

## Appendix Test Data for SRD (Conducted Measurement)

Product Name: Wireless Keyboard

Trade Mark: Keychron

Test Model: Q4 HE

FCC ID: 2BGKB-Q4HE

### Environmental Conditions

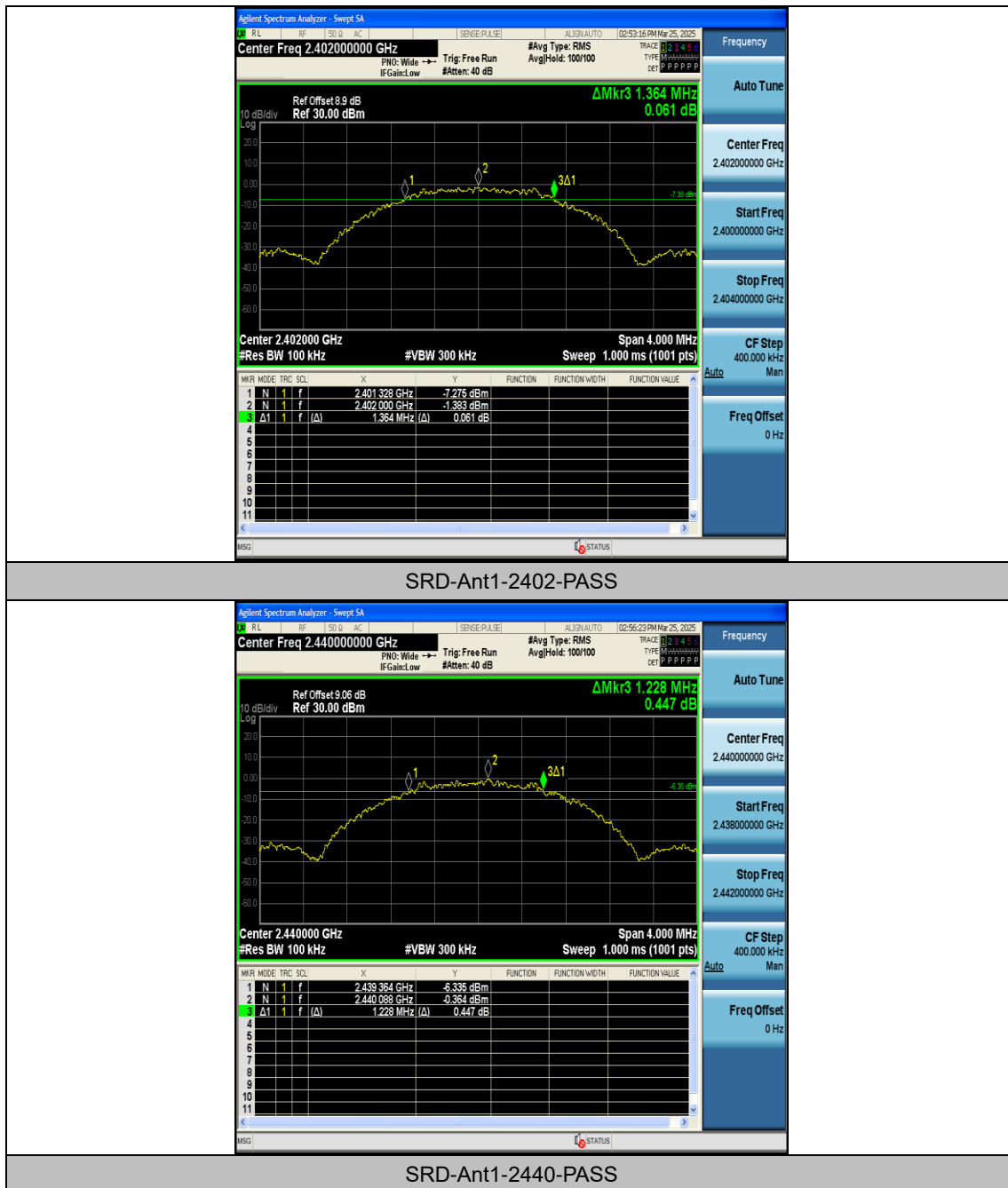
|                    |           |
|--------------------|-----------|
| Temperature:       | 23.5℃     |
| Relative Humidity: | 58%       |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Allen Lai |
| Supervised by:     | Max Zhang |
| NOTE               | N/A       |

## Appendix A: DTS Bandwidth

### Test Result

| Test Mode | Antenna | Frequency [MHz] | DTS BW [MHz] | FL [MHz] | FH [MHz] | Limit [MHz] | Verdict |
|-----------|---------|-----------------|--------------|----------|----------|-------------|---------|
| SRD       | Ant1    | 2402            | 1.364        | 2401.328 | 2402.692 | 0.5         | PASS    |
| SRD       | Ant1    | 2440            | 1.228        | 2439.364 | 2440.592 | 0.5         | PASS    |
| SRD       | Ant1    | 2480            | 1.276        | 2479.380 | 2480.656 | 0.5         | PASS    |

## Test Graphs





## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Frequency [MHz] | OCB [MHz] | FL [MHz]  | FH [MHz]  | Limit [MHz] | Verdict |
|-----------|---------|-----------------|-----------|-----------|-----------|-------------|---------|
| SRD       | Ant1    | 2402            | 2.0677    | 2400.9640 | 2403.0317 | ---         | ---     |
| SRD       | Ant1    | 2440            | 2.0382    | 2438.9884 | 2441.0266 | ---         | ---     |
| SRD       | Ant1    | 2480            | 2.0641    | 2478.9729 | 2481.0370 | ---         | ---     |

## Test Graphs



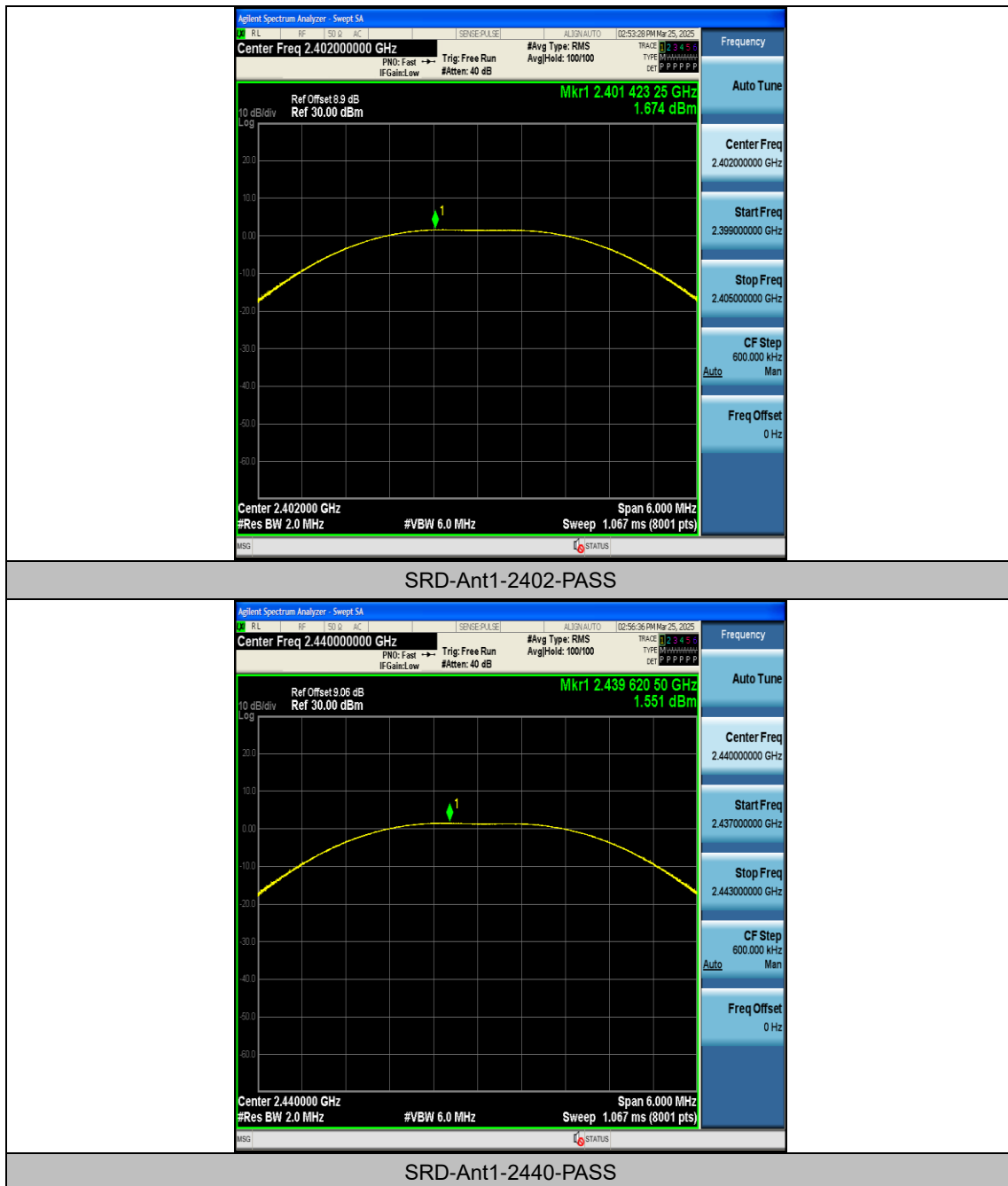


## Appendix C: Maximum peak conducted output power

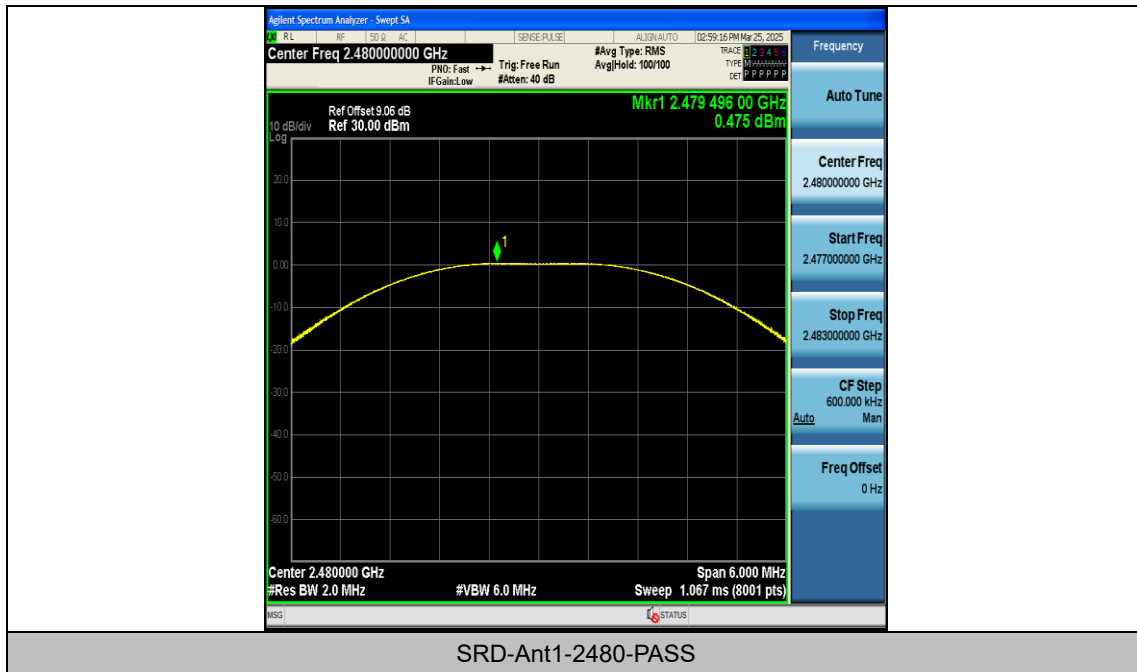
### Test Result Peak

| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power [dBm] | Conducted Limit [dBm] | Verdict |
|-----------|---------|-----------------|----------------------------|-----------------------|---------|
| SRD       | Ant1    | 2402            | 1.67                       | ≤30                   | PASS    |
| SRD       | Ant1    | 2440            | 1.55                       | ≤30                   | PASS    |
| SRD       | Ant1    | 2480            | 0.48                       | ≤30                   | PASS    |

## Test Graphs Peak





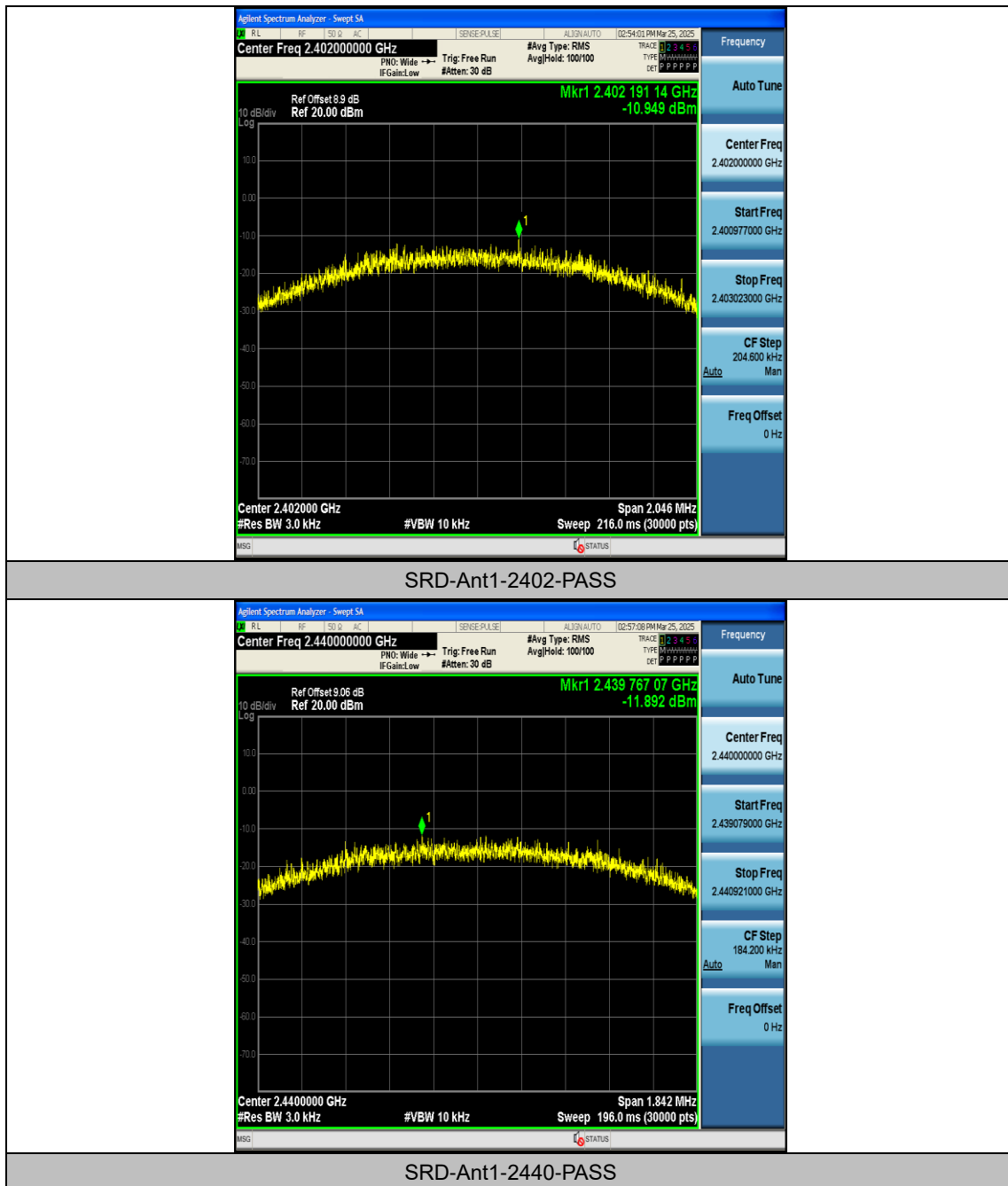


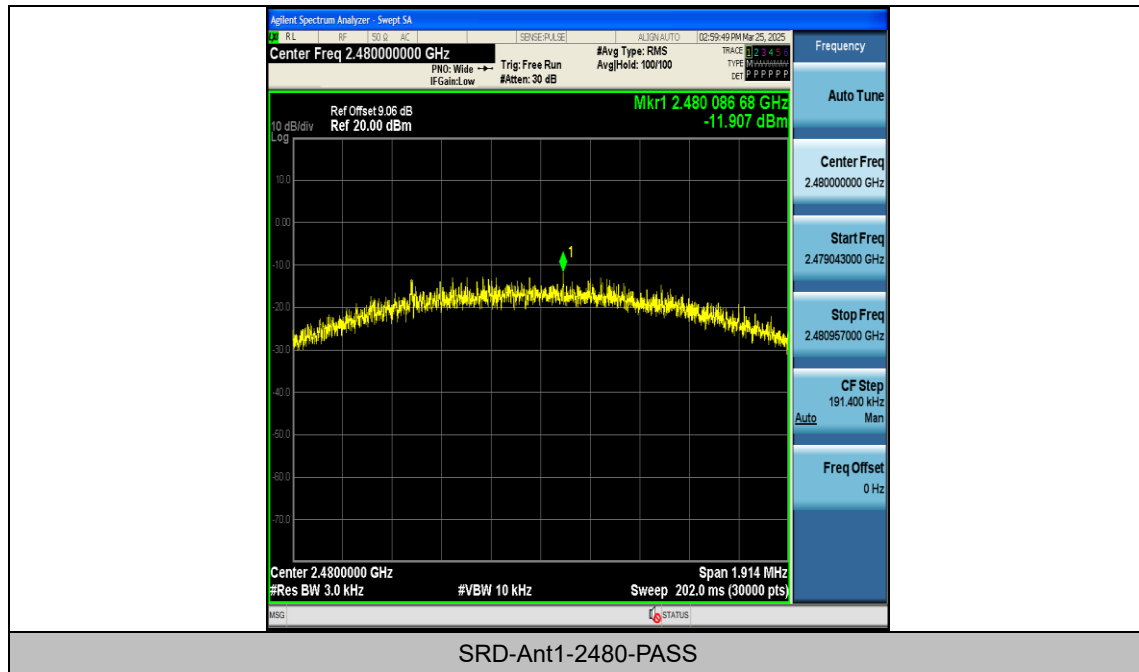
## Appendix D: Maximum peak power spectral density

### Test Result

| Test Mode | Antenna | Frequency<br>[MHz] | Result<br>[dBm/3kHz] | Limit<br>[dBm/3kHz] | Verdict |
|-----------|---------|--------------------|----------------------|---------------------|---------|
| SRD       | Ant1    | 2402               | -10.95               | ≤8.00               | PASS    |
| SRD       | Ant1    | 2440               | -11.89               | ≤8.00               | PASS    |
| SRD       | Ant1    | 2480               | -11.91               | ≤8.00               | PASS    |

## Test Graphs



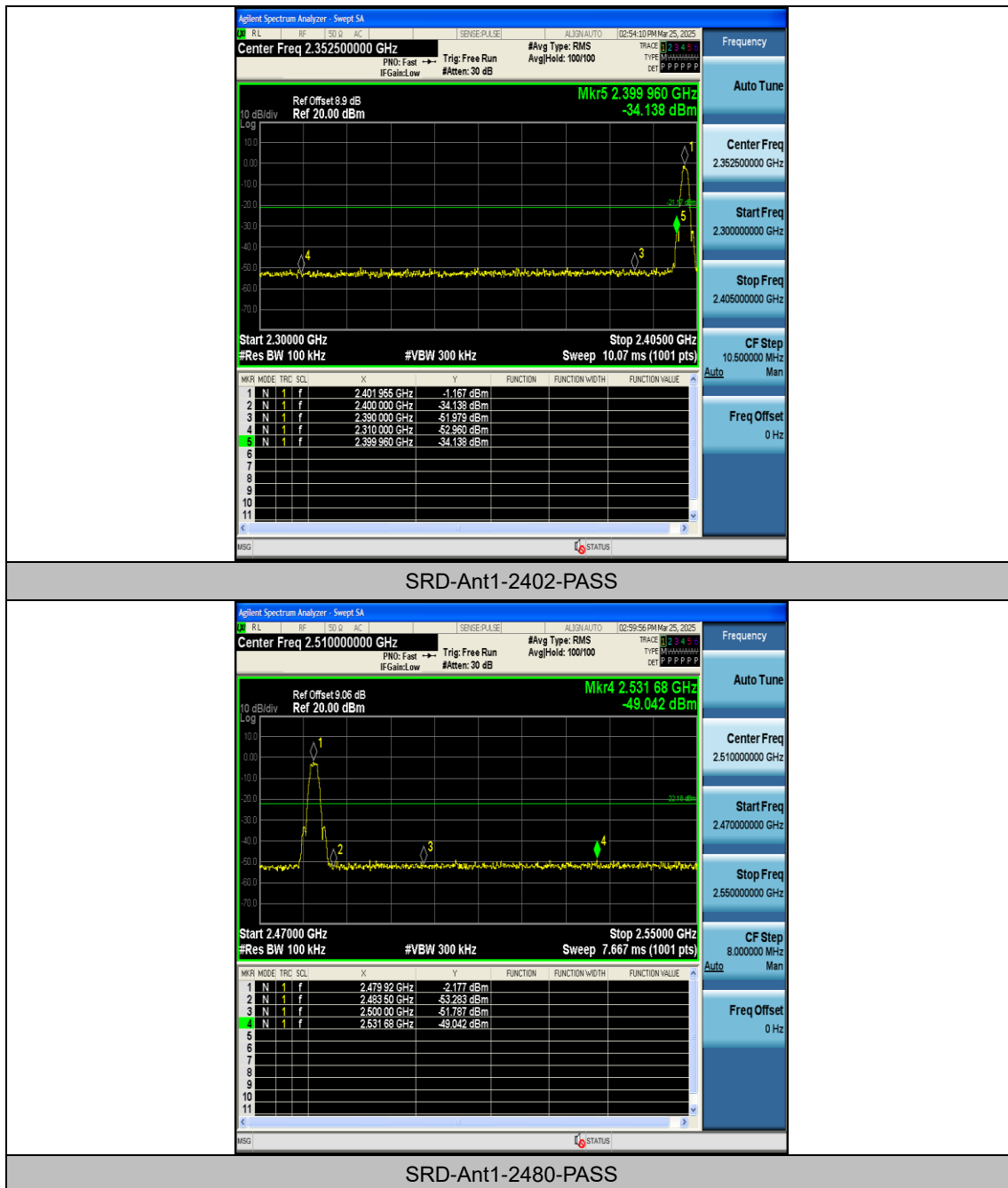


## Appendix E: Band edge measurements

### Test Result

| Test Mode | Antenna | Ch. Name | Frequency [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm]   | Verdict |
|-----------|---------|----------|-----------------|------------------|--------------|---------------|---------|
| SRD       | Ant1    | Low      | 2402            | -1.17            | -34.14       | $\leq -21.17$ | PASS    |
| SRD       | Ant1    | High     | 2480            | -2.18            | -49.04       | $\leq -22.18$ | PASS    |

## Test Graphs

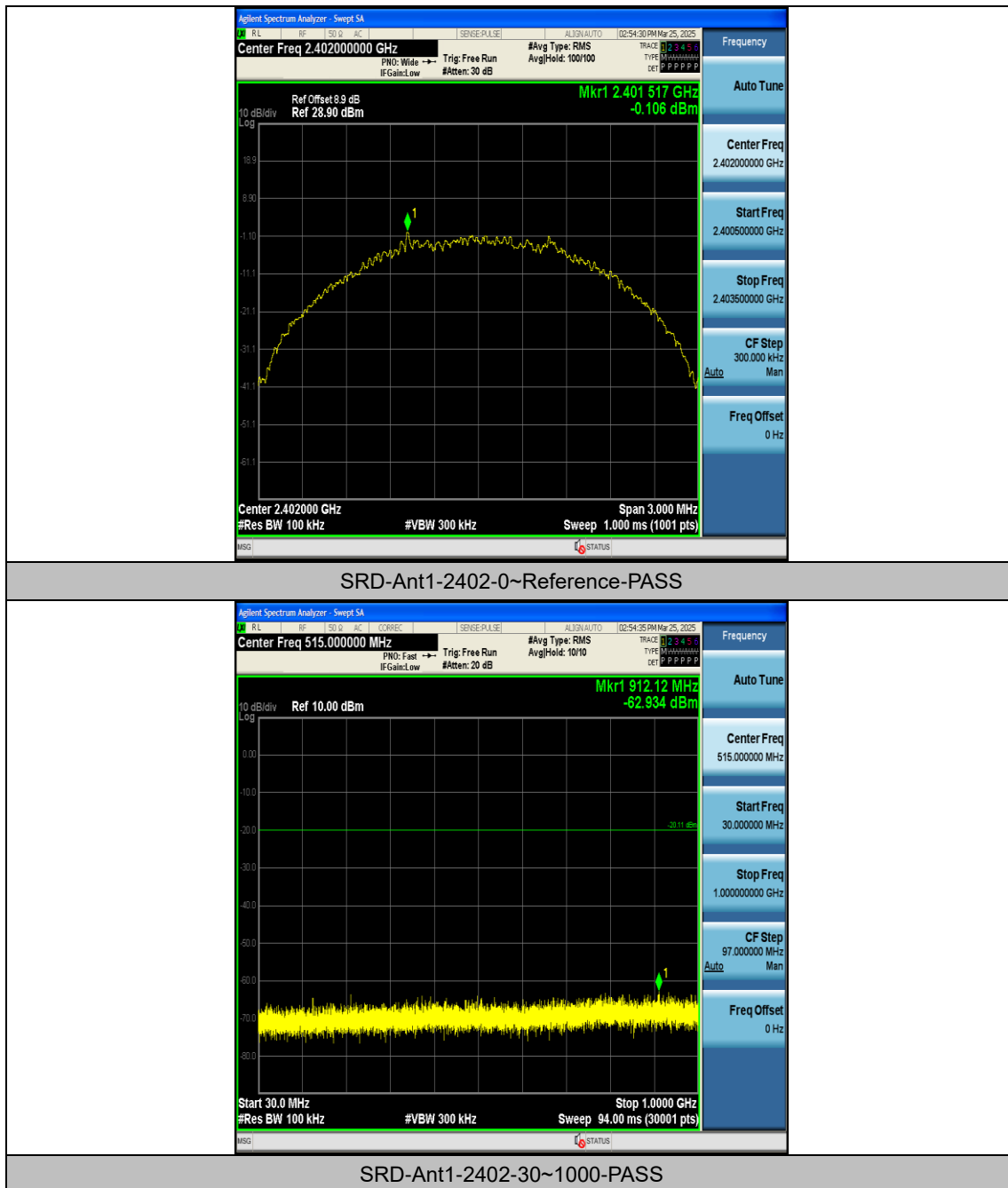


## Appendix F: Conducted Spurious Emission

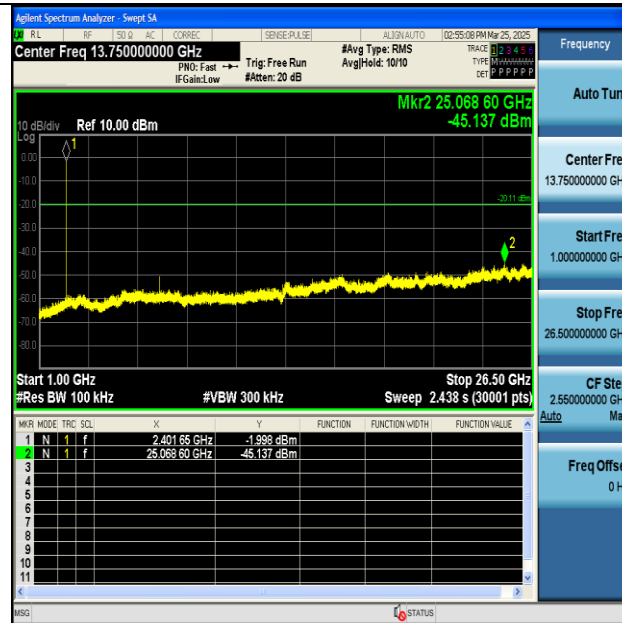
### Test Result

| Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|--------------|-------------|---------|
| SRD       | Ant1    | 2402            | 0~Reference       | -0.11            | -0.11        | ---         | PASS    |
| SRD       | Ant1    | 2402            | 30~1000           | -0.11            | -62.93       | ≤-20.11     | PASS    |
| SRD       | Ant1    | 2402            | 1000~26500        | -0.11            | -45.14       | ≤-20.11     | PASS    |
| SRD       | Ant1    | 2440            | 0~Reference       | -0.77            | -0.77        | ---         | PASS    |
| SRD       | Ant1    | 2440            | 30~1000           | -0.77            | -63.01       | ≤-20.77     | PASS    |
| SRD       | Ant1    | 2440            | 1000~26500        | -0.77            | -45.31       | ≤-20.77     | PASS    |
| SRD       | Ant1    | 2480            | 0~Reference       | -1.68            | -1.68        | ---         | PASS    |
| SRD       | Ant1    | 2480            | 30~1000           | -1.68            | -61.88       | ≤-21.68     | PASS    |
| SRD       | Ant1    | 2480            | 1000~26500        | -1.68            | -45.26       | ≤-21.68     | PASS    |

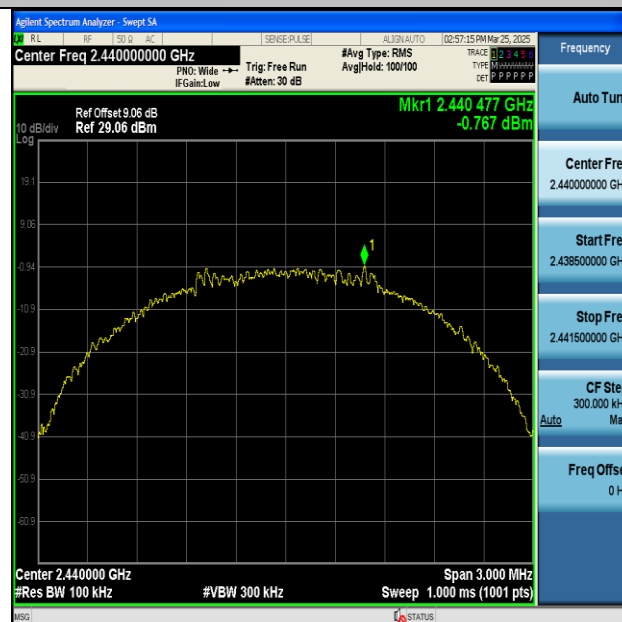
## Test Graphs



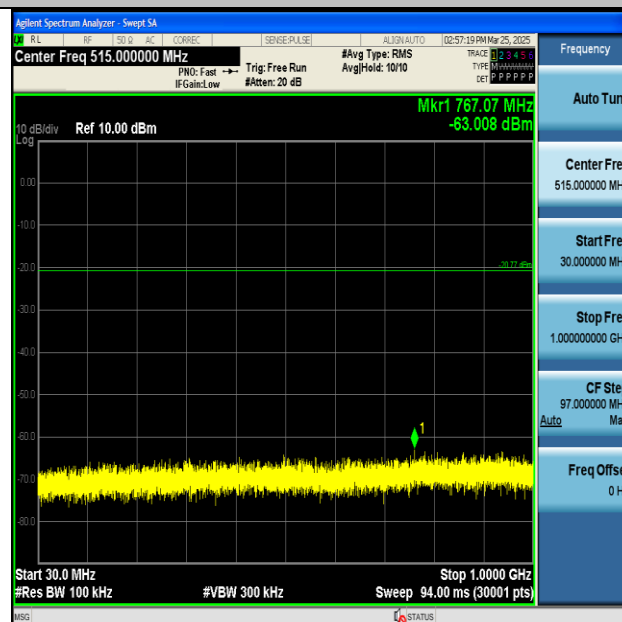




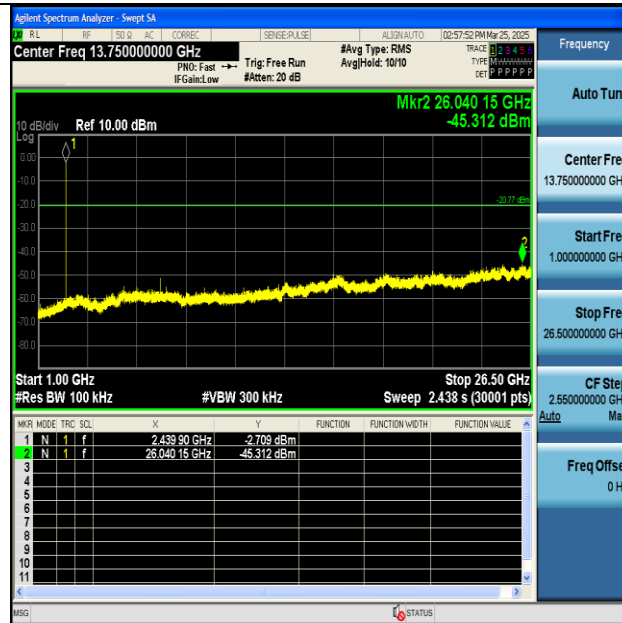
SRD-Ant1-2402-1000~26500-PASS



SRD-Ant1-2440-0~Reference-PASS



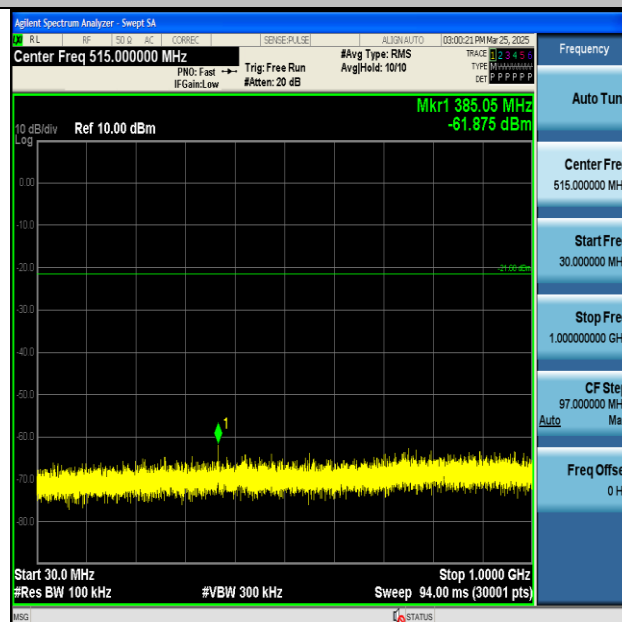
SRD-Ant1-2440-30~1000-PASS



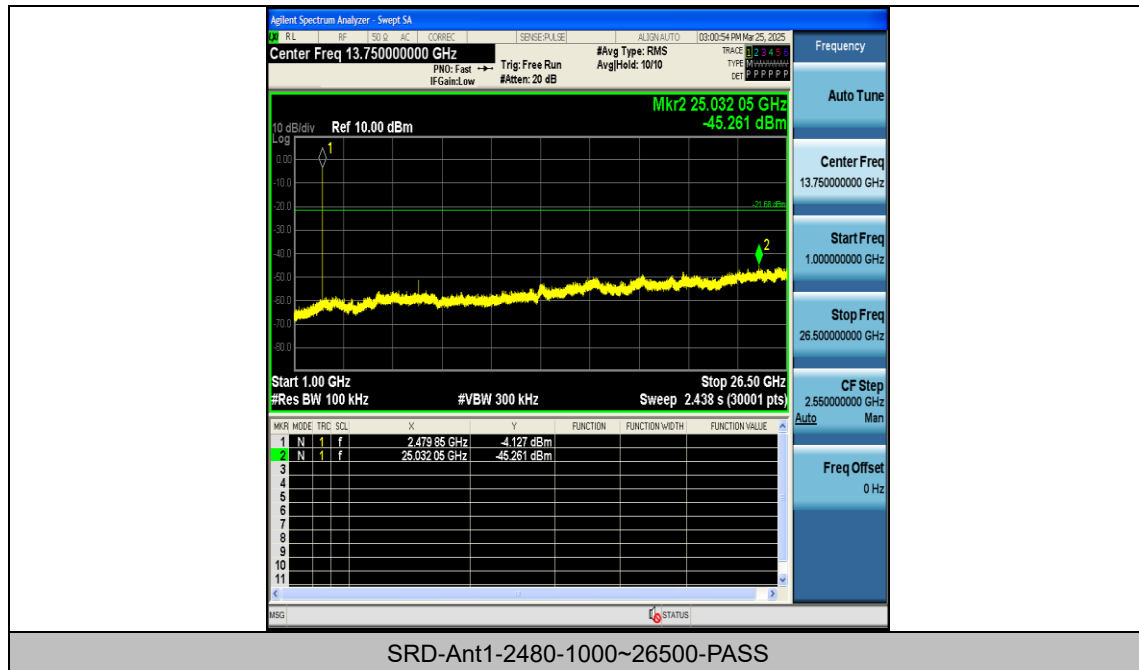
SRD-Ant1-2440-1000~26500-PASS



SRD-Ant1-2480-0~Reference-PASS



SRD-Ant1-2480-30~1000-PASS



## Appendix G: Duty Cycle

### Test Result

| Test Mode | Antenna | Frequency [MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor [dB] |
|-----------|---------|-----------------|--------------|-------------|----------------|------------------------|
| SRD       | Ant1    | 2402            | 19.00        | 19.00       | 100.00         | 0.00                   |
| SRD       | Ant1    | 2440            | 19.00        | 19.00       | 100.00         | 0.00                   |
| SRD       | Ant1    | 2480            | 19.00        | 19.00       | 100.00         | 0.00                   |

## Test Graphs

