

Appendix Test Data for Zigbee (Conducted Measurement)

Product Name: Smart Switch

Trade Mark: Dusun

Test Model: DSW-080

FCC ID: 2AUXB-DSW-080

Environmental Conditions

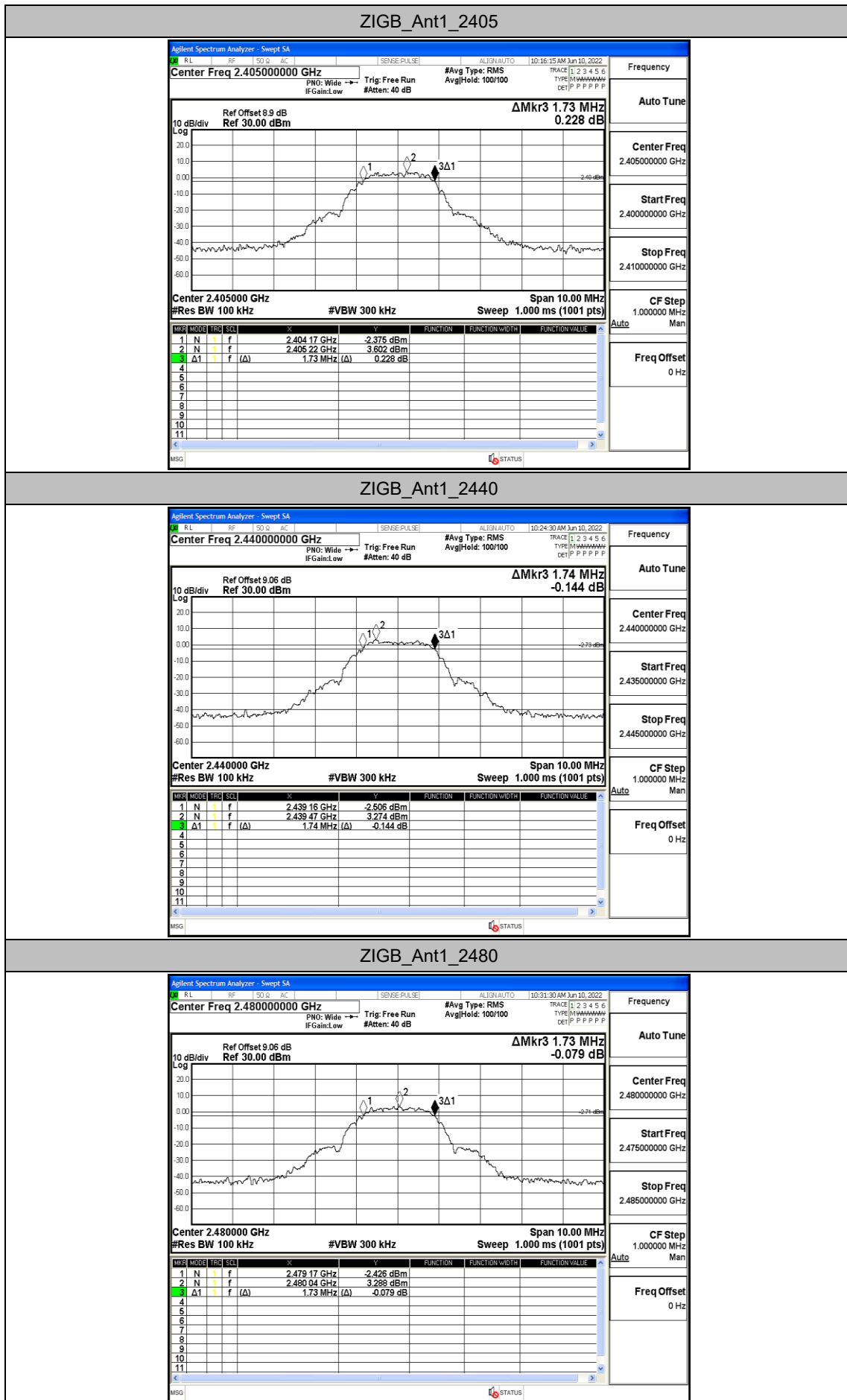
| | |
|--------------------|-----------|
| Temperature: | 22.8°C |
| Relative Humidity: | 59% |
| ATM Pressure: | 100.0 kPa |
| Test : | Anna Hu |
| Supervised by: | Hugo Chen |
| NOTE | N/A |

Appendix A: DTS Bandwidth

Test Result

| TestMode | Antenna | Freq(MHz) | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|-----------|--------------|----------|----------|------------|---------|
| ZIGB | Ant1 | 2405 | 1.730 | 2404.170 | 2405.900 | 0.5 | PASS |
| | | 2440 | 1.740 | 2439.160 | 2440.900 | 0.5 | PASS |
| | | 2480 | 1.730 | 2479.170 | 2480.900 | 0.5 | PASS |

Test Graphs

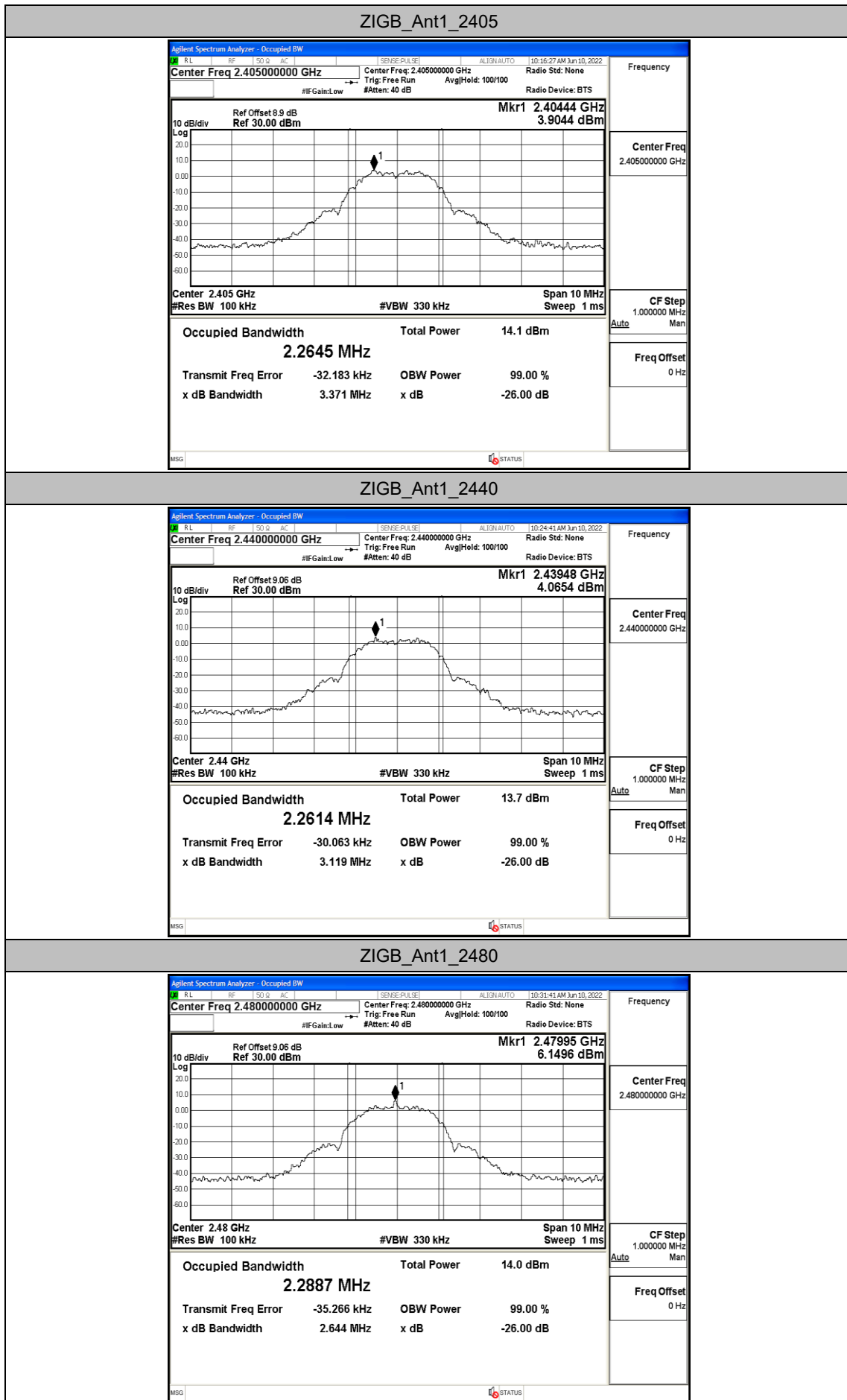


Appendix B: Occupied Channel Bandwidth

Test Result

| TestMode | Antenna | Freq(MHz) | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|-----------|-----------|----------|----------|------------|---------|
| ZIGB | Ant1 | 2405 | 2.2645 | 2403.836 | 2406.100 | --- | --- |
| | | 2440 | 2.2614 | 2438.839 | 2441.101 | --- | --- |
| | | 2480 | 2.2887 | 2478.820 | 2481.109 | --- | --- |

Test Graphs

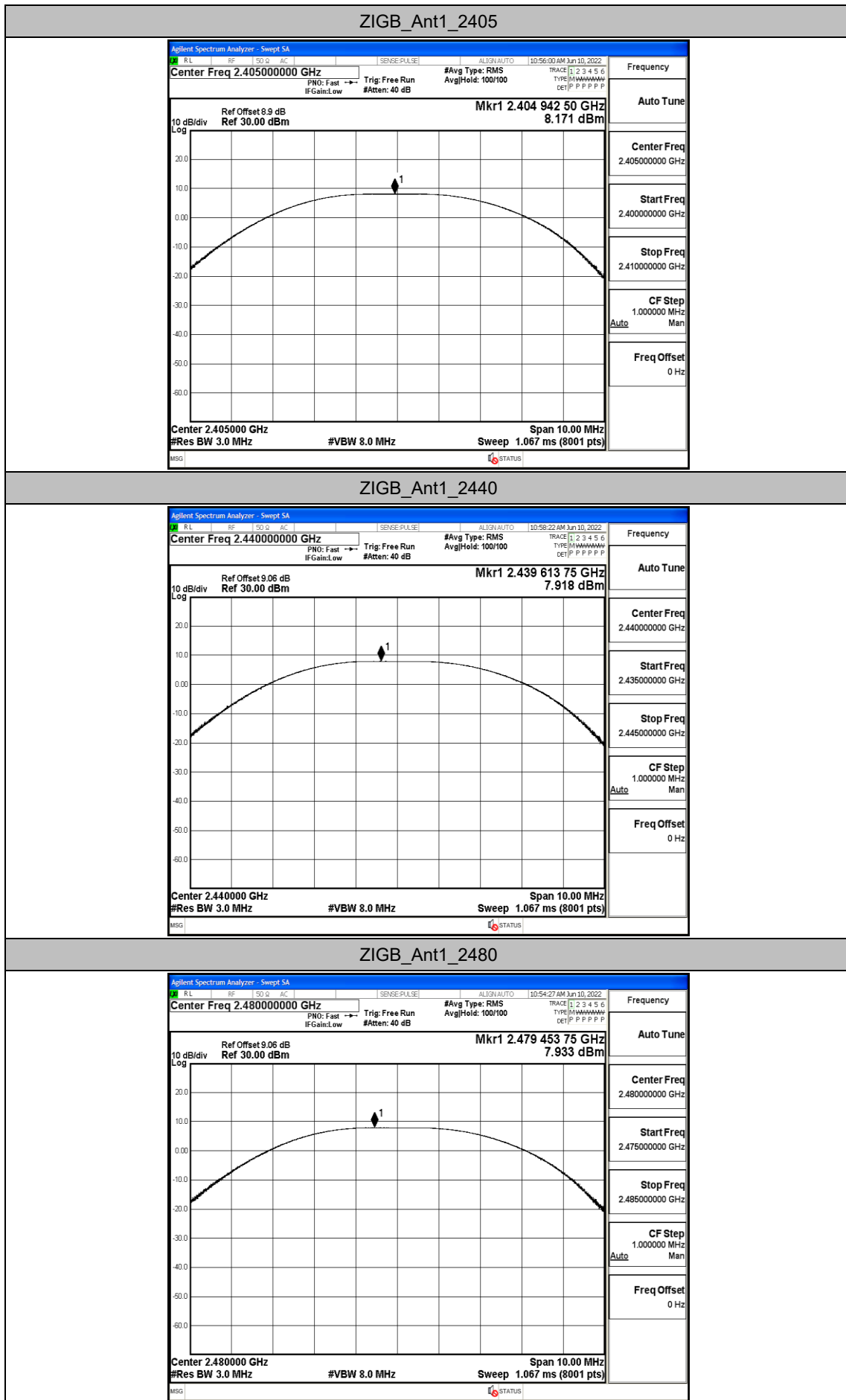


Appendix C: Maximum conducted output power

Test Result

| TestMode | Antenna | Freq(MHz) | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|-----------|-------------|------------|---------|
| ZIGB | Ant1 | 2405 | 8.17 | ≤30 | PASS |
| | | 2440 | 7.92 | ≤30 | PASS |
| | | 2480 | 7.93 | ≤30 | PASS |

Test Graphs

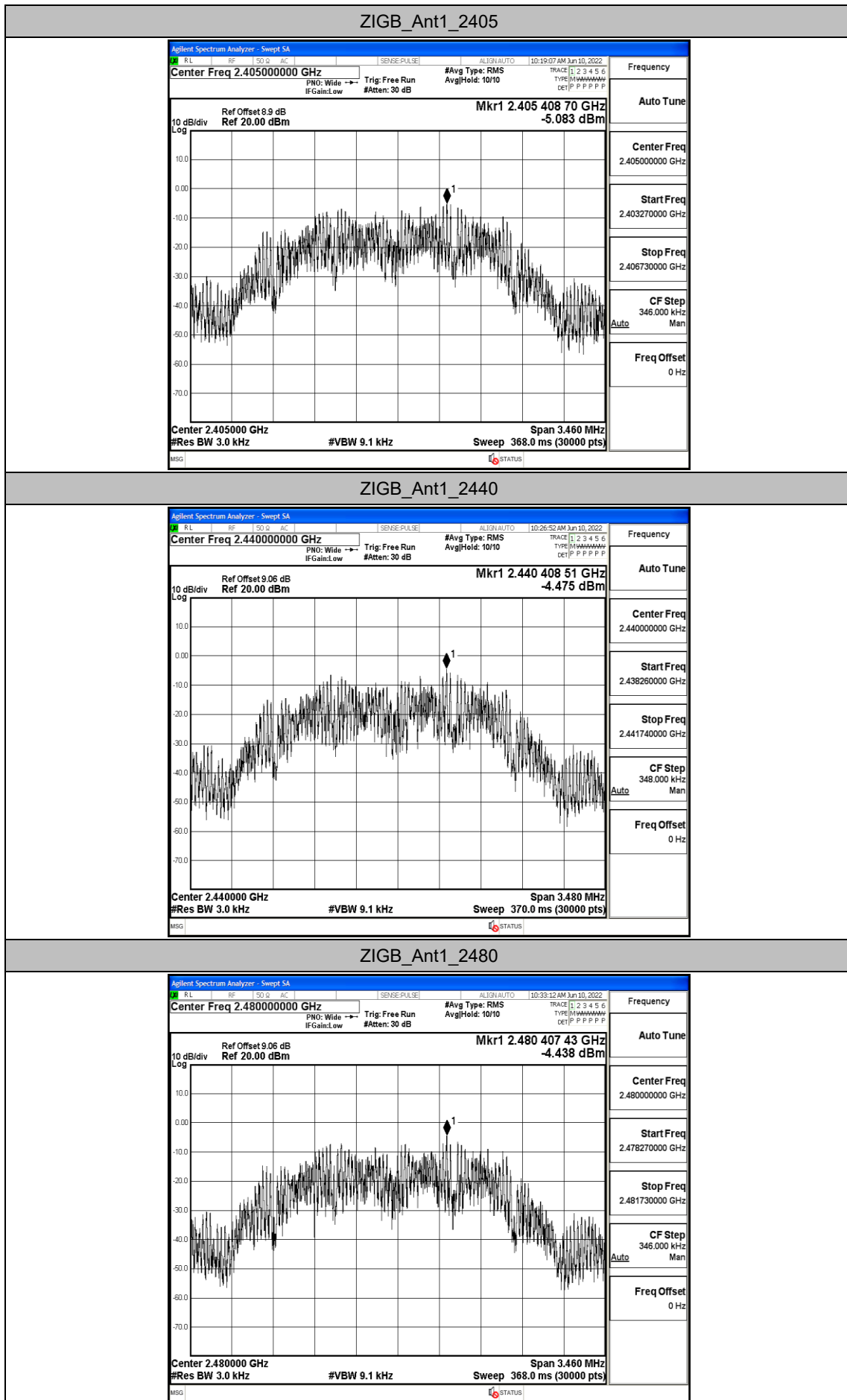


Appendix D: Maximum power spectral density

Test Result

| TestMode | Antenna | Freq(MHz) | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|-----------|----------------------|-----------------|---------|
| ZIGB | Ant1 | 2405 | -5.08 | ≤8.00 | PASS |
| | | 2440 | -4.48 | ≤8.00 | PASS |
| | | 2480 | -4.44 | ≤8.00 | PASS |

Test Graphs

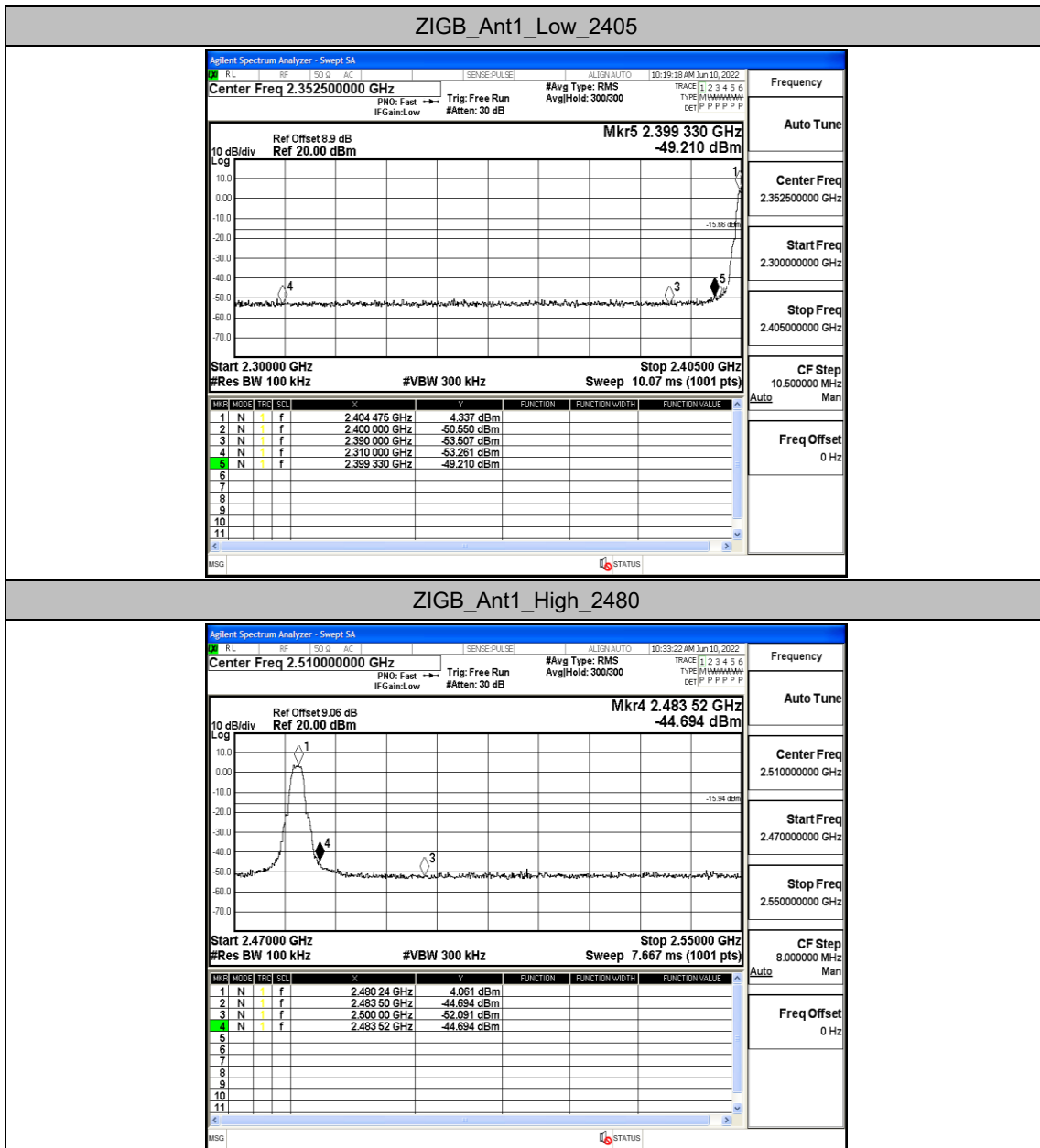

ZIGB_Ant1_2440
ZIGB_Ant1_2480

Appendix E: Band edge measurements

Test Result

| TestMode | Antenna | ChName | Freq(MHz) | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|-----------|---------------|-------------|------------|---------|
| ZIGB | Ant1 | Low | 2405 | 4.34 | -49.21 | ≤-15.66 | PASS |
| | | High | 2480 | 4.06 | -44.69 | ≤-15.94 | PASS |

Test Graphs

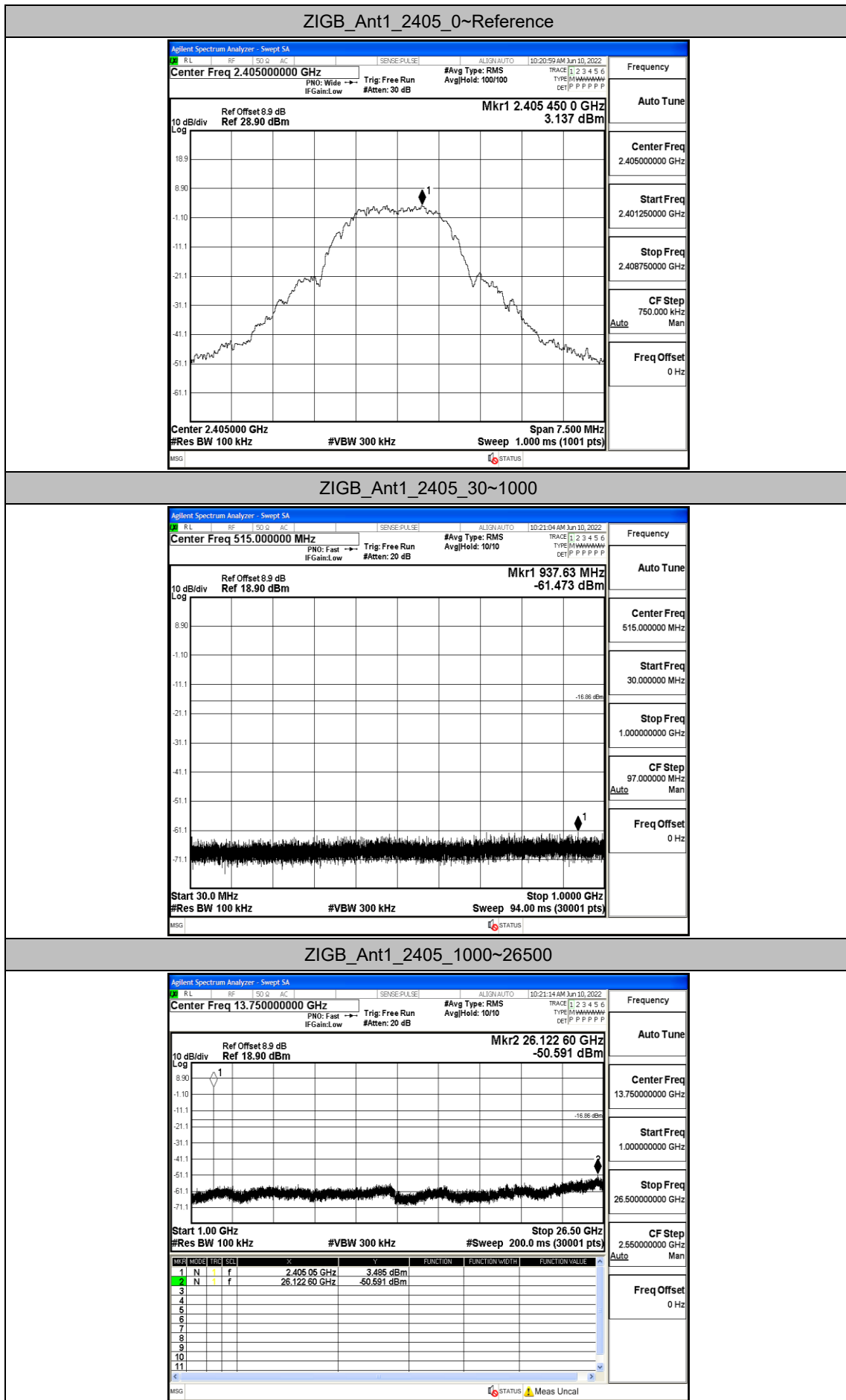

ZIGB_Ant1_High_2480

Appendix F: Conducted Spurious Emission

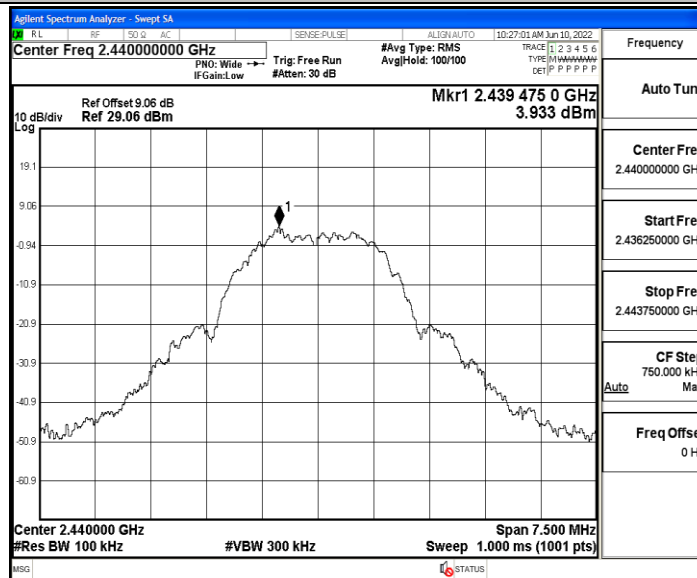
Test Result

| TestMode | Antenna | Freq(MHz) | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|-----------|-----------------|----------------|-------------|------------|---------|
| ZIGB | Ant1 | 2405 | Reference | 3.14 | 3.14 | --- | PASS |
| | | | 30~1000 | 3.14 | -61.47 | ≤-16.86 | PASS |
| | | | 1000~26500 | 3.14 | -50.59 | ≤-16.86 | PASS |
| | | 2440 | Reference | 3.93 | 3.93 | --- | PASS |
| | | | 30~1000 | 3.93 | -60.06 | ≤-16.07 | PASS |
| | | | 1000~26500 | 3.93 | -51.27 | ≤-16.07 | PASS |
| | | 2480 | Reference | 4.80 | 4.80 | --- | PASS |
| | | | 30~1000 | 4.80 | -60.31 | ≤-15.2 | PASS |
| | | | 1000~26500 | 4.80 | -50.94 | ≤-15.2 | PASS |

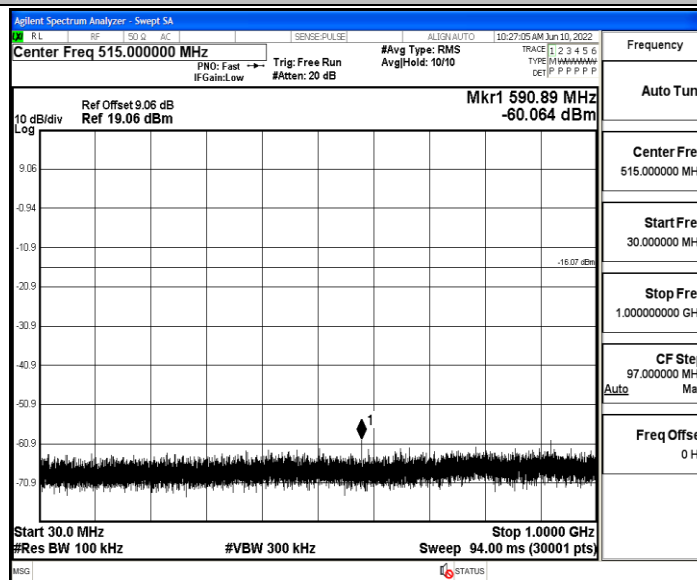
Test Graphs



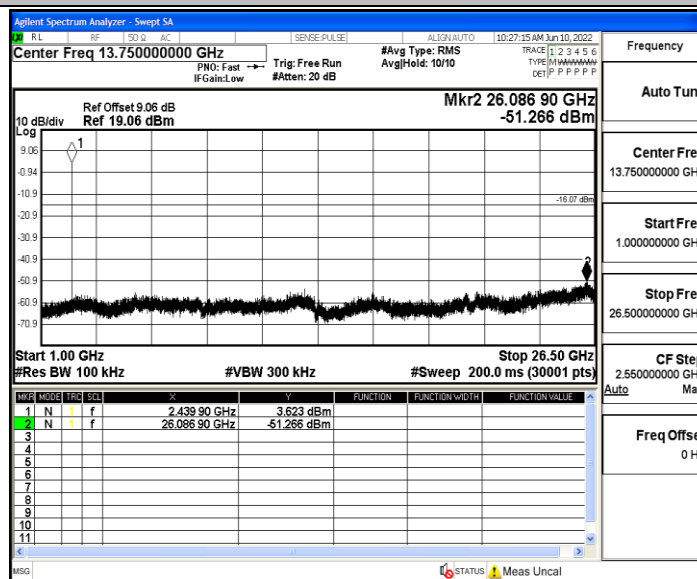
ZIGB_Ant1_2440_0~Reference



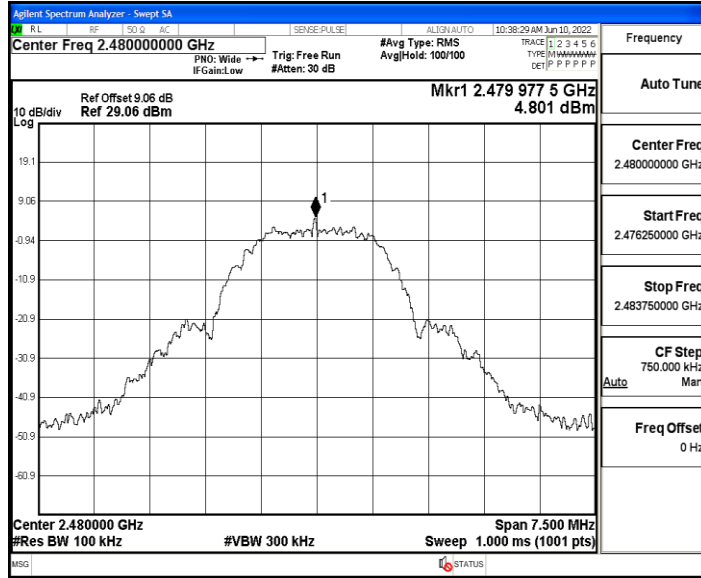
ZIGB_Ant1_2440_30~1000



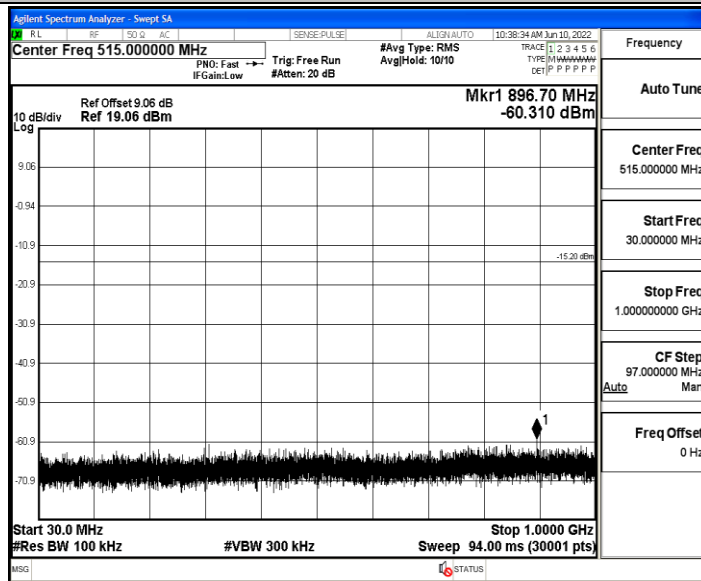
ZIGB_Ant1_2440_1000~26500



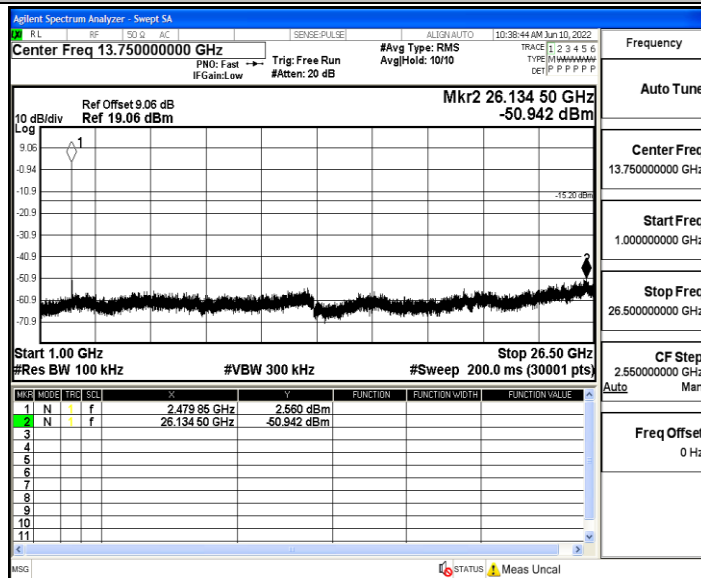
ZIGB_Ant1_2480_0~Reference



ZIGB_Ant1_2480_30~1000



ZIGB_Ant1_2480_1000~26500



Appendix G: Duty Cycle

Test Result

| TestMode | Antenna | Freq(MHz) | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | 1/B [kHz] |
|----------|---------|-----------|----------------------------|--------------------------|----------------|-----------|
| ZIGB | Ant1 | 2405 | 4.22 | 4.46 | 94.62 | 0.24 |
| | | 2440 | 4.21 | 4.46 | 94.39 | 0.24 |
| | | 2480 | 4.22 | 4.47 | 94.41 | 0.24 |

Test Graphs

