

## Appendix Test Data

|                  |                     |                    |                    |
|------------------|---------------------|--------------------|--------------------|
| Report No.:      | 1812C50526112501-01 | Test Sample No.:   | 1-2-2              |
| Start Test Date: | 2025-10-15          | Finish Test Date:  | 2025-10-15         |
| Test Engineer:   | <i>Alex Peng</i>    | Auditor:           | <i>Justin Feng</i> |
| Temperature:     | 26.6°C              | Relative Humidity: | 45%                |
| Pressure:        | 101kPa              |                    |                    |



## Appendix A: 6dB Bandwidth

### Test Result

| Test Mode | Antenna | Frequency[MHz] | 6dB BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE_1M    | Ant1    | 2402           | 0.668        | 2401.716 | 2402.384 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2440           | 0.680        | 2439.724 | 2440.404 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2480           | 0.704        | 2479.696 | 2480.400 | 0.5        | PASS    |

## Test Graphs





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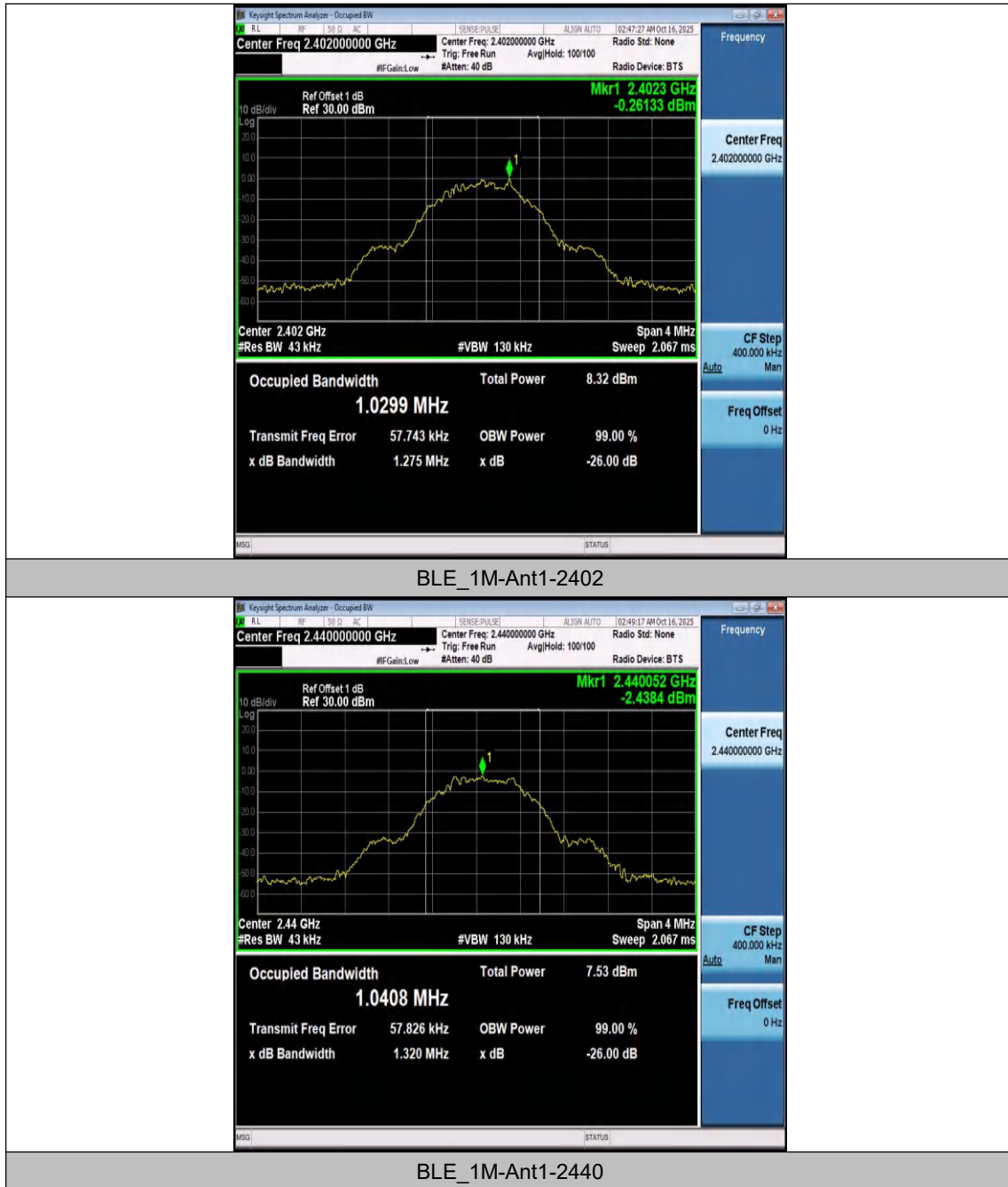
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## Appendix B: 99% Occupied Bandwidth

### Test Result

| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| BLE_1M    | Ant1    | 2402           | 1.0299    | 2401.5428 | 2402.5727 | ---        | ---     |
| BLE_1M    | Ant1    | 2440           | 1.0408    | 2439.5374 | 2440.5782 | ---        | ---     |
| BLE_1M    | Ant1    | 2480           | 1.0358    | 2479.5417 | 2480.5775 | ---        | ---     |

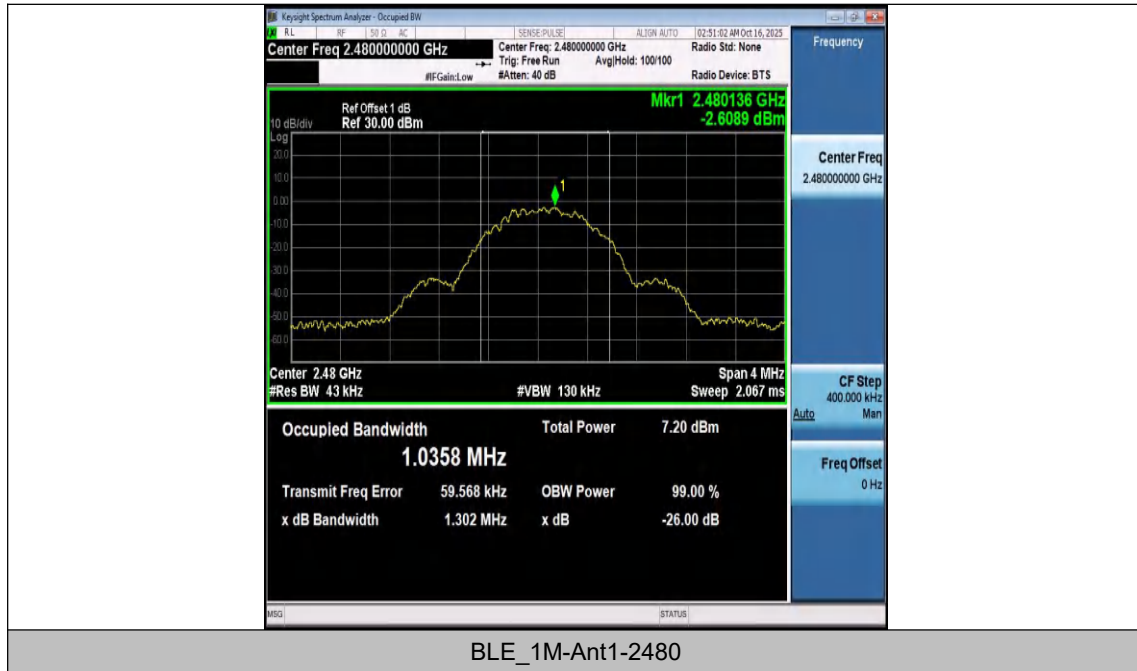
## Test Graphs



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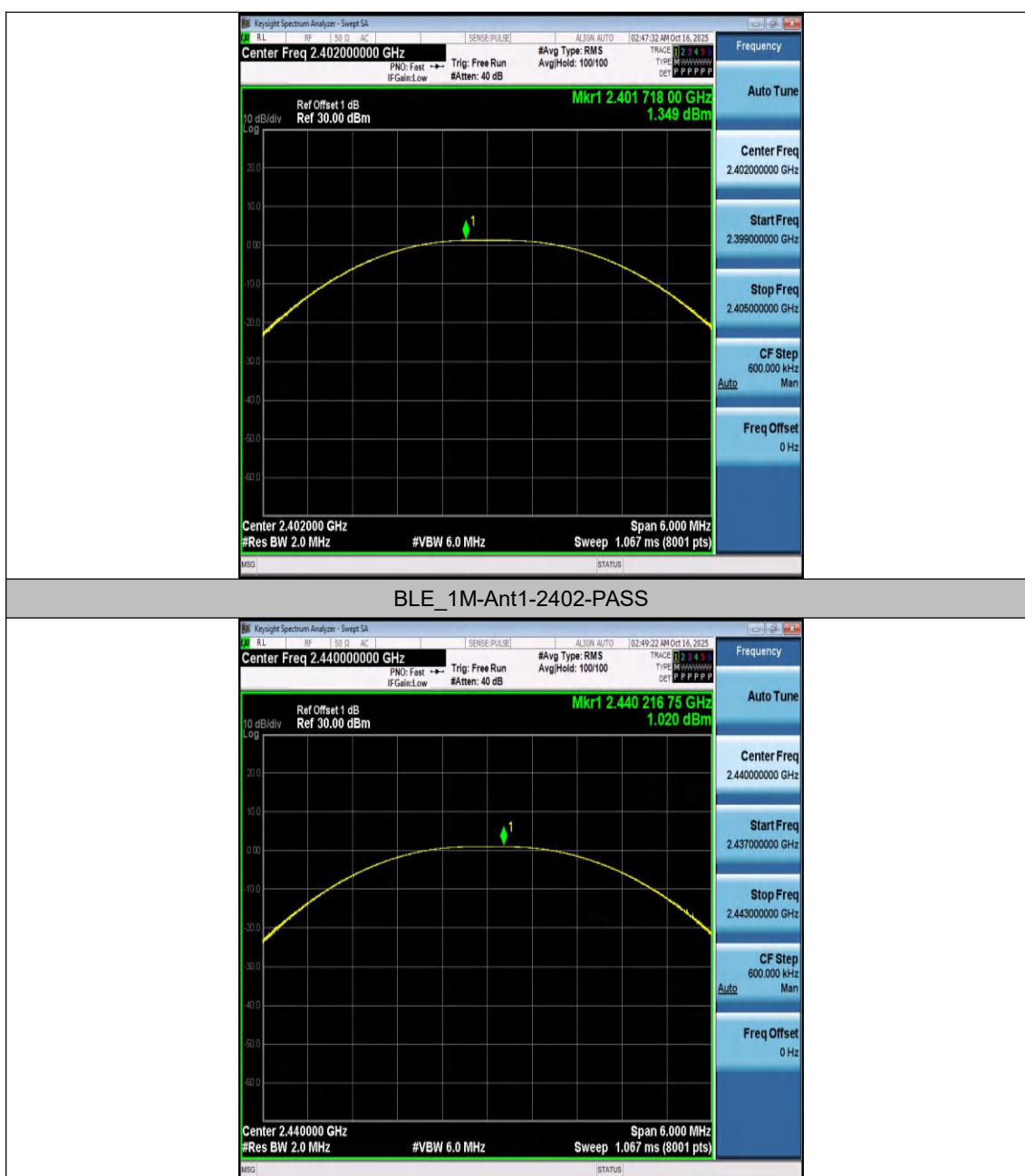
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## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------------|---------------------------|----------------------|---------|
| BLE_1M    | Ant1    | 2402            | 1.35                      | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2440            | 1.02                      | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2480            | 0.45                      | ≤30                  | PASS    |

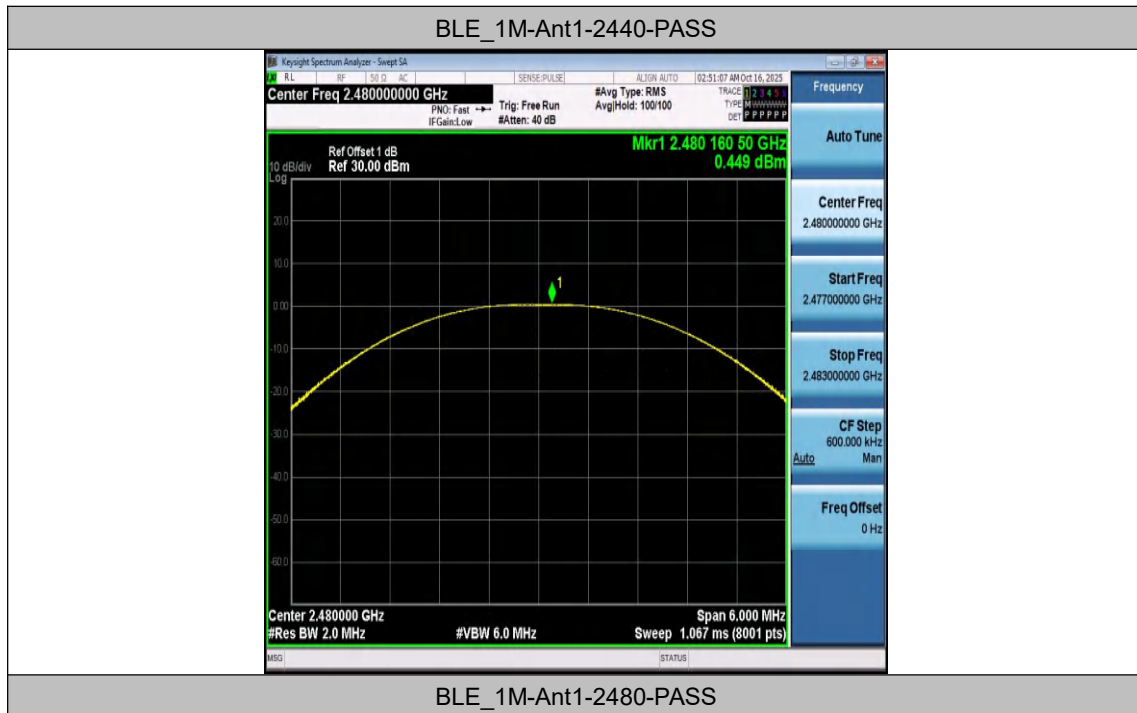
### Test Graphs Peak



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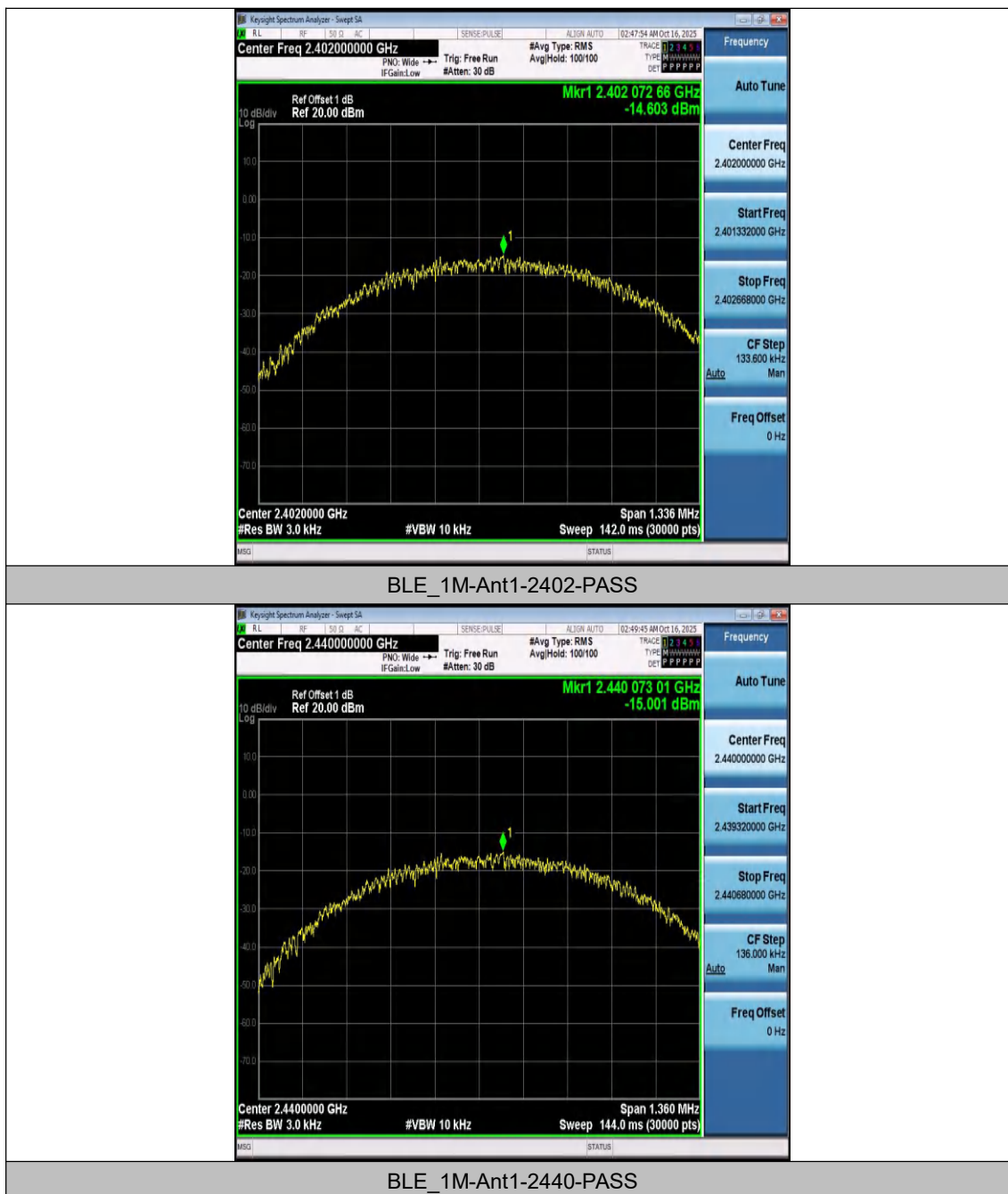
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## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -14.60           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -15.00           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -15.66           | ≤8.00           | PASS    |

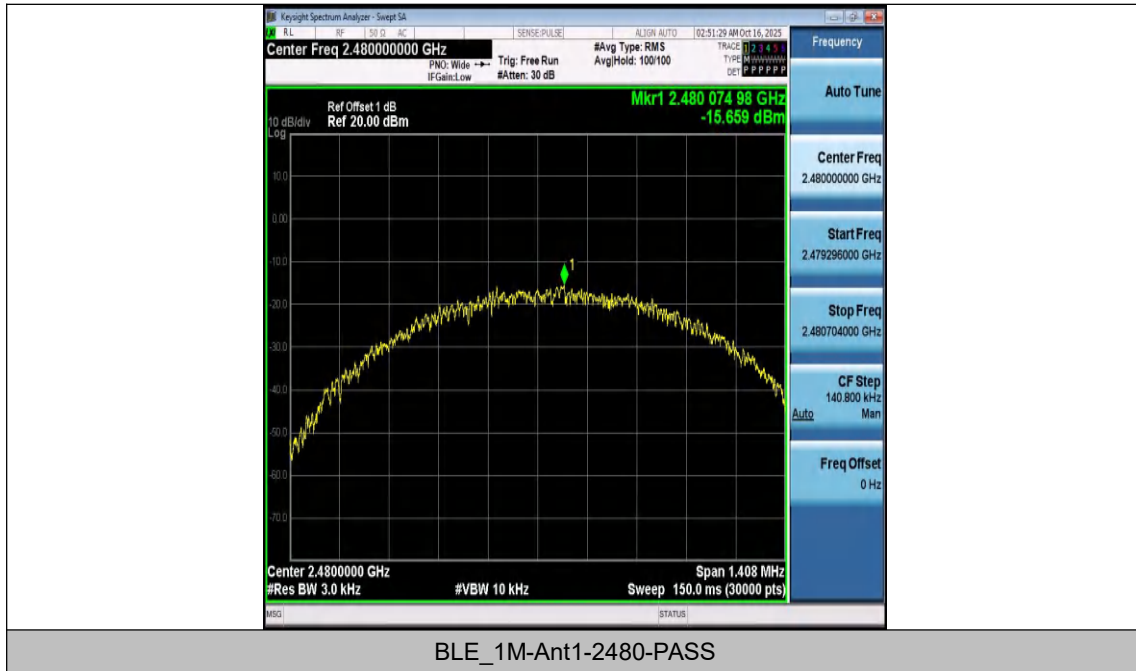
## Test Graphs



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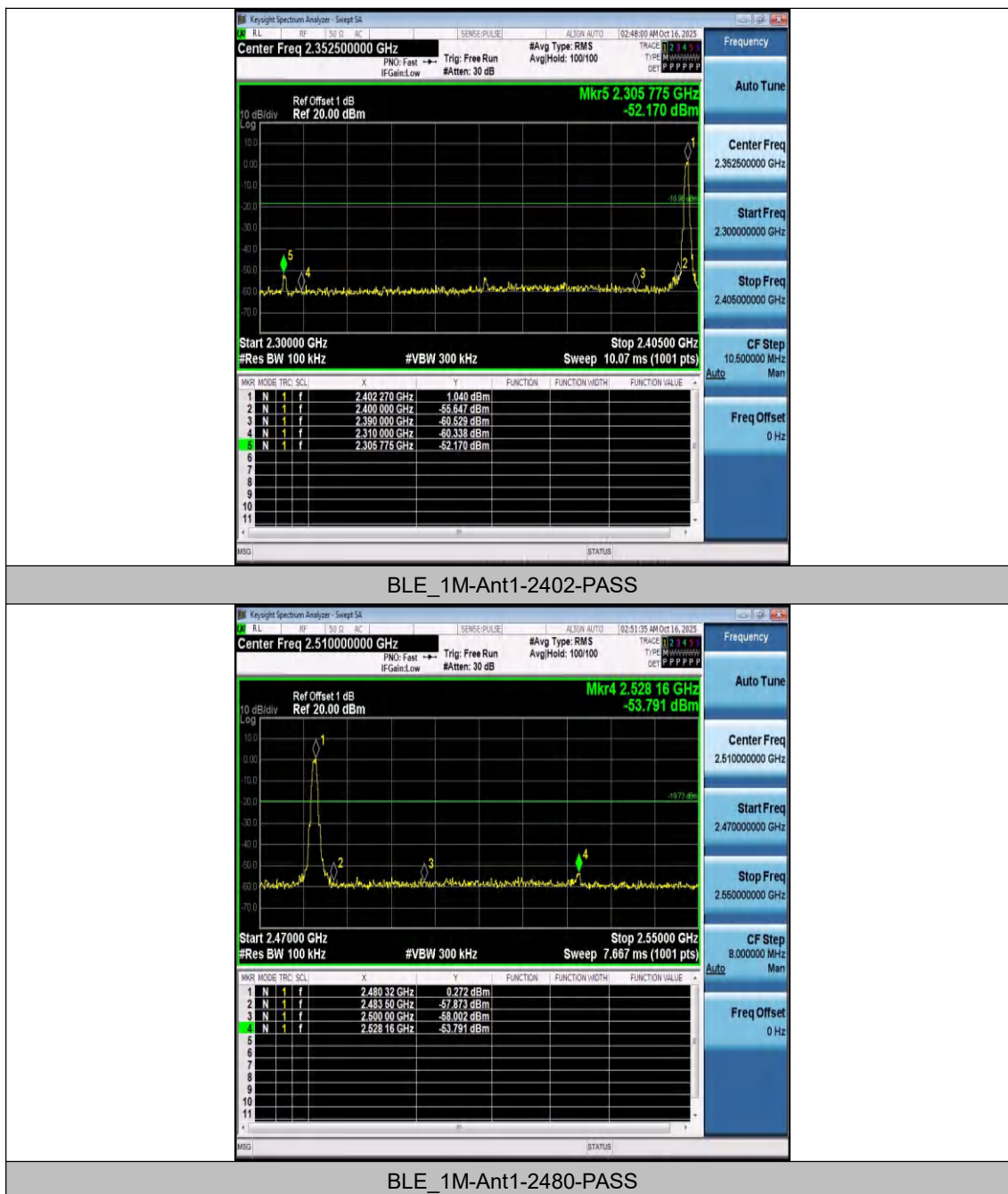
## Appendix E: Band edge measurements

### Test Result

| Test Mode | Antenna | ChName | Frequency [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|--------|-----------------|----------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | Low    | 2402            | 1.04           | -52.17       | ≤-18.96     | PASS    |
| BLE_1M    | Ant1    | High   | 2480            | 0.27           | -53.79       | ≤-19.73     | PASS    |

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

## Test Graphs



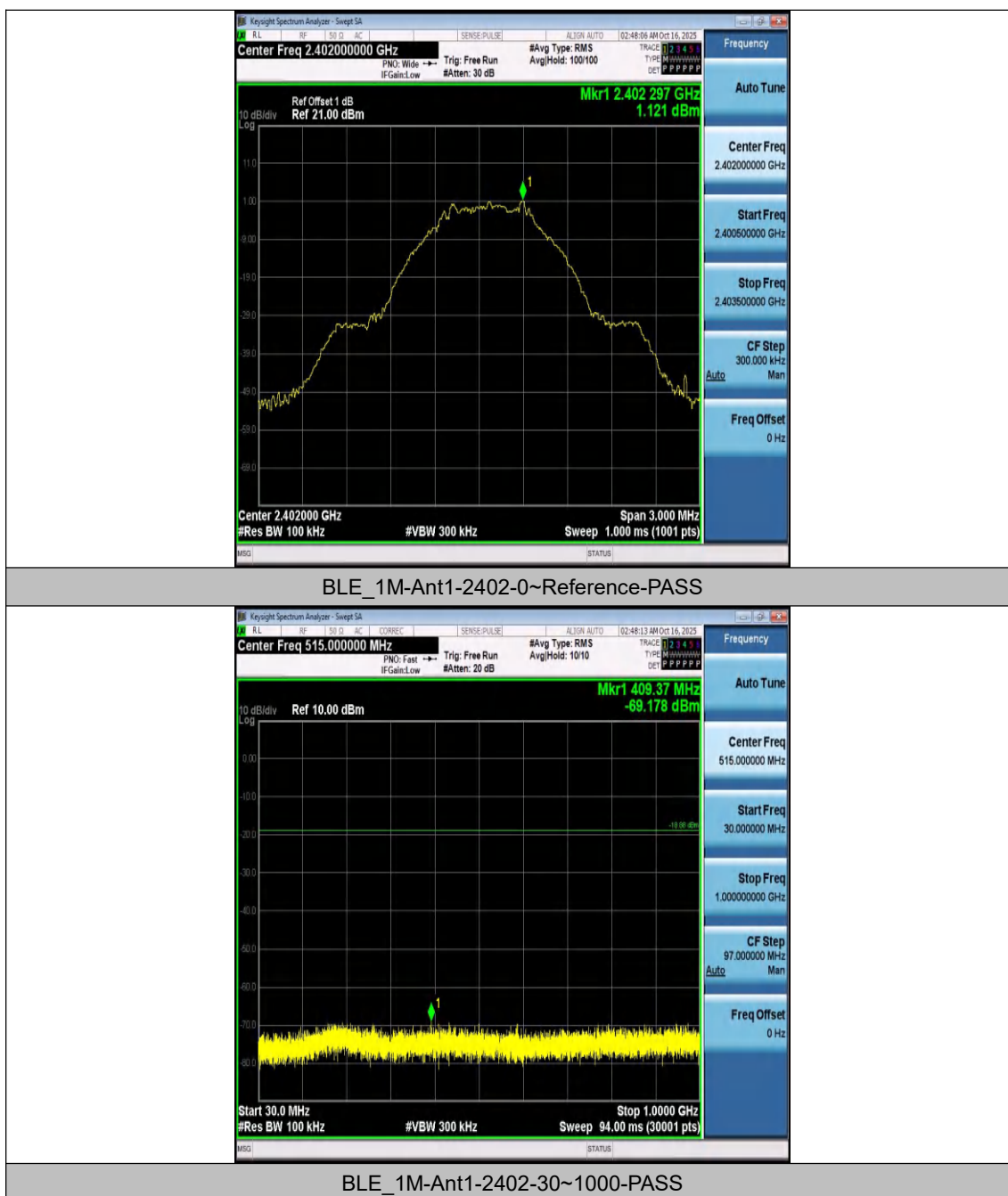
## Appendix F: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | 2402            | 0~Reference       | 1.12             | 1.12         | ---         | PASS    |
| BLE_1M    | Ant1    | 2402            | 30~1000           | 1.12             | -69.18       | ≤-18.88     | PASS    |
| BLE_1M    | Ant1    | 2402            | 1000~26500        | 1.12             | -43.01       | ≤-18.88     | PASS    |
| BLE_1M    | Ant1    | 2440            | 0~Reference       | 0.52             | 0.52         | ---         | PASS    |
| BLE_1M    | Ant1    | 2440            | 30~1000           | 0.52             | -68.84       | ≤-19.48     | PASS    |
| BLE_1M    | Ant1    | 2440            | 1000~26500        | 0.52             | -43.77       | ≤-19.48     | PASS    |
| BLE_1M    | Ant1    | 2480            | 0~Reference       | 0.31             | 0.31         | ---         | PASS    |
| BLE_1M    | Ant1    | 2480            | 30~1000           | 0.31             | -68.65       | ≤-19.69     | PASS    |
| BLE_1M    | Ant1    | 2480            | 1000~26500        | 0.31             | -44.59       | ≤-19.69     | PASS    |

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

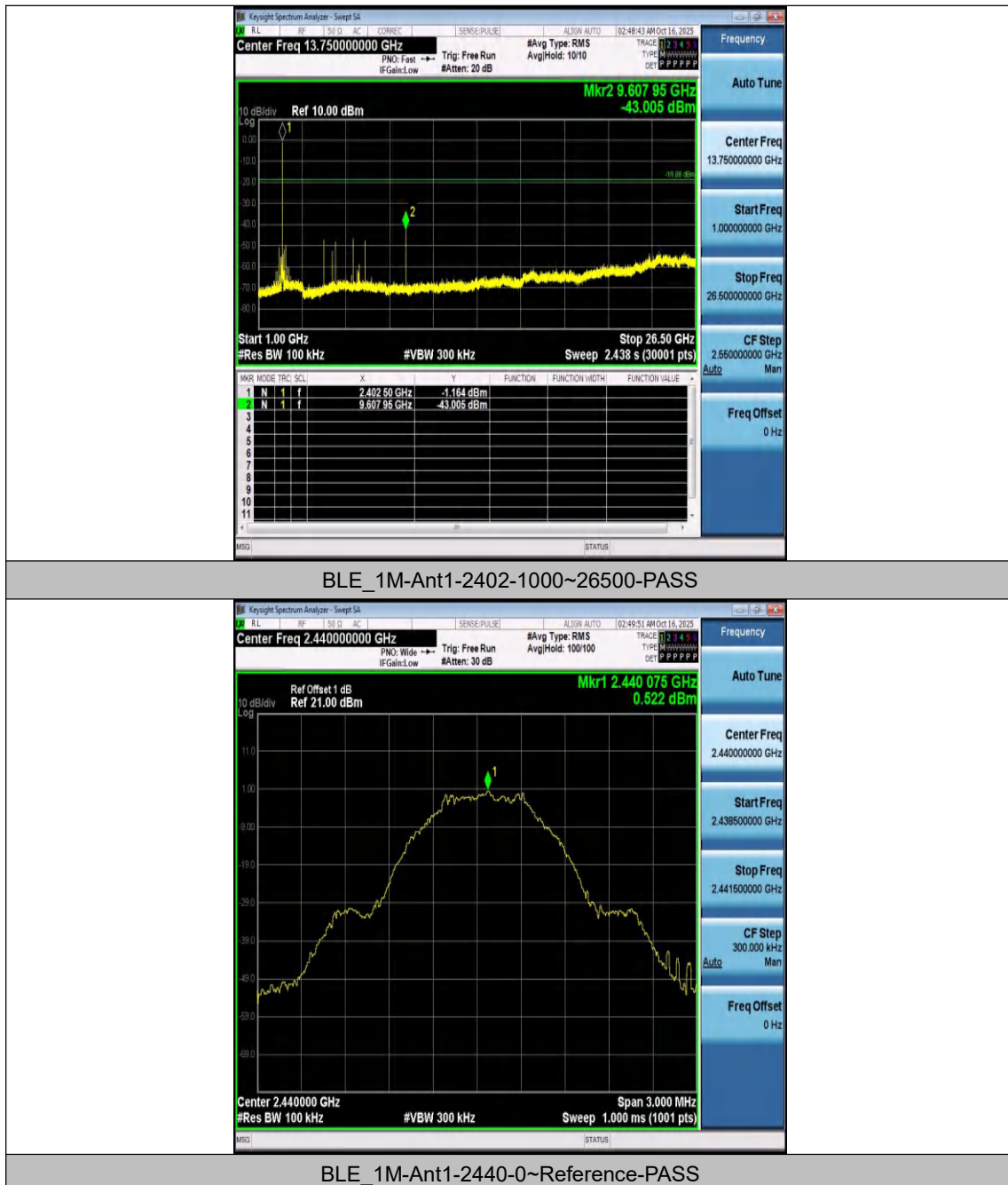
## Test Graphs



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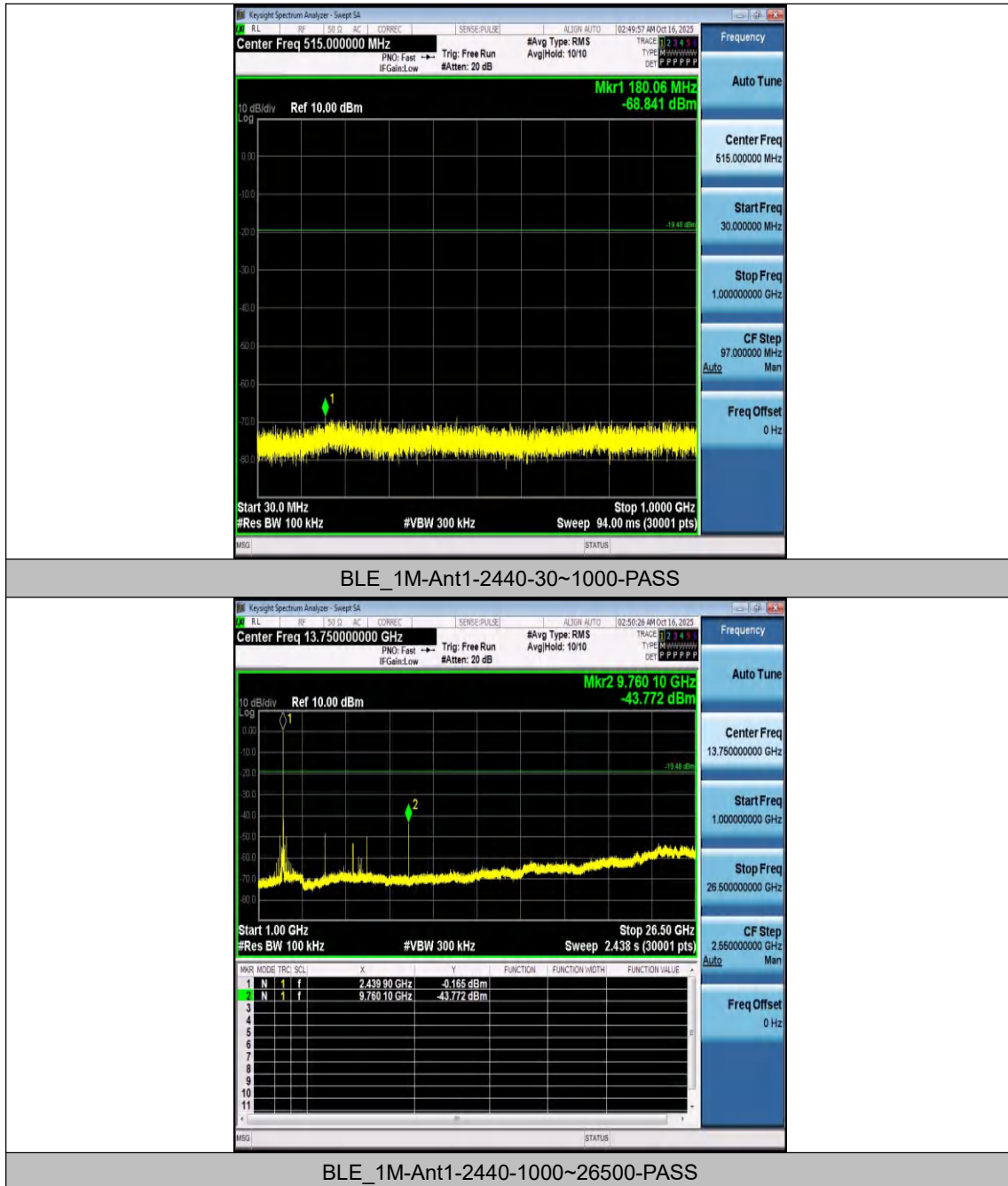
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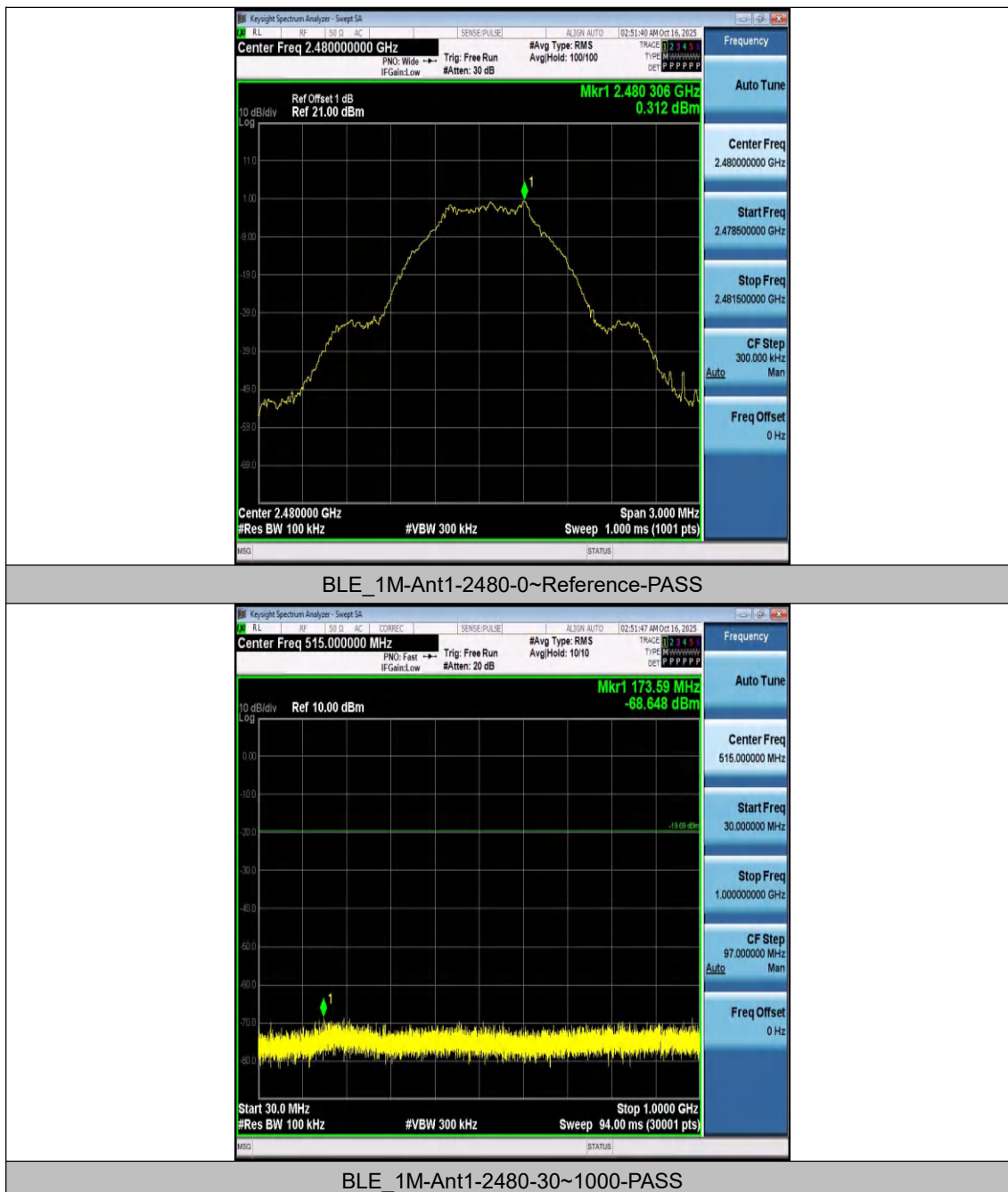
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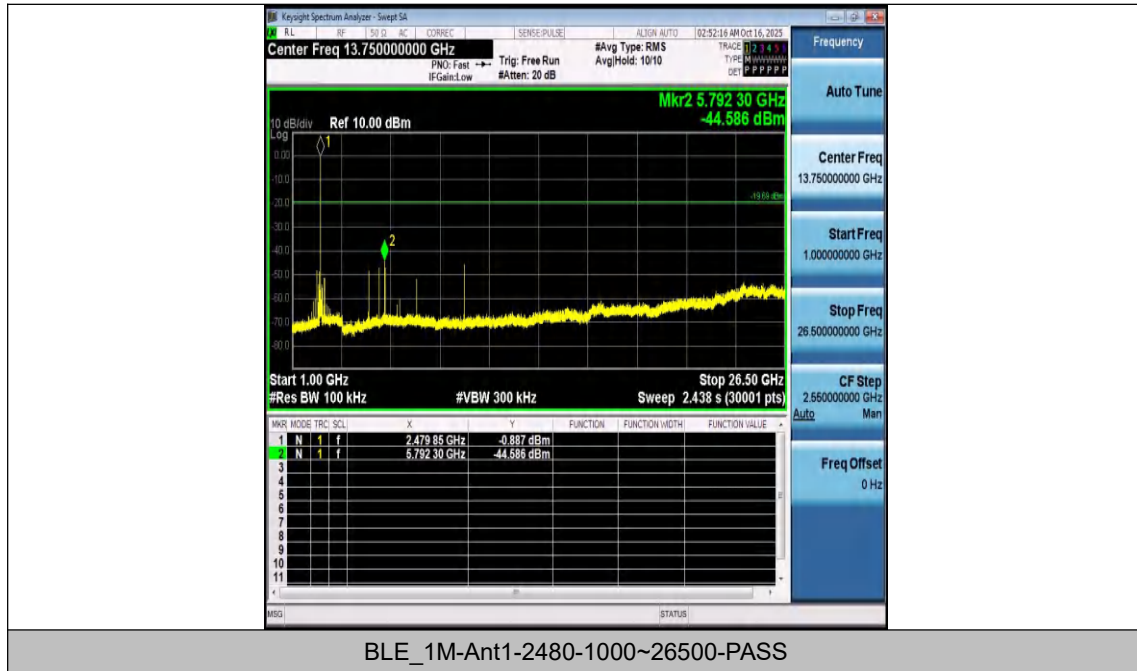
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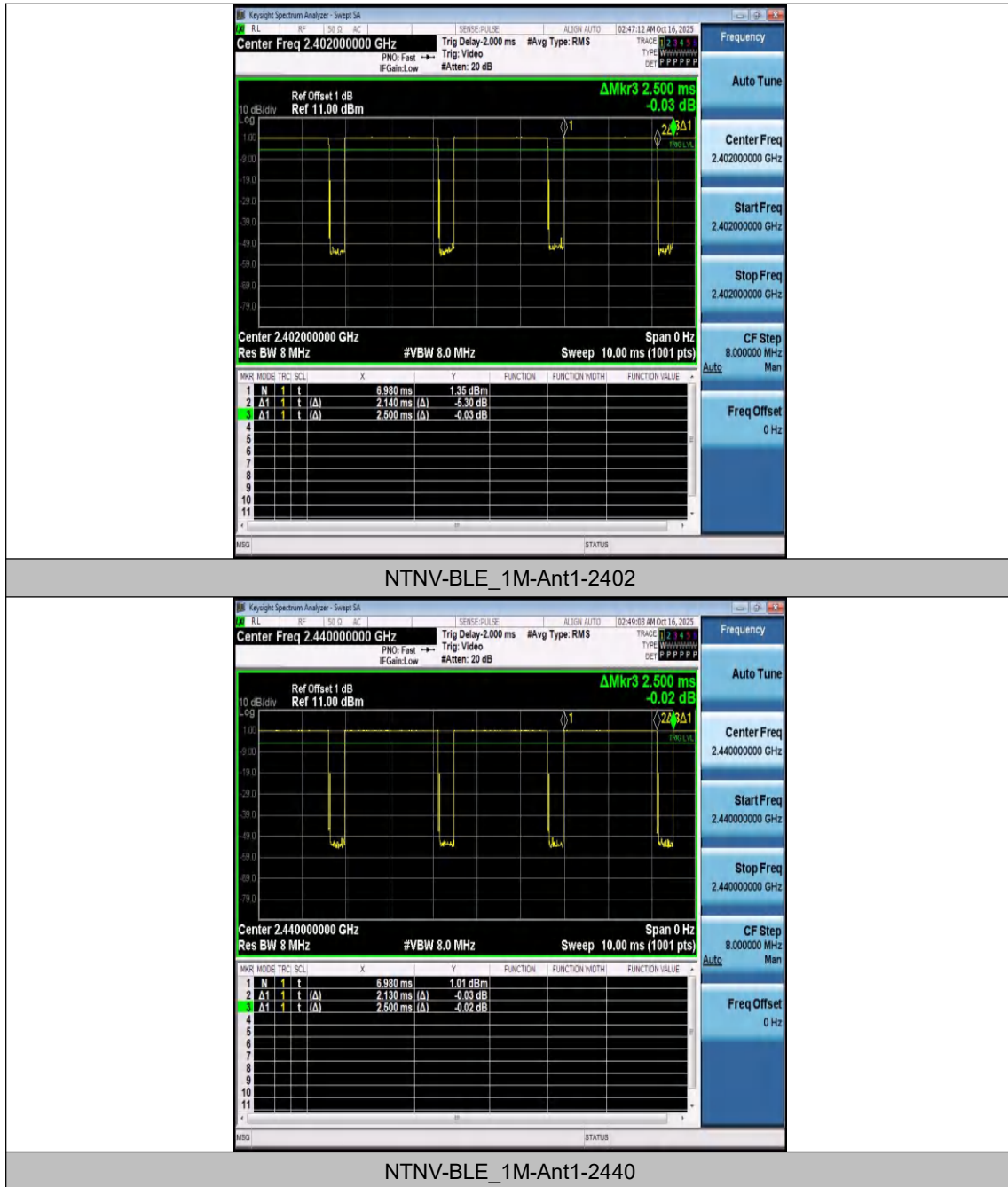
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## Appendix G: Duty Cycle

### Test Result

| Test Mode | Antenna | Frequency [MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|-----------|---------|-----------------|--------------|-------------|----------------|-----------------------|
| BLE_1M    | Ant1    | 2402            | 2.14         | 2.50        | 85.60          | 0.68                  |
| BLE_1M    | Ant1    | 2440            | 2.13         | 2.50        | 85.20          | 0.70                  |
| BLE_1M    | Ant1    | 2480            | 2.13         | 2.50        | 85.20          | 0.70                  |

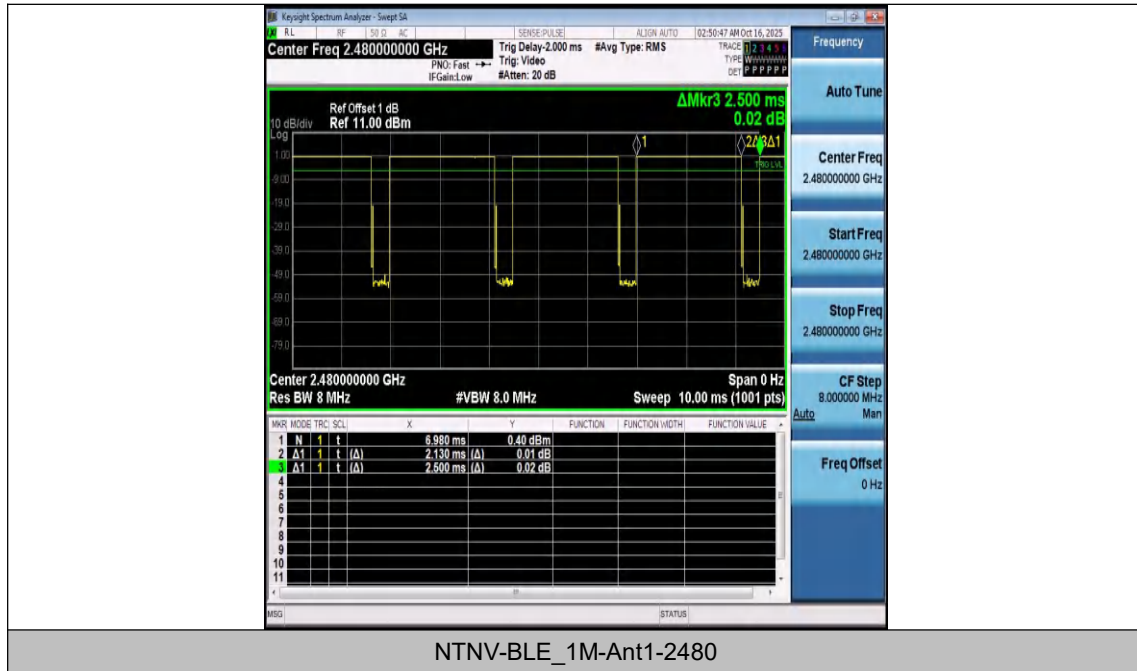
## Test Graphs



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