



## Appendix for Bluetooth BLE mode

Product Name: Transmitter Duplex

Model No: DS-24 II

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## Appendix A: DTS Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 0.644        | 2401.676 | 2402.320 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2440           | 0.640        | 2439.680 | 2440.320 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2480           | 0.660        | 2479.684 | 2480.344 | 0.5        | PASS    |

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## Test Graphs







## Appendix B: Maximum conducted output power

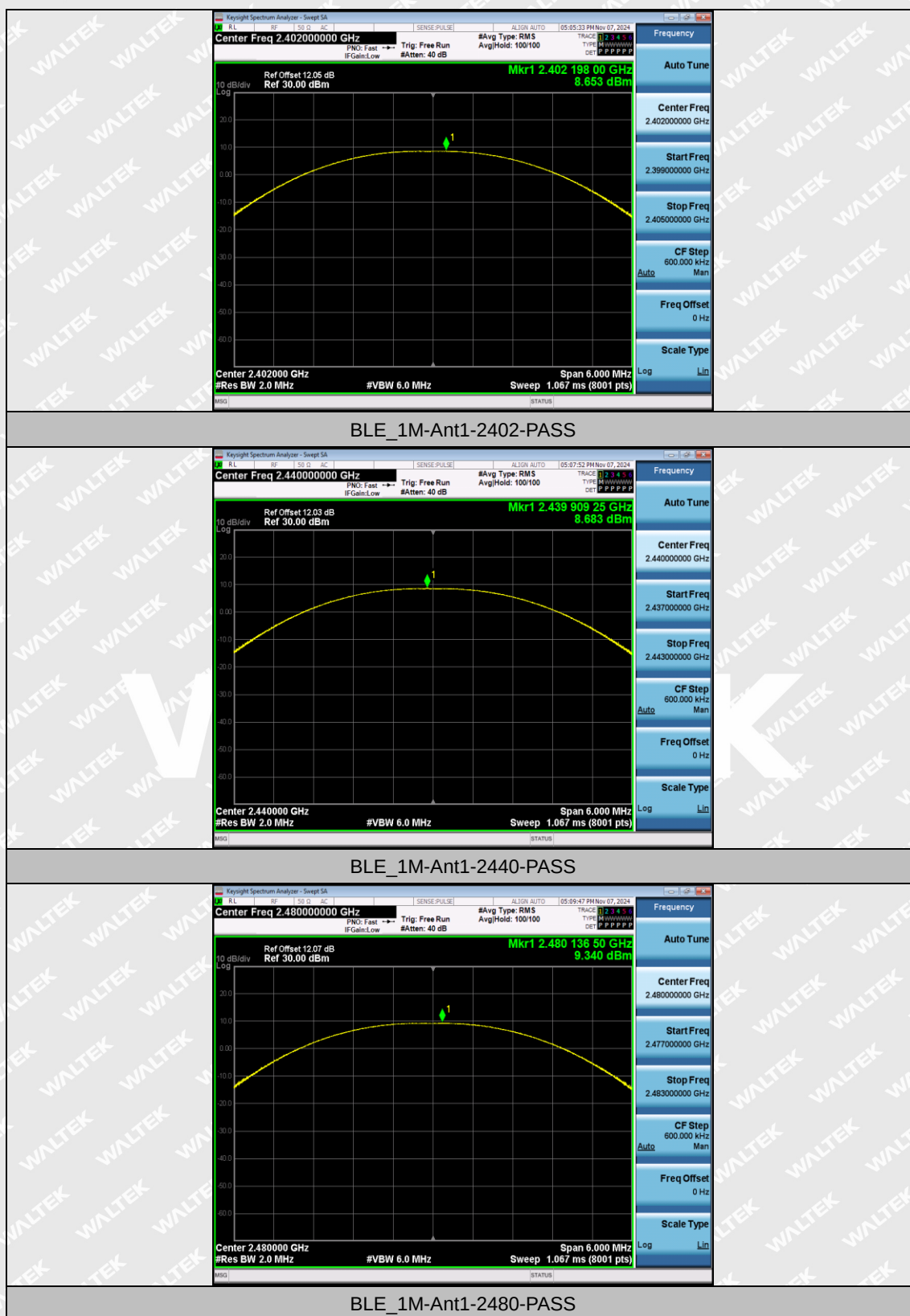
### Test Result Peak

| 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           | 8.65                            | ≤30                     | 8.65      | ≤36                | PASS    |
| BLE_1M   | Ant1    | 2440           | 8.68                            | ≤30                     | 8.68      | ≤36                | PASS    |
| BLE_1M   | Ant1    | 2480           | 9.34                            | ≤30                     | 9.34      | ≤36                | PASS    |

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## Test Graphs Peak





## Appendix C: Maximum power spectral density

### Test Result

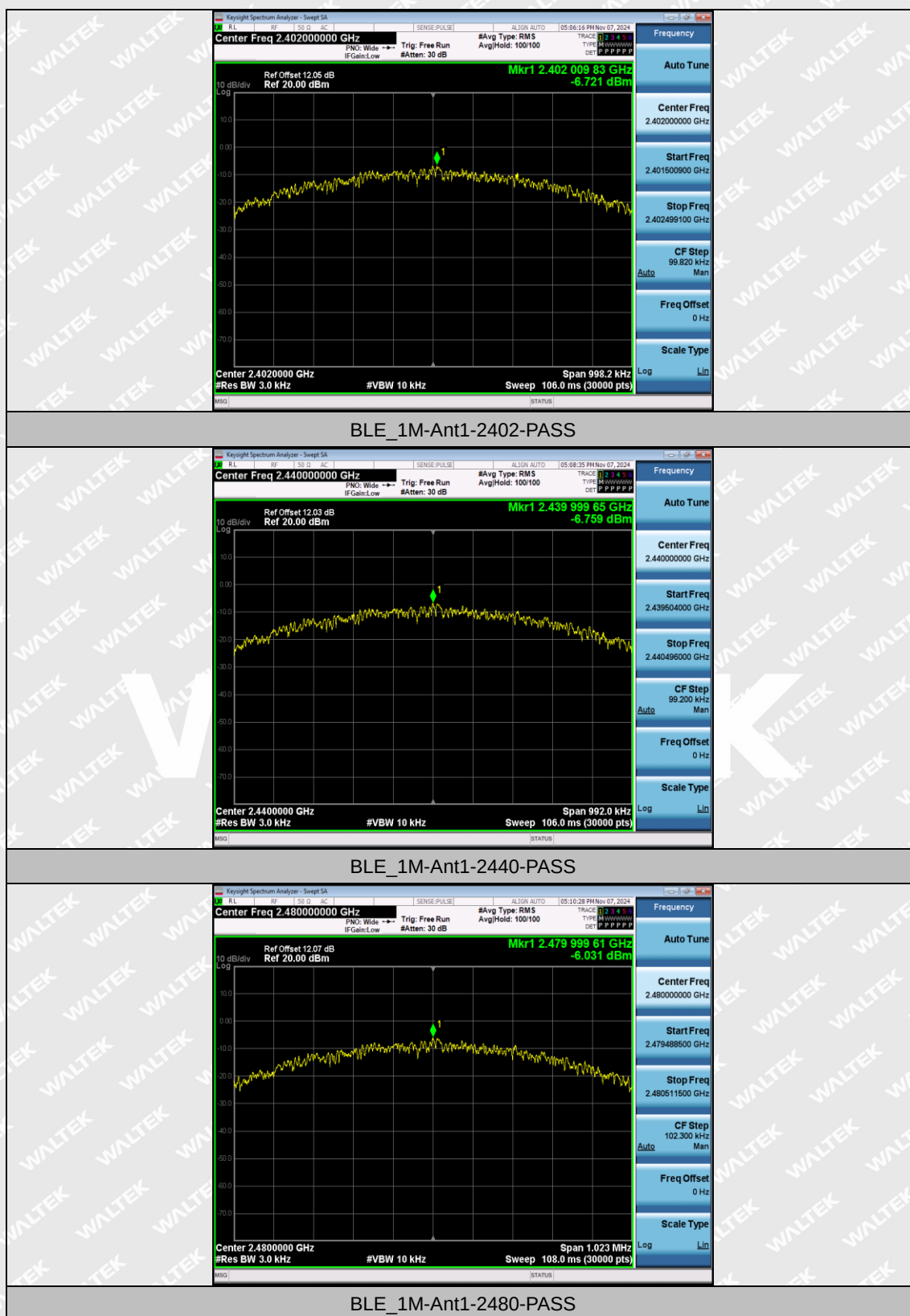
| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -6.72            | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -6.76            | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -6.03            | ≤8.00           | PASS    |

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## Test Graphs





## Appendix D: Reference level measurement

### Test Result

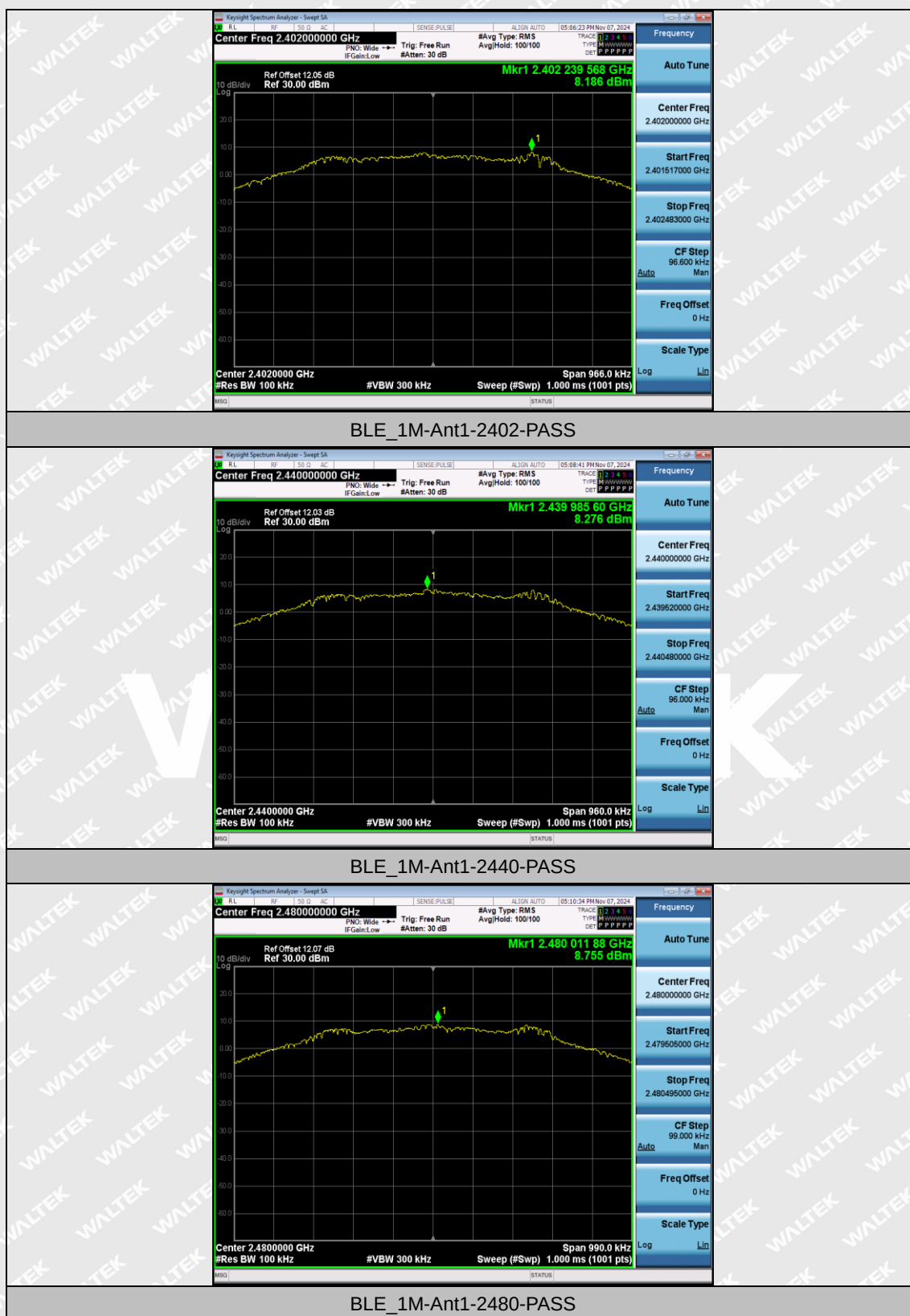
| TestMode | Antenna | Freq(MHz) | Max.Point[MHz] | Result[dBm] |
|----------|---------|-----------|----------------|-------------|
| BLE_1M   | Ant1    | 2402      | 2402.24        | 8.19        |
| BLE_1M   | Ant1    | 2440      | 2439.99        | 8.28        |
| BLE_1M   | Ant1    | 2480      | 2480.01        | 8.76        |

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## Test Graphs





## Appendix E: Band edge measurements

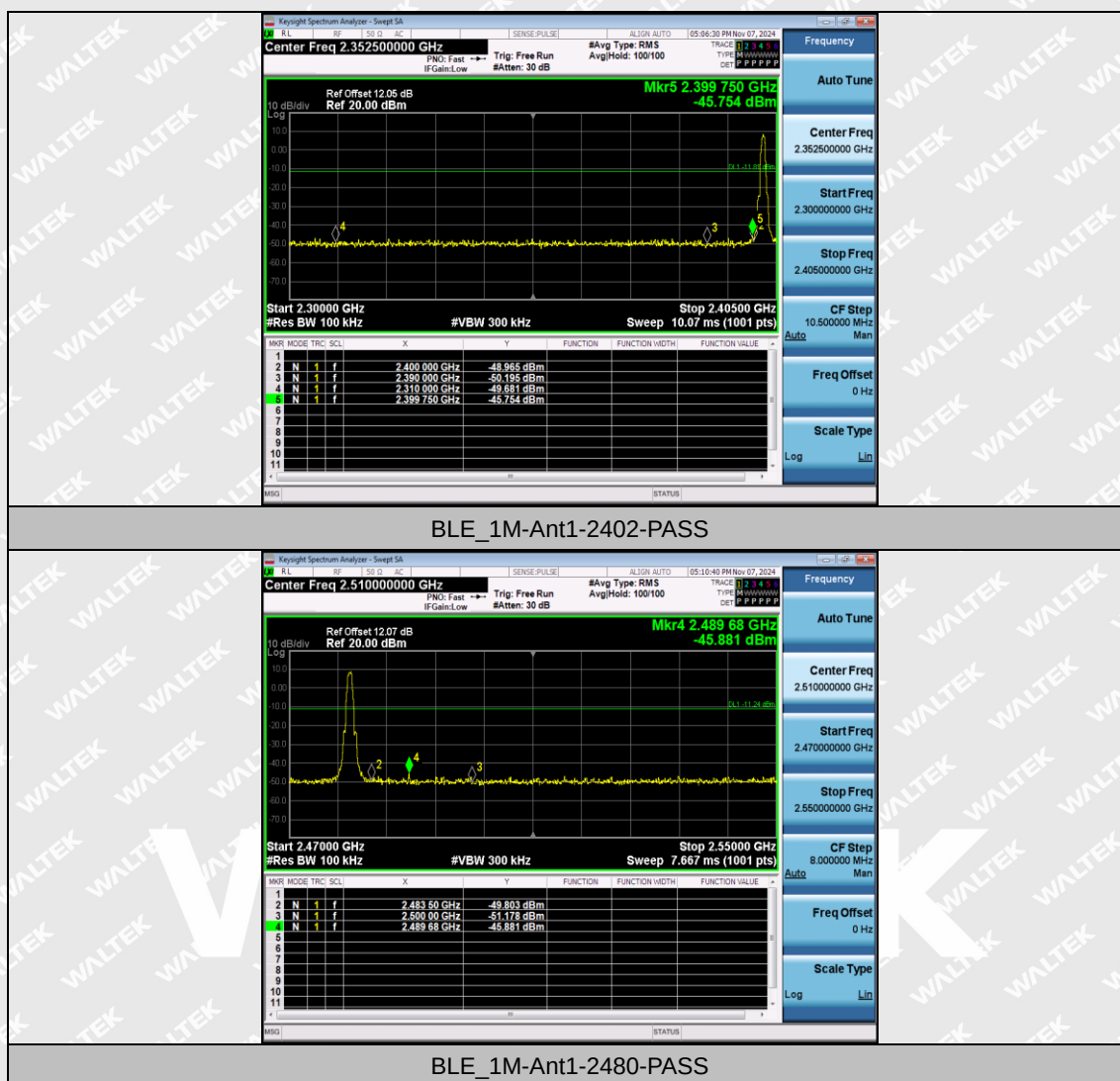
### Test Result

| TestMode | Antenna | ChName | Frequency<br>[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|--------------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402               | 8.19          | -45.75      | ≤-11.81    | PASS    |
| BLE_1M   | Ant1    | High   | 2480               | 8.76          | -45.88      | ≤-11.24    | PASS    |

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## Test Graphs







## 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            | 8.19              | -47.18      | ≤-11.81    | PASS    |
| BLE_1M   | Ant1    | 2402               | 1000~26500         | 8.19              | -43.88      | ≤-11.81    | PASS    |
| BLE_1M   | Ant1    | 2440               | 30~1000            | 8.28              | -46.42      | ≤-11.72    | PASS    |
| BLE_1M   | Ant1    | 2440               | 1000~26500         | 8.28              | -43.45      | ≤-11.72    | PASS    |
| BLE_1M   | Ant1    | 2480               | 30~1000            | 8.76              | -45.63      | ≤-11.24    | PASS    |
| BLE_1M   | Ant1    | 2480               | 1000~26500         | 8.76              | -44.42      | ≤-11.24    | PASS    |

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## Test Graphs

