

## Appendix Bluetooth LE

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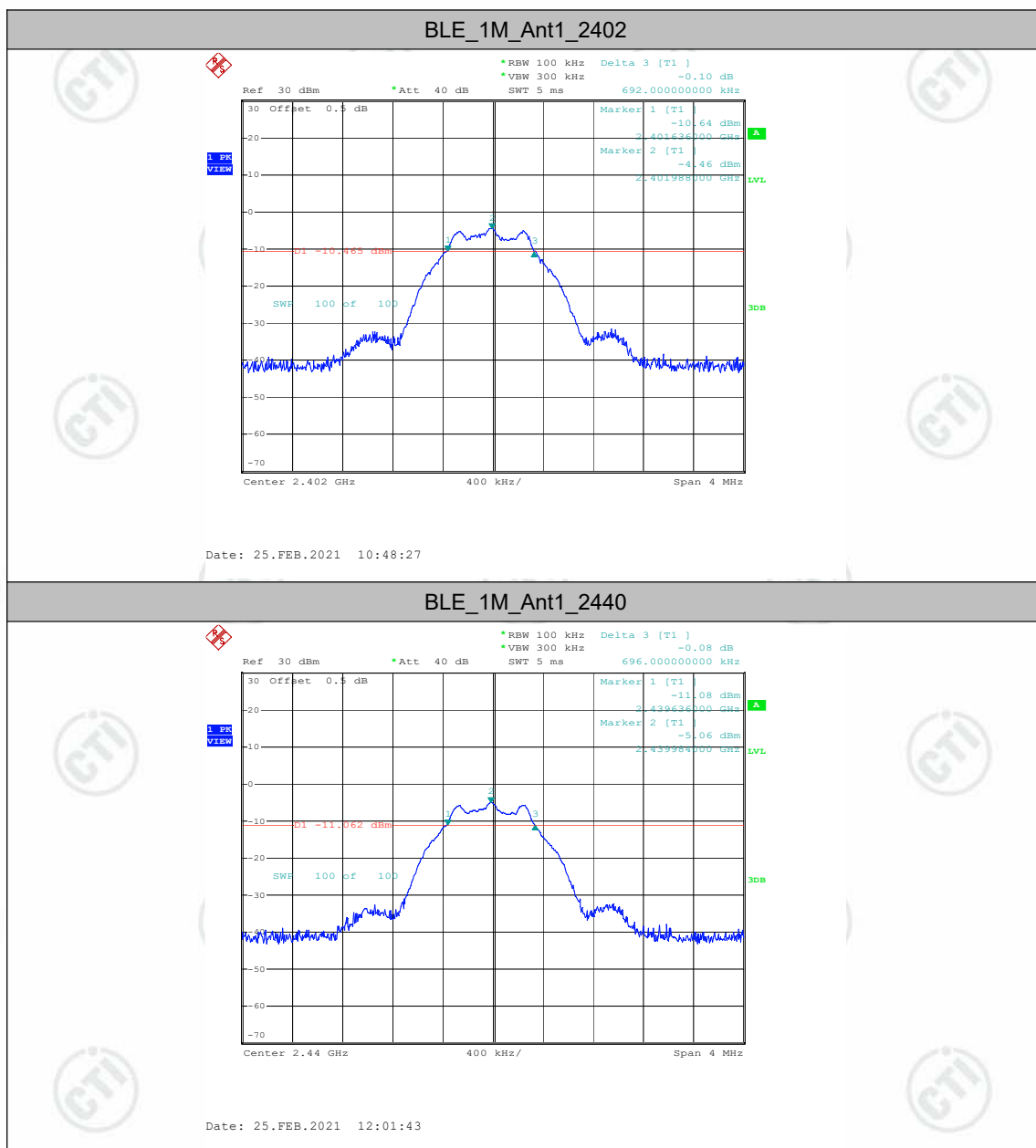
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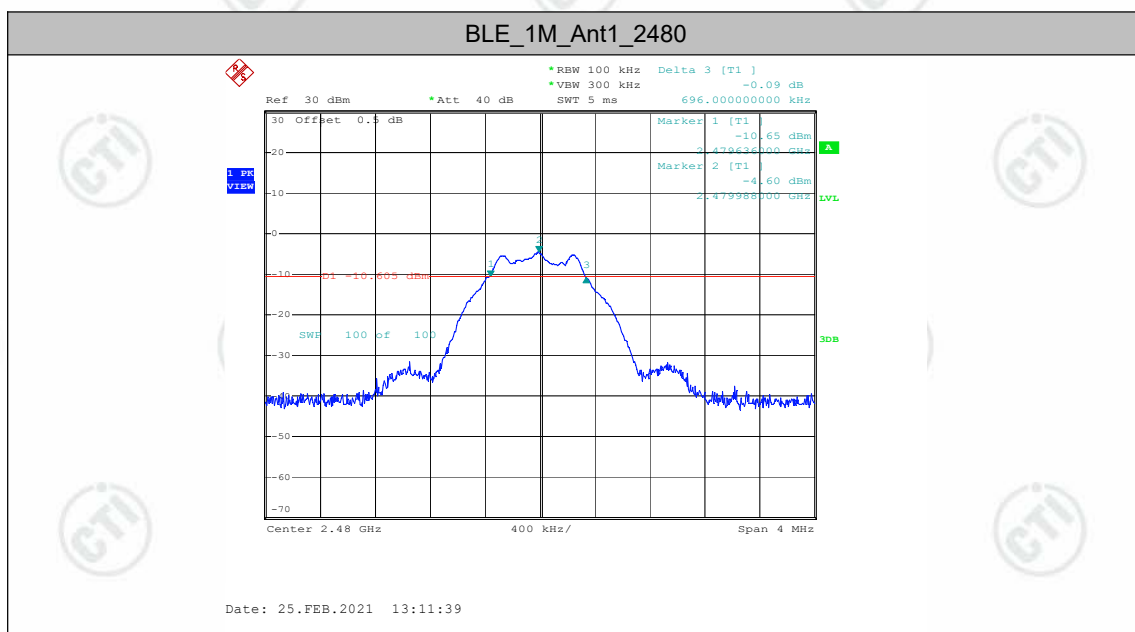
## Appendix A: DTS Bandwidth

### Test Result

| Test Mode | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|--------------|----------|----------|------------|---------|
| BLE_1M    | Ant1    | 2402    | 0.692        | 2401.636 | 2402.328 | 0.5        | PASS    |
|           |         | 2440    | 0.696        | 2439.636 | 2440.332 | 0.5        | PASS    |
|           |         | 2480    | 0.696        | 2479.636 | 2480.332 | 0.5        | PASS    |

## Test Graphs



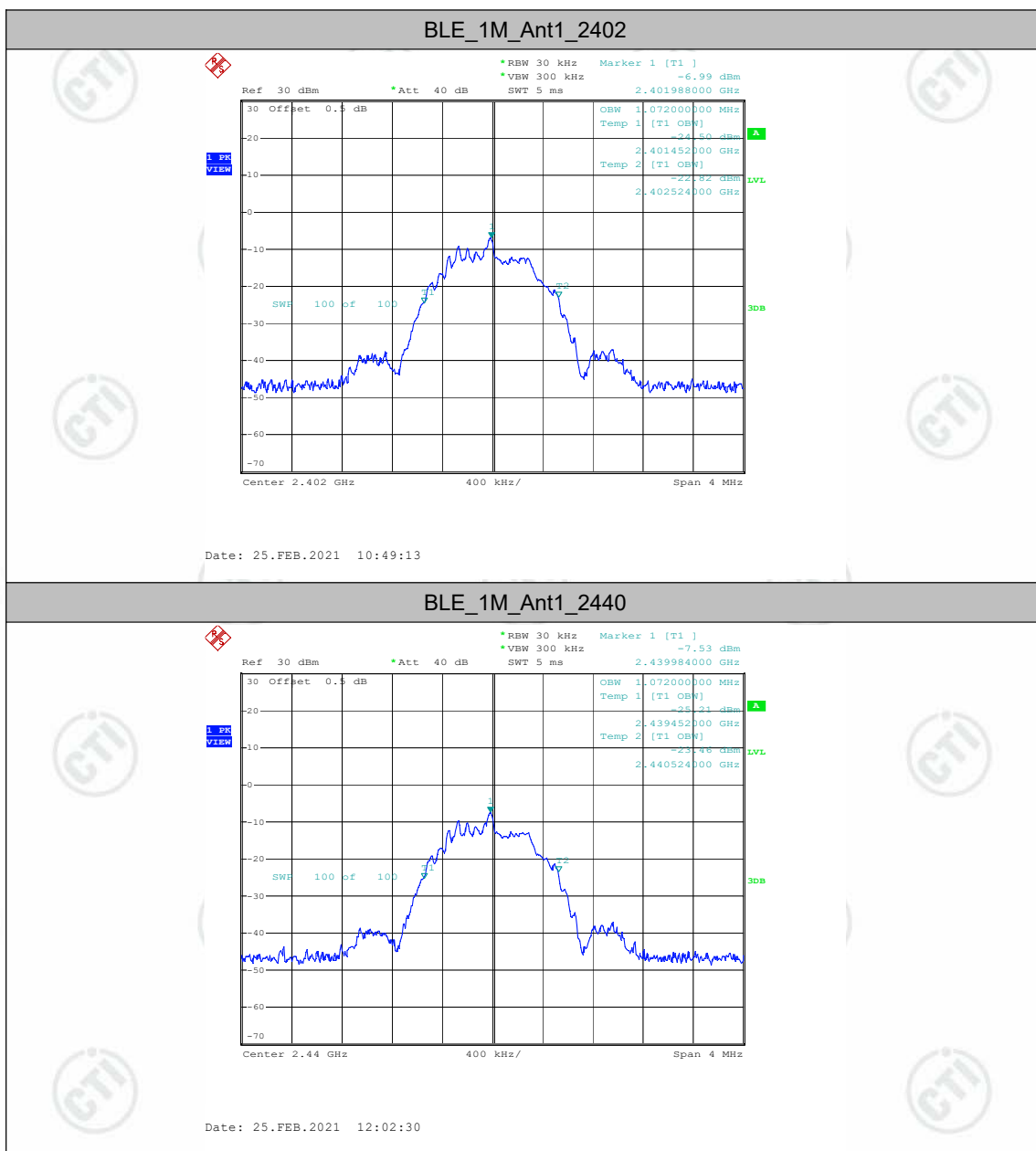


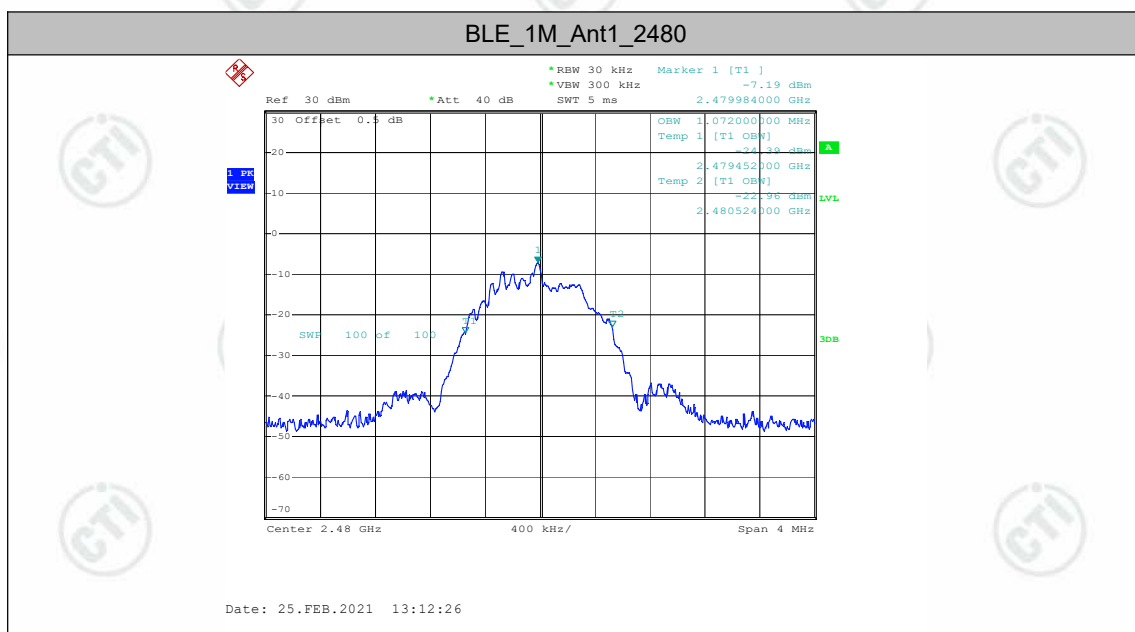
## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Channel | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------|---------|---------|------------|---------|
| BLE_1M    | Ant1    | 2402    | 1.072     | 0.000   | 0.000   | ---        | PASS    |
|           |         | 2440    | 1.072     | 0.000   | 0.000   | ---        | PASS    |
|           |         | 2480    | 1.072     | 0.000   | 0.000   | ---        | PASS    |

## Test Graphs



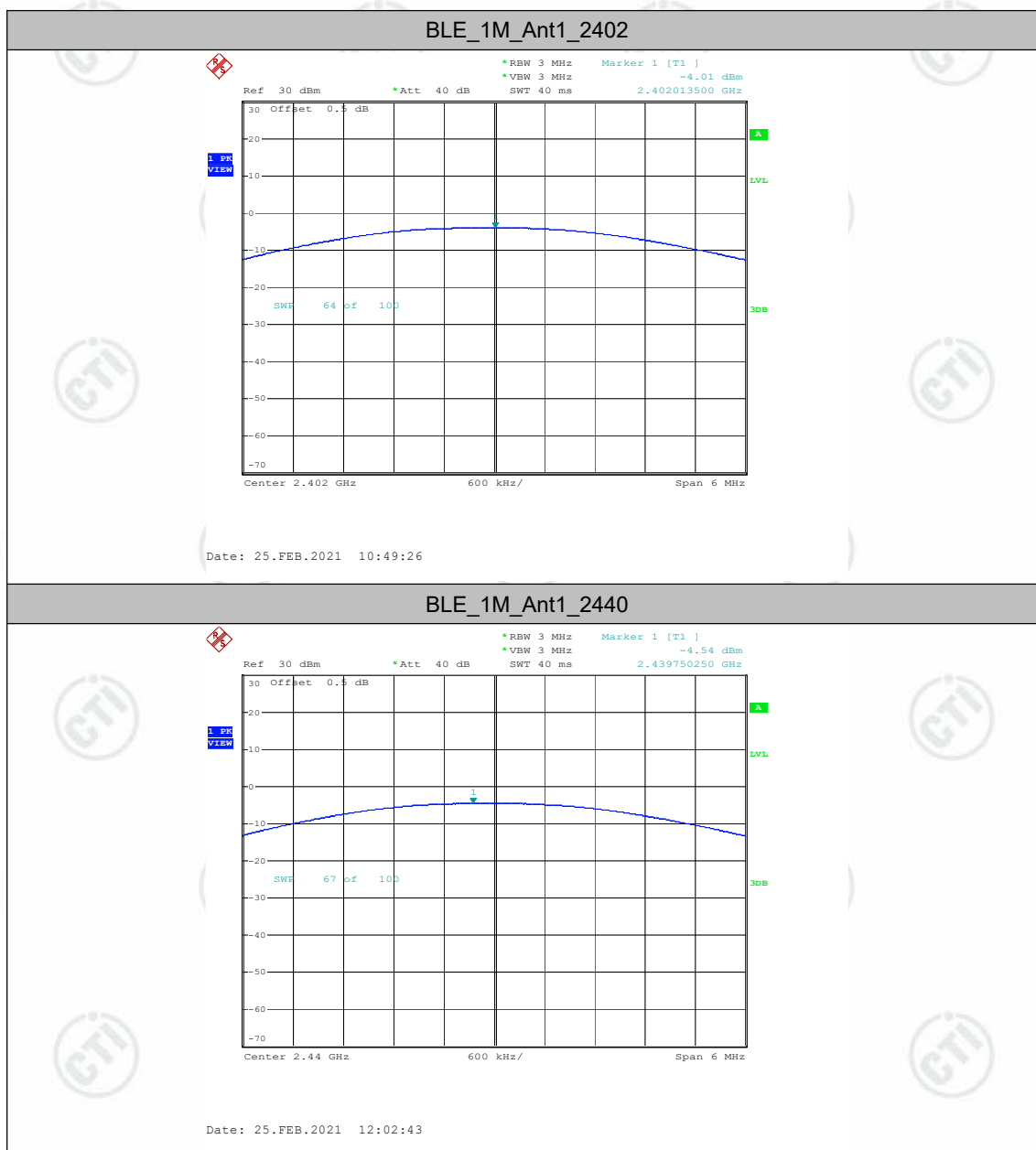


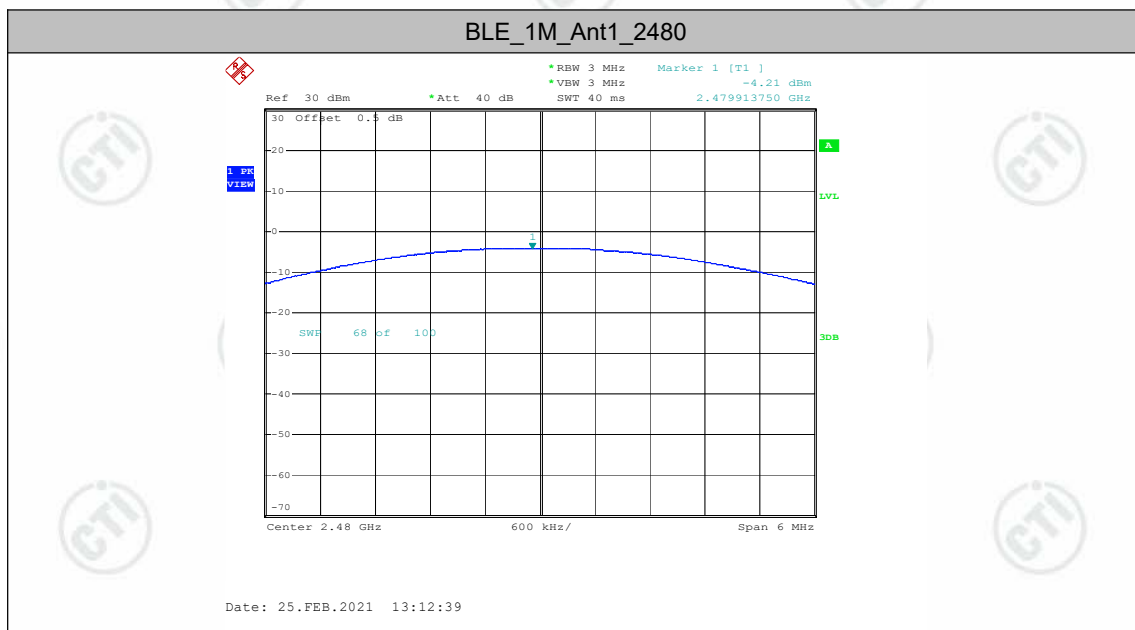
## Appendix C: Maximum conducted output power

### Test Result

| Test Mode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| BLE_1M    | Ant1    | 2402    | -4.01       | <=30       | PASS    |
|           |         | 2440    | -4.54       | <=30       | PASS    |
|           |         | 2480    | -4.21       | <=30       | PASS    |

## Test Graphs



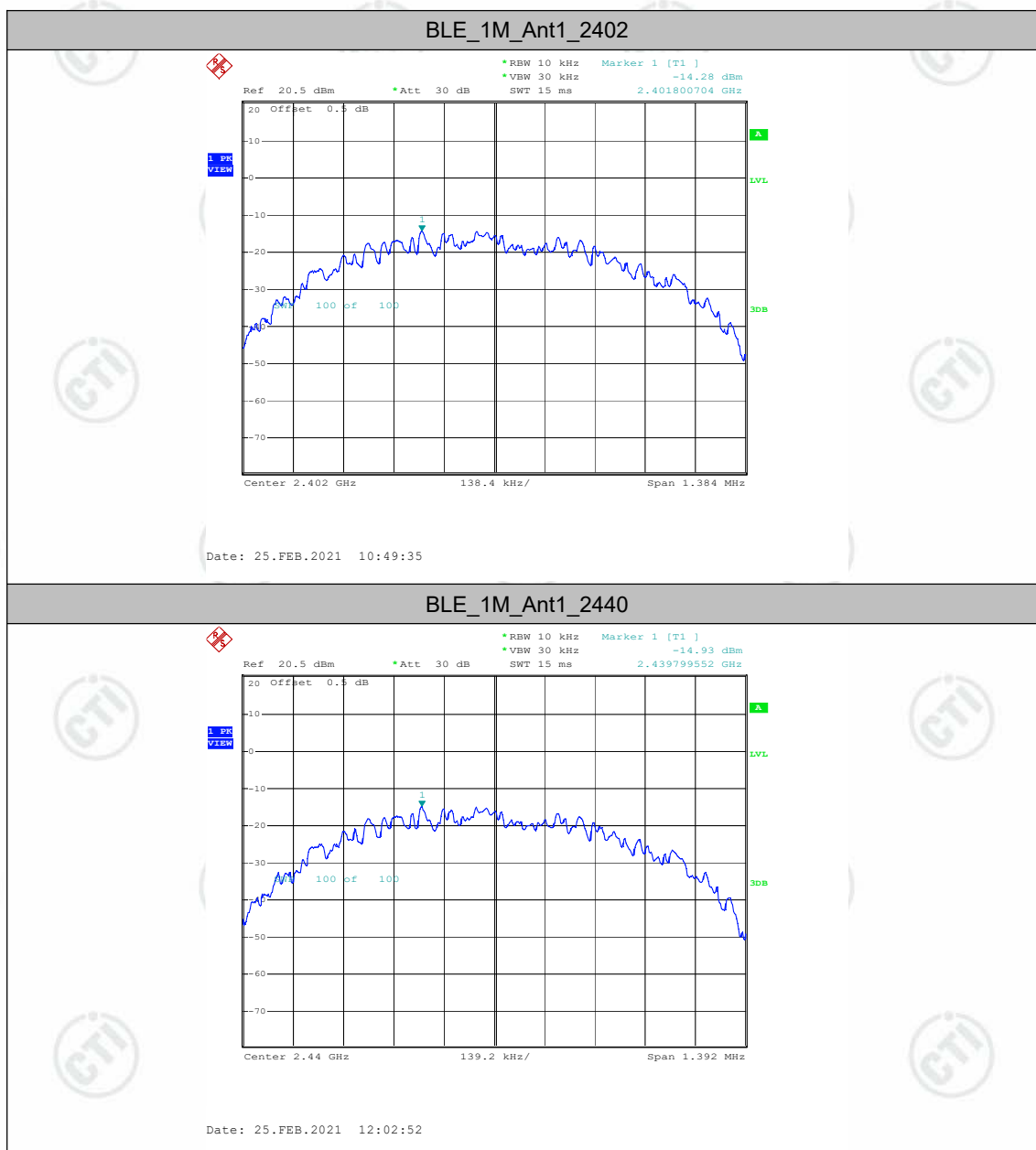


## Appendix D: Maximum power spectral density

### Test Result

| Test Mode | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|---------|----------------------|-----------------|---------|
| BLE_1M    | Ant1    | 2402    | -14.28               | <=8             | PASS    |
|           |         | 2440    | -14.93               | <=8             | PASS    |
|           |         | 2480    | -14.55               | <=8             | PASS    |

## Test Graphs



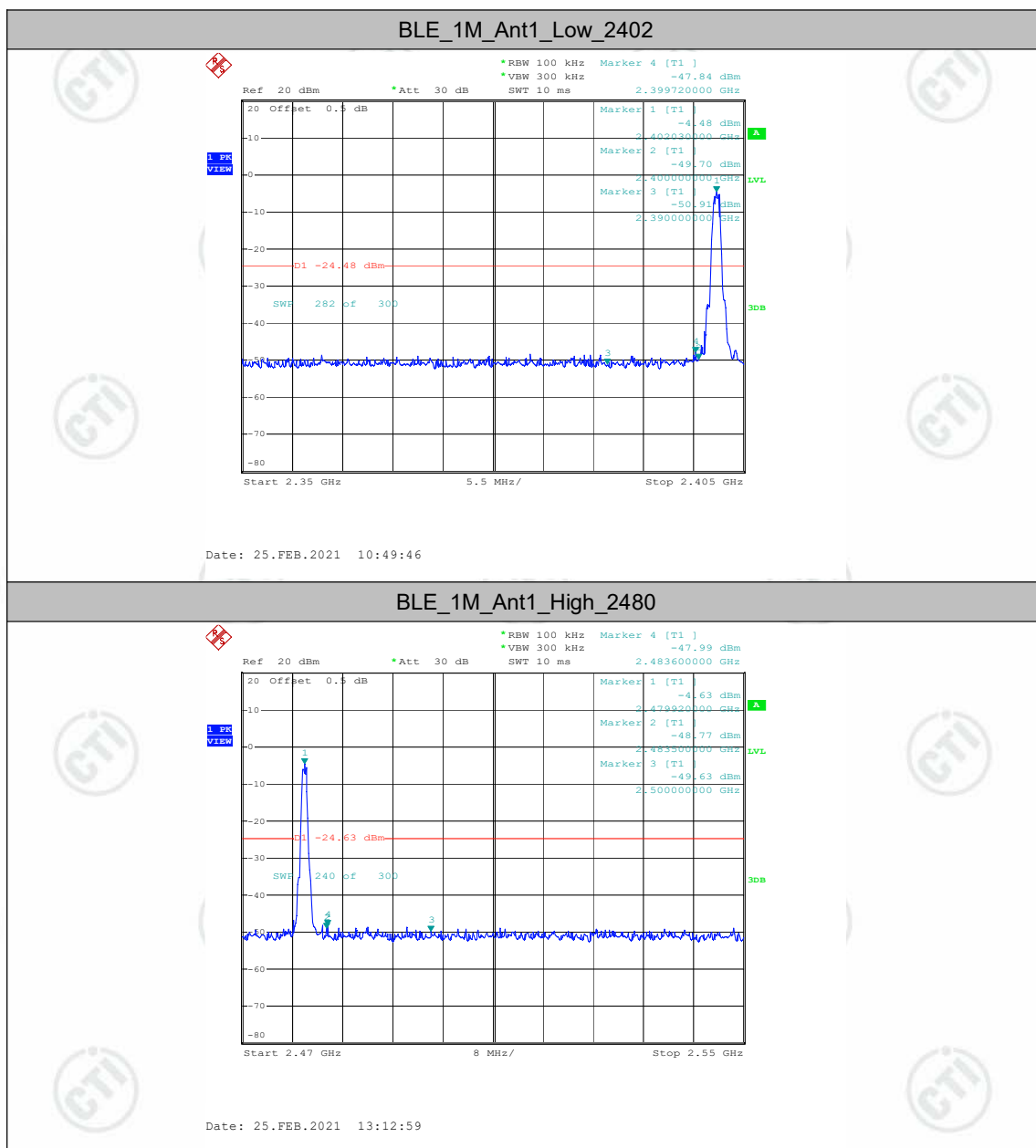


## Appendix E:Band edge measurements

### Test Result

| Test Mode | Antenna | Ch Name | Channel | Ref Level [dBm] | Result [dBm] | Limit [ dBm] | Verdict |
|-----------|---------|---------|---------|-----------------|--------------|--------------|---------|
| BLE_1M    | Ant1    | Low     | 2402    | -4.48           | -47.84       | <=-24.48     | PASS    |
|           |         | High    | 2480    | -4.63           | -47.99       | <=-24.63     | PASS    |

## Test Graphs

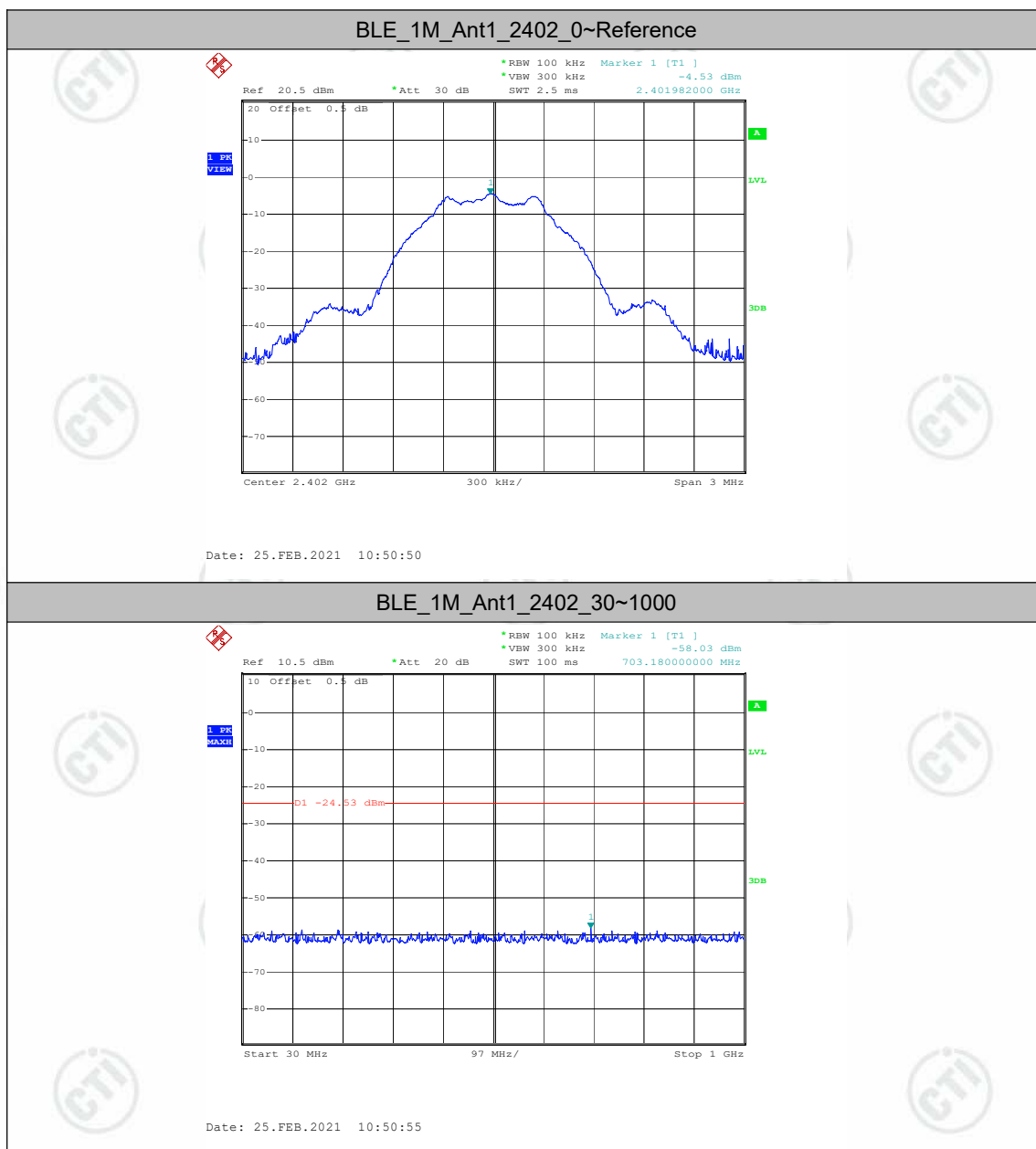


## Appendix F:Conducted Spurious Emission

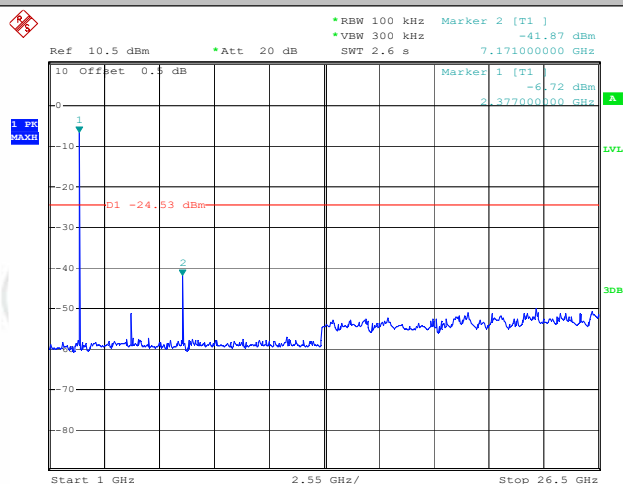
### Test Result

| Test Mode | Antenna | Channel | Freq Range [MHz] | Ref Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|---------|------------------|-----------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | 2402    | Reference        | -4.53           | -4.53        | ---         | PASS    |
|           |         |         | 30~1000          | -4.53           | -58.03       | <=-24.53    | PASS    |
|           |         |         | 1000~26500       | -4.53           | -41.87       | <=-24.53    | PASS    |
|           |         | 2440    | Reference        | -5.18           | -5.18        | ---         | PASS    |
|           |         |         | 30~1000          | -5.18           | -58.35       | <=-25.18    | PASS    |
|           |         |         | 1000~26500       | -5.18           | -46.87       | <=-25.18    | PASS    |
|           |         | 2480    | Reference        | -4.80           | -4.80        | ---         | PASS    |
|           |         |         | 30~1000          | -4.80           | -58.06       | <=-24.8     | PASS    |
|           |         |         | 1000~26500       | -4.80           | -45.6        | <=-24.8     | PASS    |

## Test Graphs

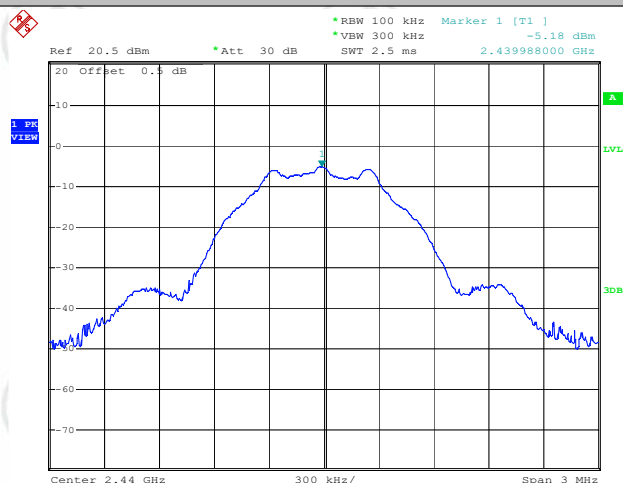


### BLE\_1M\_Ant1\_2402\_1000~26500



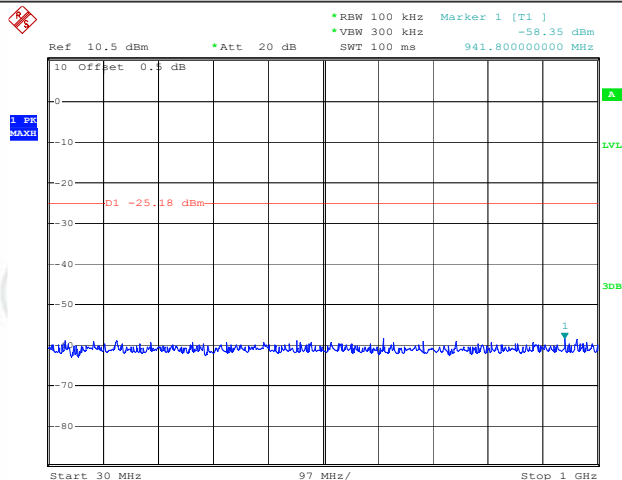
Date: 25.FEB.2021 10:51:18

### BLE\_1M\_Ant1\_2440\_0~Reference



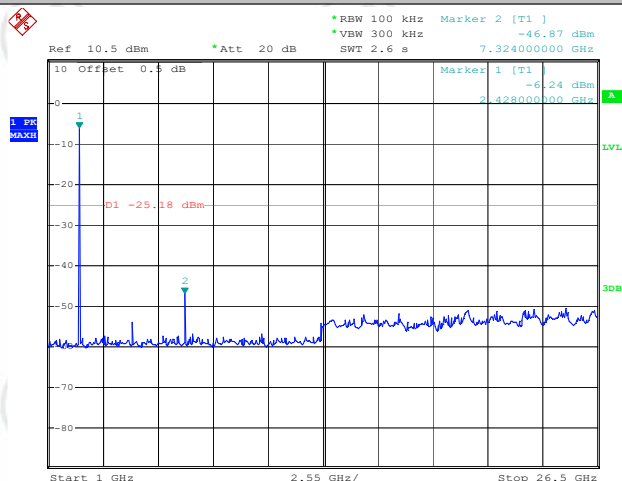
Date: 25.FEB.2021 12:02:59

BLE\_1M\_Ant1\_2440\_30~1000



Date: 25.FEB.2021 12:03:04

BLE\_1M\_Ant1\_2440\_1000~26500



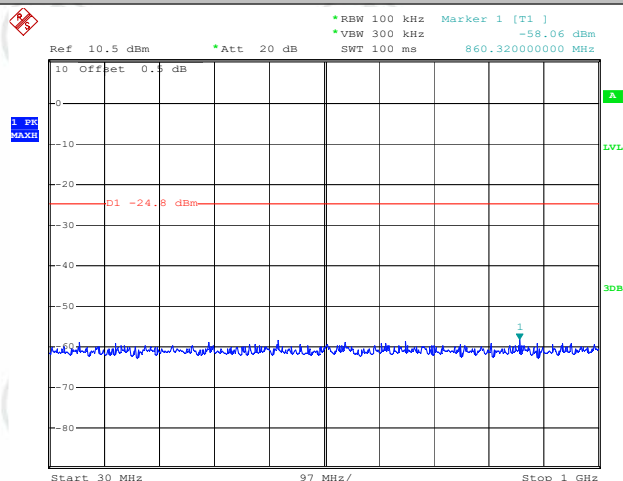
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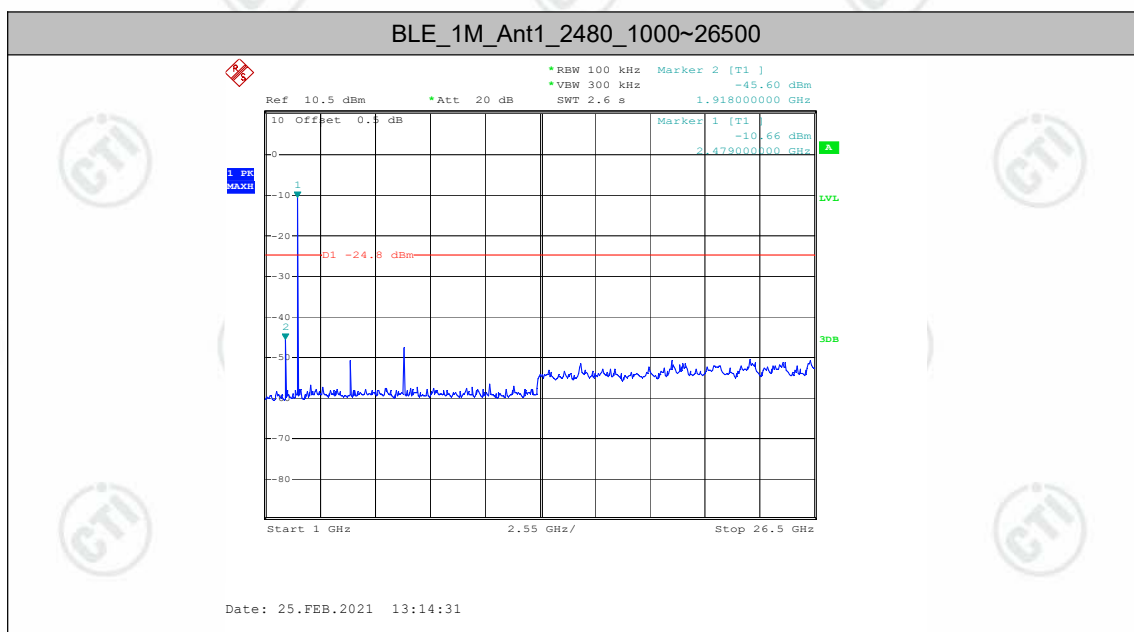


Date: 25.FEB.2021 13:14:02

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



Date: 25.FEB.2021 13:14:08

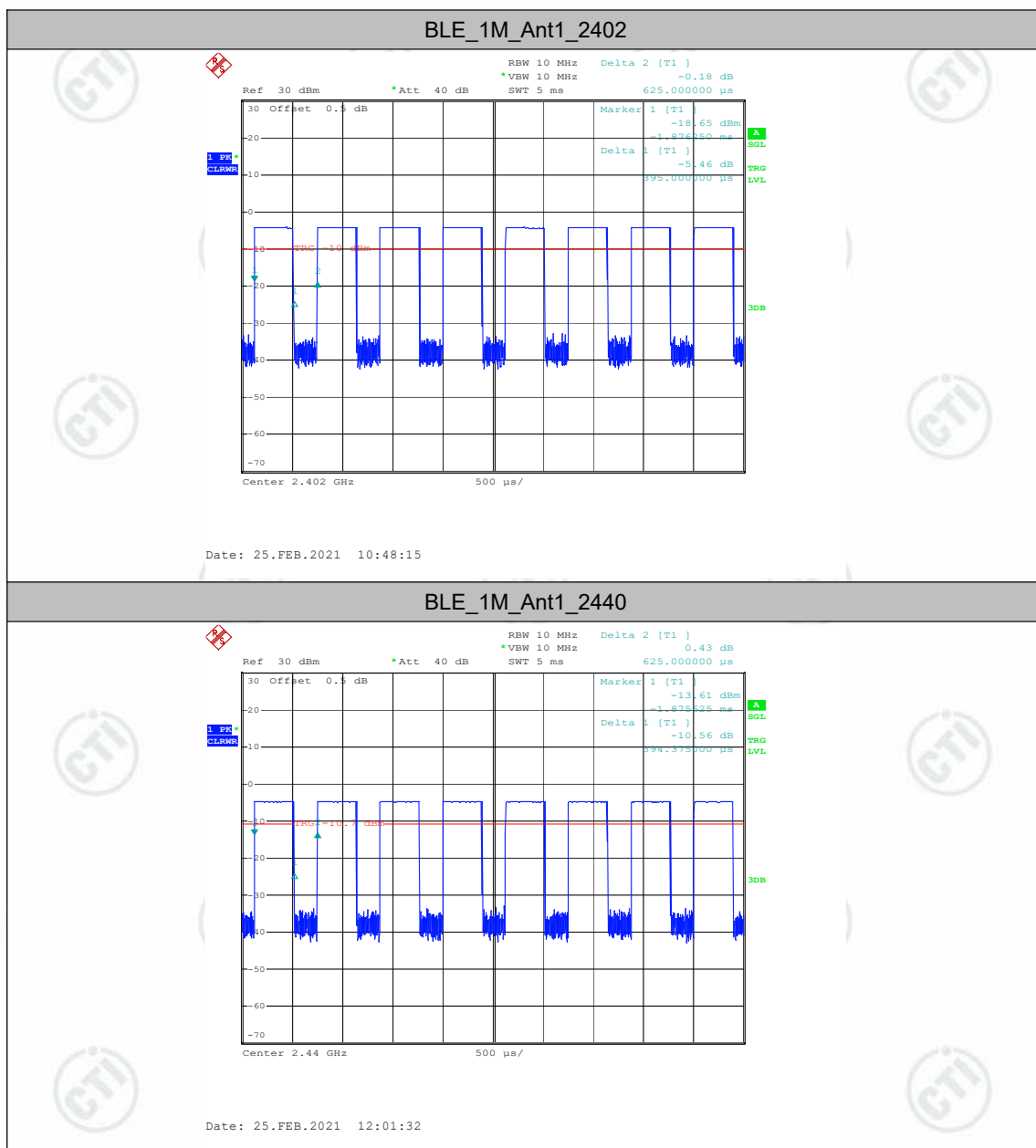


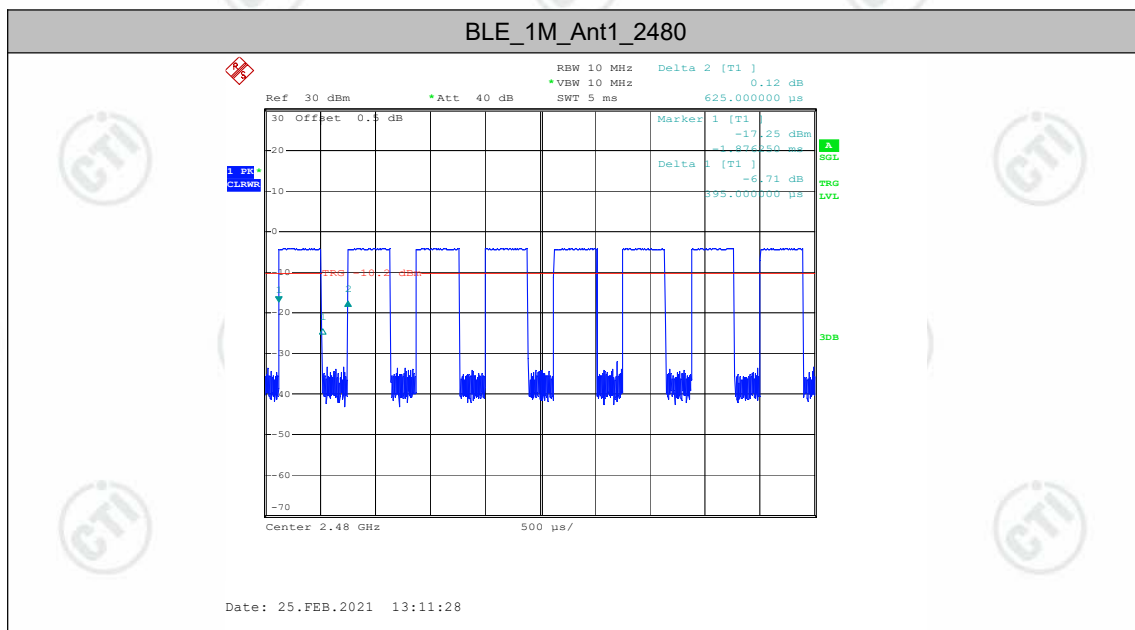
## Appendix G: Duty Cycle

### Test Result

| Test Mode | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Limit | Verdict |
|-----------|---------|---------|----------------------------|--------------------------|----------------|-------|---------|
| BLE_1M    | Ant1    | 2402    | 0.40                       | 0.63                     | 63.49          | ---   | PASS    |
|           |         | 2440    | 0.39                       | 0.63                     | 61.90          | ---   | PASS    |
|           |         | 2480    | 0.40                       | 0.63                     | 63.49          | ---   | PASS    |

## Test Graphs





\*\*\* End of Report \*\*\*