

## Appendix: Bluetooth LE

Contents

Appendix A: DTS Bandwidth ..... 3

    Test Result ..... 3

    Test Graphs ..... 4

Appendix B: Occupied Channel Bandwidth ..... 6

    Test Result ..... 6

    Test Graphs ..... 7

Appendix C: Maximum conducted output power ..... 9

    Test Result Peak ..... 9

    Test Graphs Peak ..... 10

Appendix D: Maximum power spectral density ..... 12

    Test Result ..... 12

    Test Graphs ..... 13

Appendix E: Band edge measurements ..... 15

    Test Result ..... 15

    Test Graphs ..... 16

Appendix F: Conducted Spurious Emission ..... 17

    Test Result ..... 17

    Test Graphs ..... 18

Appendix G: Duty Cycle ..... 23

    Test Result ..... 23

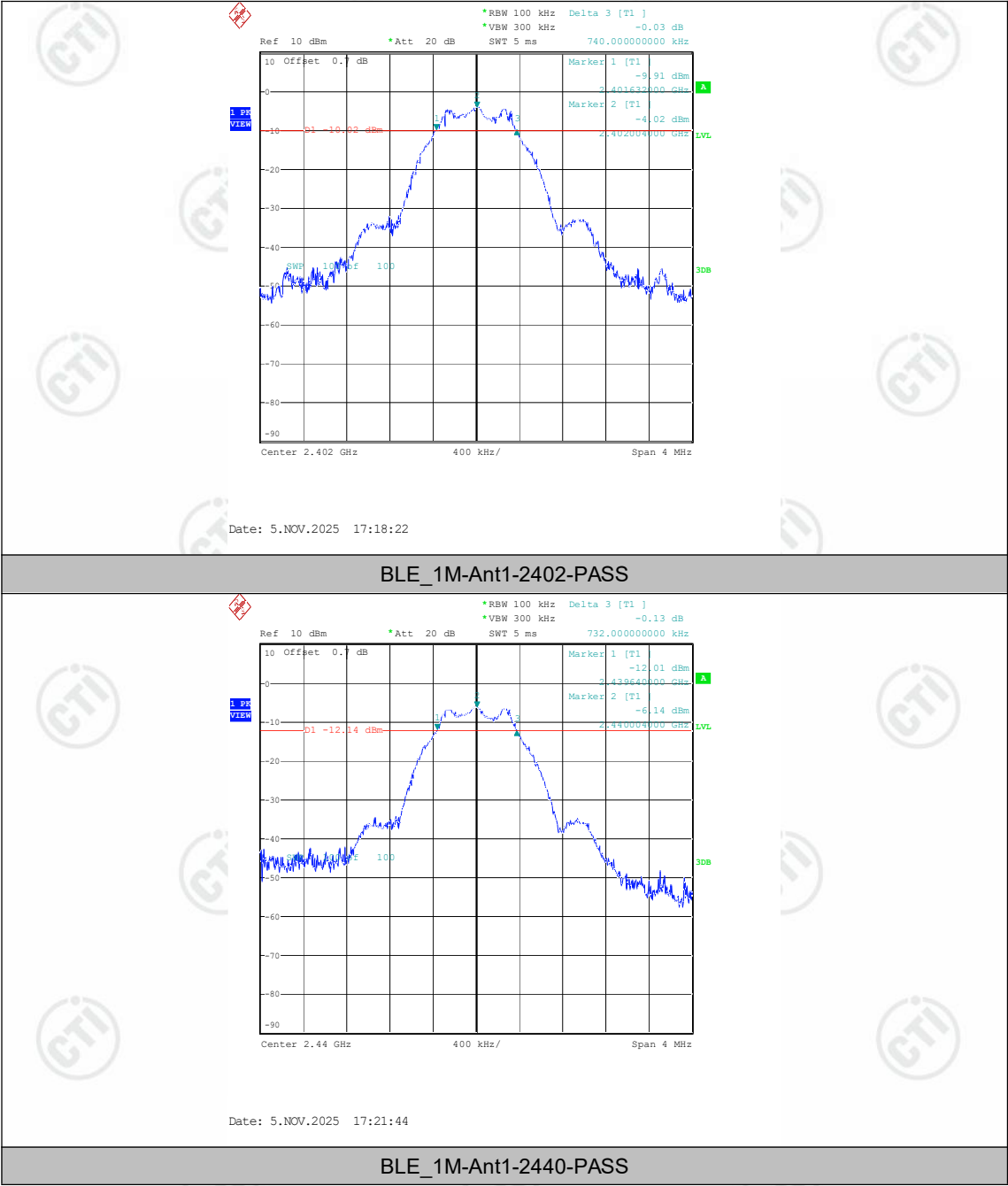
    Test Graphs ..... 24

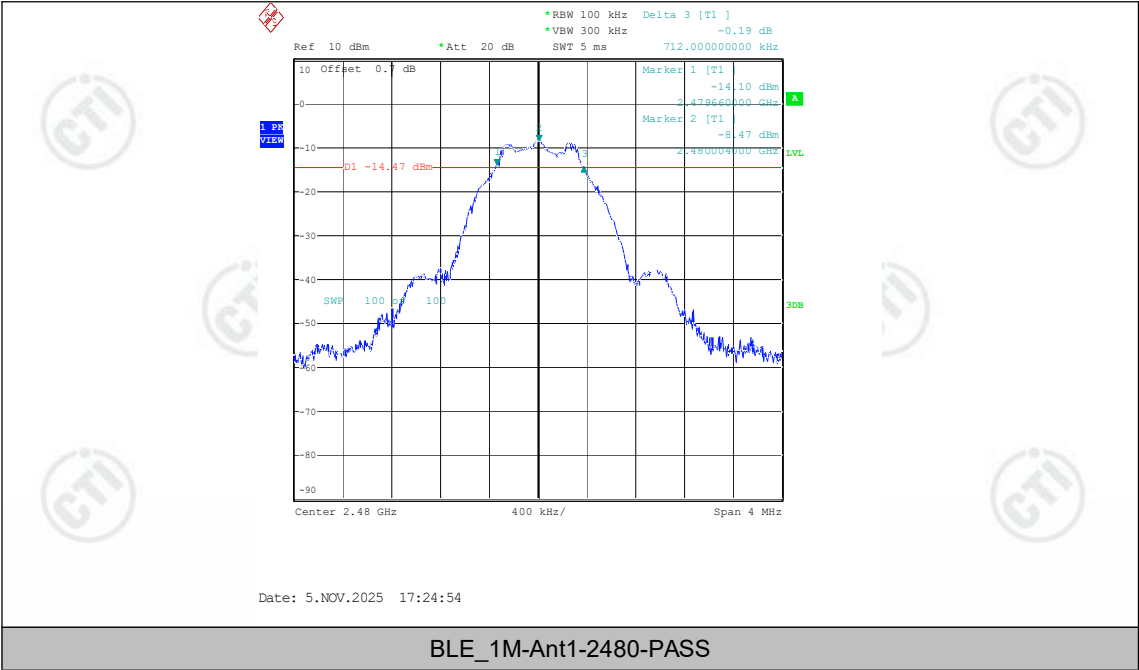
Appendix A: DTS Bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|---------|---------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 0.74         | 2401.63 | 2402.37 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2440           | 0.73         | 2439.64 | 2440.37 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2480           | 0.71         | 2479.66 | 2480.37 | 0.5        | PASS    |

Test Graphs



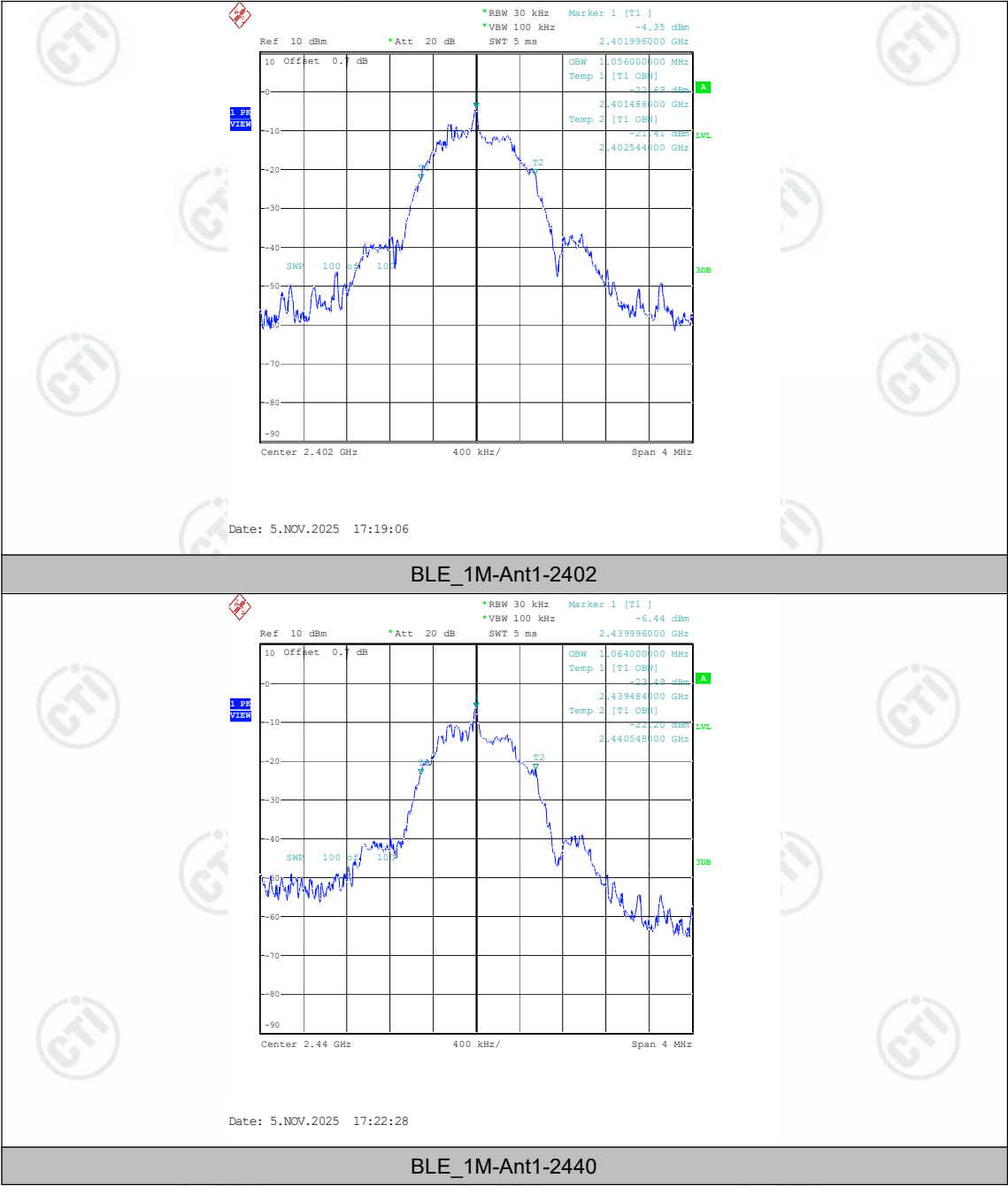


Appendix B: Occupied Channel Bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 1.0560    | ---        | ---     |
| BLE_1M   | Ant1    | 2440           | 1.0640    | ---        | ---     |
| BLE_1M   | Ant1    | 2480           | 1.0440    | ---        | ---     |

Test Graphs



Date: 5.NOV.2025 17:22:28

BLE\_1M-Ant1-2440

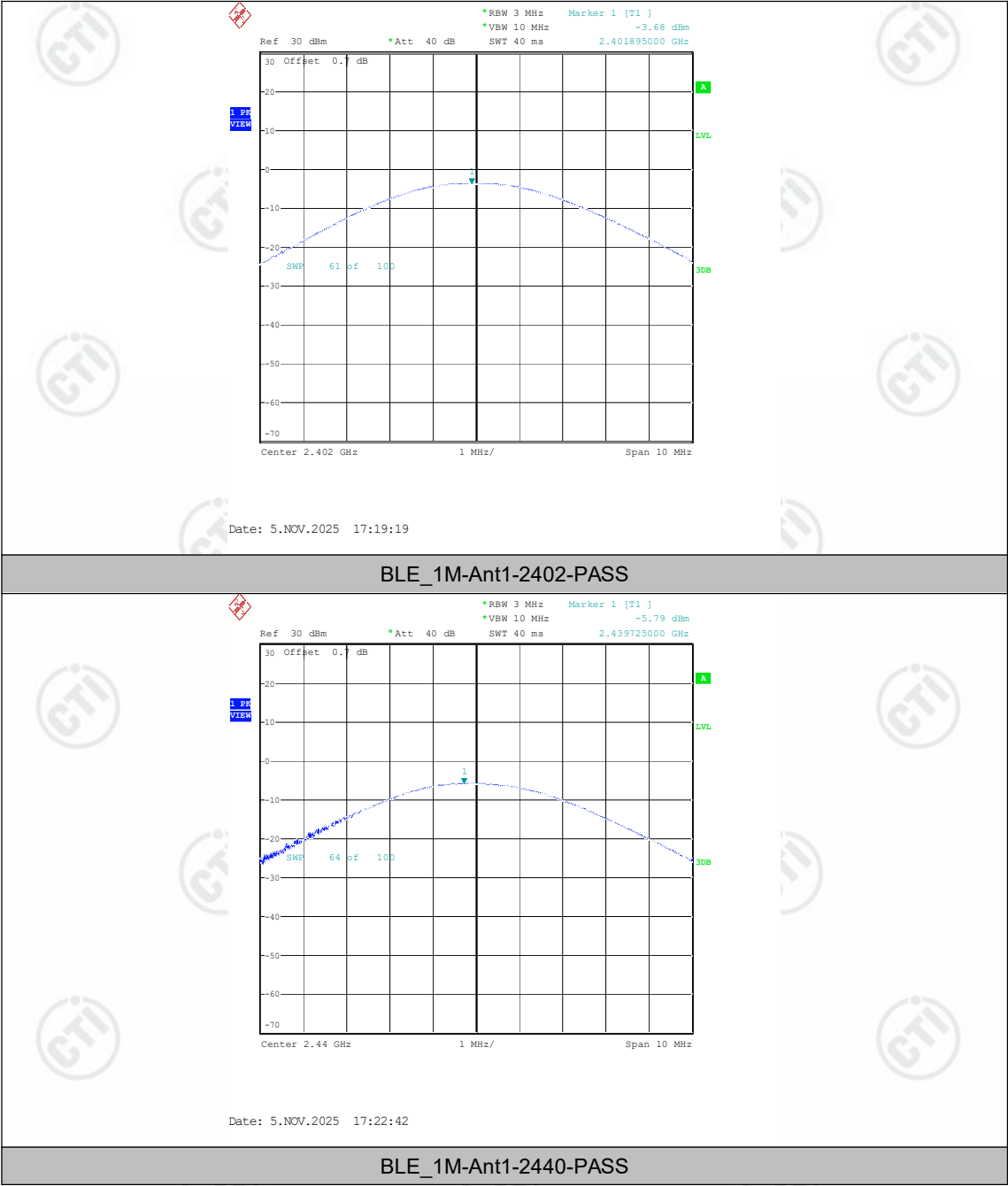


## Appendix C: Maximum conducted output power

### 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   | Ant1    | 2402           | -3.68                           | ≤30                     | -0.68     | ≤36                | PASS    |
| BLE_1M   | Ant1    | 2440           | -5.79                           | ≤30                     | -2.79     | ≤36                | PASS    |
| BLE_1M   | Ant1    | 2480           | -8.39                           | ≤30                     | -5.39     | ≤36                | PASS    |

Test Graphs Peak



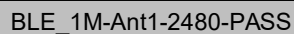


Appendix D: Maximum power spectral density

Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -16.51           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -19.00           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -21.15           | ≤8.00           | PASS    |

## BLE\_1M-Ant1-2440-PASS

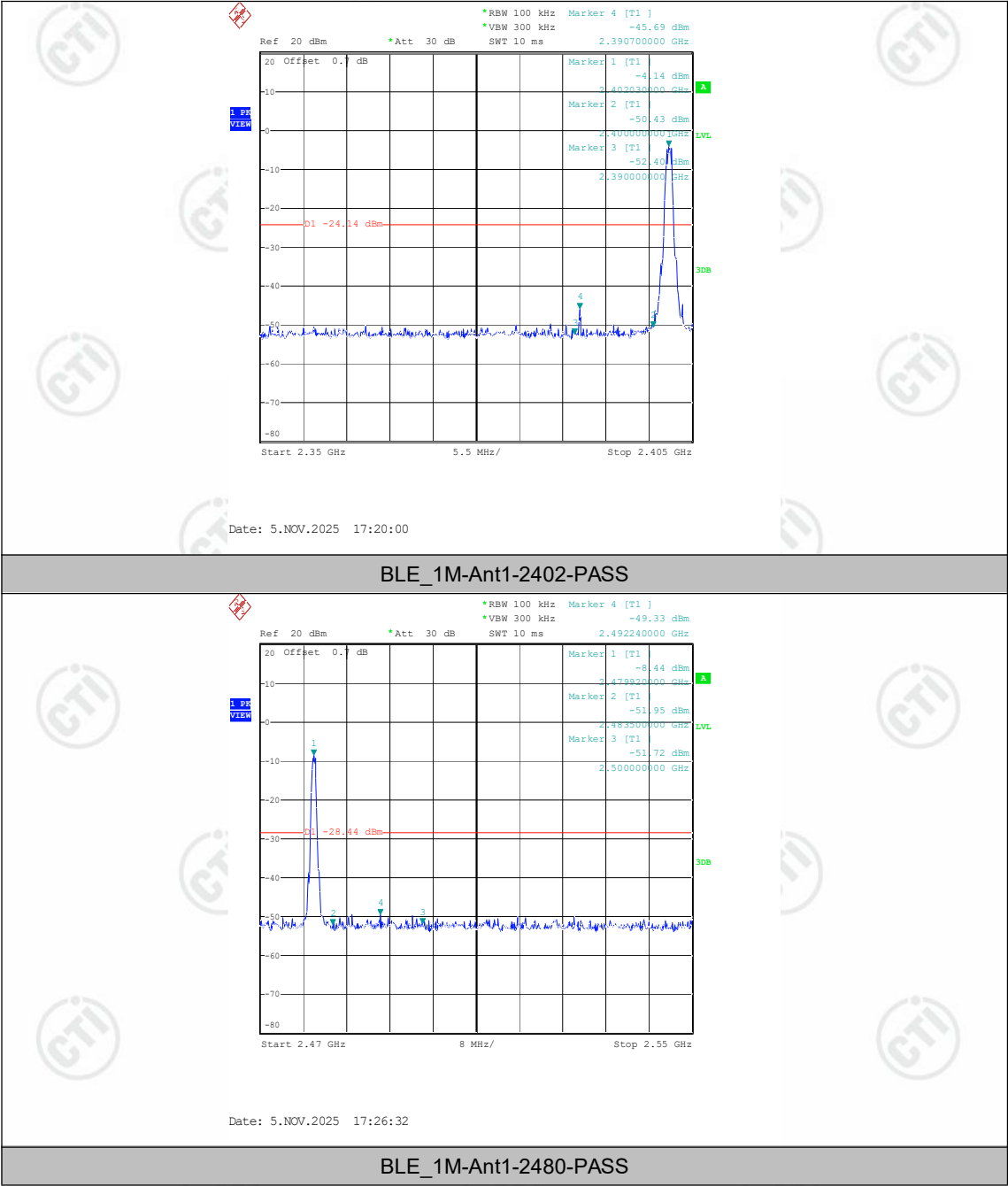


Appendix E: Band edge measurements

Test Result

| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402           | -4.14         | -45.69      | ≤-24.14    | PASS    |
| BLE_1M   | Ant1    | High   | 2480           | -8.44         | -49.33      | ≤-28.44    | PASS    |

Test Graphs

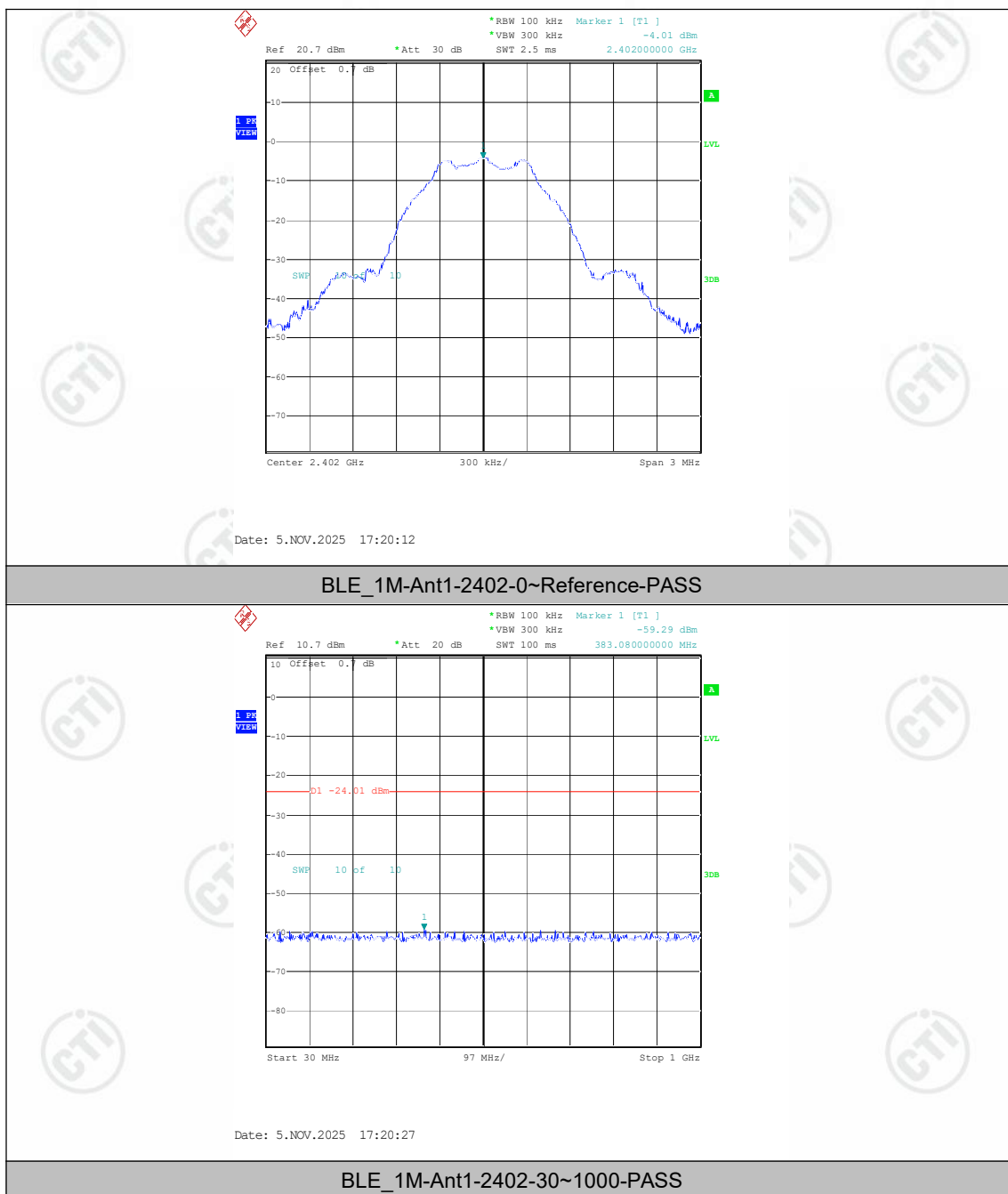


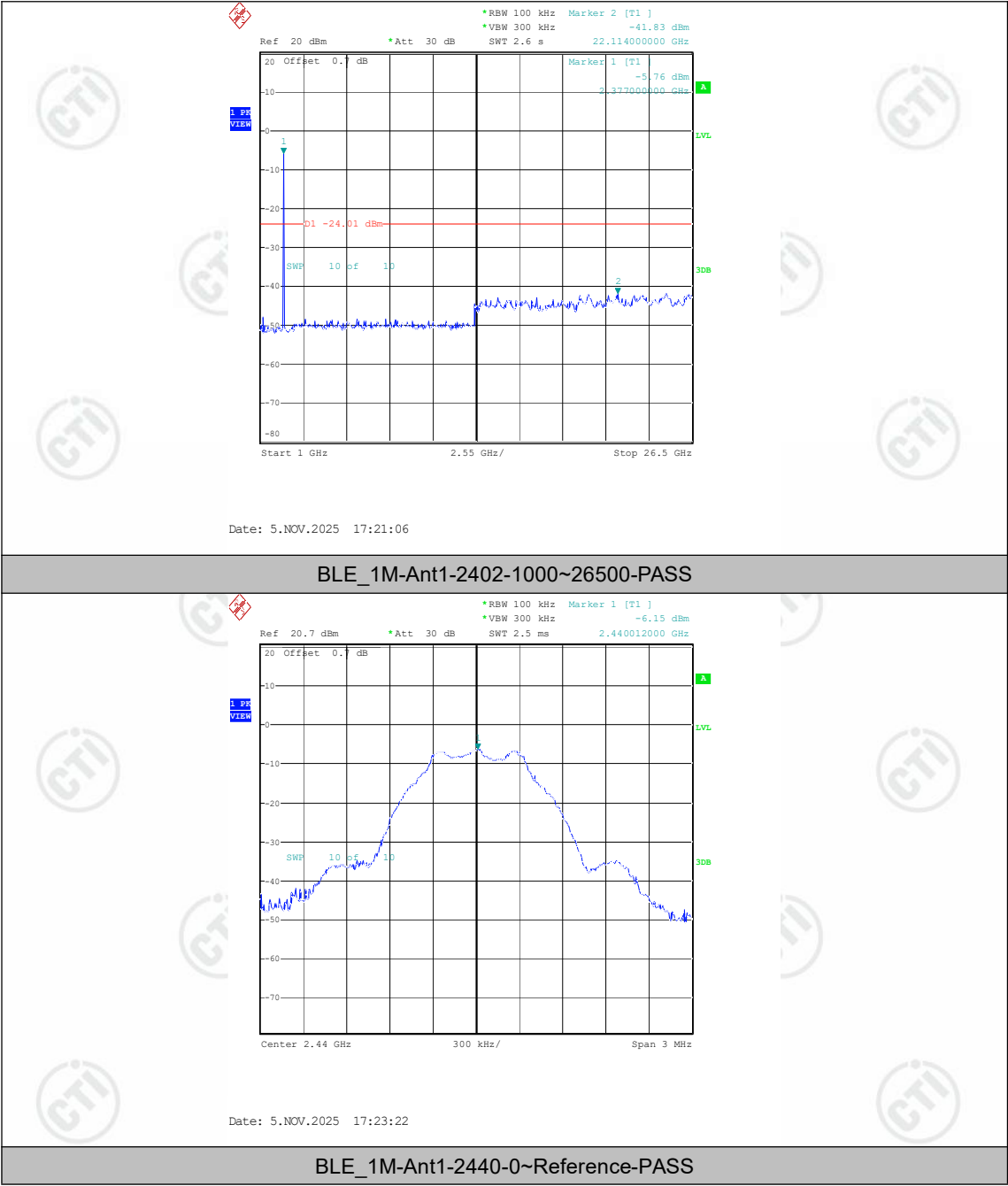
## Appendix F: Conducted Spurious Emission

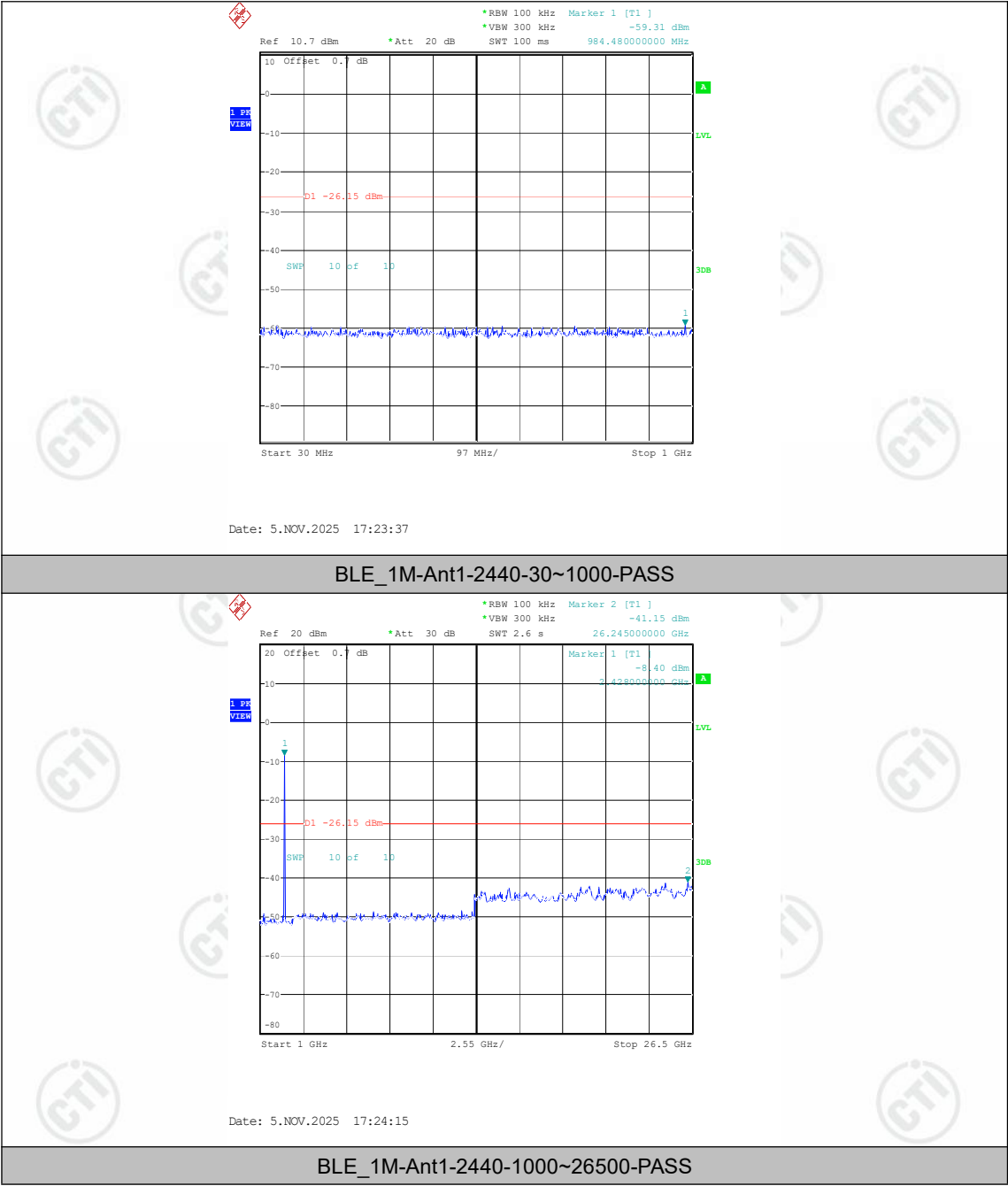
### Test Result

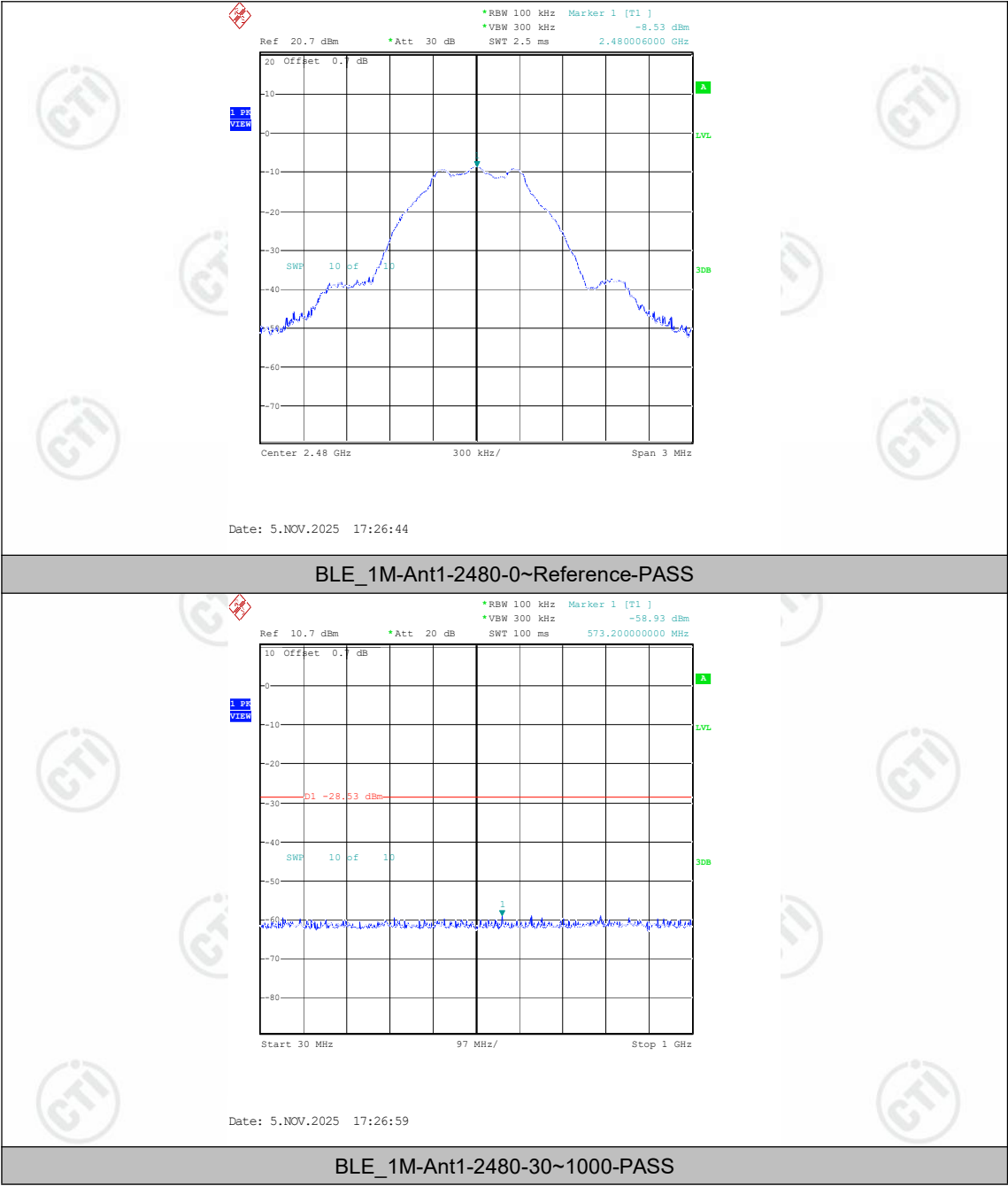
| TestMode | Antenna | Frequency [MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|-----------------|-----------------|----------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402            | 0~Reference     | -4.01          | -4.01       | ---        | PASS    |
| BLE_1M   | Ant1    | 2402            | 30~1000         | -4.01          | -59.29      | ≤-24.01    | PASS    |
| BLE_1M   | Ant1    | 2402            | 1000~26500      | -4.01          | -41.83      | ≤-24.01    | PASS    |
| BLE_1M   | Ant1    | 2440            | 0~Reference     | -6.15          | -6.15       | ---        | PASS    |
| BLE_1M   | Ant1    | 2440            | 30~1000         | -6.15          | -59.31      | ≤-26.15    | PASS    |
| BLE_1M   | Ant1    | 2440            | 1000~26500      | -6.15          | -41.15      | ≤-26.15    | PASS    |
| BLE_1M   | Ant1    | 2480            | 0~Reference     | -8.53          | -8.53       | ---        | PASS    |
| BLE_1M   | Ant1    | 2480            | 30~1000         | -8.53          | -58.93      | ≤-28.53    | PASS    |
| BLE_1M   | Ant1    | 2480            | 1000~26500      | -8.53          | -40.97      | ≤-28.53    | PASS    |

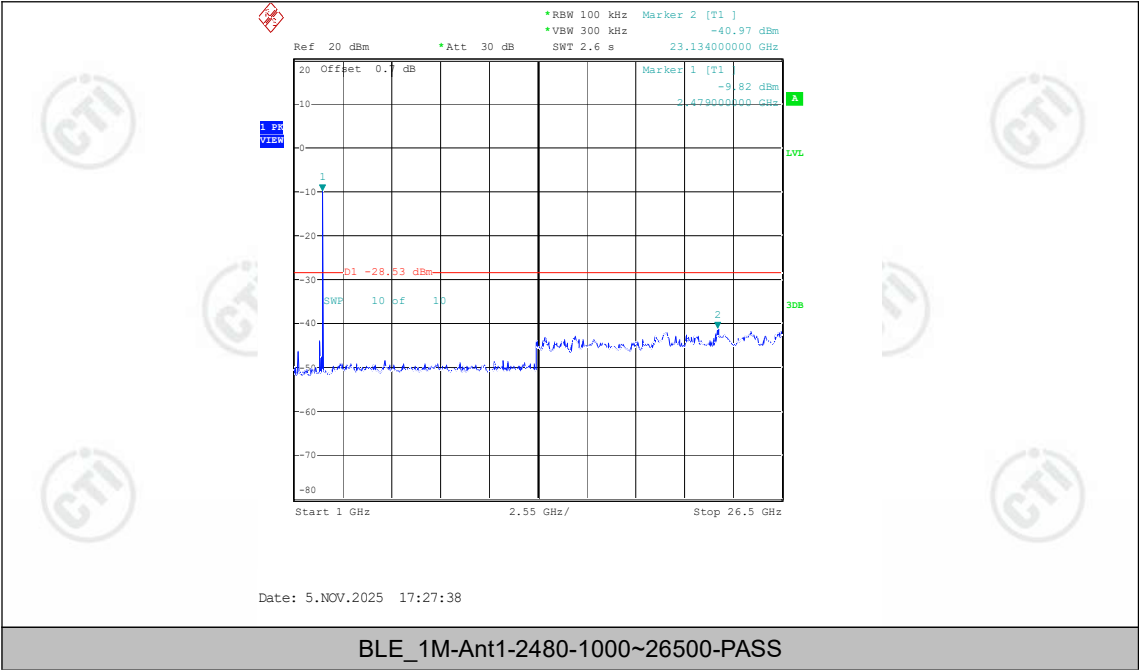
## Test Graphs











Appendix G: Duty Cycle

Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|----------|---------|----------------|--------------|-------------|----------------|-----------------------|
| BLE_1M   | Ant1    | 2402           | 0.43         | 0.62        | 69.35          | 1.59                  |
| BLE_1M   | Ant1    | 2440           | 0.43         | 0.63        | 68.25          | 1.66                  |
| BLE_1M   | Ant1    | 2480           | 0.43         | 0.63        | 68.25          | 1.66                  |

Date: 5.NOV.2025 17:18:10

Date: 5.NOV.2025 17:21:32

