

Appendix Test Data

| | | | |
|------------------|-----------------|--------------------|-------------------|
| Report No.: | 18220WC30025501 | Test Sample No.: | 1-2-2 |
| Start Test Date: | 2023.02.20 | Finish Test Date: | 2023.03.06 |
| Test Engineer: | <i>Rick Luo</i> | Auditor: | <i>Edward Pan</i> |
| Temperature: | 24.6°C | Relative Humidity: | 41% |
| Pressure: | 1012 hPa | | |

Appendix A: DTS Bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| Zigbee | Ant1 | 2405 | 1.596 | 2404.328 | 2405.924 | 0.5 | PASS |
| | | 2440 | 1.540 | 2439.360 | 2440.900 | 0.5 | PASS |
| | | 2480 | 1.792 | 2479.224 | 2481.016 | 0.5 | PASS |



Test Graphs

Zigbee_Ant1_2405



Zigbee_Ant1_2440



Zigbee_Ant1_2480

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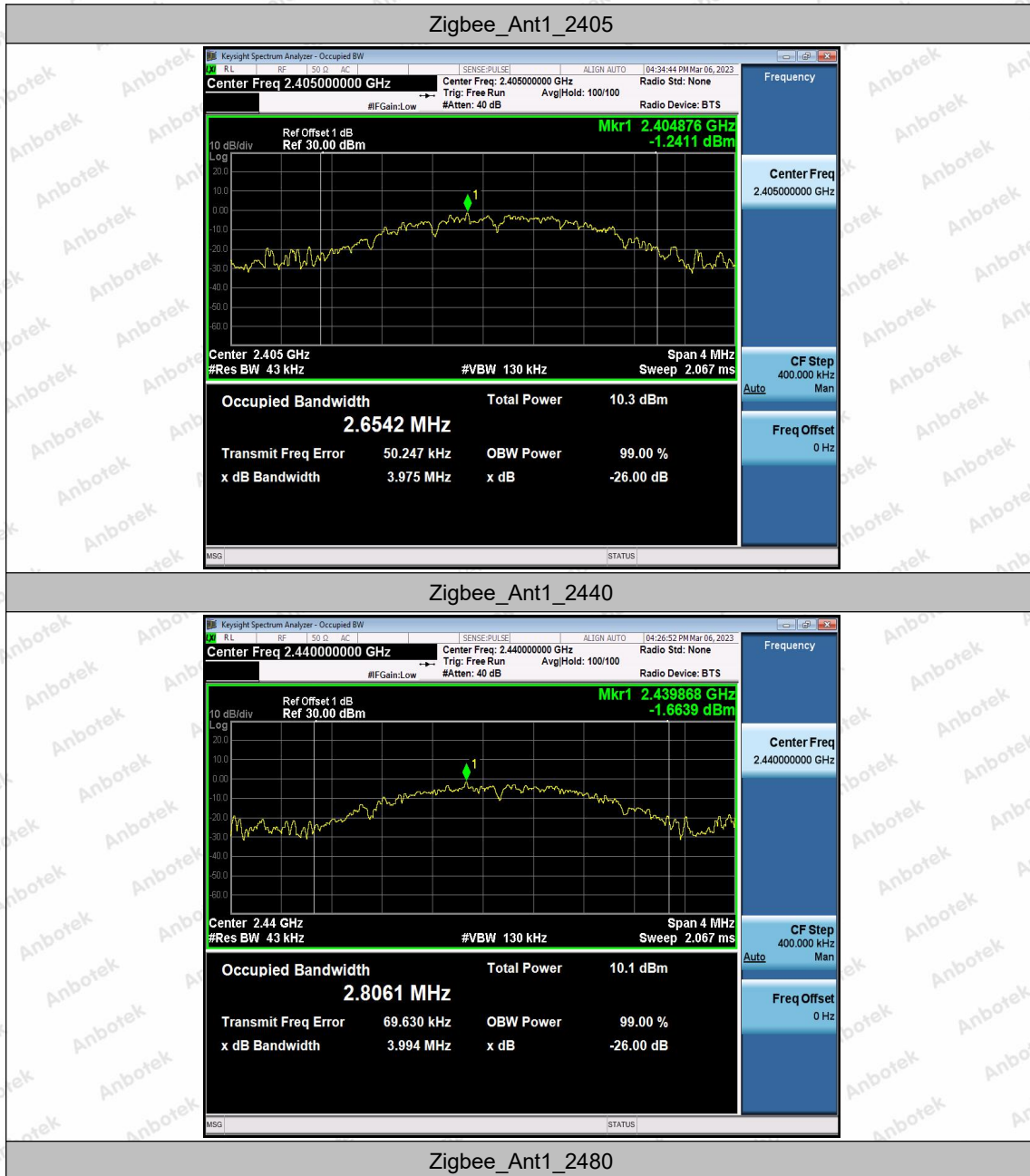
Appendix B: Occupied Channel Bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] |
|----------|---------|----------------|-----------|-----------|-----------|
| Zigbee | Ant1 | 2405 | 2.6542 | 2403.7232 | 2406.3774 |
| | | 2440 | 2.8061 | 2438.6666 | 2441.4727 |
| | | 2480 | 2.9429 | 2478.7215 | 2481.6644 |



Test Graphs



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Appendix C: Maximum conducted output power

Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|---------|
| Zigbee | Ant1 | 2405 | 4.69 | ≤30 | PASS |
| | | 2440 | 4.56 | ≤30 | PASS |
| | | 2480 | 4 | ≤30 | PASS |

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Test Graphs Peak



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Appendix D: Maximum power spectral density

Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| Zigbee | Ant1 | 2405 | -5.26 | ≤8.00 | PASS |
| | | 2440 | -5.3 | ≤8.00 | PASS |
| | | 2480 | -6.96 | ≤8.00 | PASS |

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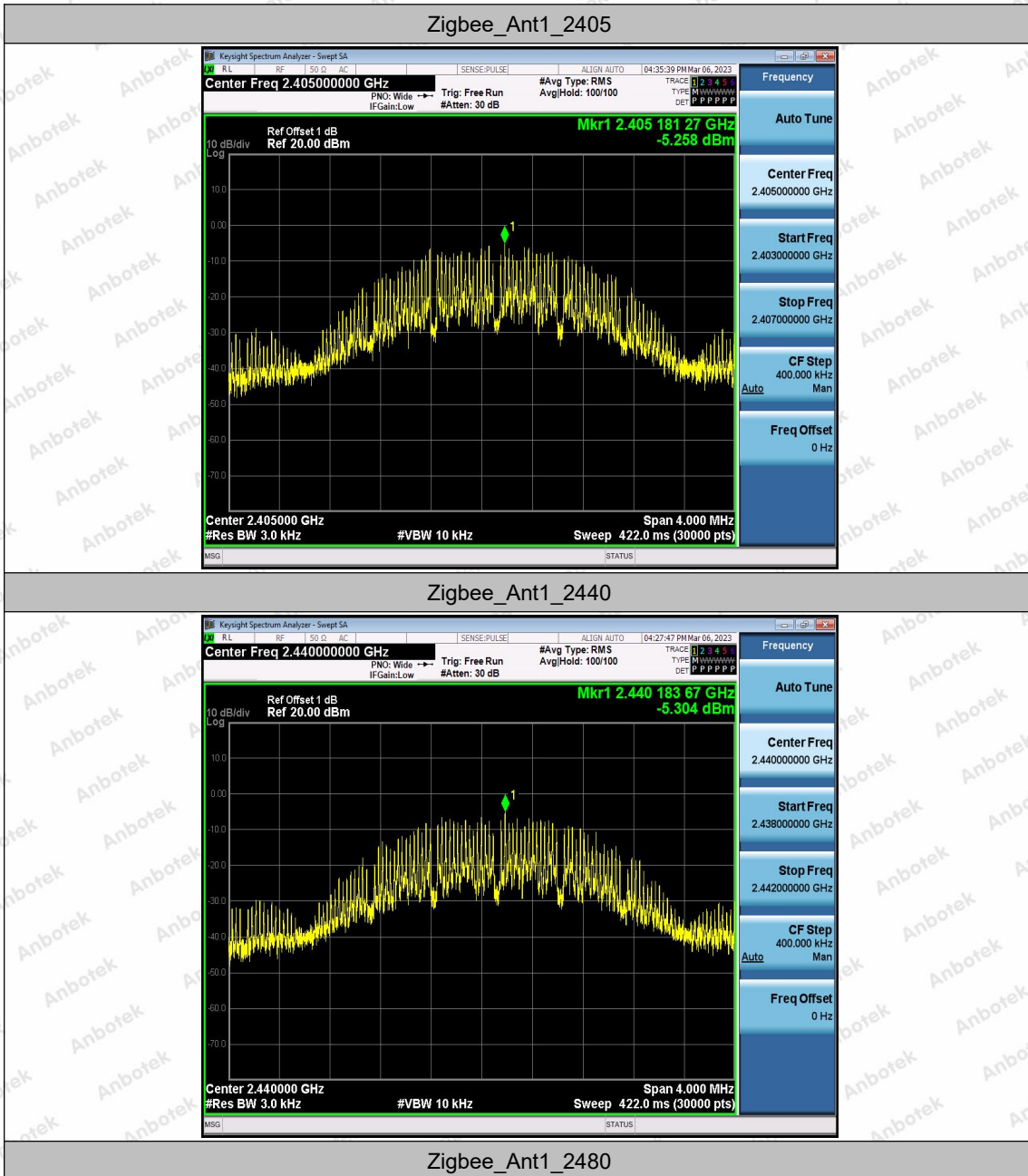
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Test Graphs

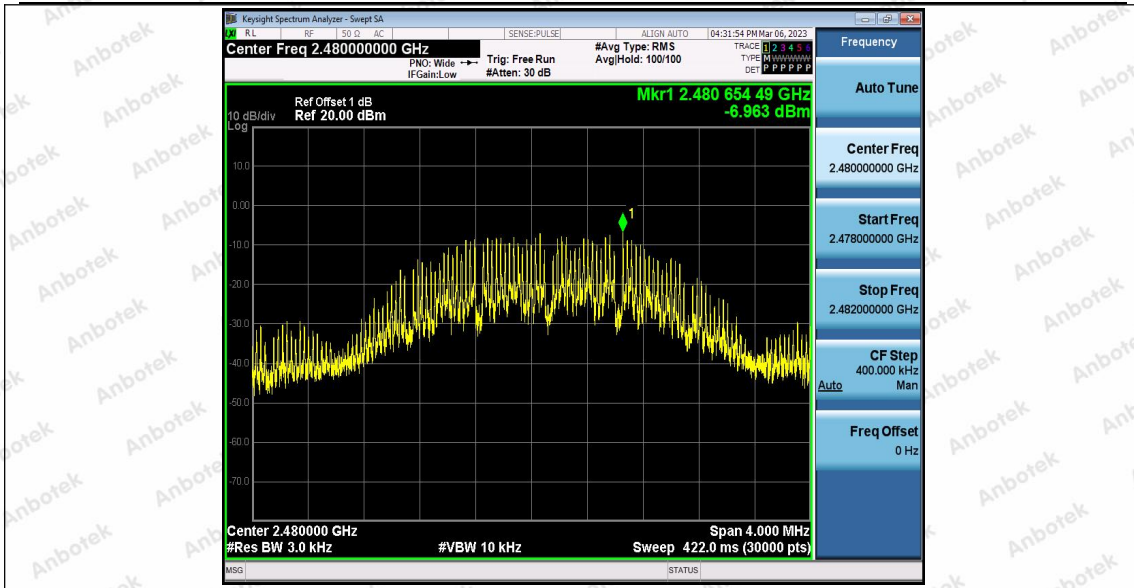


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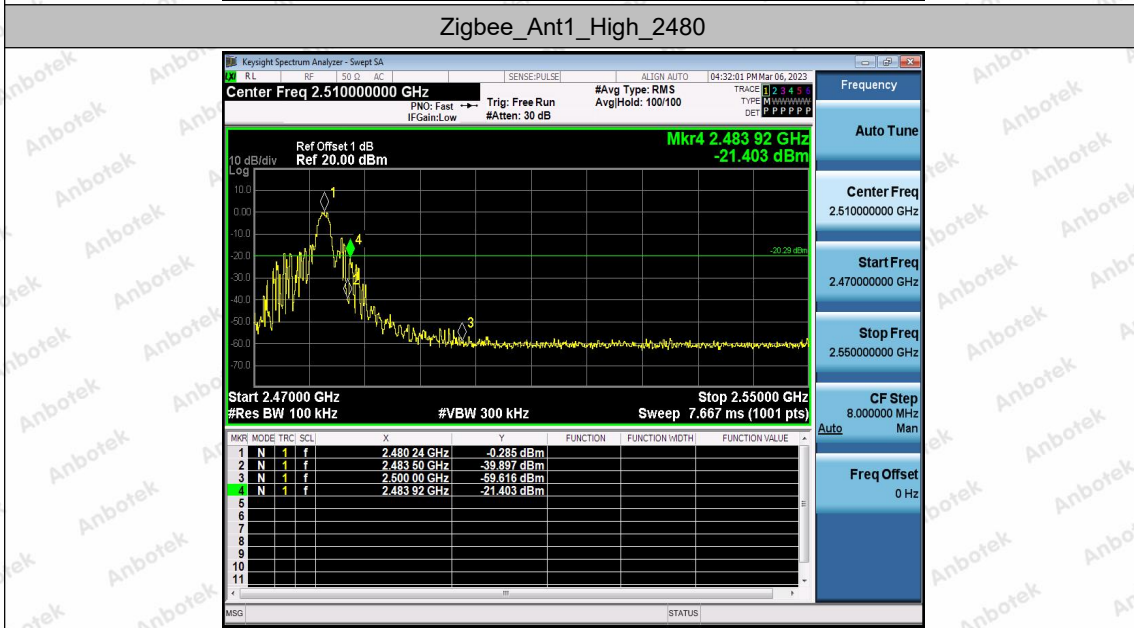
Appendix E: Band edge measurements

Test Result

| TestMode | Antenna | Channel | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|----------------|---------------|-------------|------------|---------|
| Zigbee | Ant1 | Low | 2405 | 2.42 | -18.99 | ≤-17.59 | PASS |
| | | High | 2480 | -0.29 | -21.4 | ≤-20.29 | PASS |



Test Graphs



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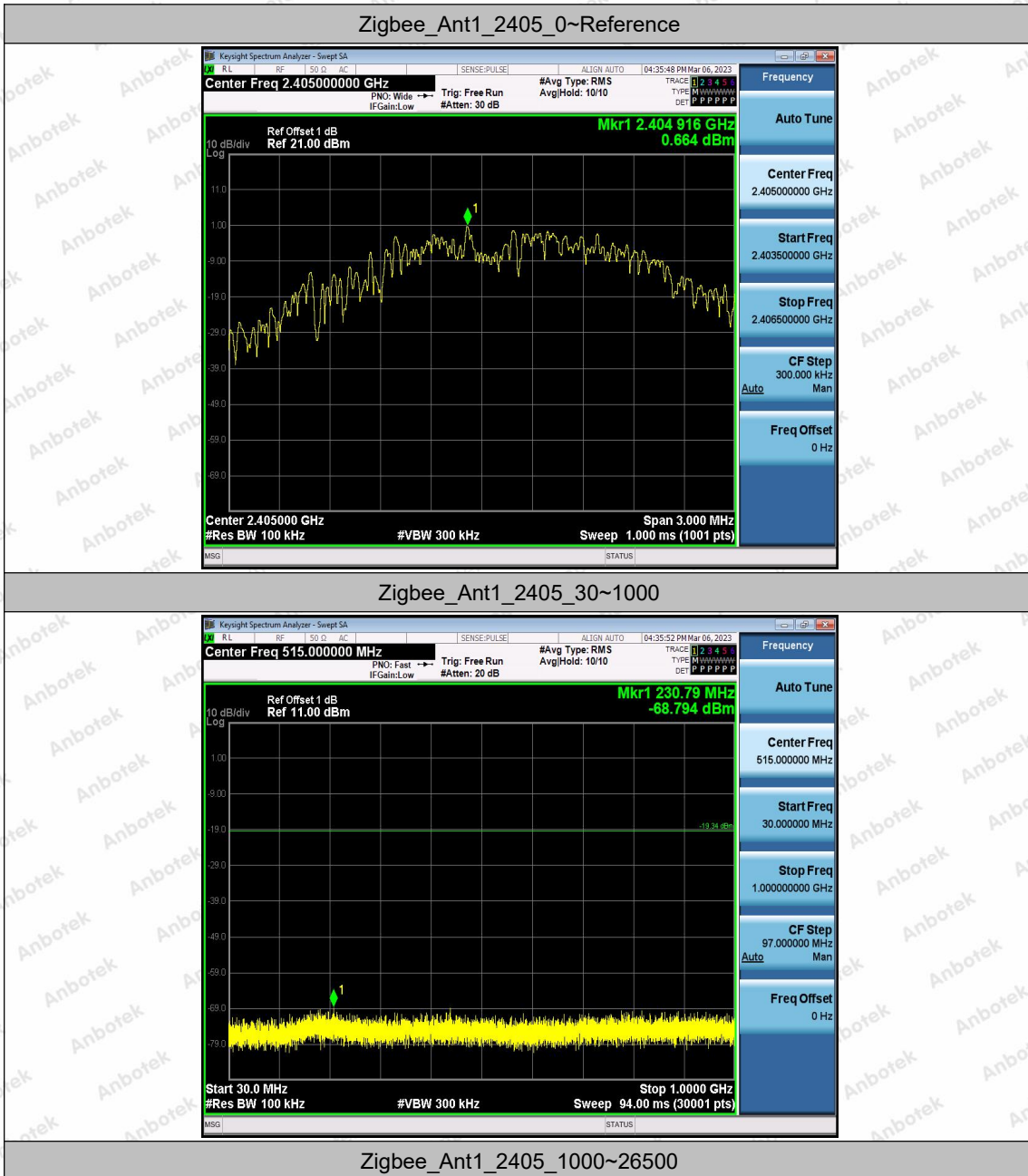
Appendix F: Conducted Spurious Emission

Test Result

| TestMode | Antenna | Frequency [MHz] | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|-----------------|-----------------|----------------|--------------|-------------|---------|
| Zigbee | Ant1 | 2405 | Reference | 0.66 | 0.66 | --- | PASS |
| | | | 30~1000 | 0.66 | -68.79 | ≤-19.34 | PASS |
| | | | 1000~26500 | 0.66 | -43.51 | ≤-19.34 | PASS |
| | | 2440 | Reference | 0.92 | 0.92 | --- | PASS |
| | | | 30~1000 | 0.92 | -68.43 | ≤-19.08 | PASS |
| | | | 1000~26500 | 0.92 | -53.47 | ≤-19.08 | PASS |
| | | 2480 | Reference | -1.65 | -1.65 | --- | PASS |
| | | | 30~1000 | -1.65 | -68.36 | ≤-21.65 | PASS |
| | | | 1000~26500 | -1.65 | -52.16 | ≤-21.65 | PASS |



Test Graphs

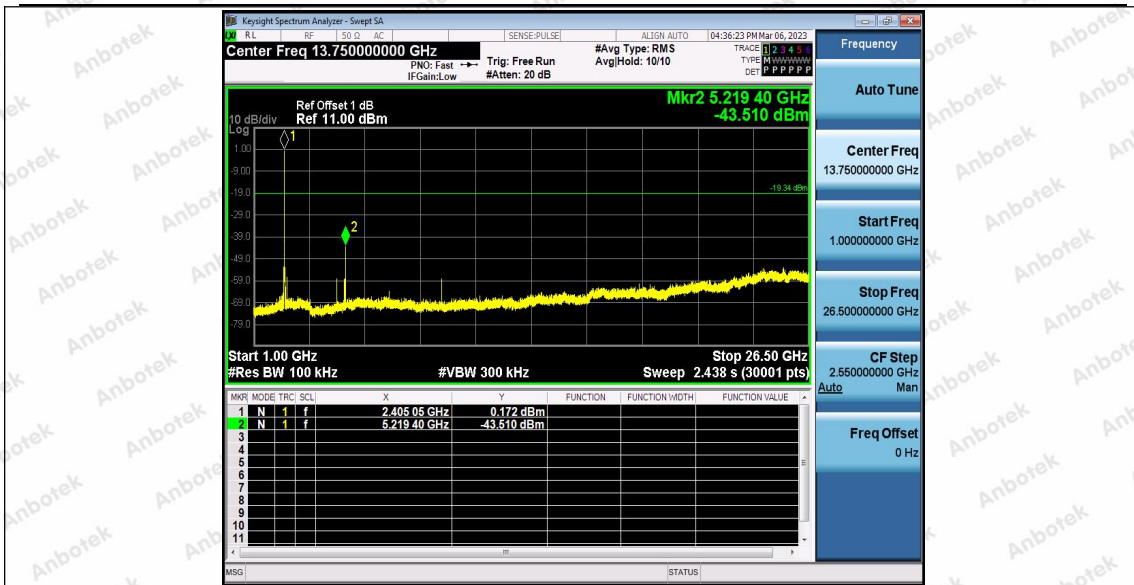


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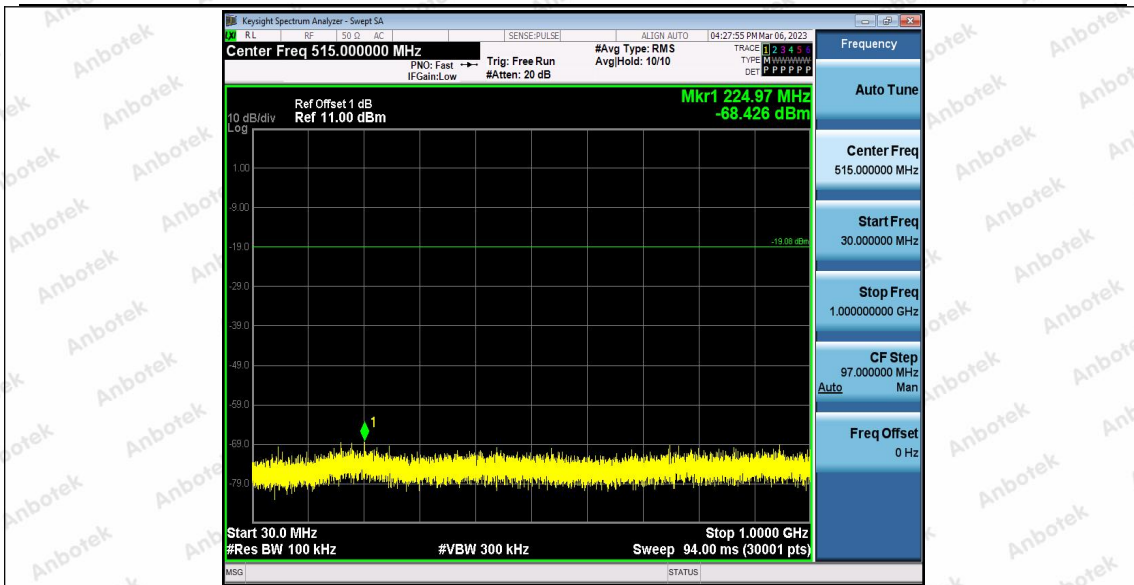


Zigbee_Ant1_2440_0~Reference

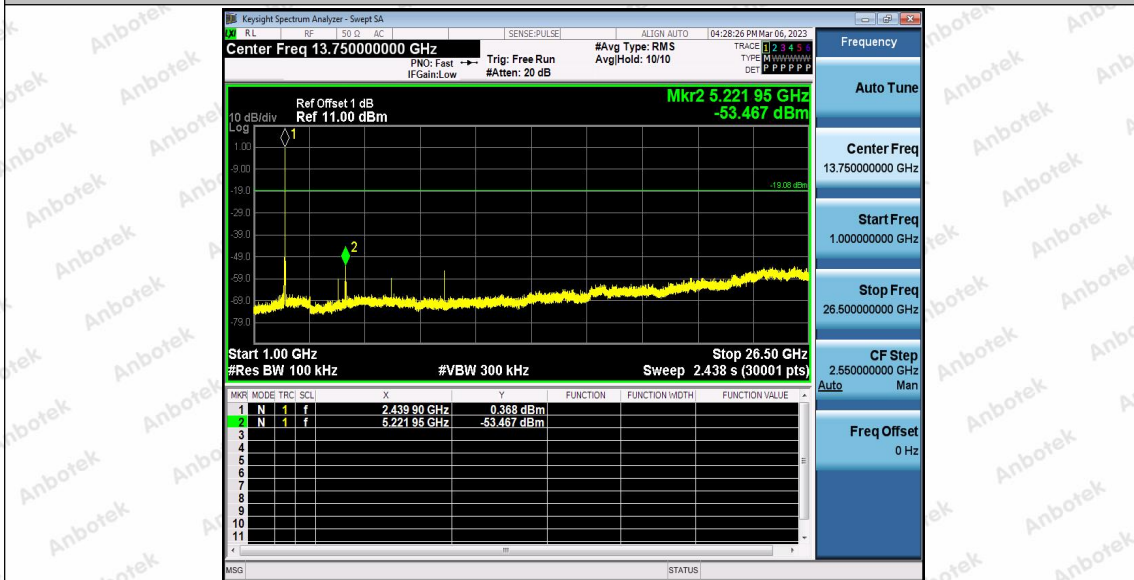


Zigbee_Ant1_2440_30~1000





Zigbee_Ant1_2440_1000~26500



Zigbee_Ant1_2480_0-Reference

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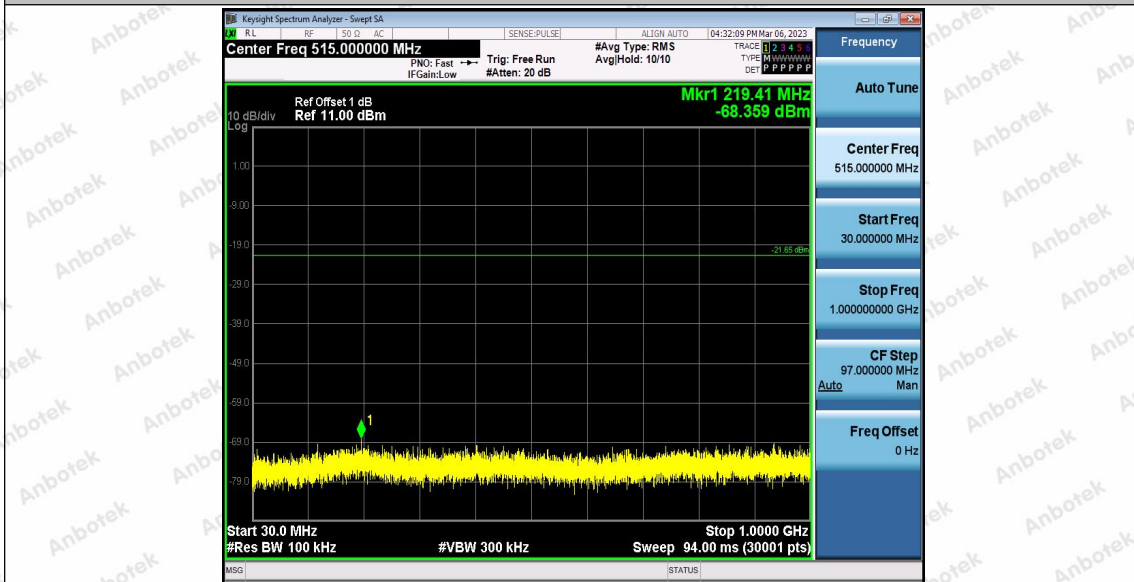
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Zigbee_Ant1_2480_30~1000



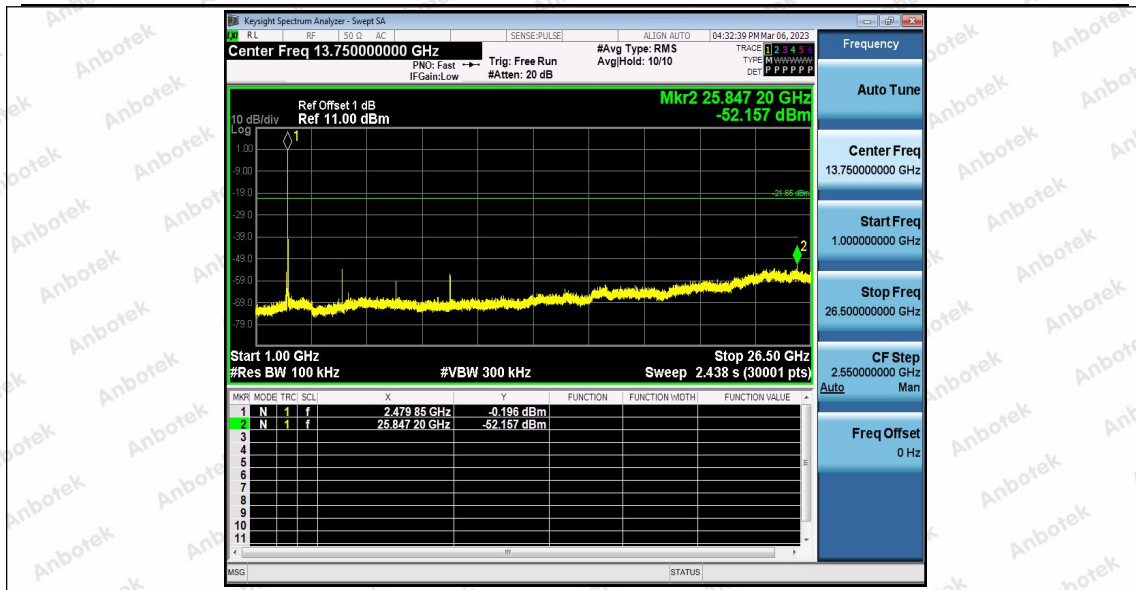
Zigbee_Ant1_2480_1000~26500

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Appendix G: Duty Cycle

Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|----------|---------|----------------|--------------|-------------|----------------|-----------------------|
| Zigbee | Ant1 | 2405 | 0.59 | 1.92 | 30.73 | 5.12 |
| | | 2440 | 0.58 | 1.92 | 30.21 | 5.20 |
| | | 2480 | 0.58 | 1.92 | 30.21 | 5.20 |

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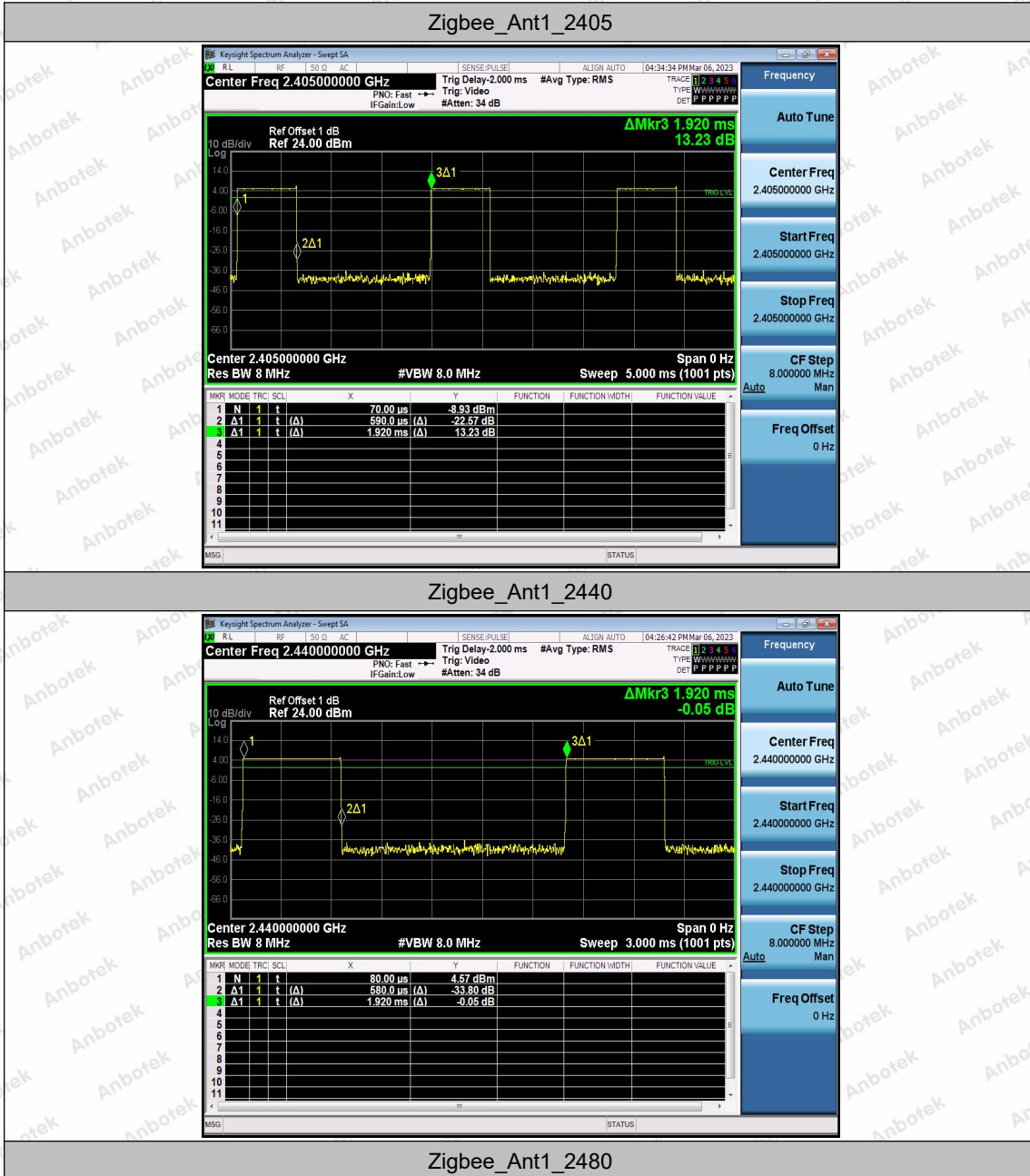
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Test Graphs

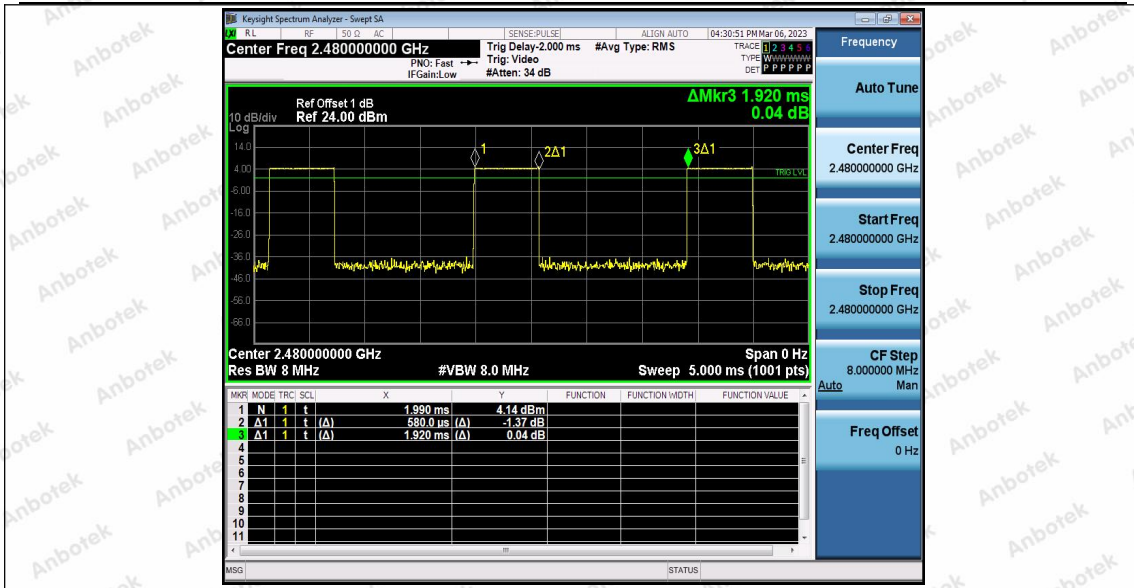


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