

## **Appendix for BLE**

Product Name: EcoFlow RAPID Pro Power Bank (20K,  
230W, 100W Built-in Cable)

Model No: EF-HB-100

## Appendix A: DTS Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 0.688        | 2401.668 | 2402.356 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2440           | 0.684        | 2439.660 | 2440.344 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2480           | 0.680        | 2479.664 | 2480.344 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2402           | 1.144        | 2401.444 | 2402.588 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2440           | 1.120        | 2439.436 | 2440.556 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2480           | 1.196        | 2479.384 | 2480.580 | 0.5        | PASS    |

## Test Graphs



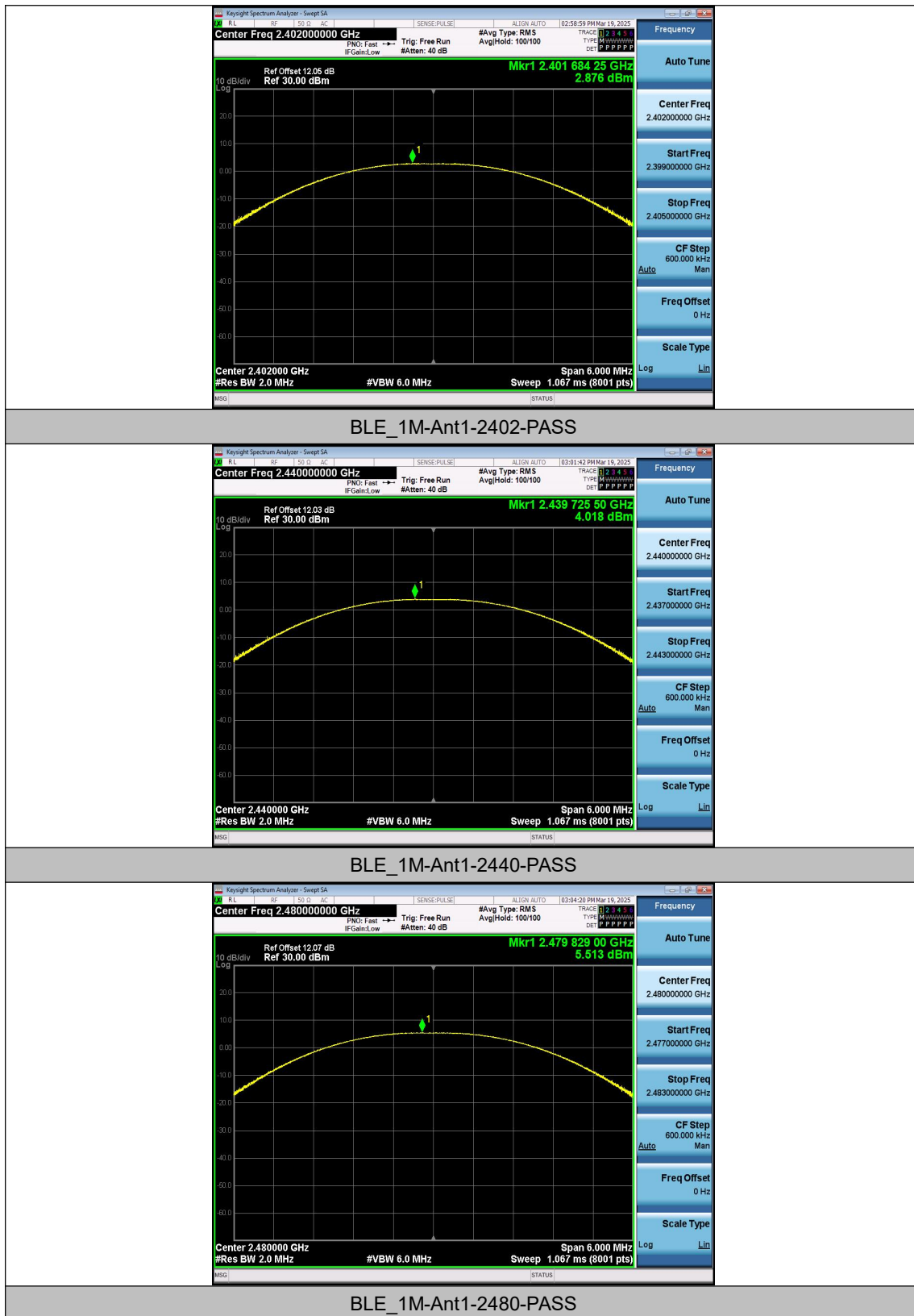


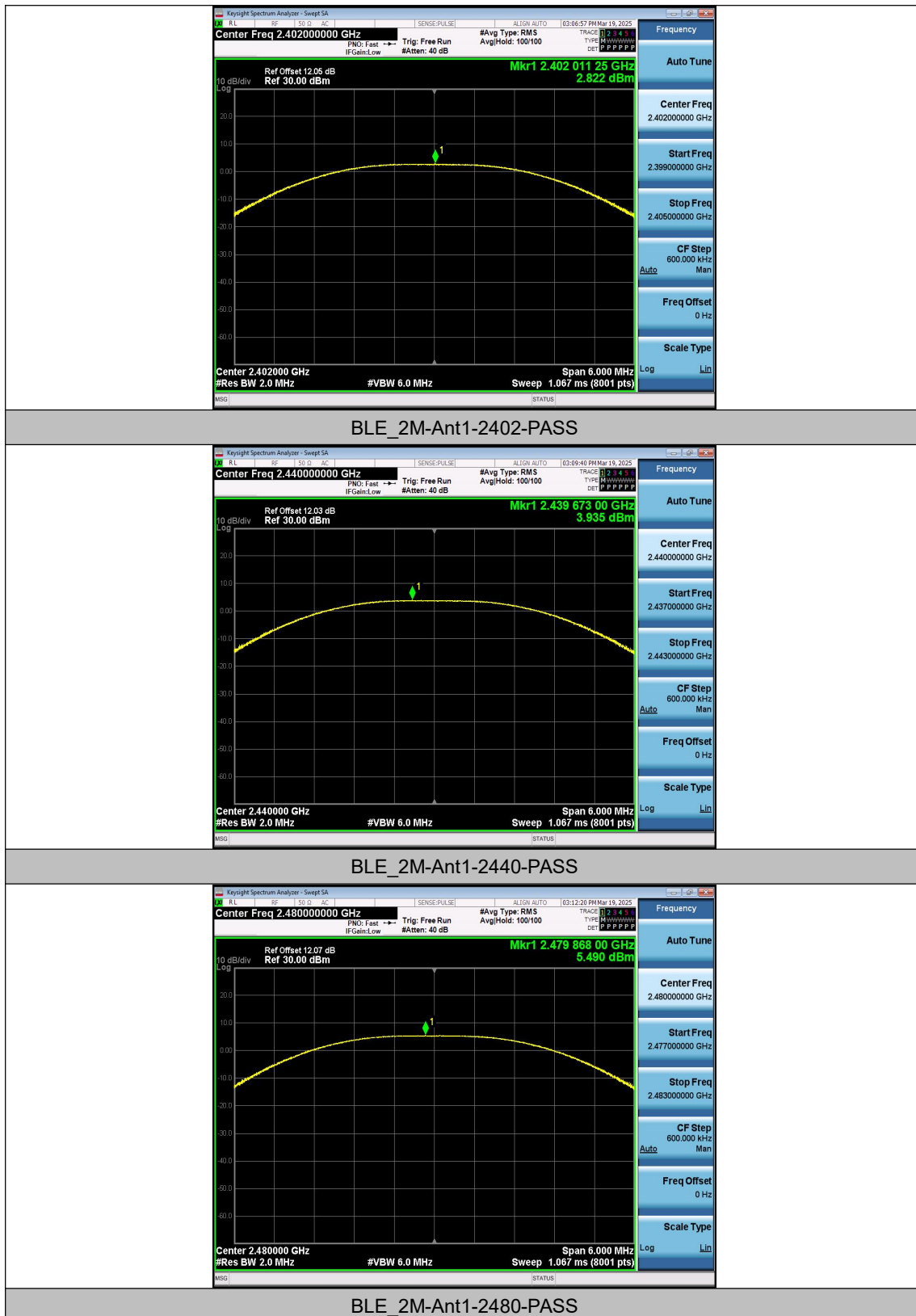
## Appendix B: Maximum conducted output power

### Test Result Peak

| TestMode | Antenna | Frequency<br>[MHz] | Conducted Peak<br>Power[dBm] | Conducted<br>Limit[dBm] | Verdict |
|----------|---------|--------------------|------------------------------|-------------------------|---------|
| BLE_1M   | Ant1    | 2402               | 2.88                         | ≤30                     | PASS    |
| BLE_1M   | Ant1    | 2440               | 4.02                         | ≤30                     | PASS    |
| BLE_1M   | Ant1    | 2480               | 5.51                         | ≤30                     | PASS    |
| BLE_2M   | Ant1    | 2402               | 2.82                         | ≤30                     | PASS    |
| BLE_2M   | Ant1    | 2440               | 3.94                         | ≤30                     | PASS    |
| BLE_2M   | Ant1    | 2480               | 5.49                         | ≤30                     | PASS    |

## Test Graphs Peak



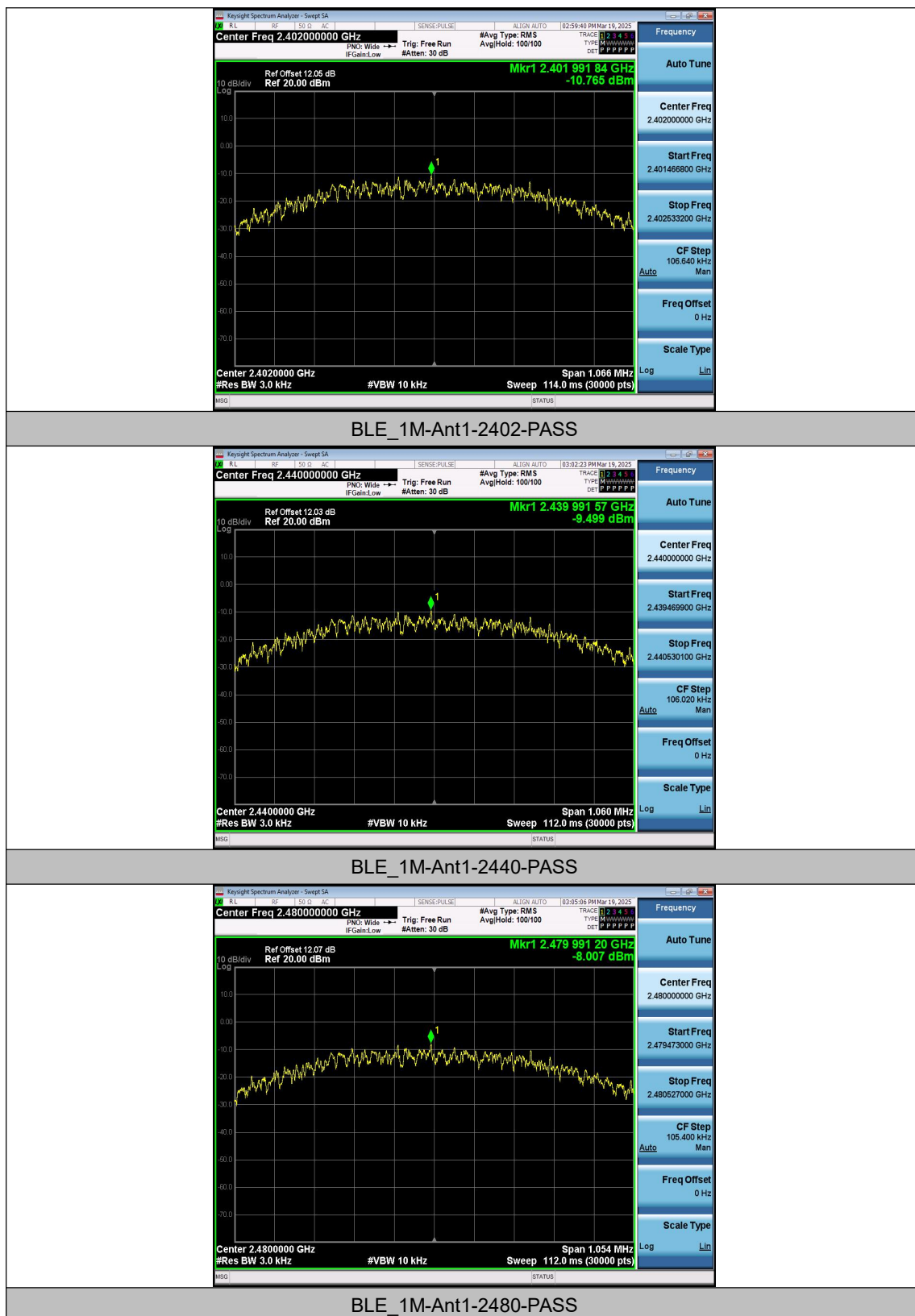


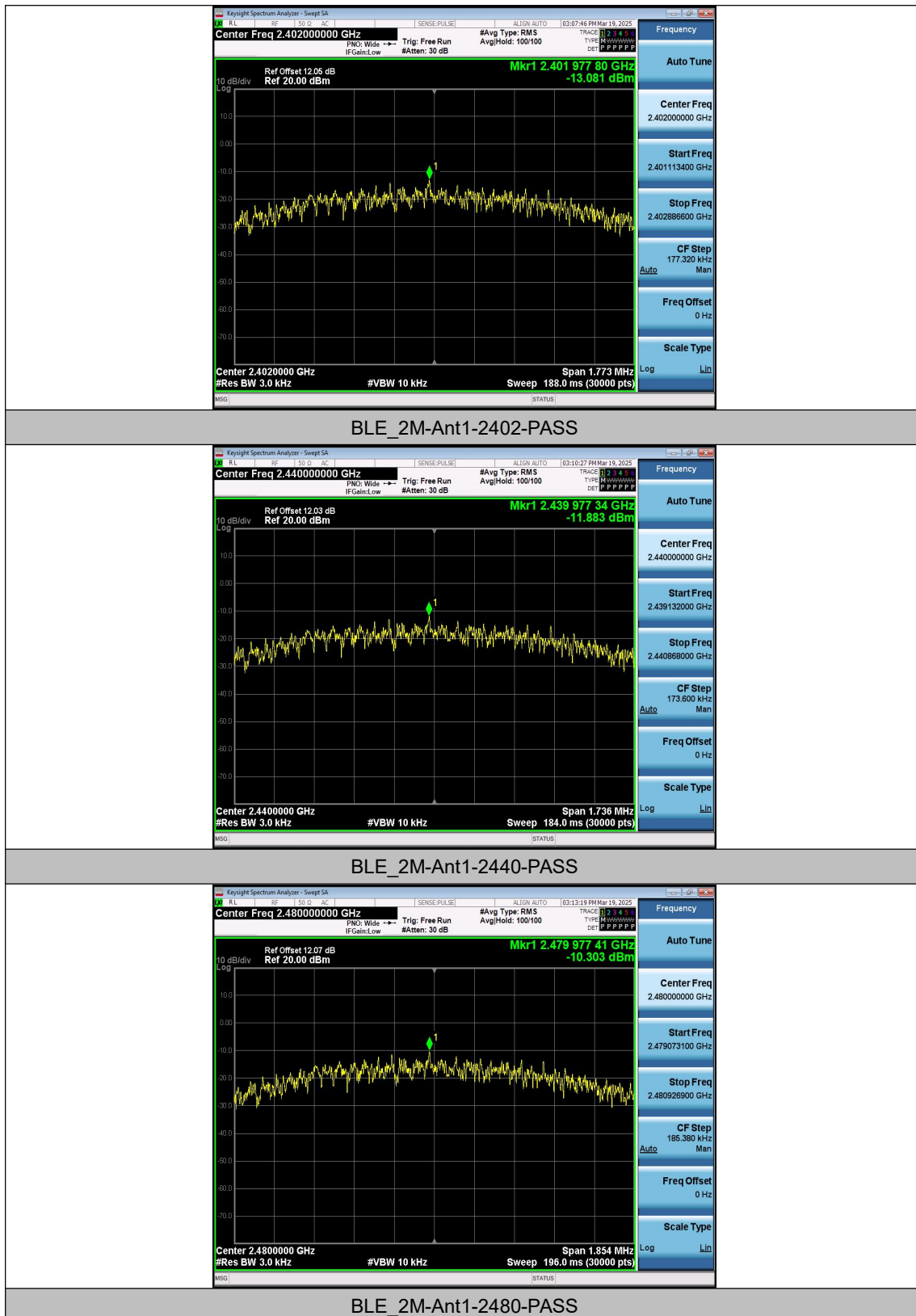
## Appendix C: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -10.77           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -9.50            | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -8.01            | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2402           | -13.08           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2440           | -11.88           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2480           | -10.30           | ≤8.00           | PASS    |

## Test Graphs



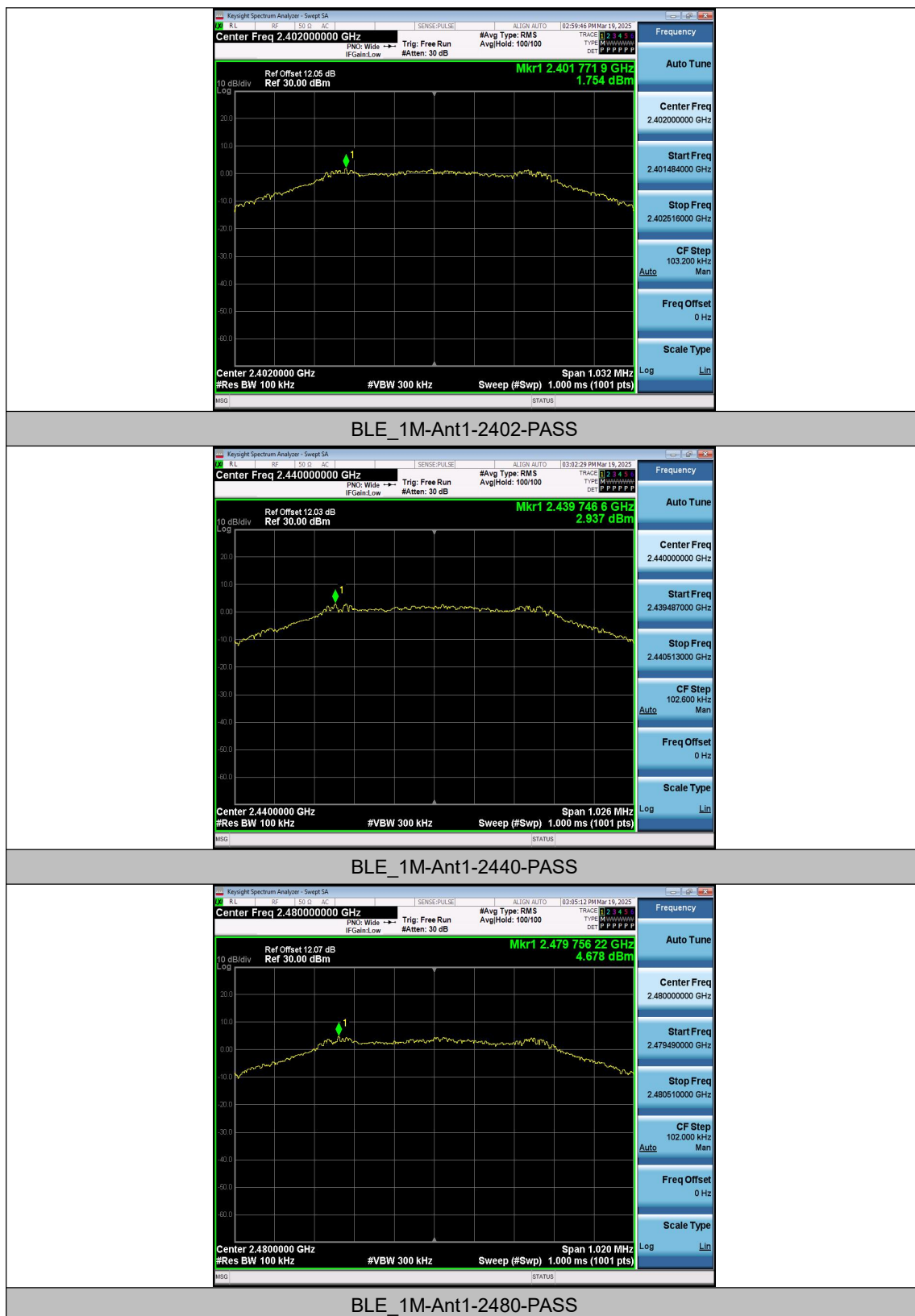


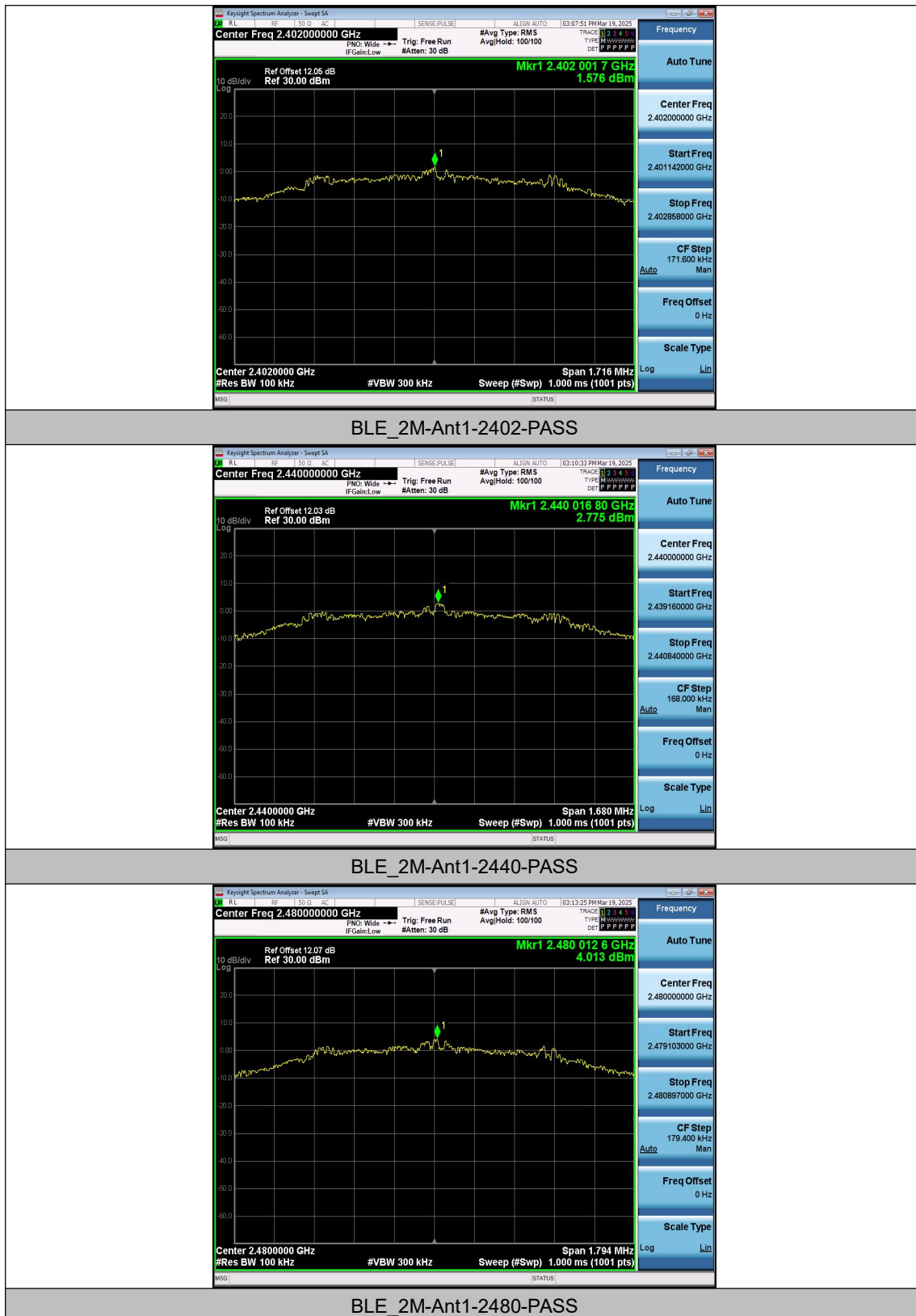
## Appendix D: Reference level measurement

### Test Result

| TestMode | Antenna | Freq(MHz) | Max.Point[MHz] | Result[dBm] |
|----------|---------|-----------|----------------|-------------|
| BLE_1M   | Ant1    | 2402      | 2401.77        | 1.75        |
| BLE_1M   | Ant1    | 2440      | 2439.75        | 2.94        |
| BLE_1M   | Ant1    | 2480      | 2479.76        | 4.68        |
| BLE_2M   | Ant1    | 2402      | 2402.00        | 1.58        |
| BLE_2M   | Ant1    | 2440      | 2440.02        | 2.78        |
| BLE_2M   | Ant1    | 2480      | 2480.01        | 4.01        |

## Test Graphs



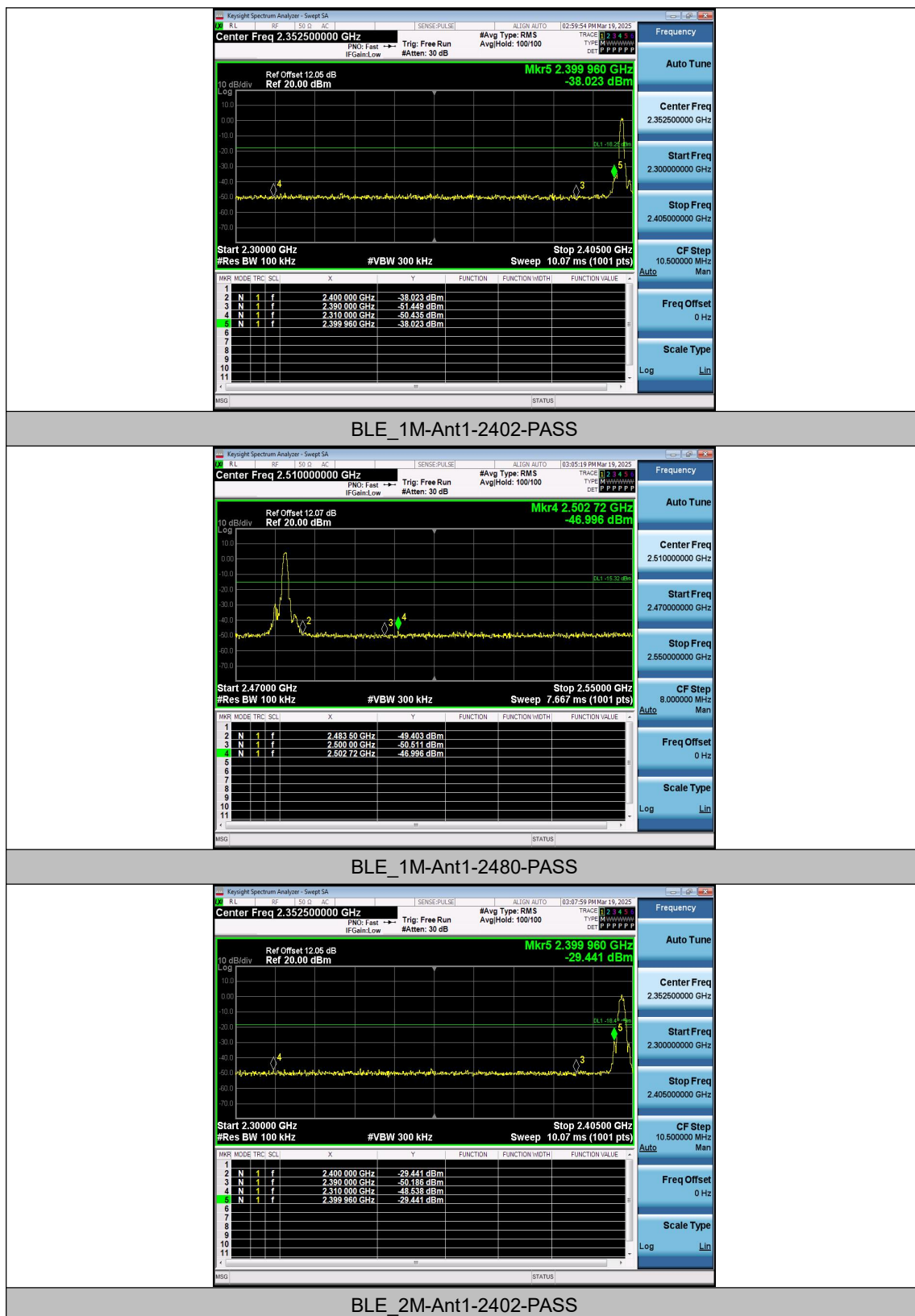


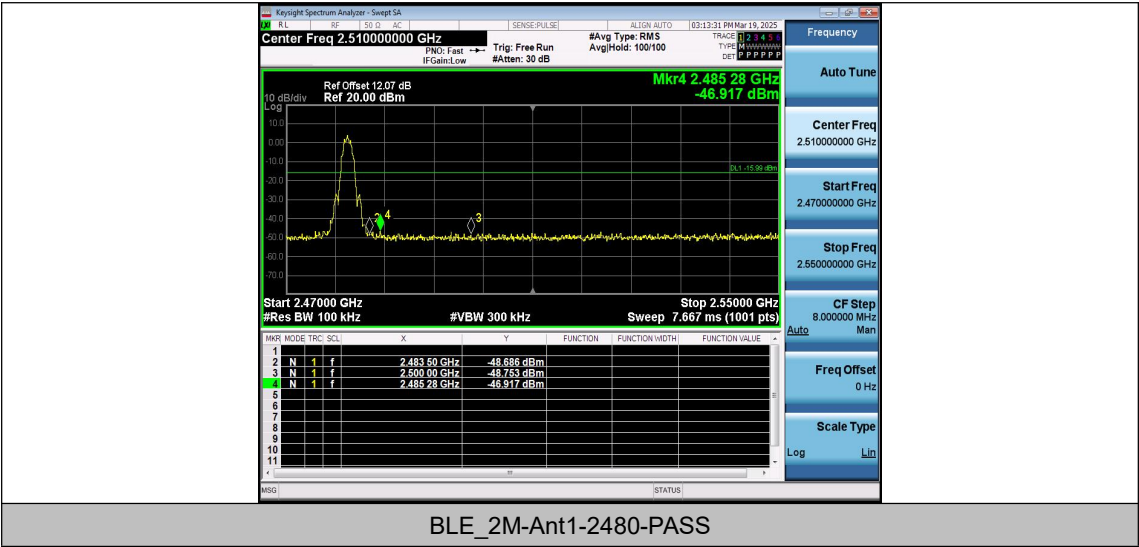
## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Frequency<br>[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|--------------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402               | 1.75          | -38.02      | ≤-18.25    | PASS    |
| BLE_1M   | Ant1    | High   | 2480               | 4.68          | -47         | ≤-15.32    | PASS    |
| BLE_2M   | Ant1    | Low    | 2402               | 1.58          | -29.44      | ≤-18.42    | PASS    |
| BLE_2M   | Ant1    | High   | 2480               | 4.01          | -46.92      | ≤-15.99    | PASS    |

## Test Graphs





BLE\_2M-Ant1-2480-PASS

## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Frequency<br>[MHz] | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------------------|--------------------|-------------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402               | 30~1000            | 1.75              | -59.64      | ≤-18.25    | PASS    |
| BLE_1M   | Ant1    | 2402               | 1000~26500         | 1.75              | -44.13      | ≤-18.25    | PASS    |
| BLE_1M   | Ant1    | 2440               | 30~1000            | 2.94              | -58.84      | ≤-17.06    | PASS    |
| BLE_1M   | Ant1    | 2440               | 1000~26500         | 2.94              | -43.88      | ≤-17.06    | PASS    |
| BLE_1M   | Ant1    | 2480               | 30~1000            | 4.68              | -58.26      | ≤-15.32    | PASS    |
| BLE_1M   | Ant1    | 2480               | 1000~26500         | 4.68              | -44.75      | ≤-15.32    | PASS    |
| BLE_2M   | Ant1    | 2402               | 30~1000            | 1.58              | -59.22      | ≤-18.42    | PASS    |
| BLE_2M   | Ant1    | 2402               | 1000~26500         | 1.58              | -44.31      | ≤-18.42    | PASS    |
| BLE_2M   | Ant1    | 2440               | 30~1000            | 2.78              | -58.79      | ≤-17.22    | PASS    |
| BLE_2M   | Ant1    | 2440               | 1000~26500         | 2.78              | -44.31      | ≤-17.22    | PASS    |
| BLE_2M   | Ant1    | 2480               | 30~1000            | 4.01              | -59.09      | ≤-15.99    | PASS    |
| BLE_2M   | Ant1    | 2480               | 1000~26500         | 4.01              | -44.53      | ≤-15.99    | PASS    |

## Test Graphs

