



## Appendix A

### RF Test Data for BLE (Conducted Measurement)

Product Name: Wireless Gaming Controller

Test Model: PXN-P3

#### Environmental Conditions

|                    |                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------|
| Temperature:       | 23.8° C                                                                                         |
| Relative Humidity: | 52.2%                                                                                           |
| ATM Pressure:      | 100.0 kPa                                                                                       |
| Test Engineer:     | <br>Nick Peng |
| Supervised by:     | <br>Li Huan |



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## A.1 DTS Bandwidth

### Test Result

| TestMode | Antenna | Channel | DTS BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 0.712           | 2401.624 | 2402.336 | 0.5        | PASS    |
|          |         | 2440    | 0.712           | 2439.624 | 2440.336 | 0.5        | PASS    |
|          |         | 2480    | 0.712           | 2479.624 | 2480.336 | 0.5        | PASS    |



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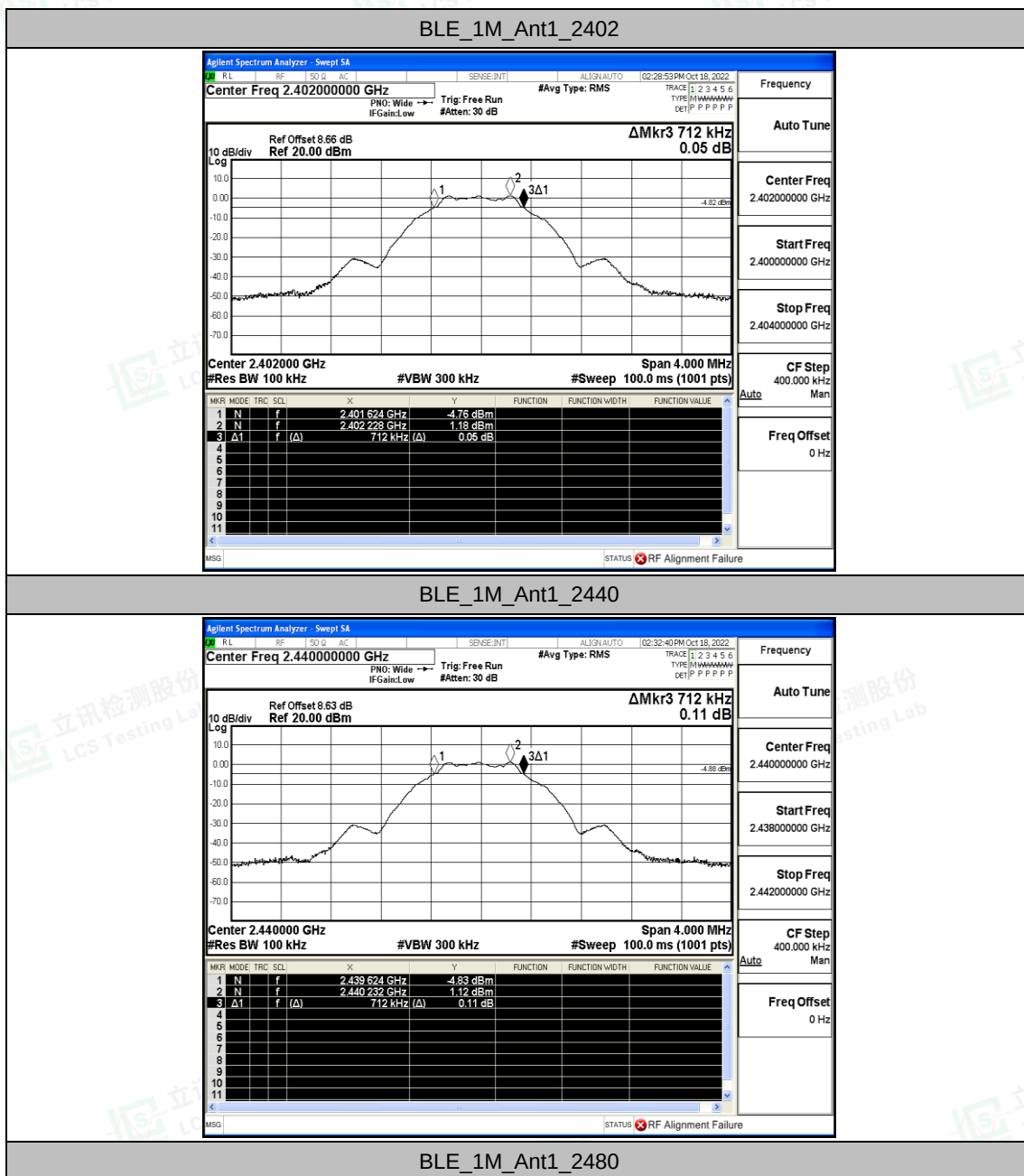
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## Test Graphs

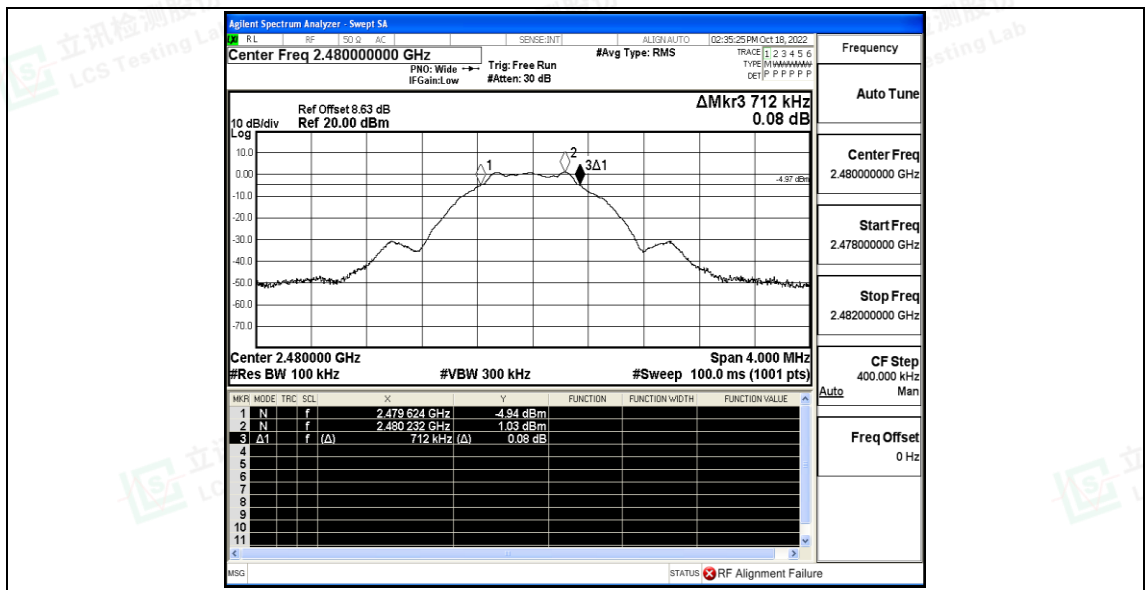


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## A.2 Maximum conducted output power

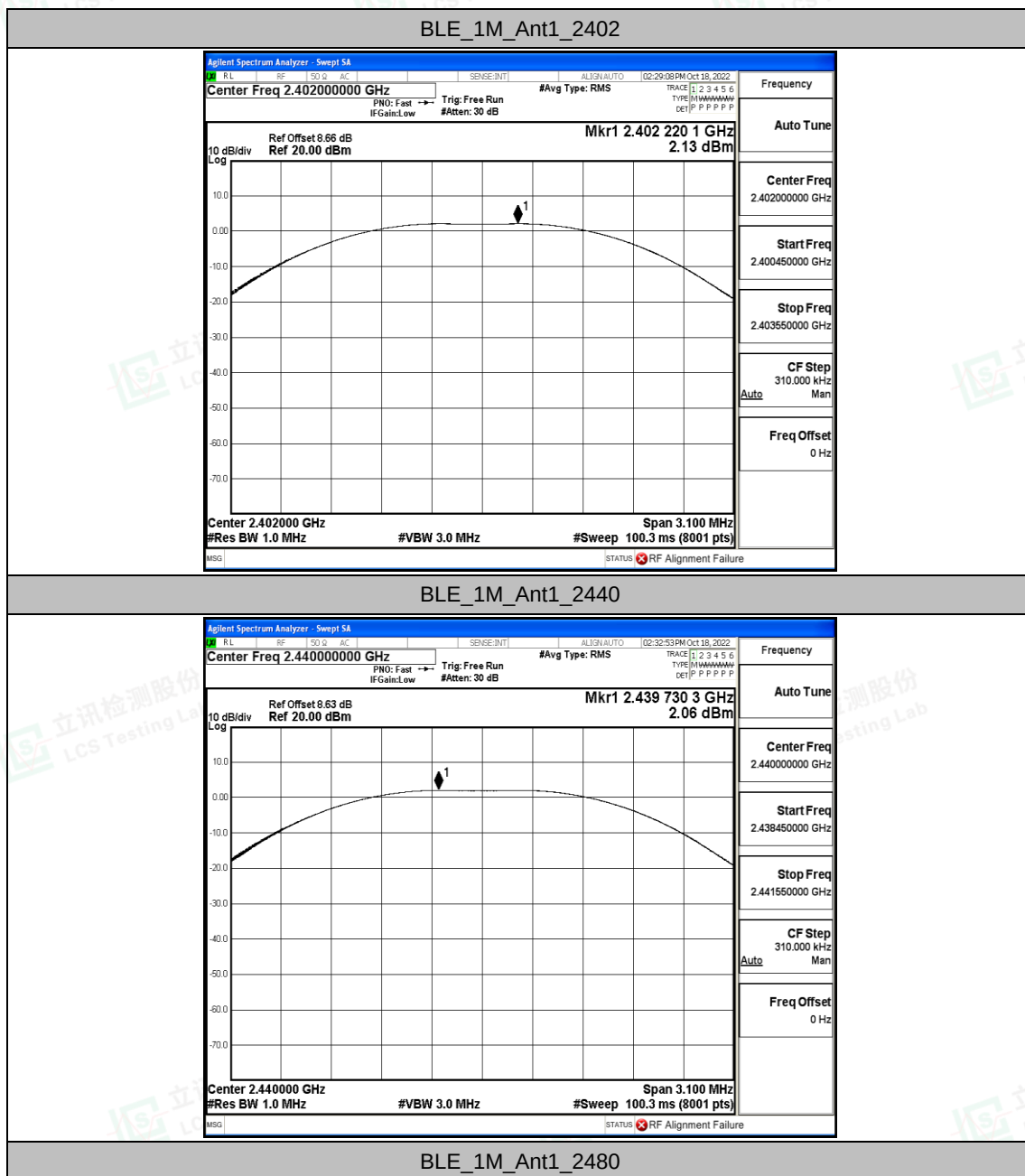
### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 2.13        | ≤30        | PASS    |
|          |         | 2440    | 2.07        | ≤30        | PASS    |
|          |         | 2480    | 1.98        | ≤30        | PASS    |





## Test Graphs

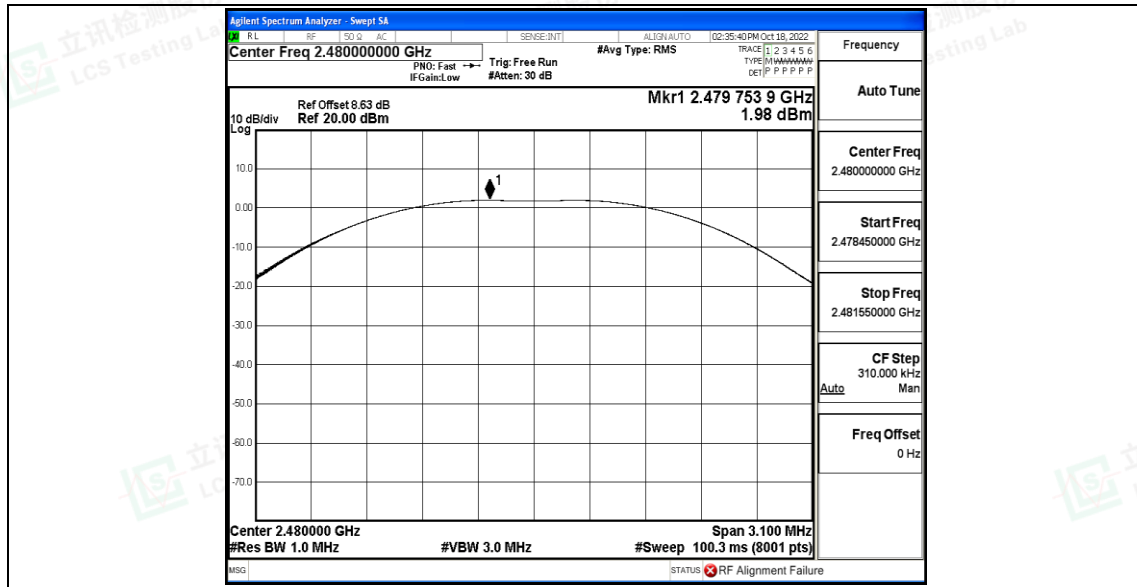


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### A.3 Maximum power spectral density

#### Test Result

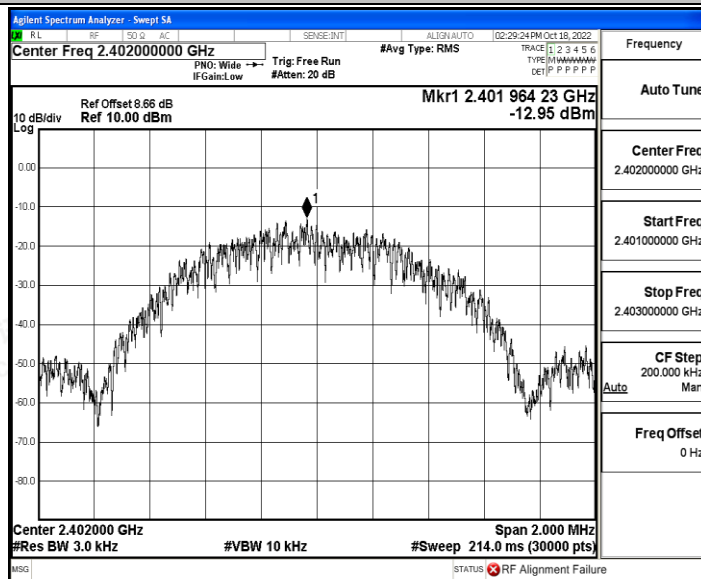
| TestMode | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|----------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402    | -12.95               | ≤8.00           | PASS    |
|          |         | 2440    | -12.97               | ≤8.00           | PASS    |
|          |         | 2480    | -13.1                | ≤8.00           | PASS    |



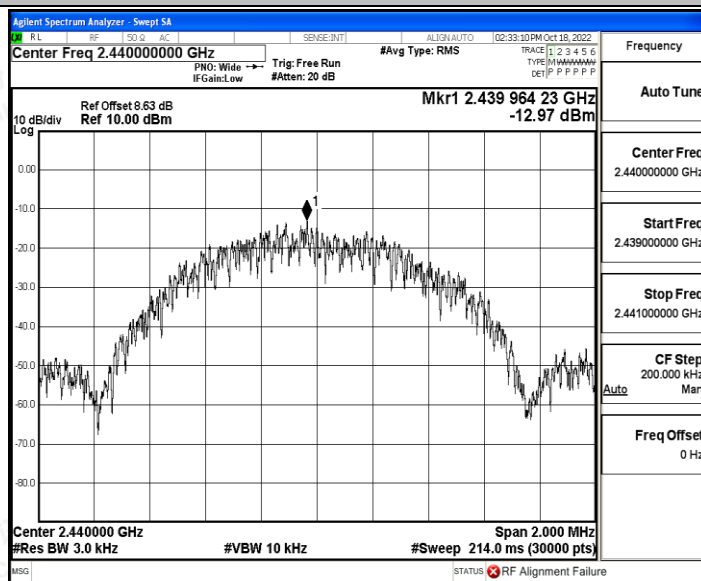


## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

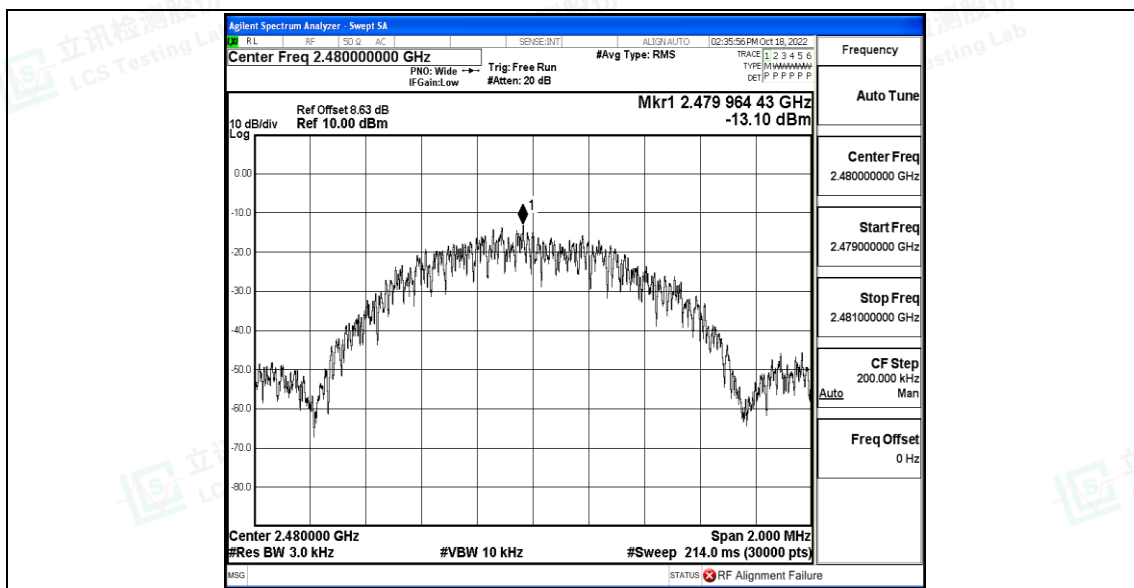


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## A.4 Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|---------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | 1.06          | -57.65      | ≤-18.95    | PASS    |
|          |         | High   | 2480    | 1.23          | -58.28      | ≤-18.78    | PASS    |



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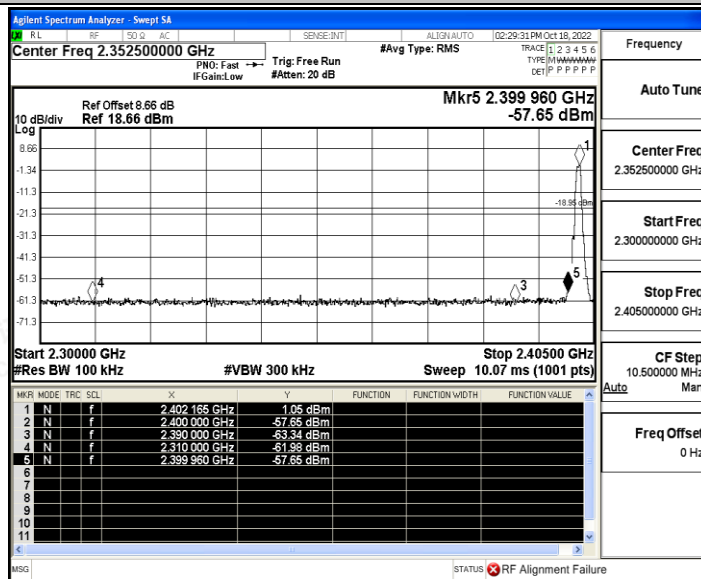
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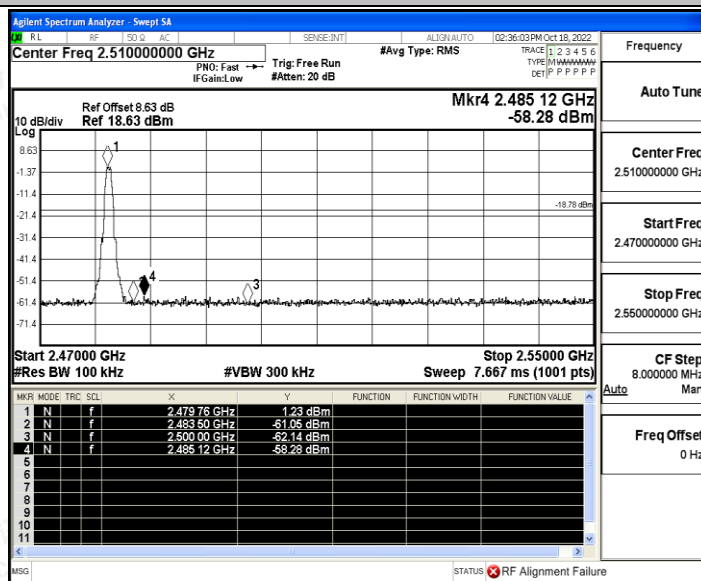


## Test Graphs

BLE\_1M\_Ant1\_Low\_2402



BLE\_1M\_Ant1\_High\_2480



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## A.5 Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | Reference          | 0.97              | 0.97        | ---        | PASS    |
|          |         |         | 30~1000            | 0.97              | -60.54      | ≤-19.03    | PASS    |
|          |         |         | 1000~26500         | 0.97              | -45.41      | ≤-19.03    | PASS    |
|          |         | 2440    | Reference          | 0.56              | 0.56        | ---        | PASS    |
|          |         |         | 30~1000            | 0.56              | -60.19      | ≤-19.44    | PASS    |
|          |         |         | 1000~26500         | 0.56              | -45.5       | ≤-19.44    | PASS    |
|          |         | 2480    | Reference          | 0.88              | 0.88        | ---        | PASS    |
|          |         |         | 30~1000            | 0.88              | -60.36      | ≤-19.12    | PASS    |
|          |         |         | 1000~26500         | 0.88              | -46.83      | ≤-19.12    | PASS    |



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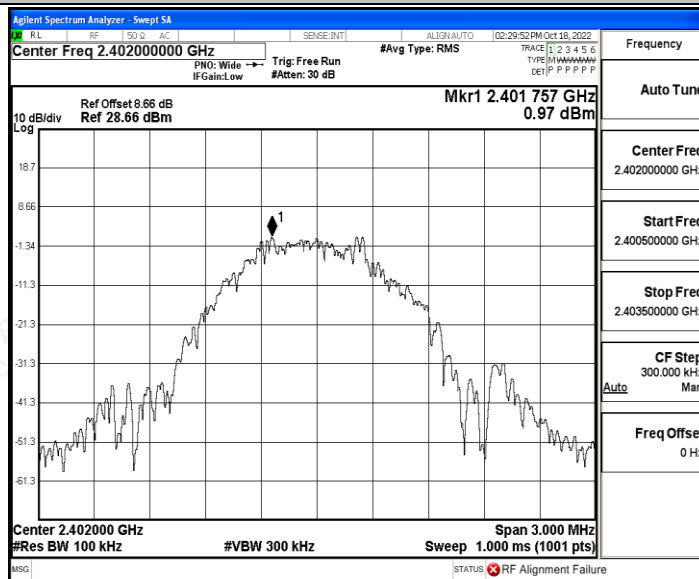
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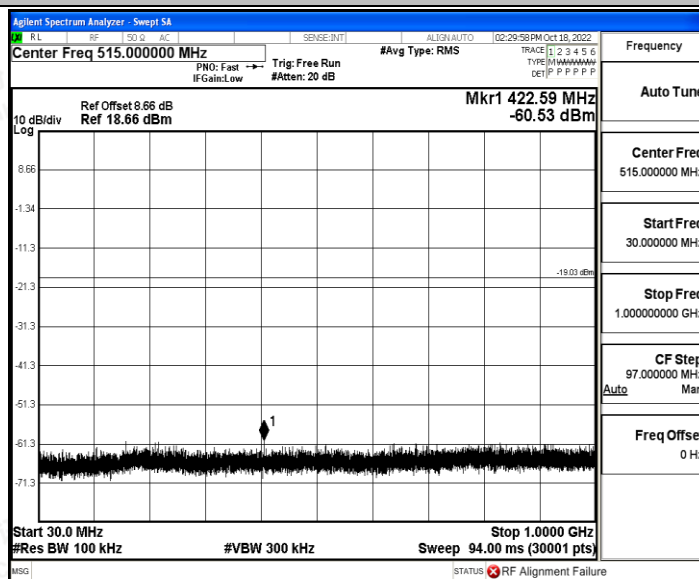


## Test Graphs

BLE\_1M\_Ant1\_2402\_0~Reference



BLE\_1M\_Ant1\_2402\_30~1000



BLE\_1M\_Ant1\_2402\_1000~26500

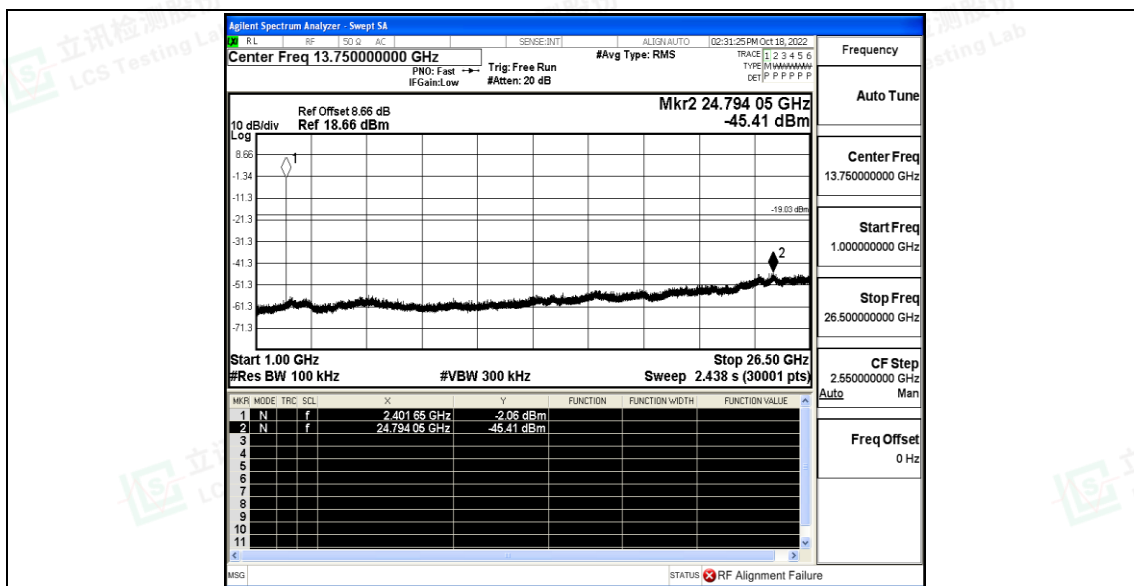


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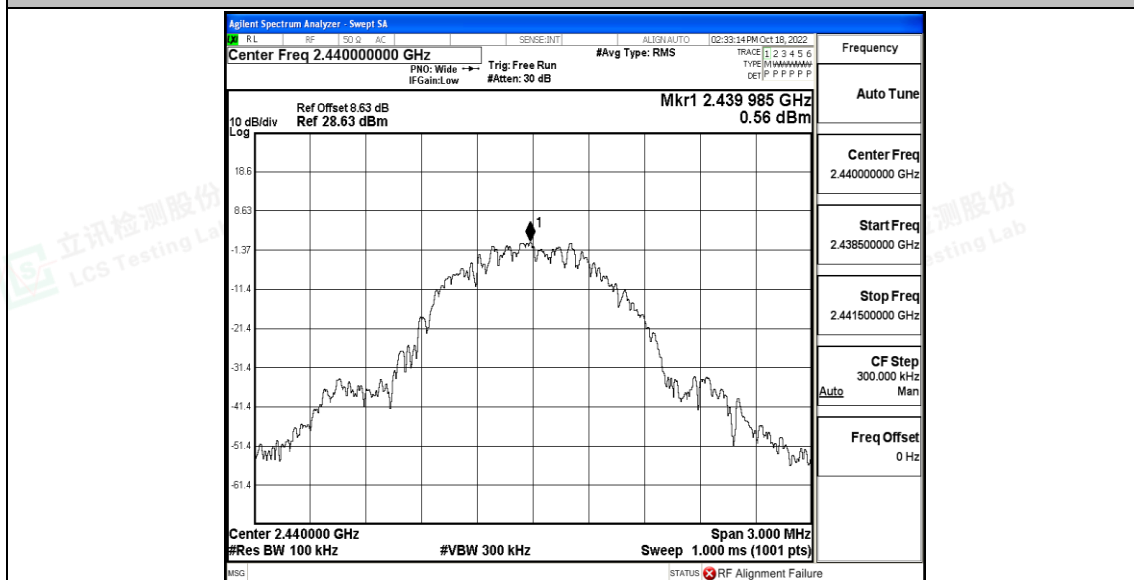
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BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000

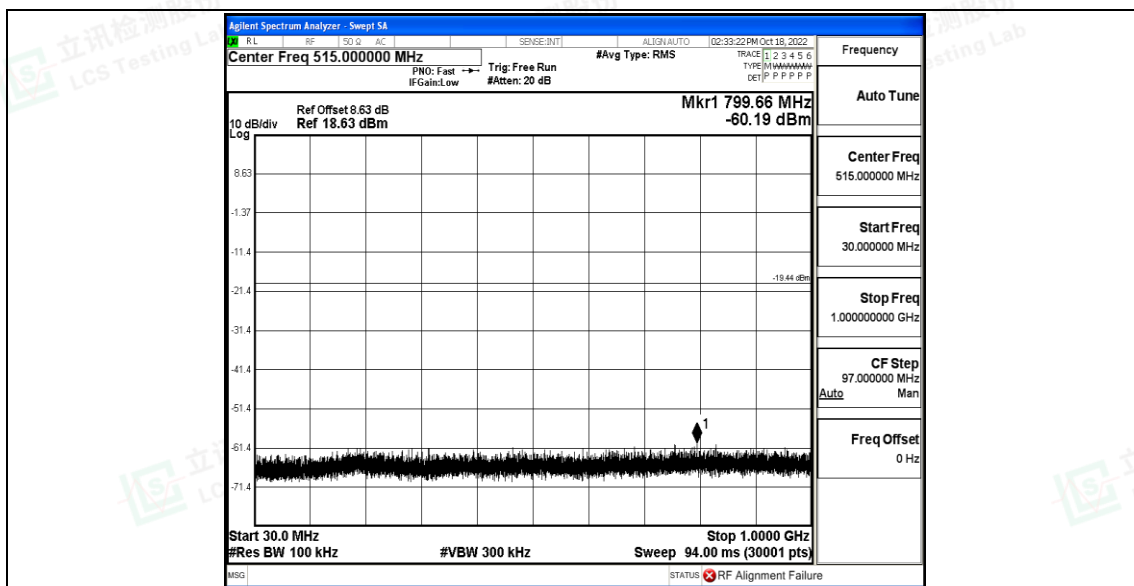


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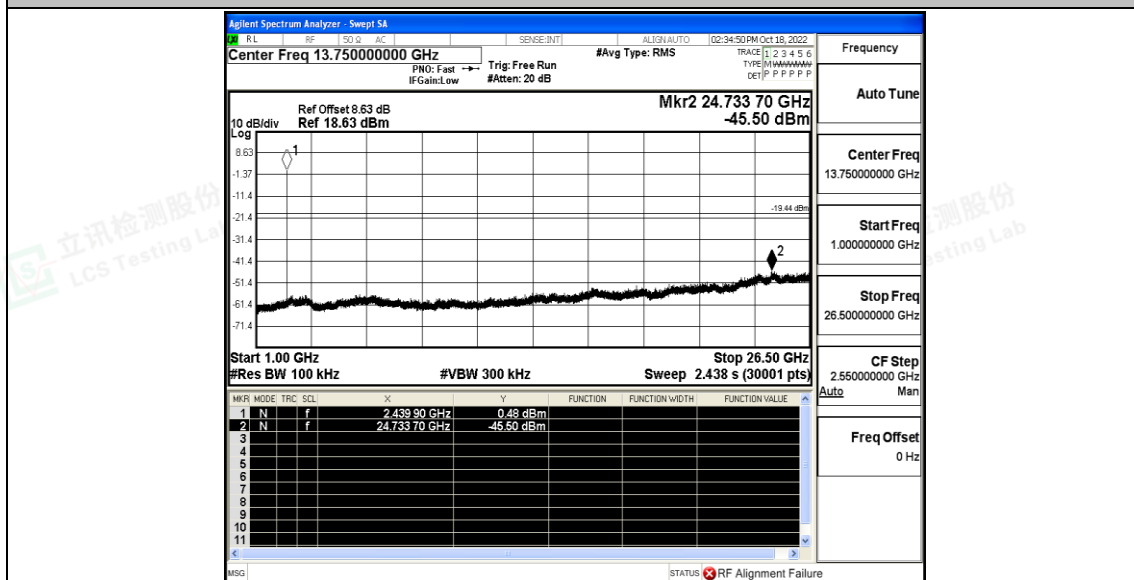
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BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference

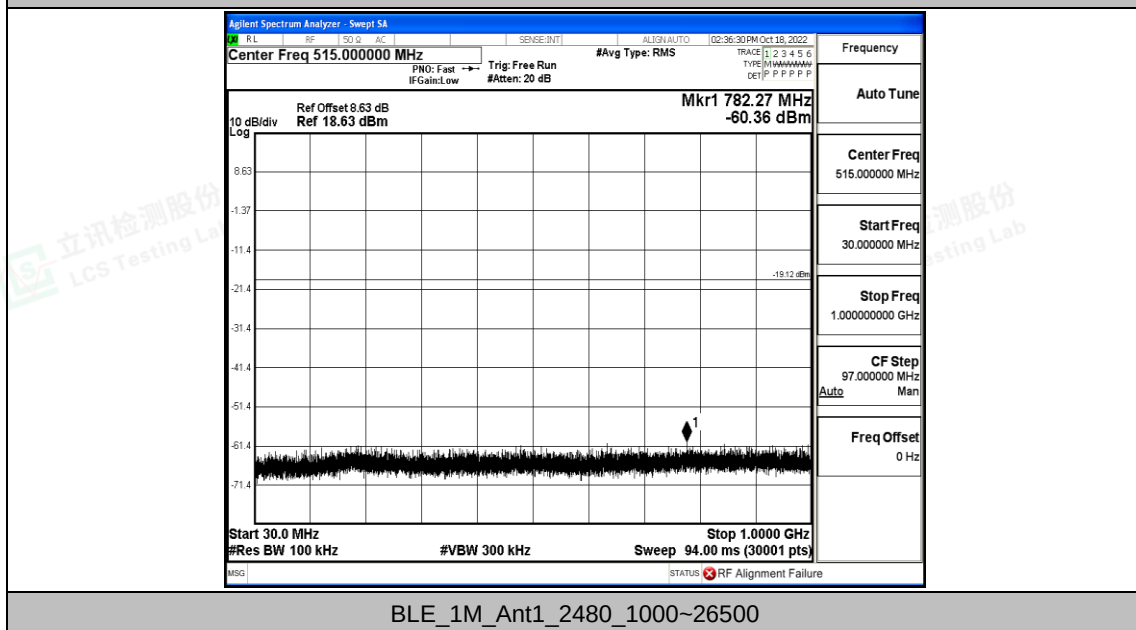
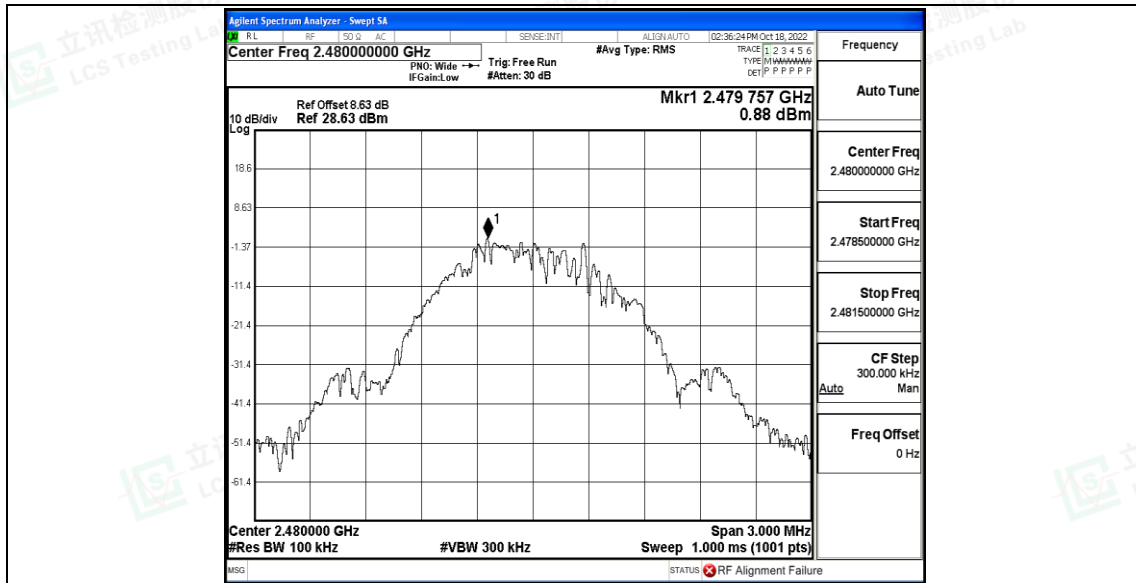


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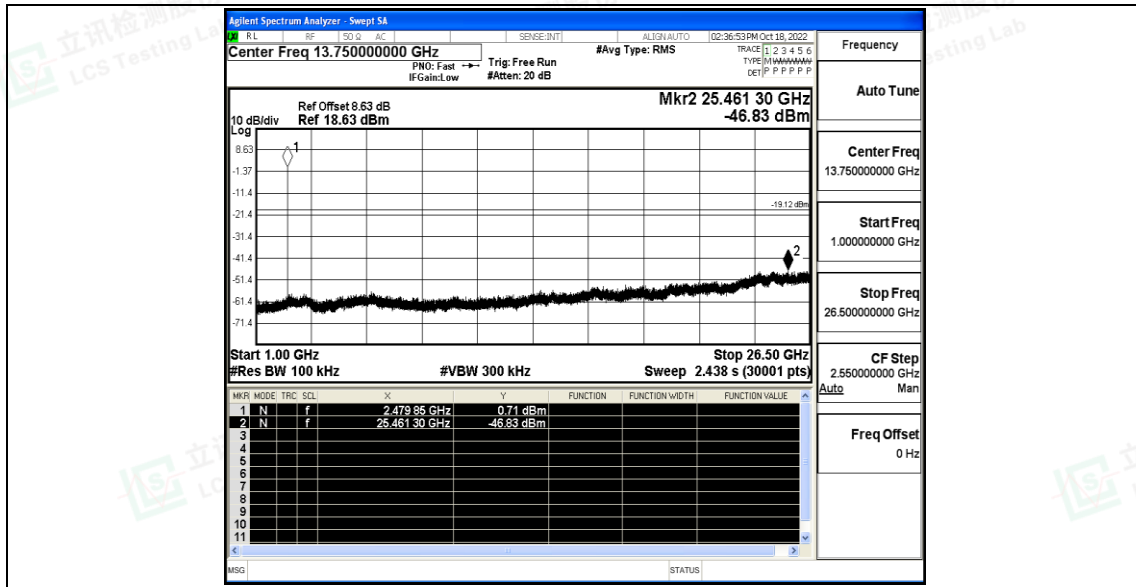


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## A.6 Duty Cycle

### Test Result

| TestMode | Antenna | Channel | ON Time<br>[ms] | Period<br>[ms] | X      | DC<br>[%] | xFactor | 1/T  | Limit | Verdict |
|----------|---------|---------|-----------------|----------------|--------|-----------|---------|------|-------|---------|
| BLE_1M   | Ant1    | 2402    | 0.39            | 0.63           | 0.6190 | 61.90     | 2.08    | 2.56 | ---   | PASS    |
|          |         | 2440    | 0.38            | 0.63           | 0.6032 | 60.32     | 2.20    | 2.63 | ---   | PASS    |
|          |         | 2480    | 0.39            | 0.63           | 0.6190 | 61.90     | 2.08    | 2.56 | ---   | PASS    |



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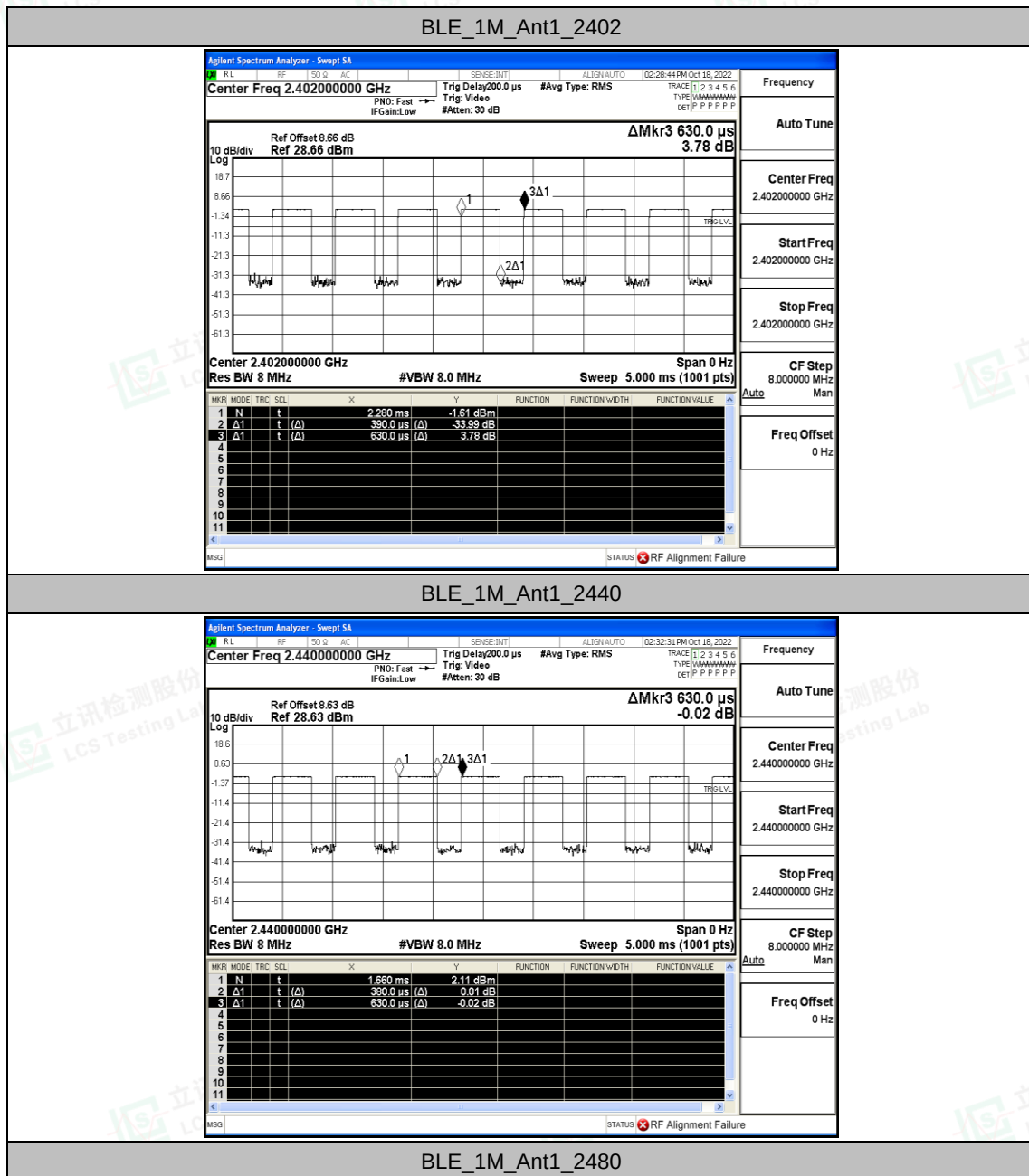
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## Test Graphs

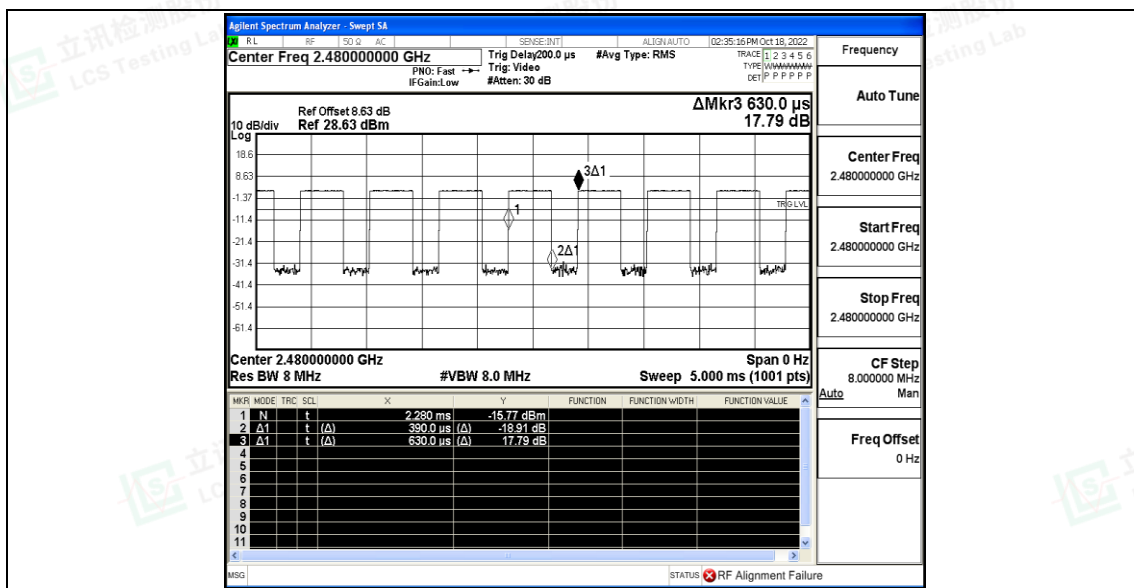


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## A.7 Emissions in Restricted Bands

### Test Result

| TestMode | Antenna | ChName | Channel | Detector | Freq.<br>[MHz] | Result<br>[dBm] | Limit<br>[dBm] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Verdict |
|----------|---------|--------|---------|----------|----------------|-----------------|----------------|--------------------|-------------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | AV       | 2310.000       | -57.35          | ≤-41.20        | 37.85              | ≤54               | PASS    |
|          |         |        |         | AV       | 2377.385       | -56.5           | ≤-41.20        | 38.70              | ≤54               | PASS    |
|          |         |        |         | AV       | 2390.000       | -56.8           | ≤-41.20        | 38.40              | ≤54               | PASS    |
|          |         |        |         | Peak     | 2310.000       | -49.38          | ≤-21.20        | 45.82              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2365.730       | -48.13          | ≤-21.20        | 47.07              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2390.000       | -48.47          | ≤-21.20        | 46.73              | ≤74               | PASS    |
|          |         | High   | 2480    | AV       | 2483.500       | -52.36          | ≤-41.20        | 42.84              | ≤54               | PASS    |
|          |         |        |         | AV       | 2483.520       | -52.36          | ≤-41.20        | 42.84              | ≤54               | PASS    |
|          |         |        |         | AV       | 2500.000       | -56.47          | ≤-41.20        | 38.73              | ≤54               | PASS    |
|          |         |        |         | Peak     | 2483.500       | -50.14          | ≤-21.20        | 45.06              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2492.000       | -46.95          | ≤-21.20        | 48.25              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2500.000       | -49.66          | ≤-21.20        | 45.54              | ≤74               | PASS    |

Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



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## Test Graphs

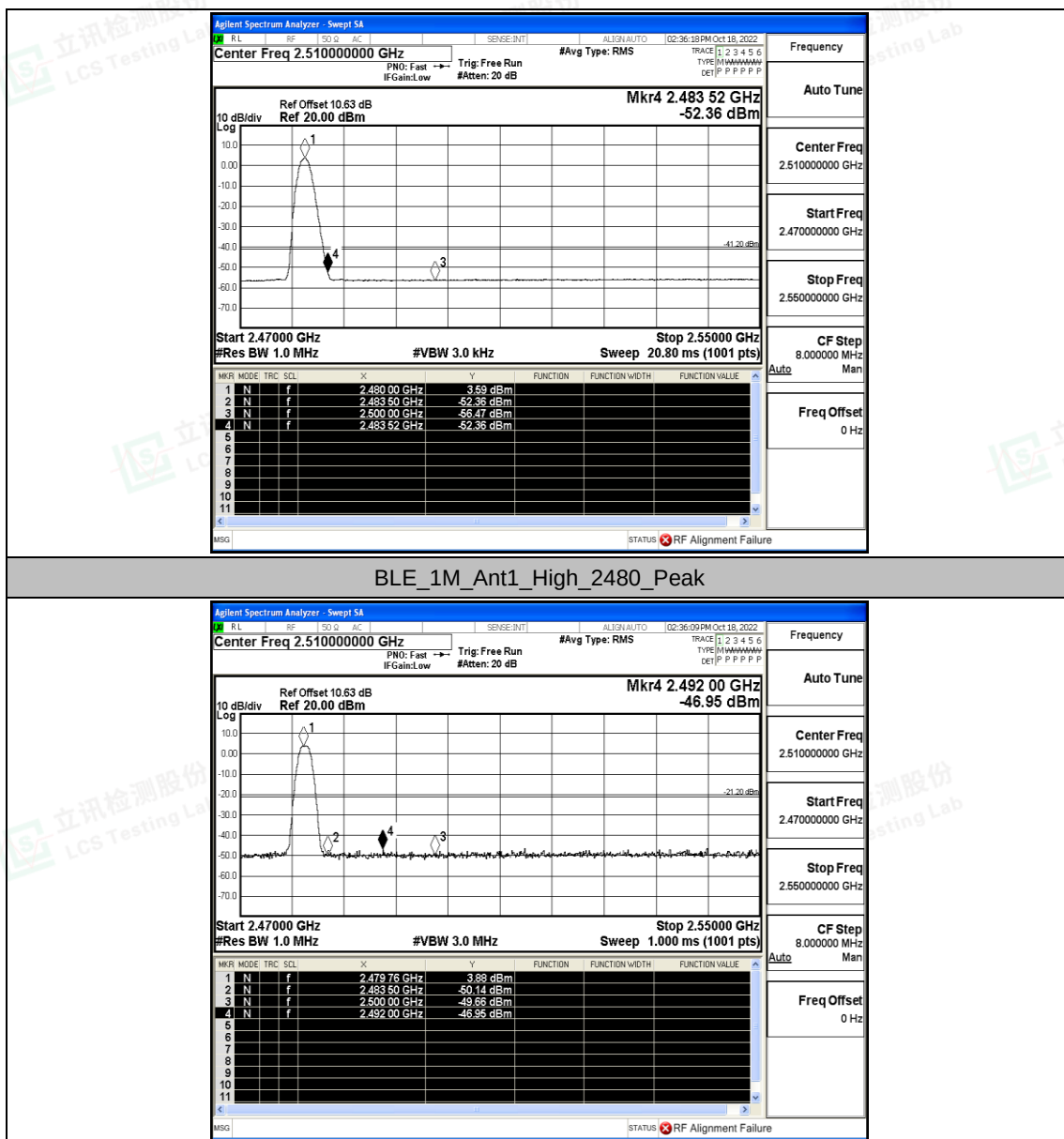


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