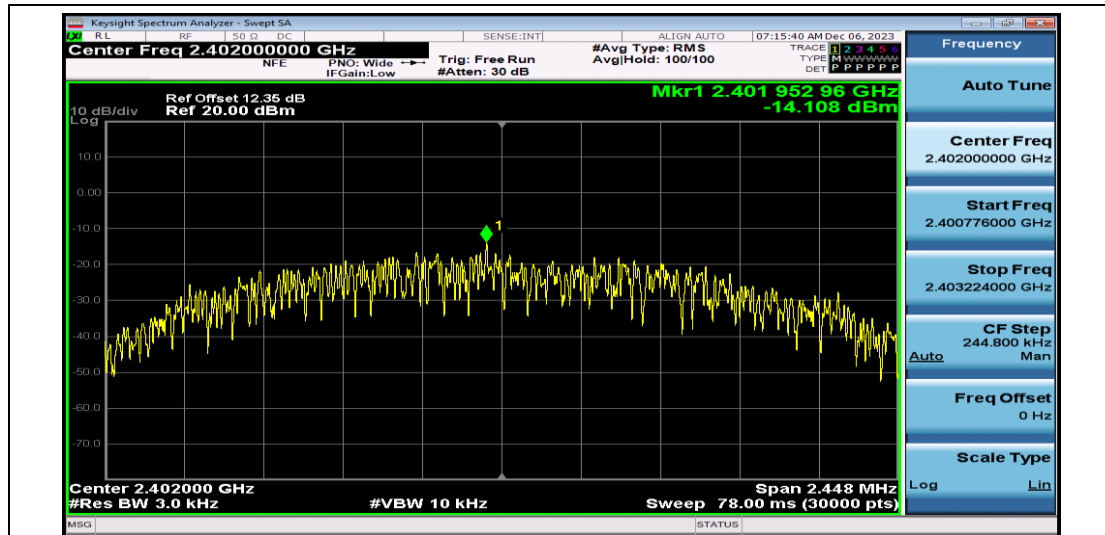
BLE\_1M-Ant0-2402



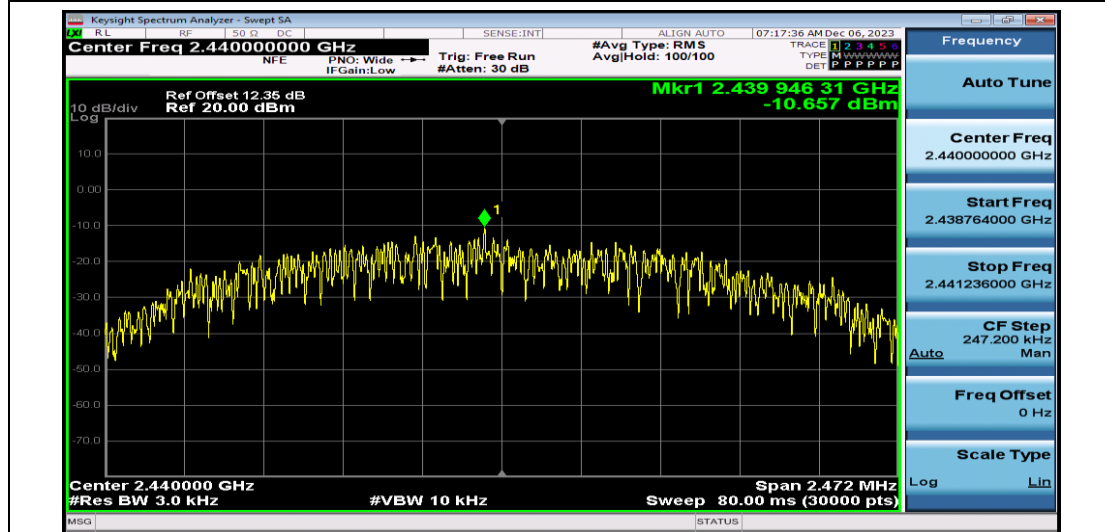
BLE\_1M-Ant0-2440



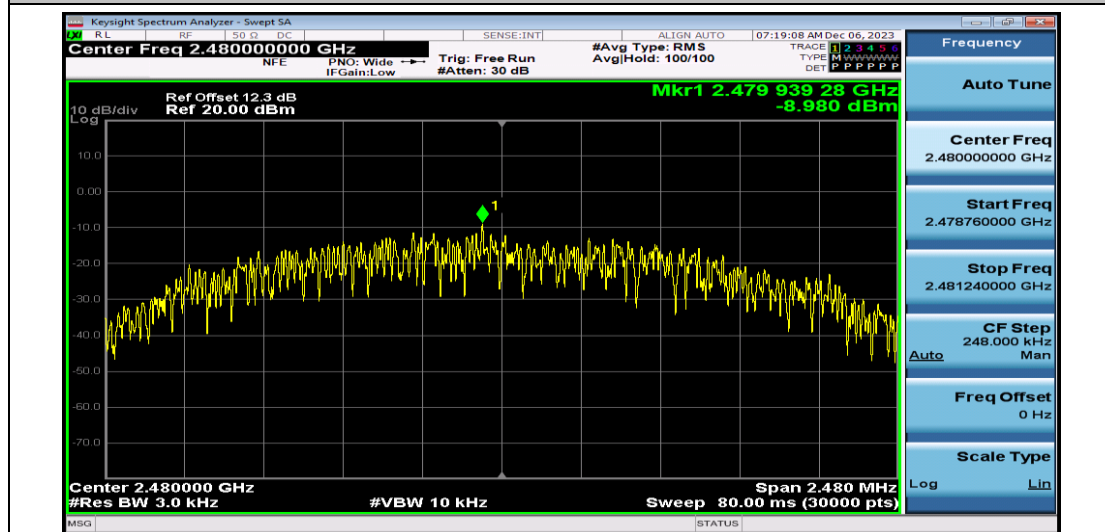
BLE\_1M-Ant0-2480



BLE\_2M-Ant0-2402



BLE\_2M-Ant0-2440



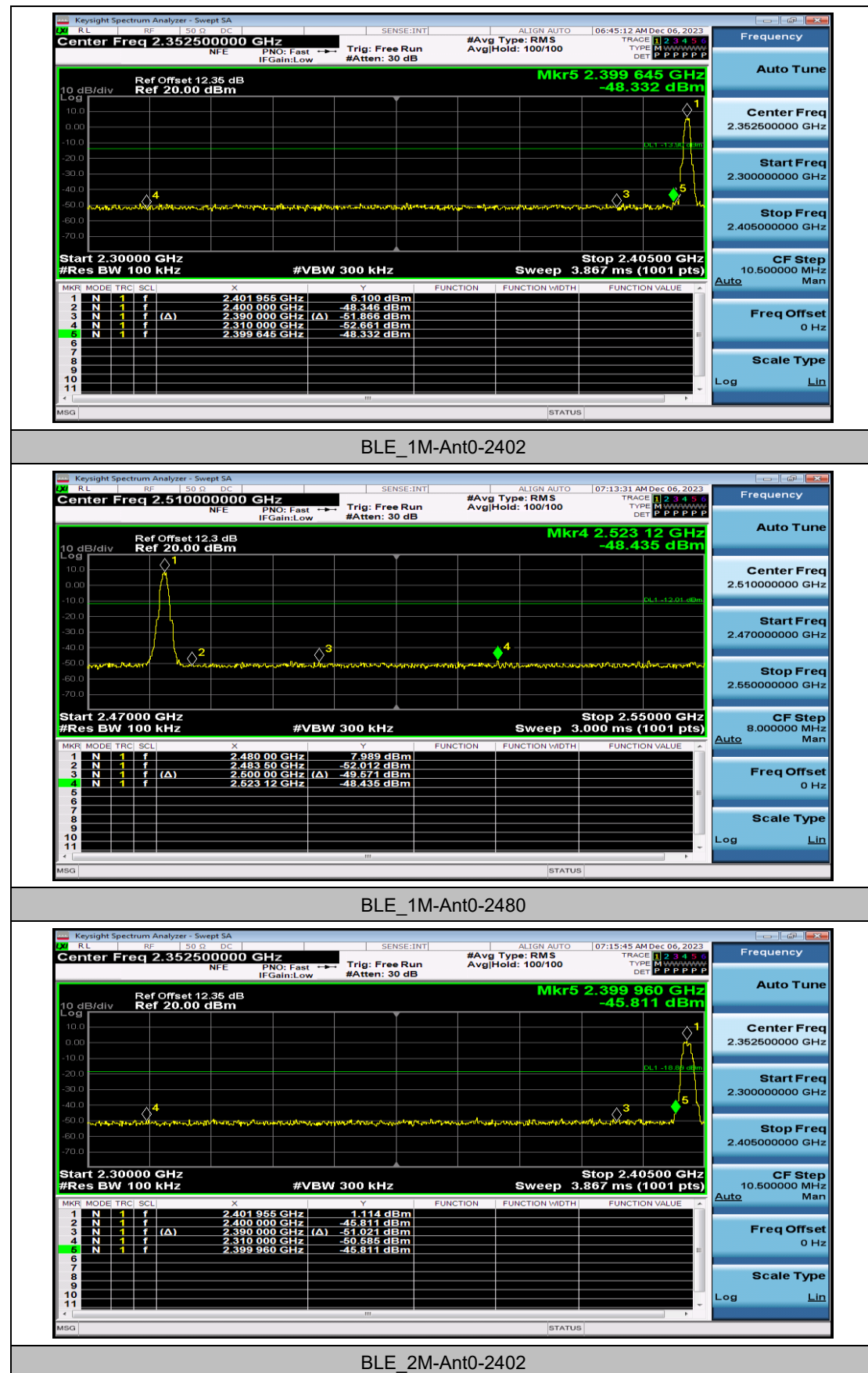
BLE\_2M-Ant0-2480

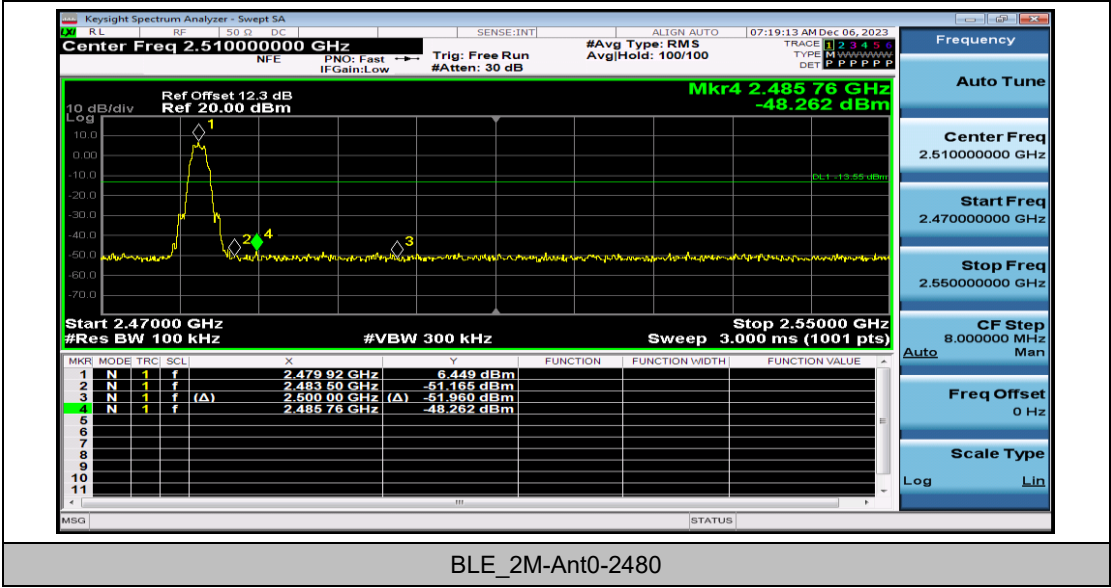
## Appendix A: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant0    | Low    | 2402           | 6.10          | -48.33      | ≤-13.9     | PASS    |
| BLE_1M   | Ant0    | High   | 2480           | 7.99          | -48.44      | ≤-12.01    | PASS    |
| BLE_2M   | Ant0    | Low    | 2402           | 1.11          | -45.81      | ≤-18.89    | PASS    |
| BLE_2M   | Ant0    | High   | 2480           | 6.45          | -48.26      | ≤-13.55    | PASS    |

## Test Graphs





## Appendix G: Conducted Spurious Emission

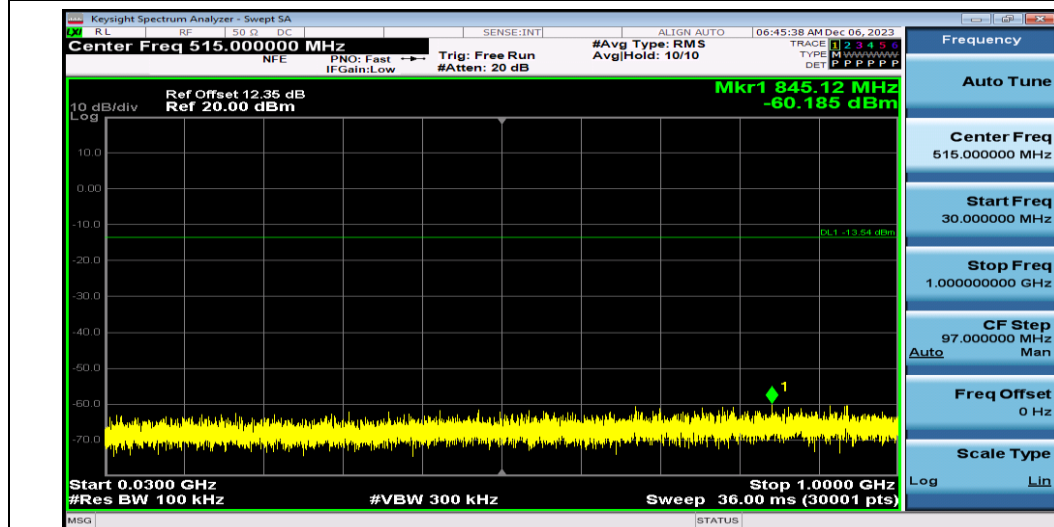
### Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|-------------|------------|---------|
| BLE_1M   | Ant0    | 2402           | 0~Reference     | 6.46           | 6.46        | ---        | PASS    |
| BLE_1M   | Ant0    | 2402           | 30~1000         | 6.46           | -60.19      | ≤-13.54    | PASS    |
| BLE_1M   | Ant0    | 2402           | 1000~26500      | 6.46           | -49.11      | ≤-13.54    | PASS    |
| BLE_1M   | Ant0    | 2440           | 0~Reference     | 6.87           | 6.87        | ---        | PASS    |
| BLE_1M   | Ant0    | 2440           | 30~1000         | 6.87           | -59.12      | ≤-13.13    | PASS    |
| BLE_1M   | Ant0    | 2440           | 1000~26500      | 6.87           | -50.86      | ≤-13.13    | PASS    |
| BLE_1M   | Ant0    | 2480           | 0~Reference     | 8.25           | 8.25        | ---        | PASS    |
| BLE_1M   | Ant0    | 2480           | 30~1000         | 8.25           | -59.45      | ≤-11.75    | PASS    |
| BLE_1M   | Ant0    | 2480           | 1000~26500      | 8.25           | -51.94      | ≤-11.75    | PASS    |
| BLE_2M   | Ant0    | 2402           | 0~Reference     | 2.70           | 2.70        | ---        | PASS    |
| BLE_2M   | Ant0    | 2402           | 30~1000         | 2.70           | -59.75      | ≤-17.3     | PASS    |
| BLE_2M   | Ant0    | 2402           | 1000~26500      | 2.70           | -51.88      | ≤-17.3     | PASS    |
| BLE_2M   | Ant0    | 2440           | 0~Reference     | 6.04           | 6.04        | ---        | PASS    |
| BLE_2M   | Ant0    | 2440           | 30~1000         | 6.04           | -60.72      | ≤-13.96    | PASS    |
| BLE_2M   | Ant0    | 2440           | 1000~26500      | 6.04           | -52.2       | ≤-13.96    | PASS    |
| BLE_2M   | Ant0    | 2480           | 0~Reference     | 7.65           | 7.65        | ---        | PASS    |
| BLE_2M   | Ant0    | 2480           | 30~1000         | 7.65           | -60.2       | ≤-12.35    | PASS    |
| BLE_2M   | Ant0    | 2480           | 1000~26500      | 7.65           | -52.03      | ≤-12.35    | PASS    |

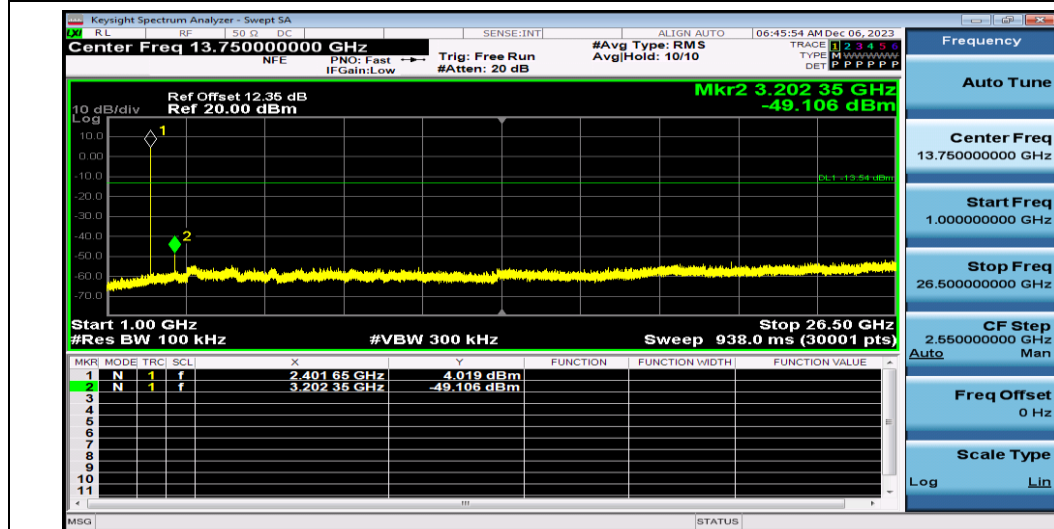
## Test Graphs



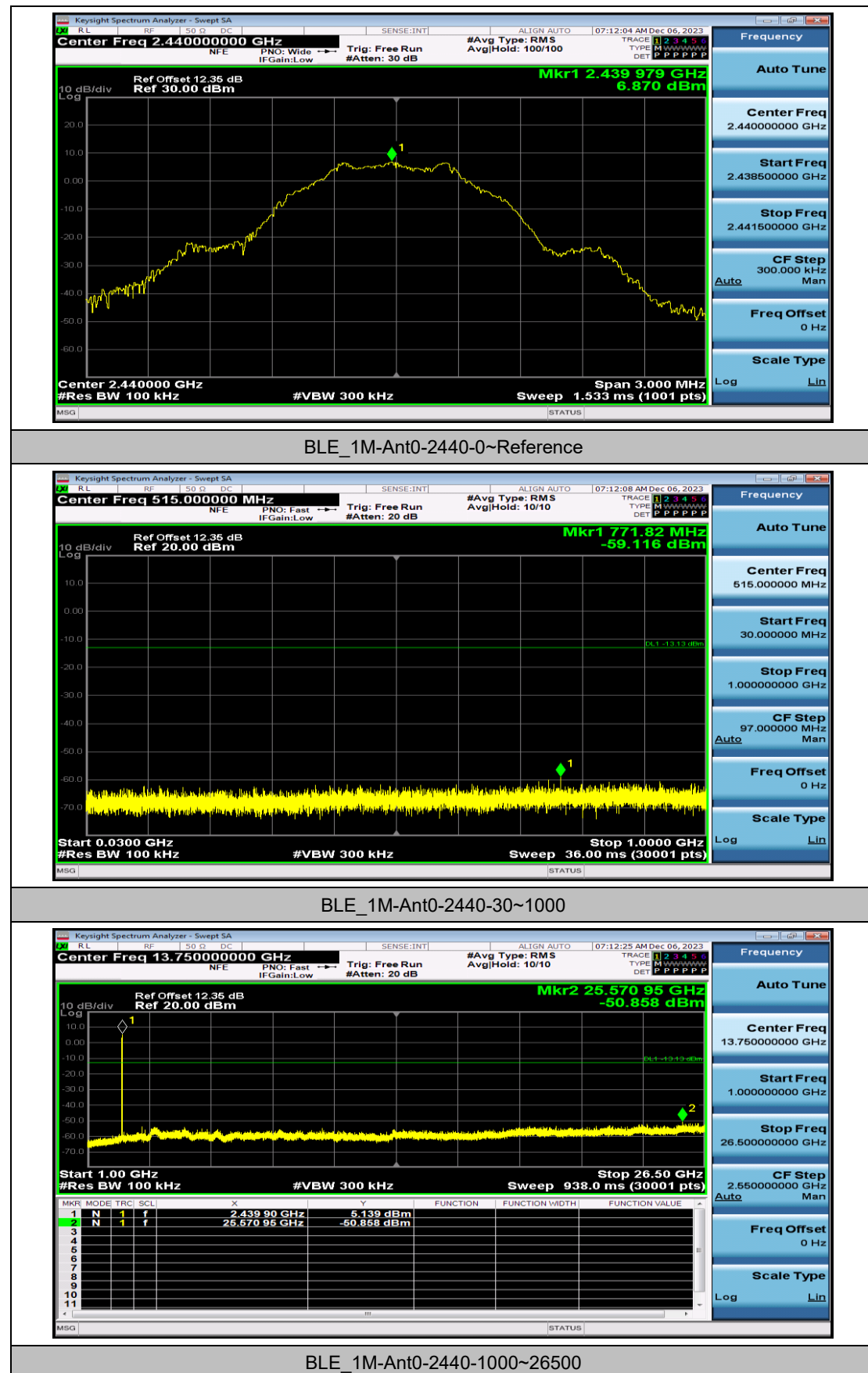
BLE\_1M-Ant0-2402-0~Reference



BLE\_1M-Ant0-2402-30~1000

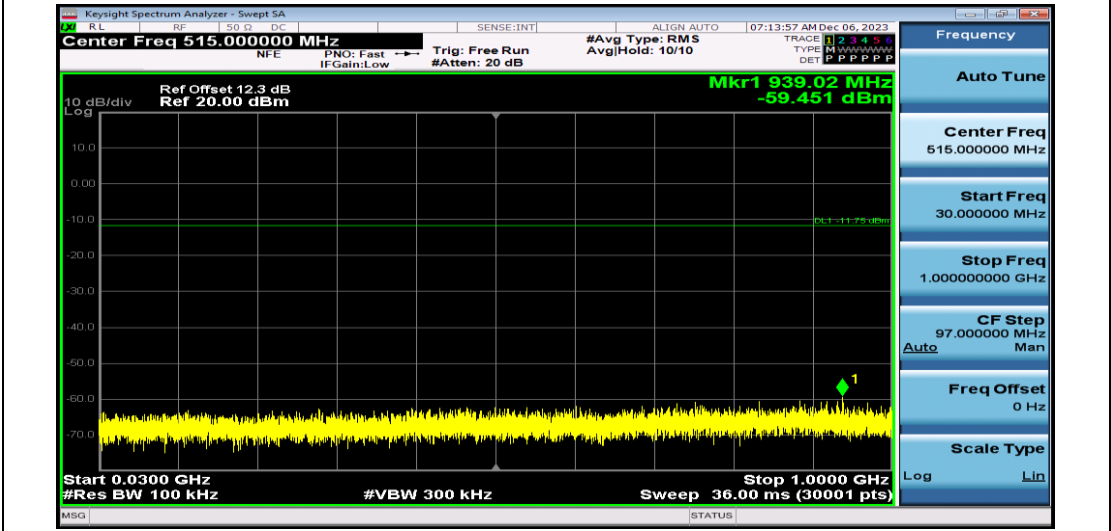


BLE\_1M-Ant0-2402-1000~26500

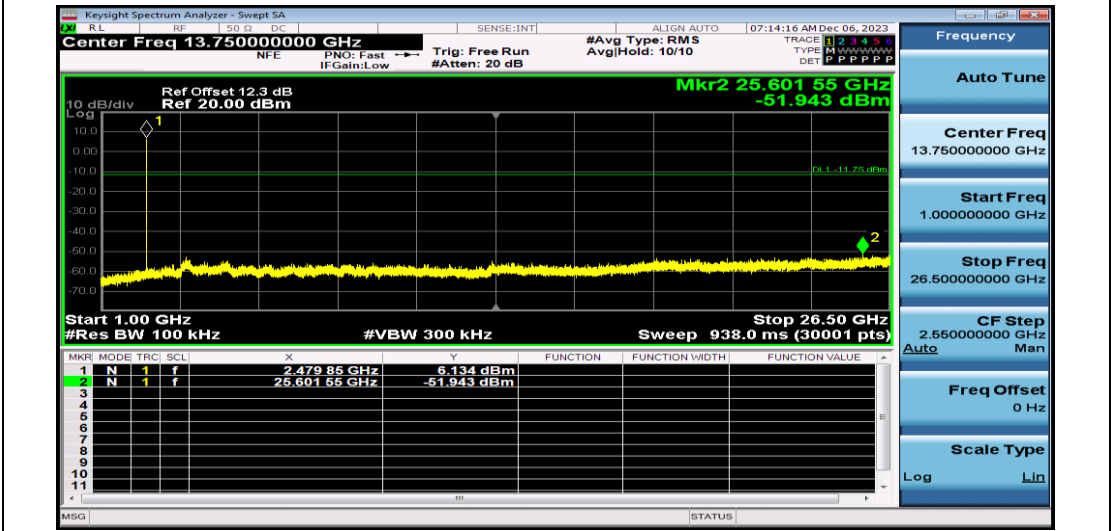




BLE\_1M-Ant0-2480-0~Reference



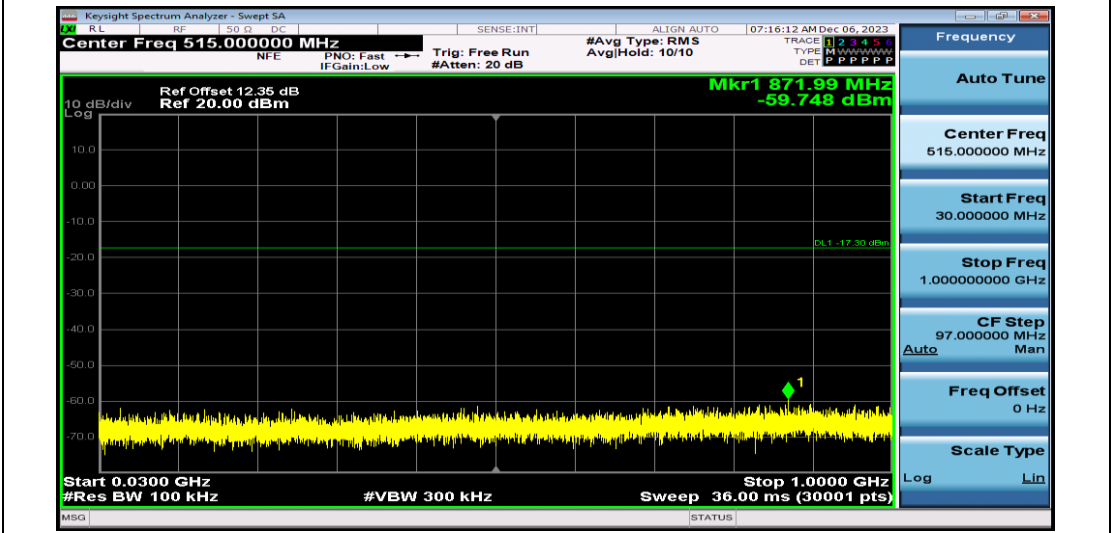
BLE\_1M-Ant0-2480-30~1000



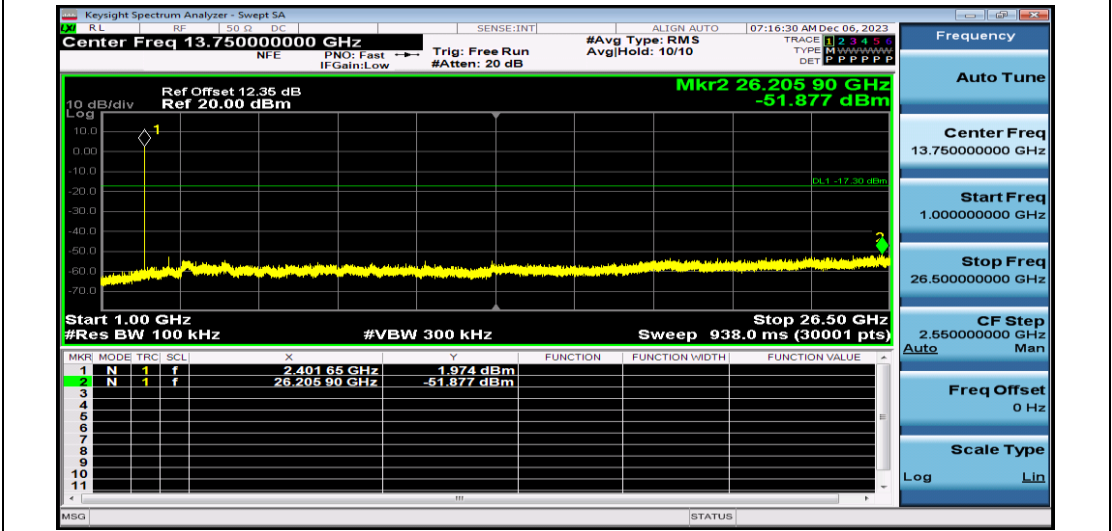
BLE\_1M-Ant0-2480-1000~26500



BLE\_2M-Ant0-2402-0~Reference



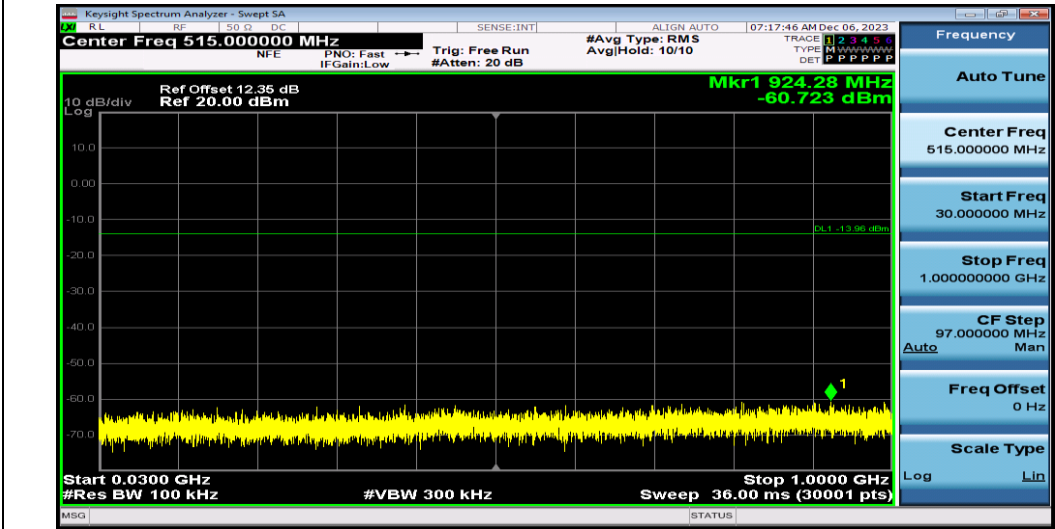
BLE\_2M-Ant0-2402-30~1000



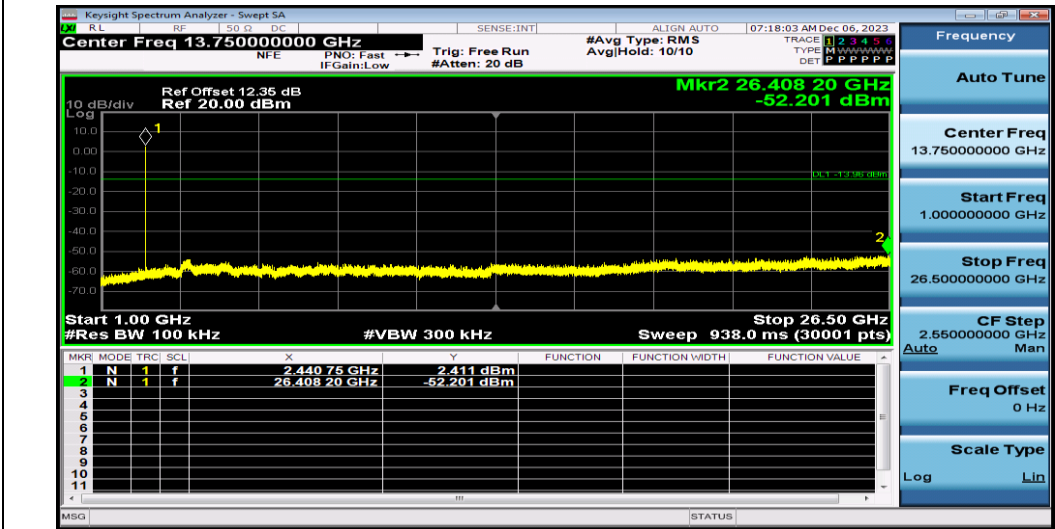
BLE\_2M-Ant0-2402-1000~26500



BLE\_2M-Ant0-2440-0~Reference



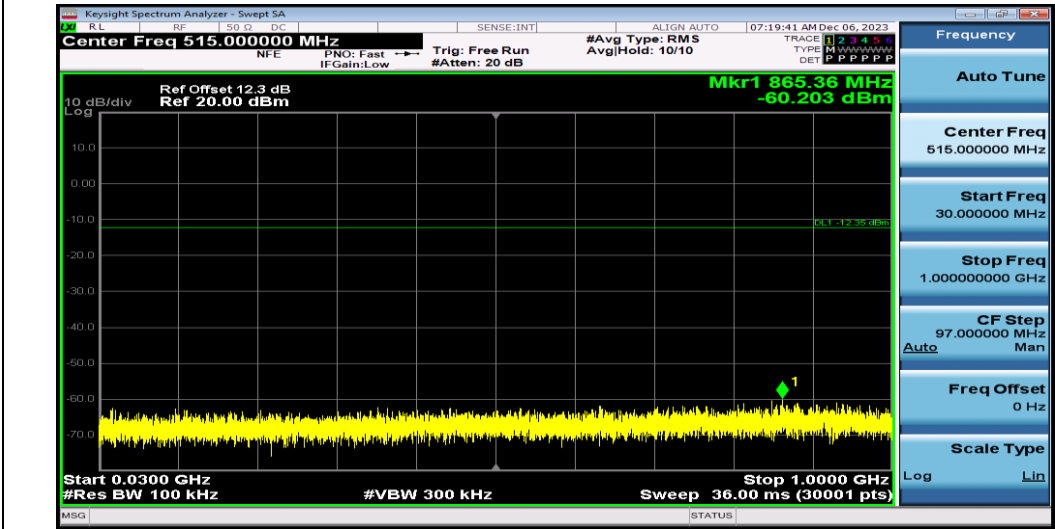
BLE\_2M-Ant0-2440-30~1000



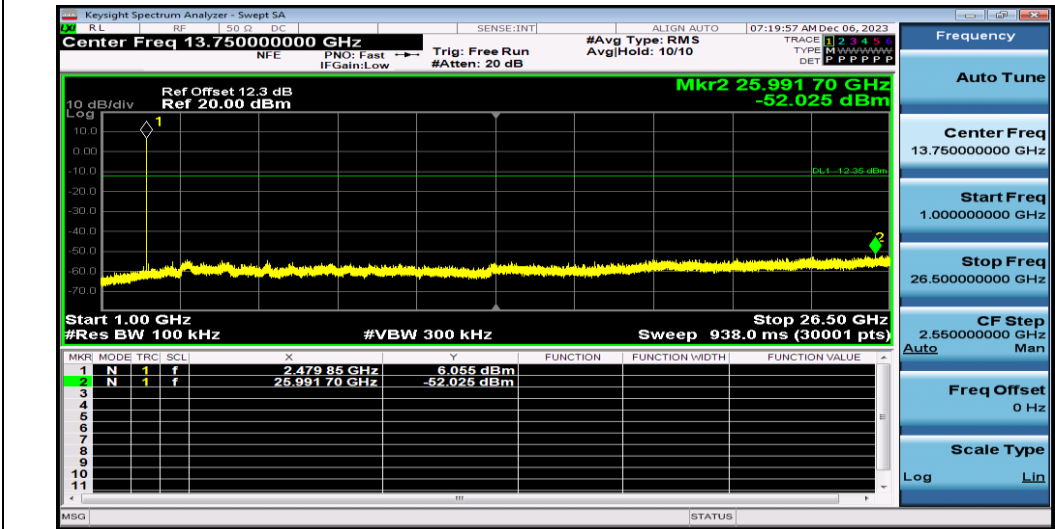
BLE\_2M-Ant0-2440-1000~26500



BLE\_2M-Ant0-2480-0~Reference



BLE\_2M-Ant0-2480-30~1000



BLE\_2M-Ant0-2480-1000~26500