

## Appendix Test Data

|                  |                     |                    |                    |
|------------------|---------------------|--------------------|--------------------|
| Report No.:      | 1812C50566012501-01 | Test Sample No.:   | 1-2-2              |
| Start Test Date: | 2025-10-29          | Finish Test Date:  | 2025-10-30         |
| Test Engineer:   | <i>Alex Peng</i>    | Auditor:           | <i>Justin Feng</i> |
| Temperature:     | 25.1°C              | Relative Humidity: | 50%                |
| 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           | 0.680        | 2401.668 | 2402.348 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2440           | 0.640        | 2439.700 | 2440.340 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2480           | 0.668        | 2479.668 | 2480.336 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2402           | 1.168        | 2401.384 | 2402.552 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2440           | 1.200        | 2439.396 | 2440.596 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2480           | 1.200        | 2479.392 | 2480.592 | 0.5        | PASS    |

## Test Graphs



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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           | 1.0251    | 2401.5213 | 2402.5464 | ---        | ---     |
| BLE_1M    | Ant1    | 2440           | 1.0296    | 2439.5189 | 2440.5485 | ---        | ---     |
| BLE_1M    | Ant1    | 2480           | 1.0274    | 2479.5215 | 2480.5489 | ---        | ---     |
| BLE_2M    | Ant1    | 2402           | 2.0520    | 2401.0154 | 2403.0674 | ---        | ---     |
| BLE_2M    | Ant1    | 2440           | 2.0463    | 2439.0169 | 2441.0632 | ---        | ---     |
| BLE_2M    | Ant1    | 2480           | 2.0502    | 2479.0123 | 2481.0625 | ---        | ---     |

## Test Graphs



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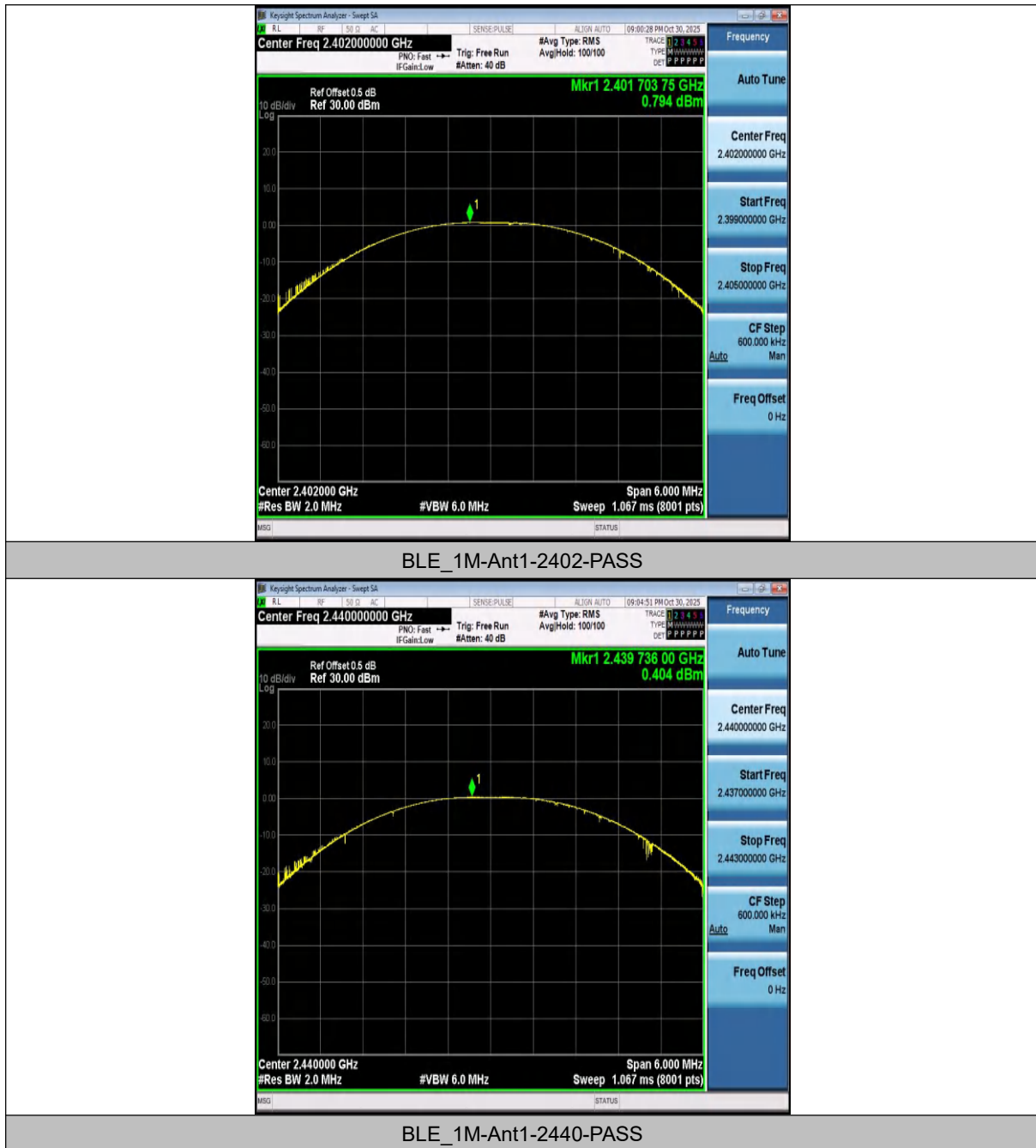
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## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------------|---------------------------|----------------------|---------|
| BLE_1M    | Ant1    | 2402            | 0.79                      | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2440            | 0.40                      | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2480            | -0.12                     | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2402            | <b>0.84</b>               | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2440            | 0.44                      | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2480            | -0.09                     | ≤30                  | PASS    |

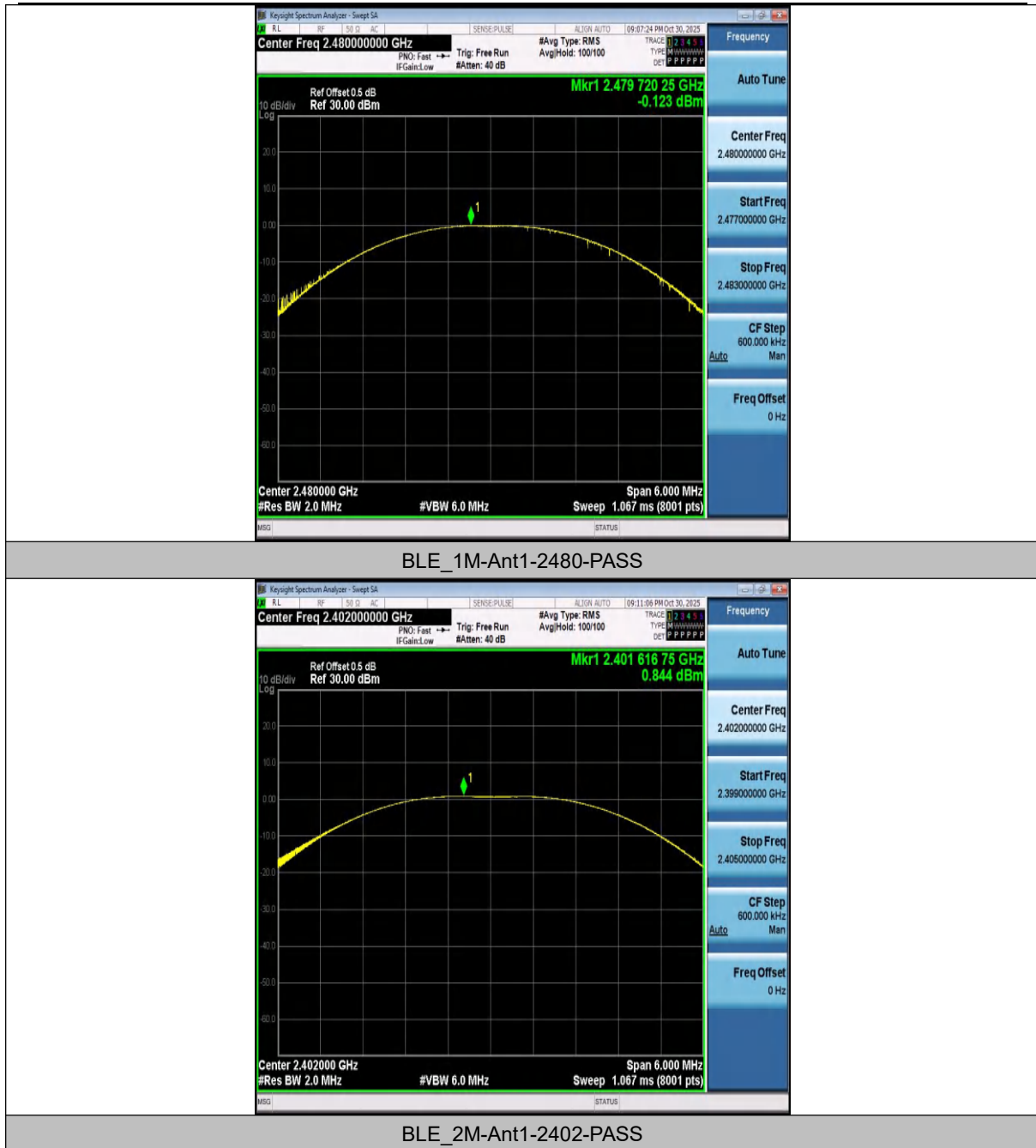
## Test Graphs Peak



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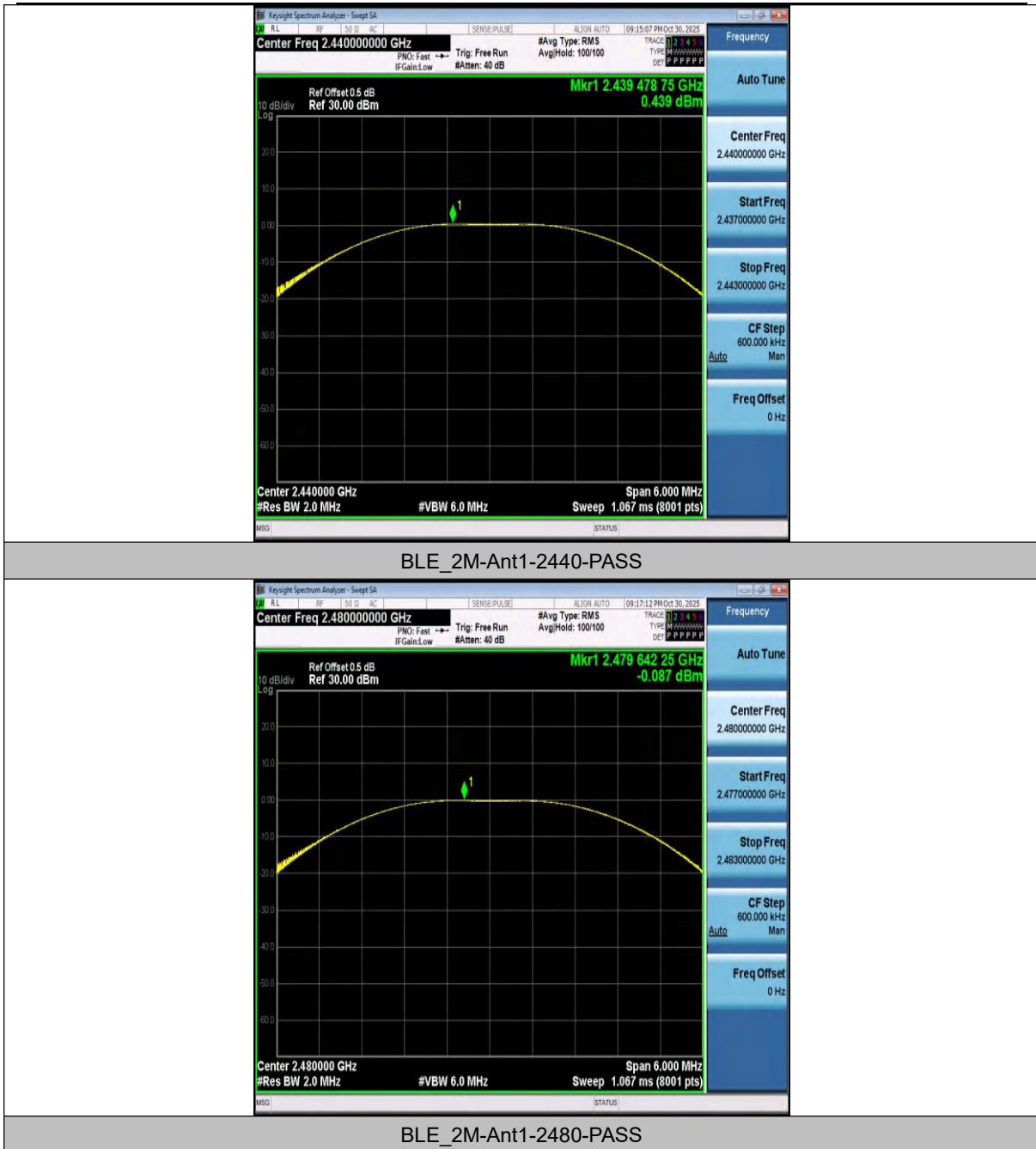
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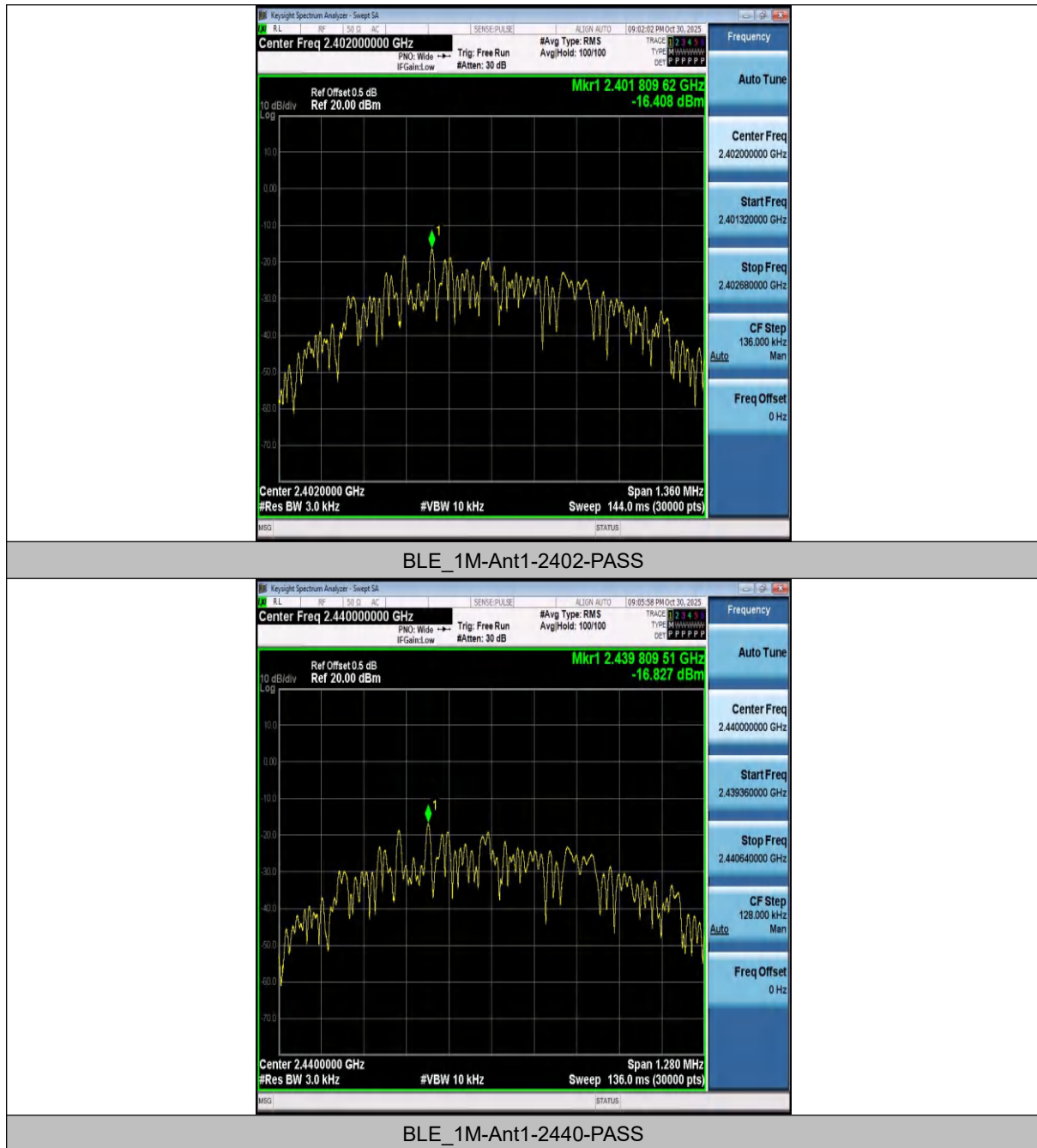
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## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -16.41           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -16.83           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -17.31           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2402           | -22.17           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2440           | -22.36           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2480           | -23.02           | ≤8.00           | PASS    |

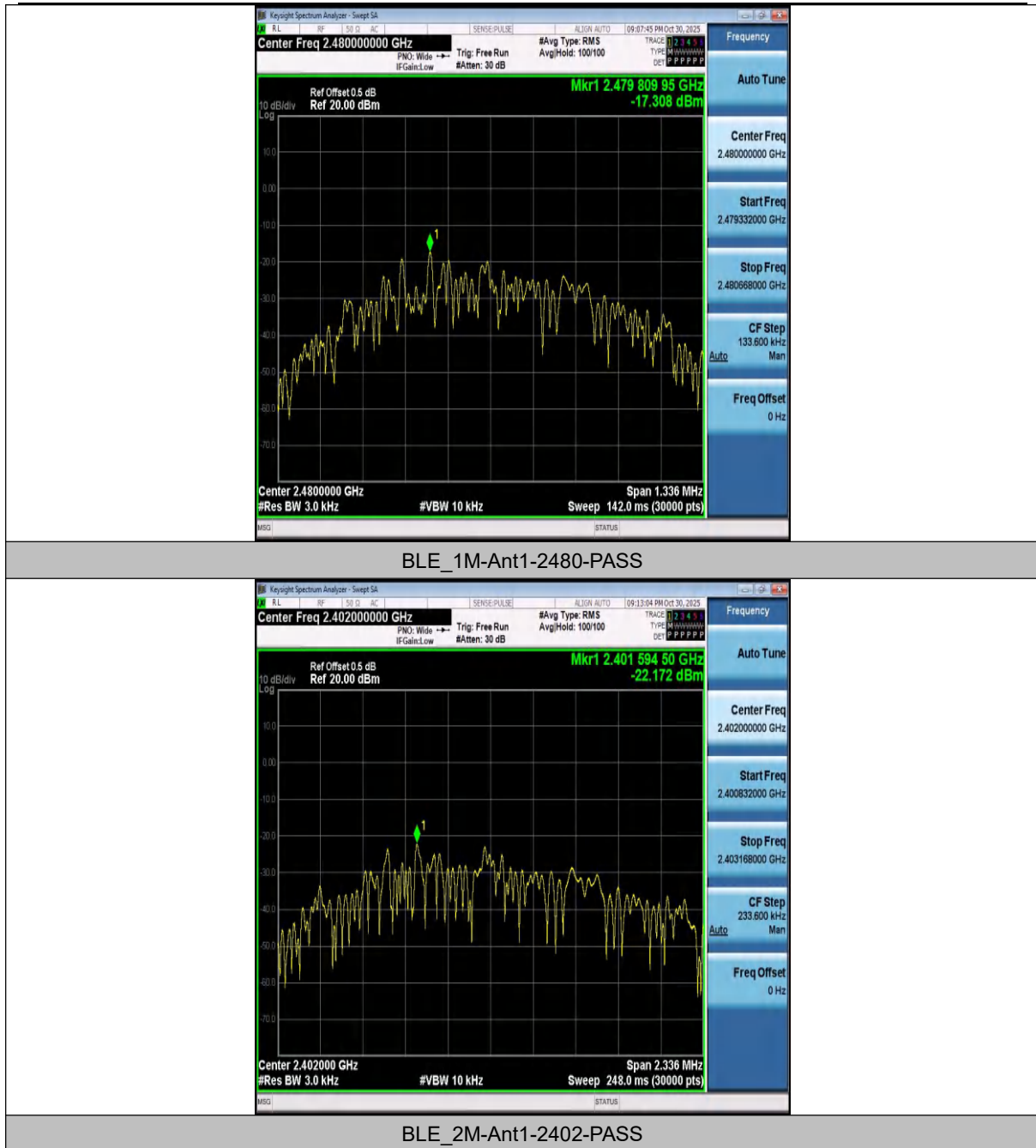
## Test Graphs



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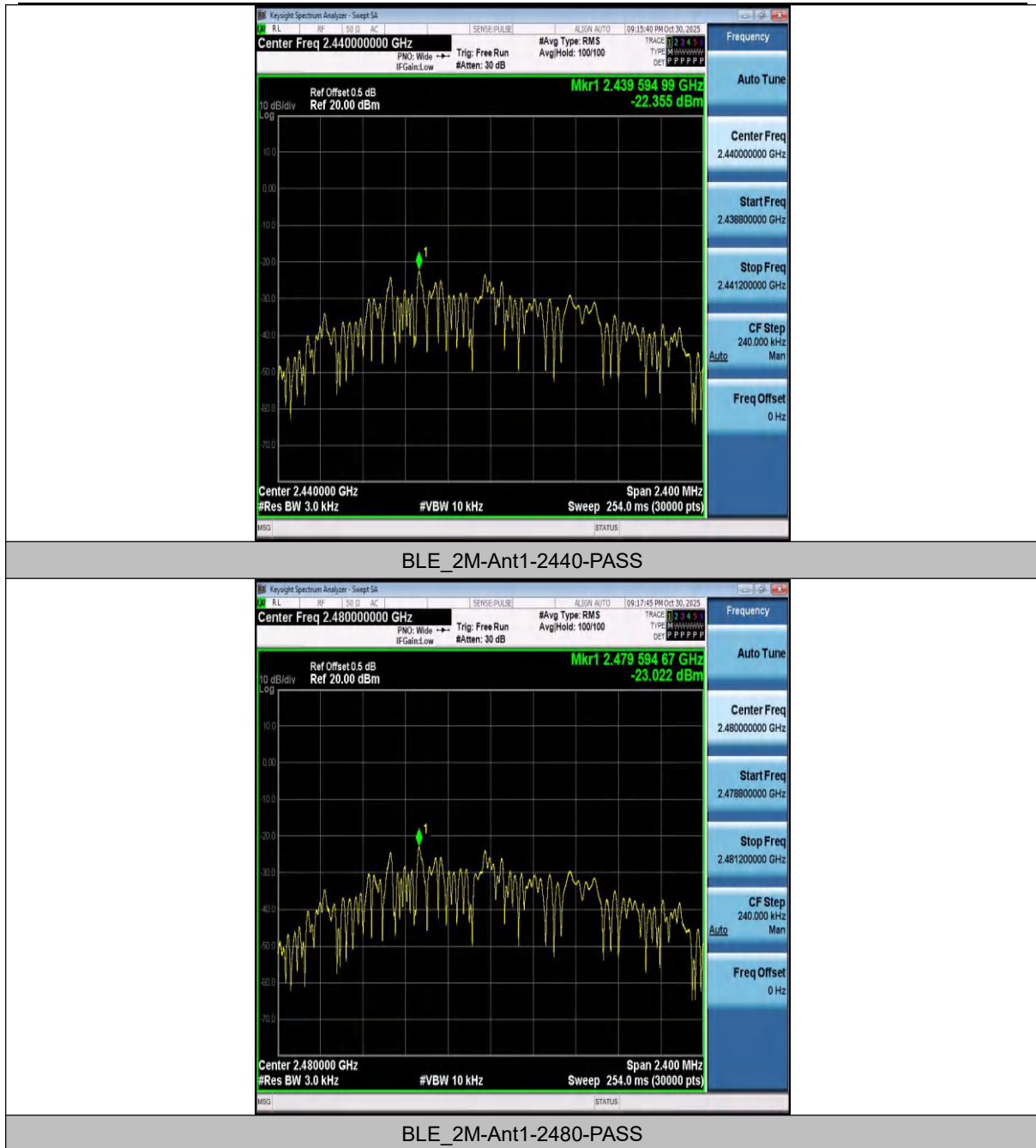
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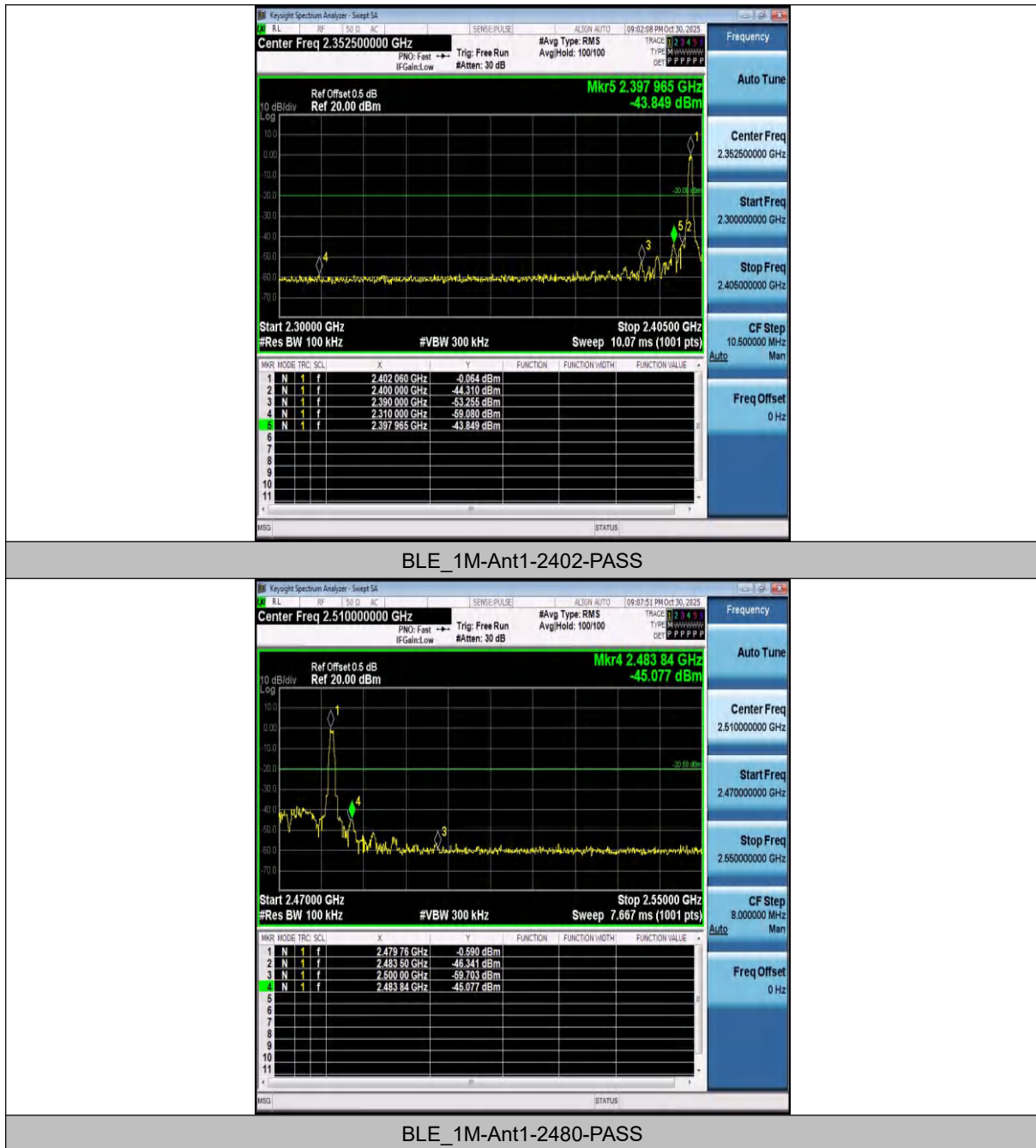
## Appendix E: Band edge measurements

### Test Result

| Test Mode | Antenna | ChName | Frequency [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|--------|-----------------|----------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | Low    | 2402            | -0.06          | -43.85       | ≤-20.06     | PASS    |
| BLE_1M    | Ant1    | High   | 2480            | -0.59          | -45.08       | ≤-20.59     | PASS    |
| BLE_2M    | Ant1    | Low    | 2402            | -1.99          | -33.83       | ≤-21.99     | PASS    |
| BLE_2M    | Ant1    | High   | 2480            | -3.14          | -45.08       | ≤-23.14     | 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.

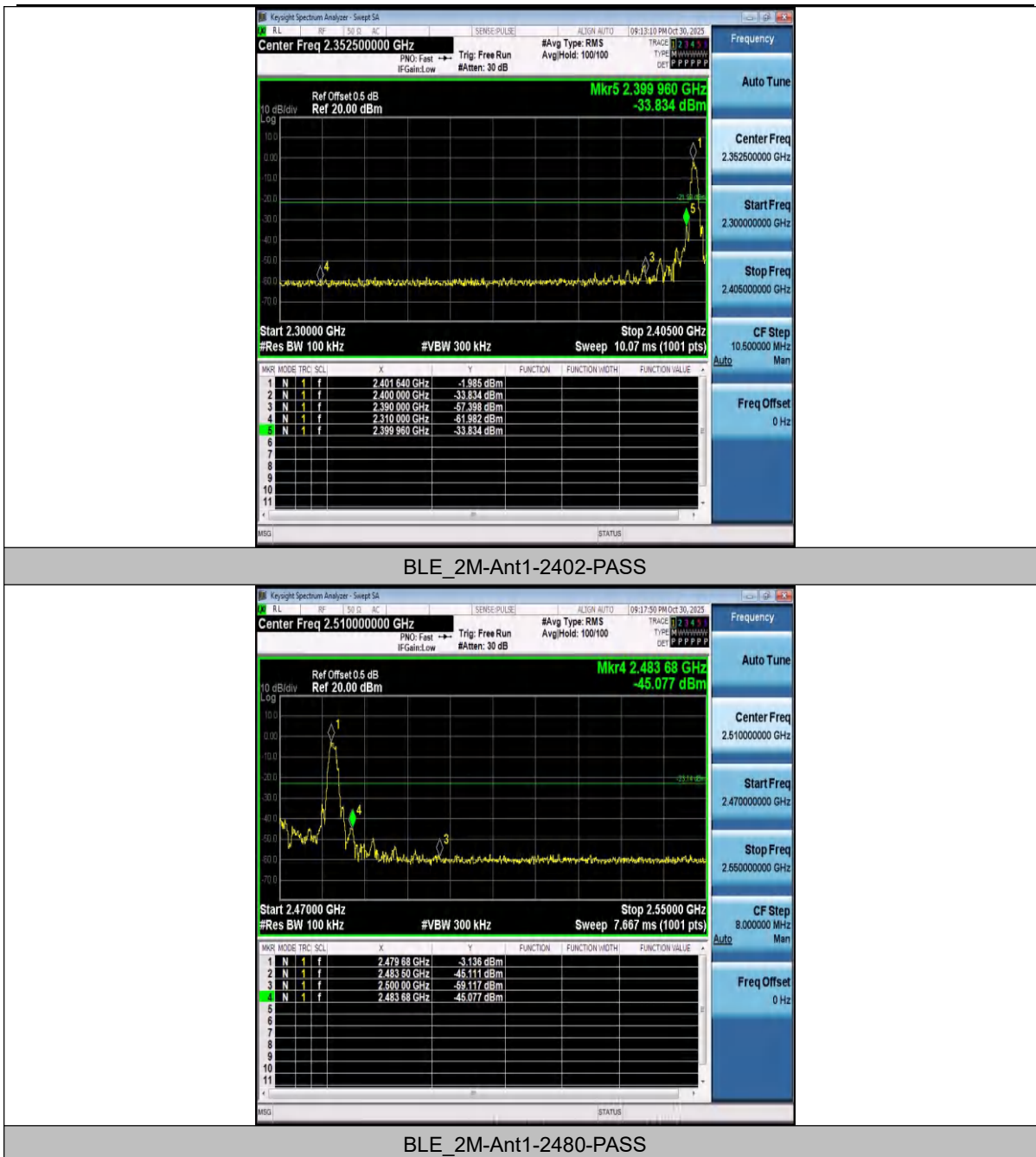
## Test Graphs



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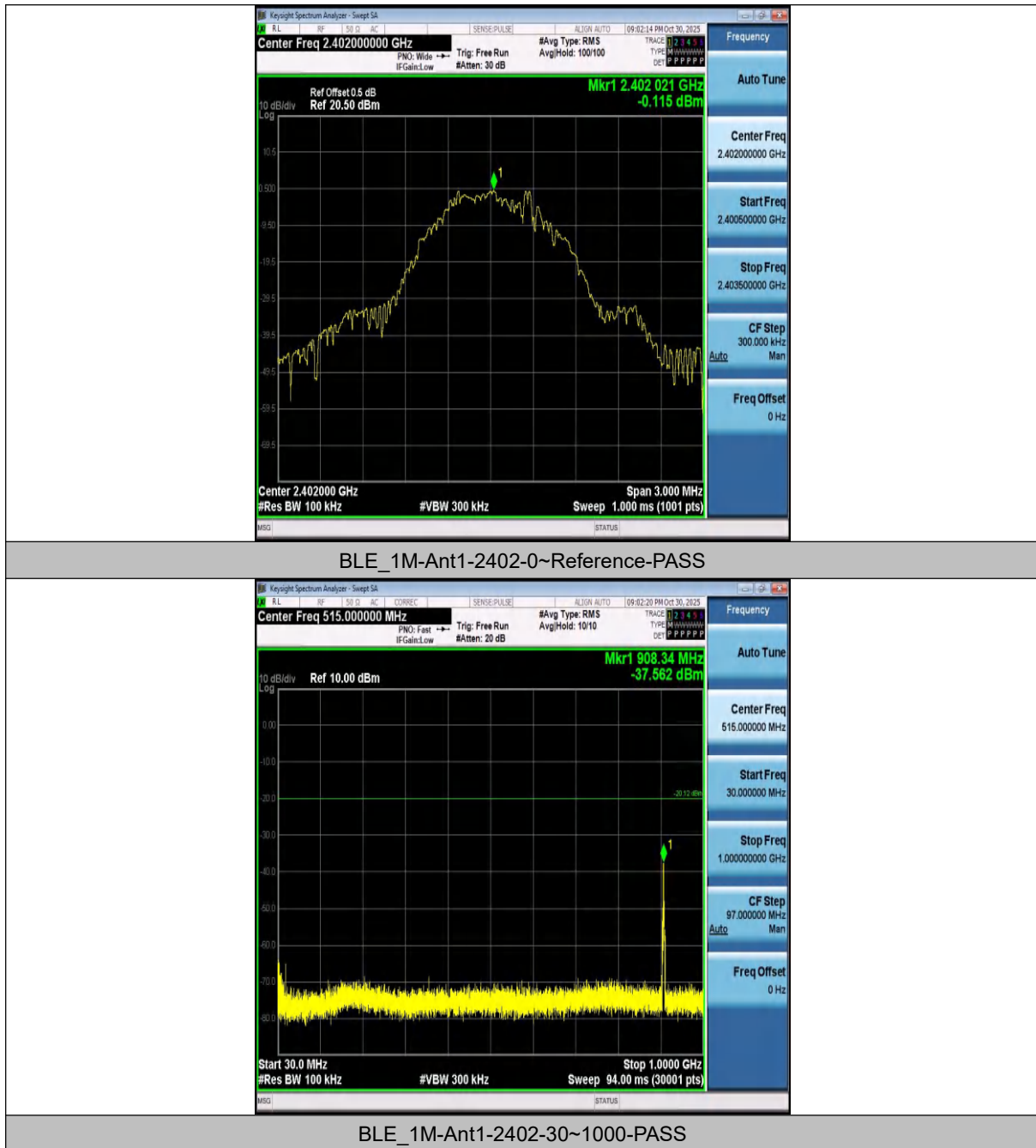
## Appendix F: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | 2402            | 0~Reference       | -0.12            | -0.12        | ---         | PASS    |
| BLE_1M    | Ant1    | 2402            | 30~1000           | -0.12            | -37.56       | ≤-20.12     | PASS    |
| BLE_1M    | Ant1    | 2402            | 1000~26500        | -0.12            | -47.73       | ≤-20.12     | PASS    |
| BLE_1M    | Ant1    | 2440            | 0~Reference       | -0.49            | -0.49        | ---         | PASS    |
| BLE_1M    | Ant1    | 2440            | 30~1000           | -0.49            | -63.28       | ≤-20.49     | PASS    |
| BLE_1M    | Ant1    | 2440            | 1000~26500        | -0.49            | -50.46       | ≤-20.49     | PASS    |
| BLE_1M    | Ant1    | 2480            | 0~Reference       | -1.08            | -1.08        | ---         | PASS    |
| BLE_1M    | Ant1    | 2480            | 30~1000           | -1.08            | -64.56       | ≤-21.08     | PASS    |
| BLE_1M    | Ant1    | 2480            | 1000~26500        | -1.08            | -44.12       | ≤-21.08     | PASS    |
| BLE_2M    | Ant1    | 2402            | 0~Reference       | -0.51            | -0.51        | ---         | PASS    |
| BLE_2M    | Ant1    | 2402            | 30~1000           | -0.51            | -46.35       | ≤-20.51     | PASS    |
| BLE_2M    | Ant1    | 2402            | 1000~26500        | -0.51            | -52.49       | ≤-20.51     | PASS    |
| BLE_2M    | Ant1    | 2440            | 0~Reference       | -1.06            | -1.06        | ---         | PASS    |
| BLE_2M    | Ant1    | 2440            | 30~1000           | -1.06            | -63.98       | ≤-21.06     | PASS    |
| BLE_2M    | Ant1    | 2440            | 1000~26500        | -1.06            | -50.38       | ≤-21.06     | PASS    |
| BLE_2M    | Ant1    | 2480            | 0~Reference       | -1.36            | -1.36        | ---         | PASS    |
| BLE_2M    | Ant1    | 2480            | 30~1000           | -1.36            | -52.52       | ≤-21.36     | PASS    |
| BLE_2M    | Ant1    | 2480            | 1000~26500        | -1.36            | -49.36       | ≤-21.36     | 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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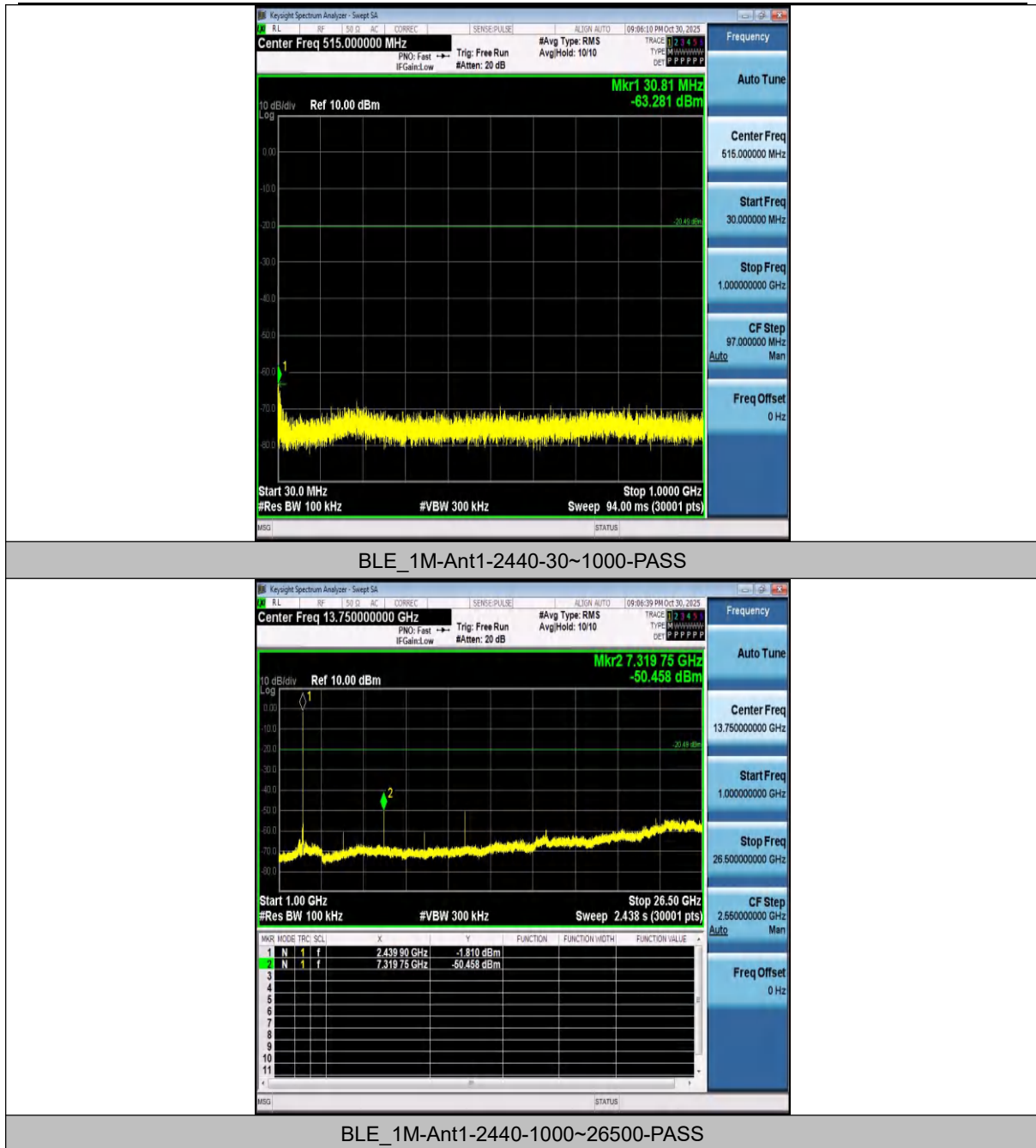
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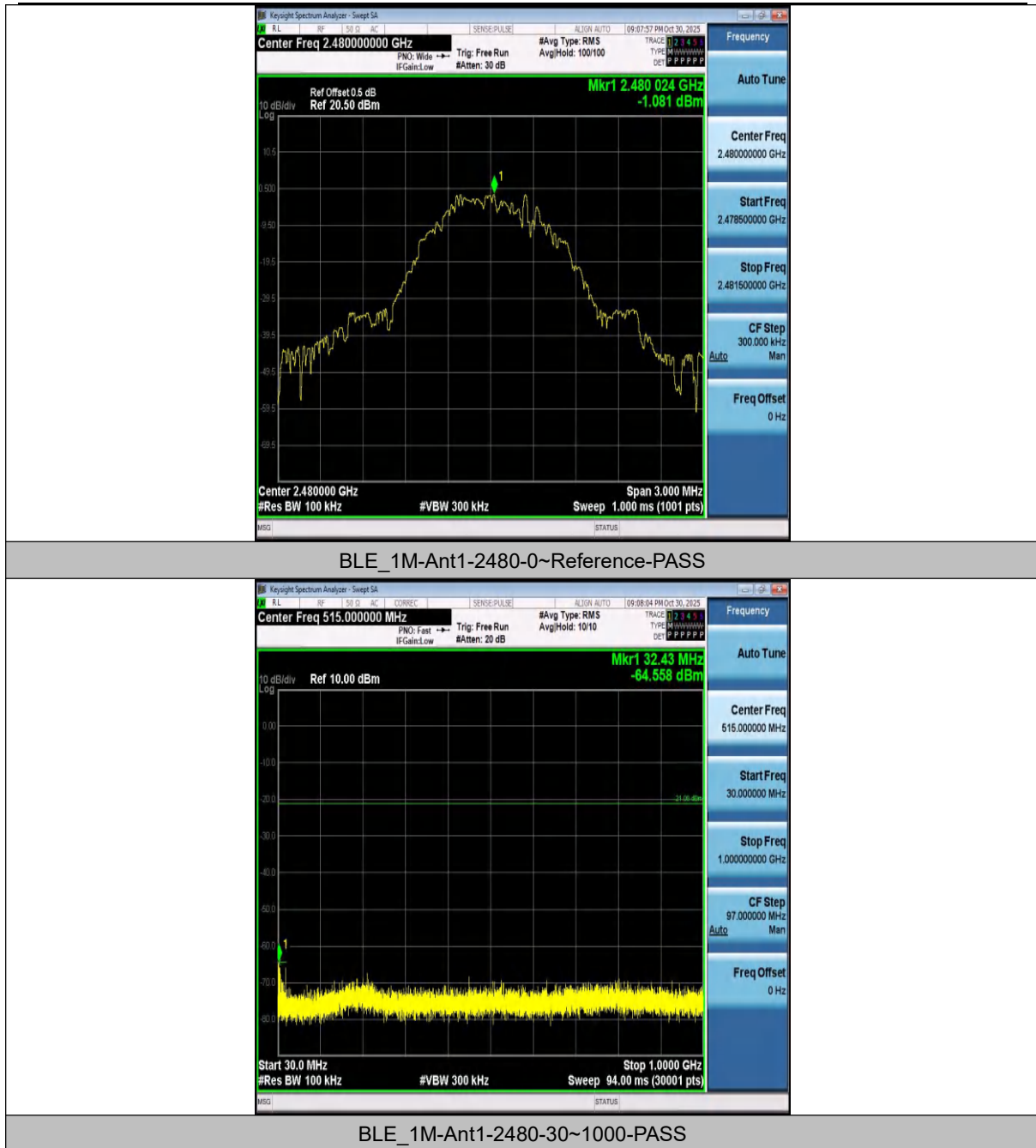
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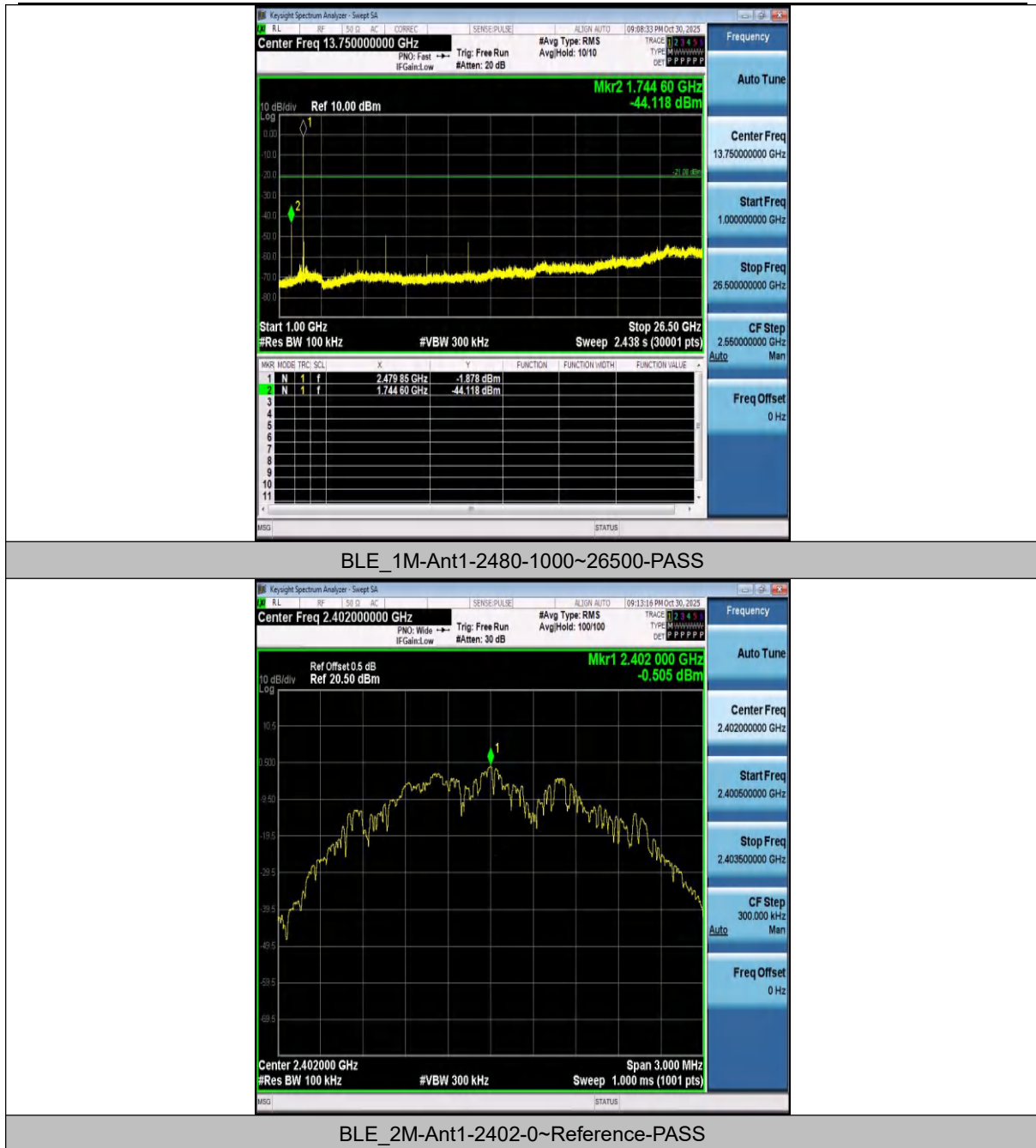
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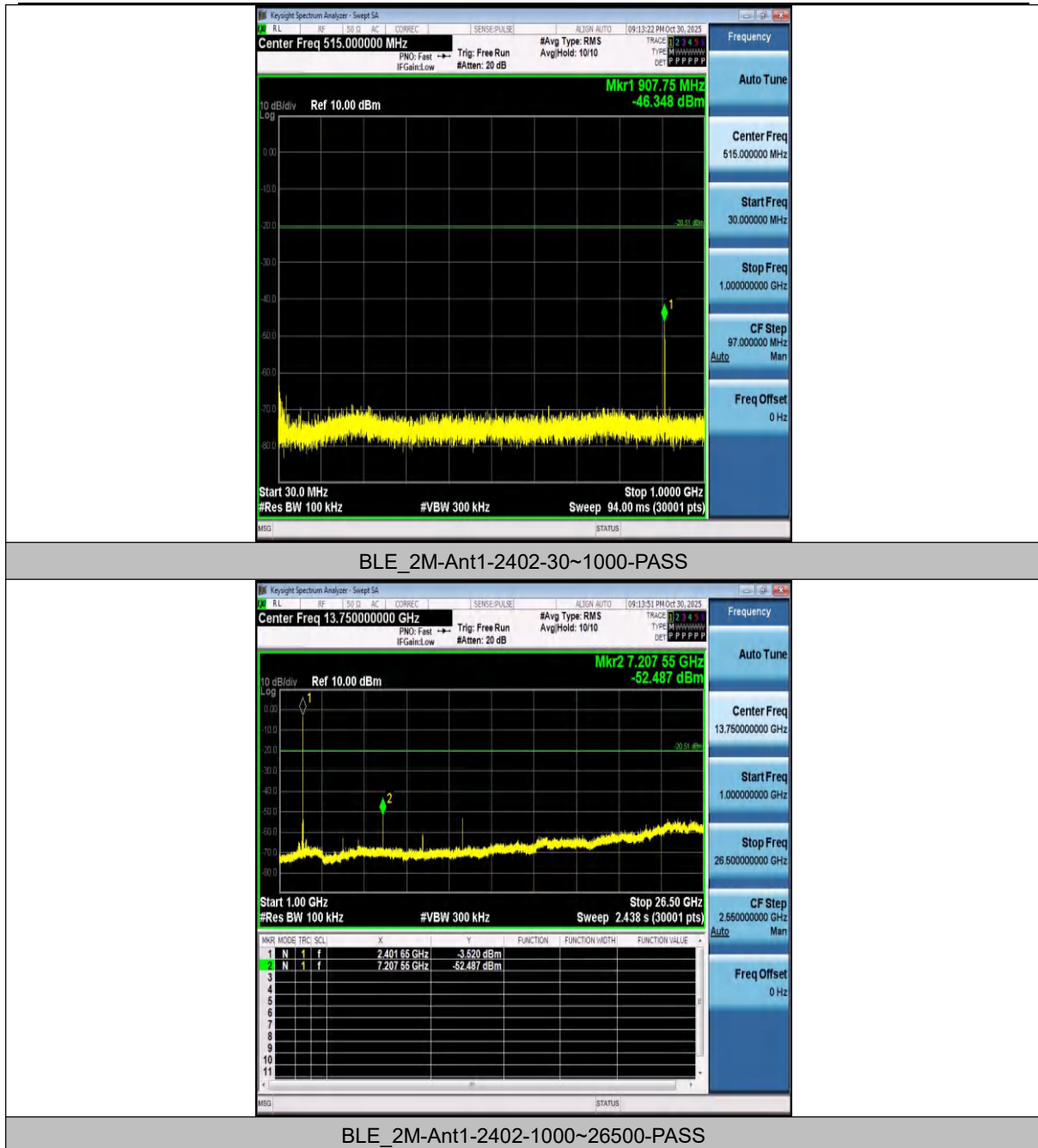
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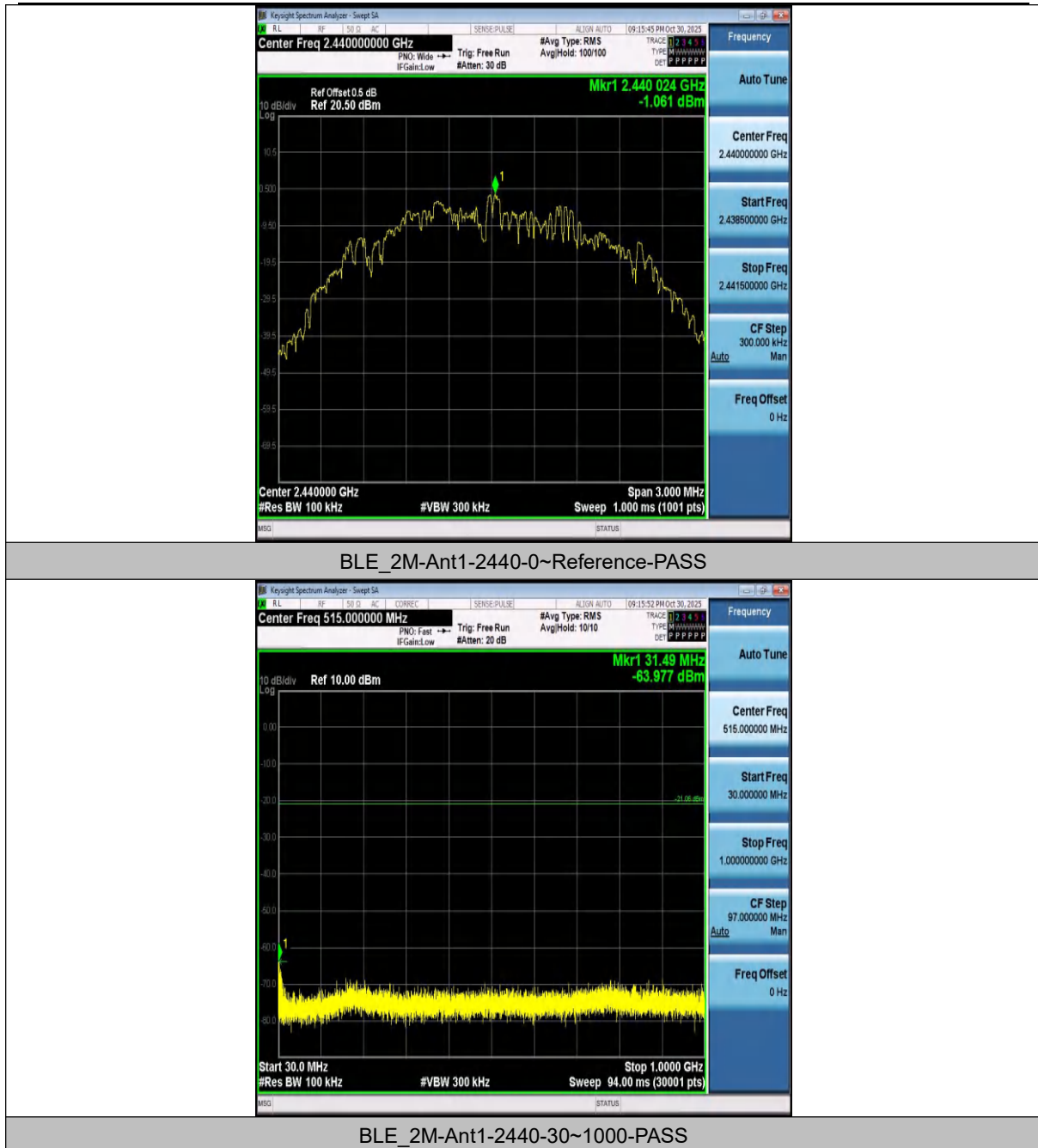
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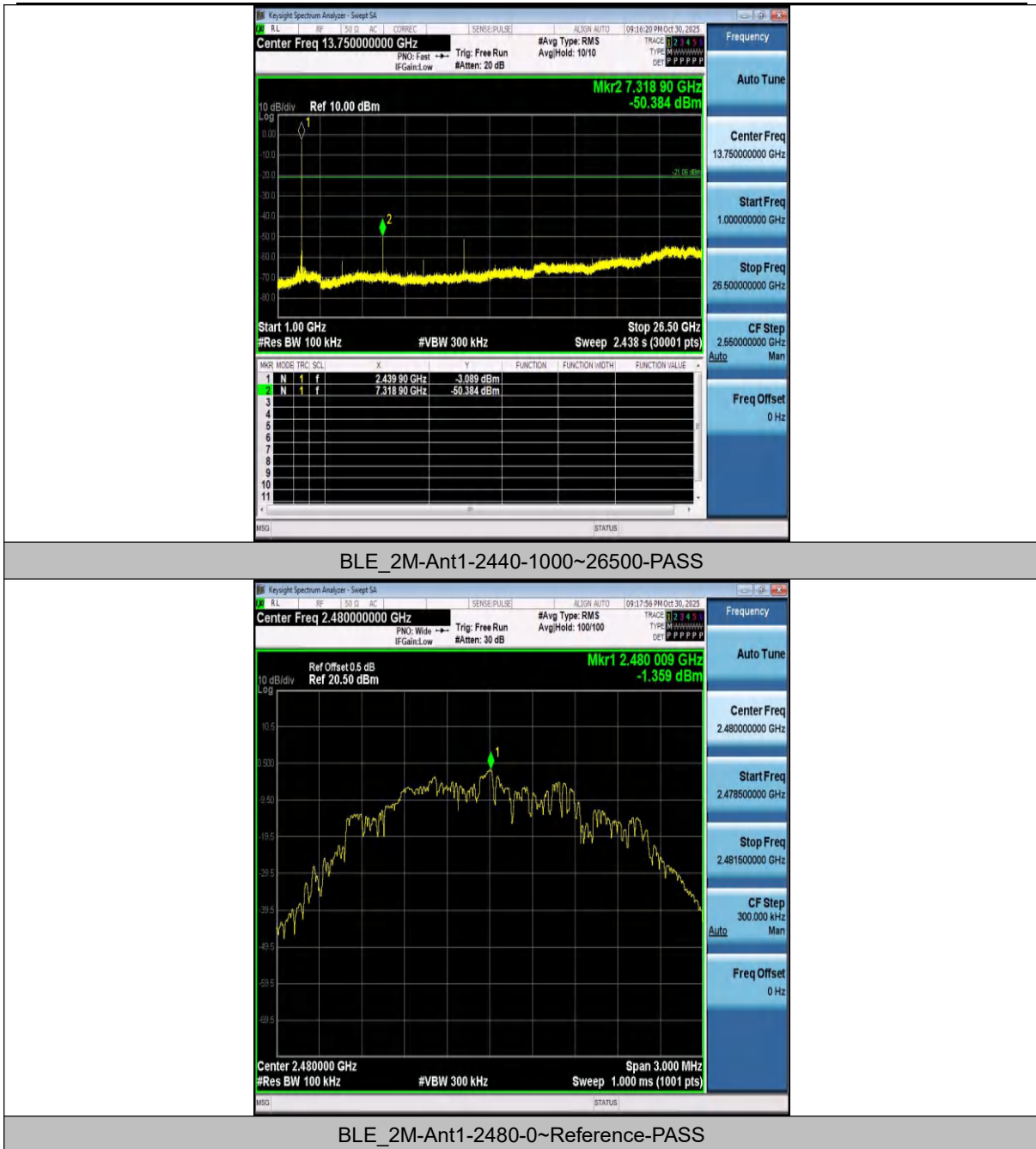
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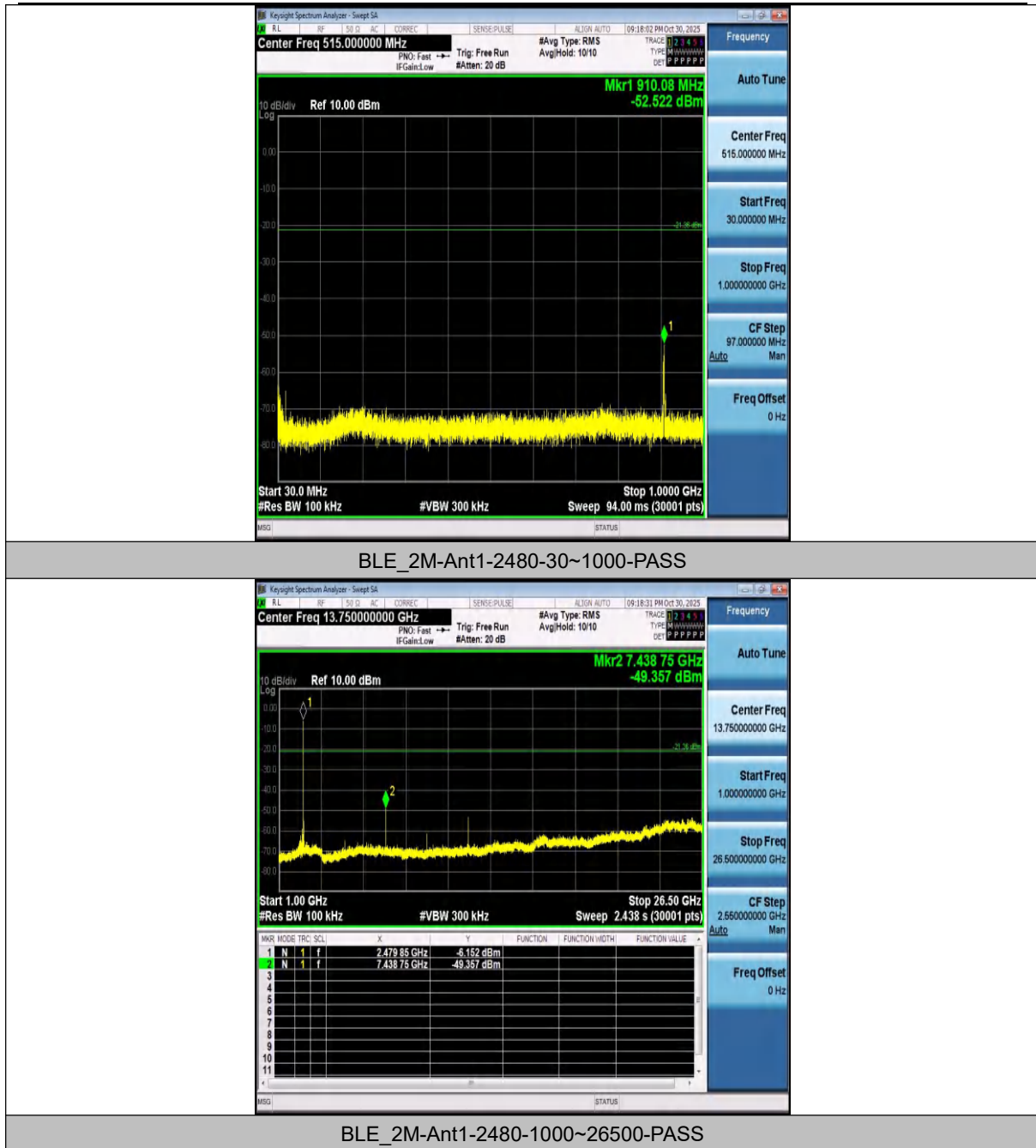
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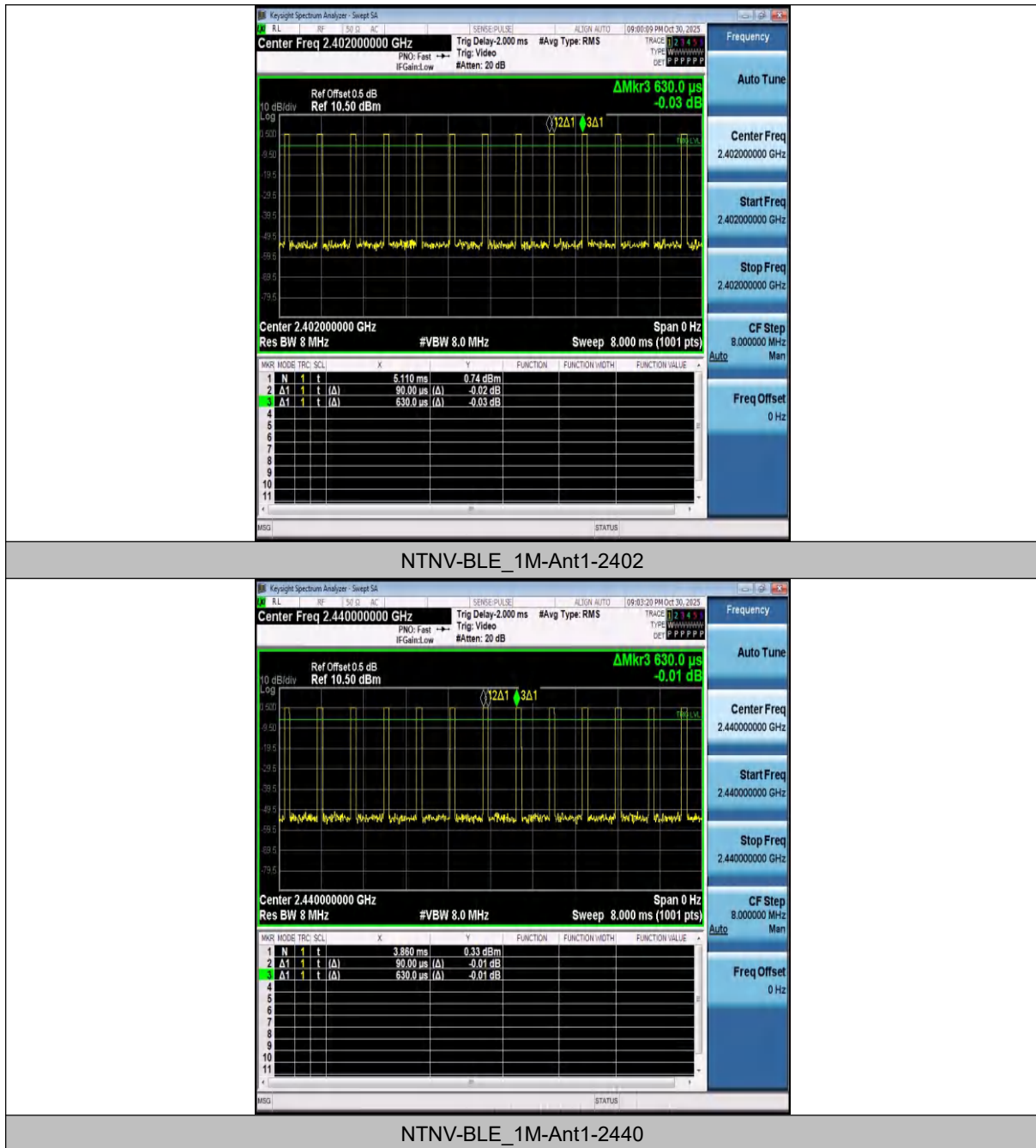
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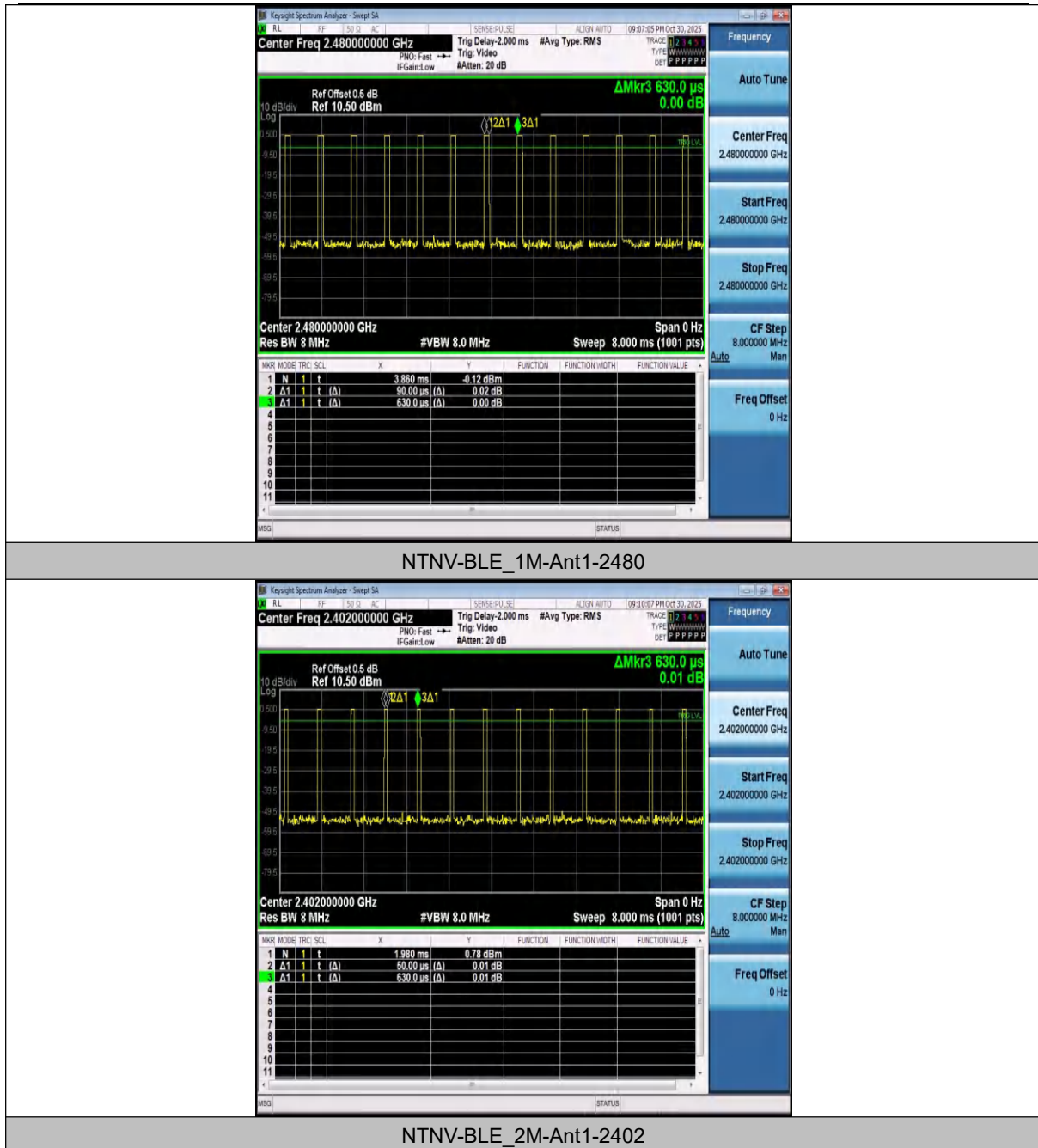
## Appendix G: Duty Cycle

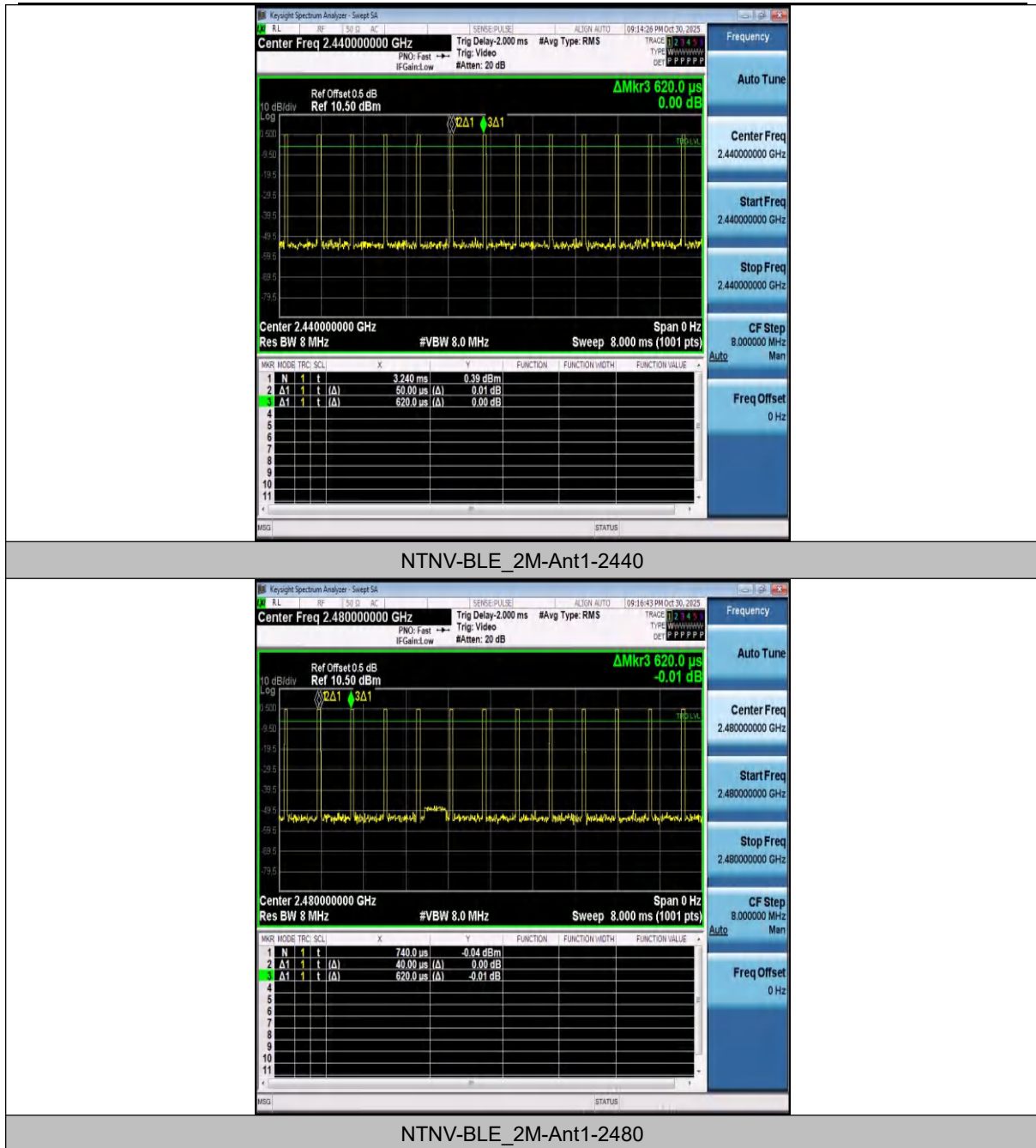
### Test Result

| Test Mode | Antenna | Frequency<br>[MHz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>Factor[dB] |
|-----------|---------|--------------------|-----------------|----------------|-------------------|--------------------------|
| BLE_1M    | Ant1    | 2402               | 0.09            | 0.63           | 14.29             | 8.45                     |
| BLE_1M    | Ant1    | 2440               | 0.09            | 0.63           | 14.29             | 8.45                     |
| BLE_1M    | Ant1    | 2480               | 0.09            | 0.63           | 14.29             | 8.45                     |
| BLE_2M    | Ant1    | 2402               | 0.05            | 0.63           | 7.94              | 11.00                    |
| BLE_2M    | Ant1    | 2440               | 0.05            | 0.62           | 8.06              | 10.94                    |
| BLE_2M    | Ant1    | 2480               | 0.04            | 0.62           | 6.45              | 11.90                    |

## Test Graphs







---End---