

Appendix Test Data

| | | | |
|------------------|-----------------|--------------------|-------------------|
| Report No.: | 18220WC30093901 | Test Sample No.: | 1-2-2 |
| Start Test Date: | 2023.05.18 | Finish Test Date: | 2023.05.23 |
| Test Engineer: | <i>RICK Luo</i> | Auditor: | <i>Edward Pan</i> |
| Temperature: | 23.4°C | Relative Humidity: | 54% |
| Pressure: | 1012 hPa | | |

Appendix A: DTS Bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE_1M | Ant1 | 2402 | 0.708 | 2401.664 | 2402.372 | 0.5 | PASS |
| | | 2440 | 0.728 | 2439.660 | 2440.388 | 0.5 | PASS |
| | | 2480 | 0.704 | 2479.644 | 2480.348 | 0.5 | PASS |

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Test Graphs



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Appendix B: Occupied Channel Bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] |
|----------|---------|----------------|-----------|-----------|-----------|
| BLE_1M | Ant1 | 2402 | 1.7708 | 2401.0559 | 2402.8267 |
| | | 2440 | 1.6233 | 2439.1389 | 2440.7622 |
| | | 2480 | 1.2700 | 2479.3316 | 2480.6016 |

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Test Graphs



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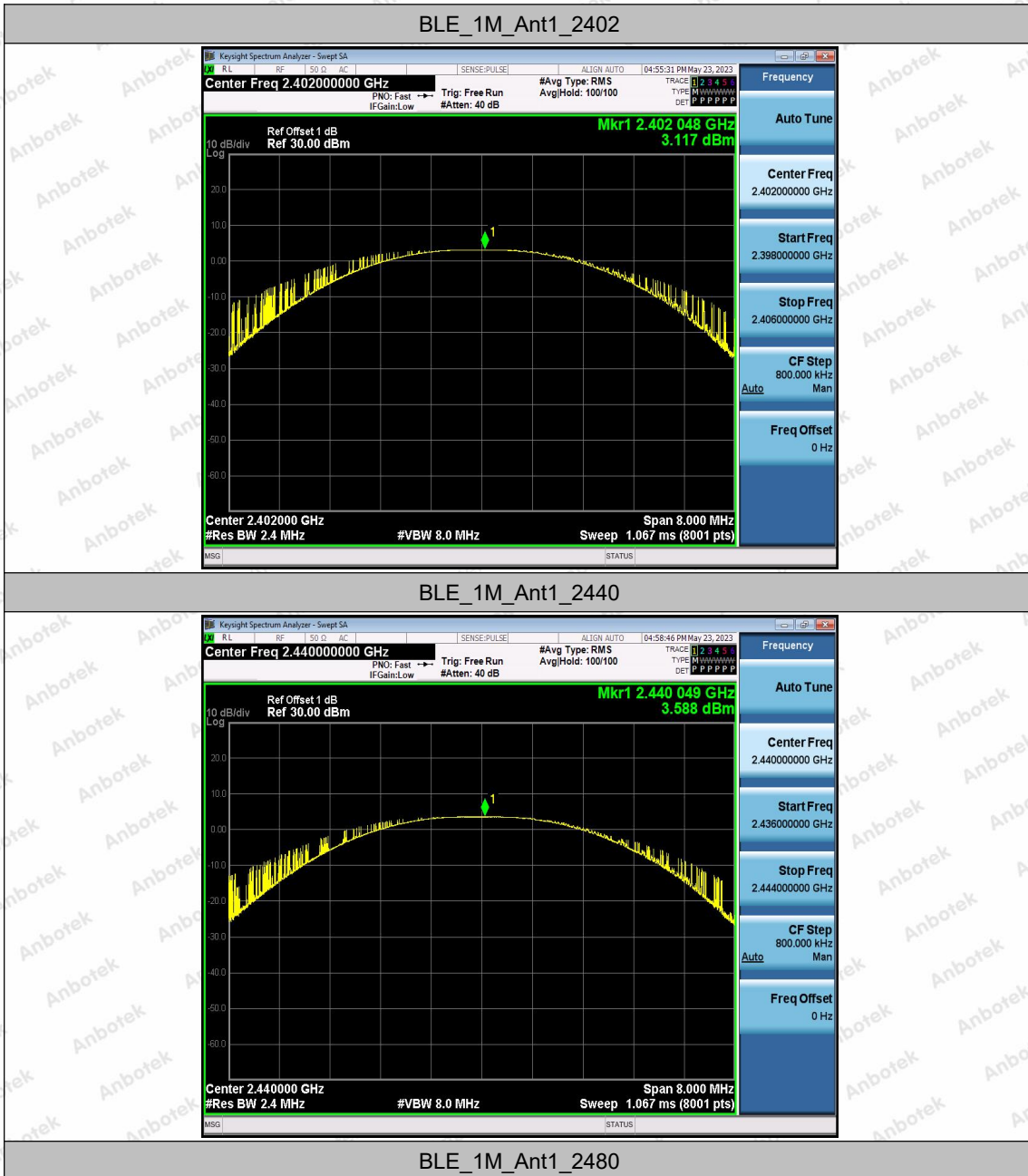
Appendix C: Maximum conducted output power

Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M | Ant1 | 2402 | 3.12 | ≤30 | PASS |
| | | 2440 | 3.59 | ≤30 | PASS |
| | | 2480 | 4.27 | ≤30 | PASS |



Test Graphs Peak



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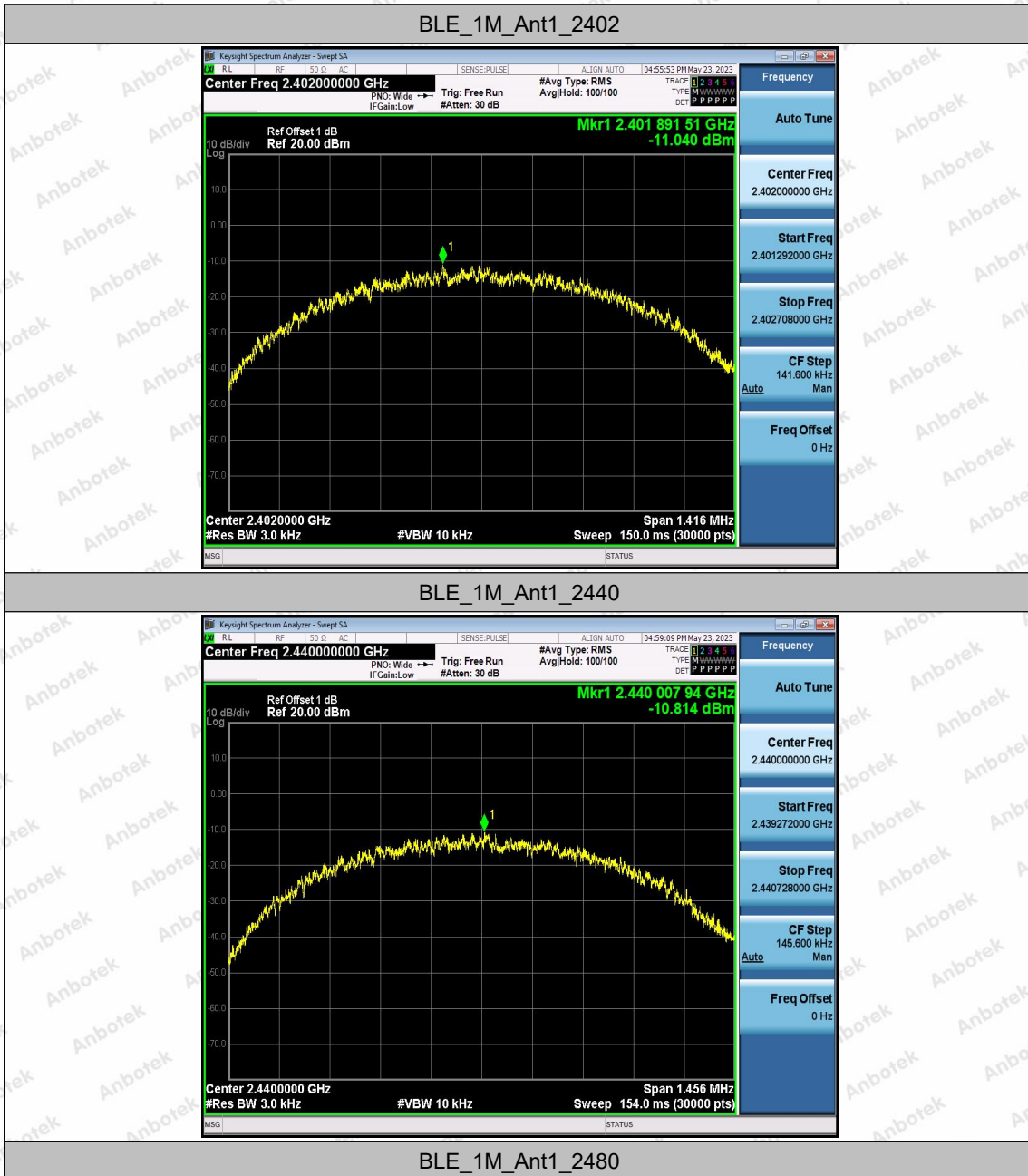
Appendix D: Maximum power spectral density

Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M | Ant1 | 2402 | -11.04 | ≤8.00 | PASS |
| | | 2440 | -10.81 | ≤8.00 | PASS |
| | | 2480 | -10.06 | ≤8.00 | PASS |



Test Graphs



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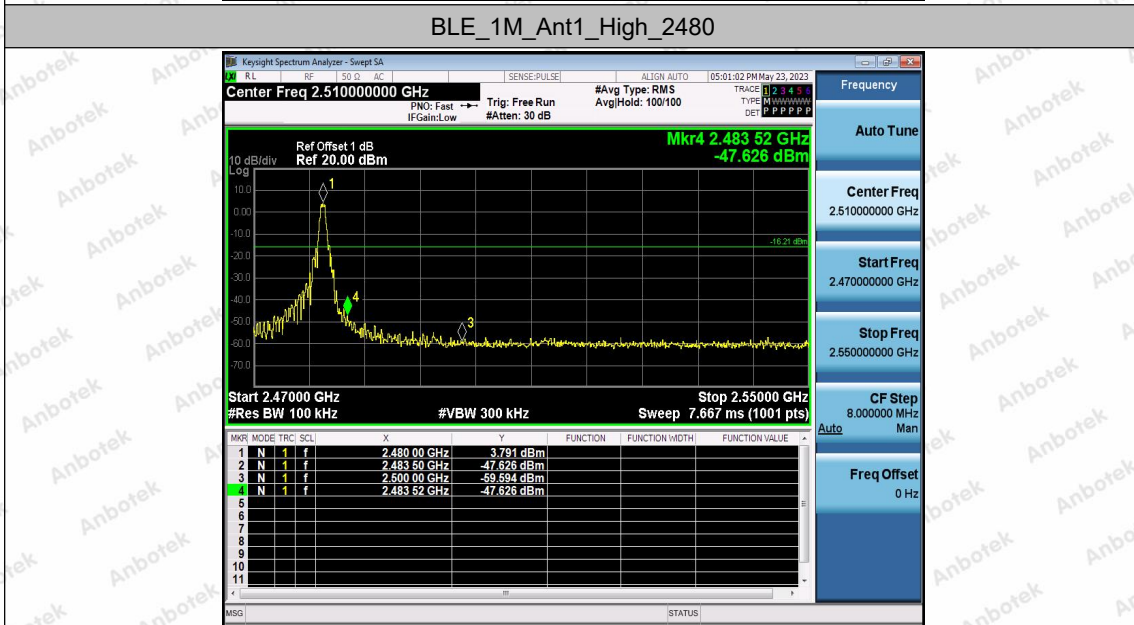
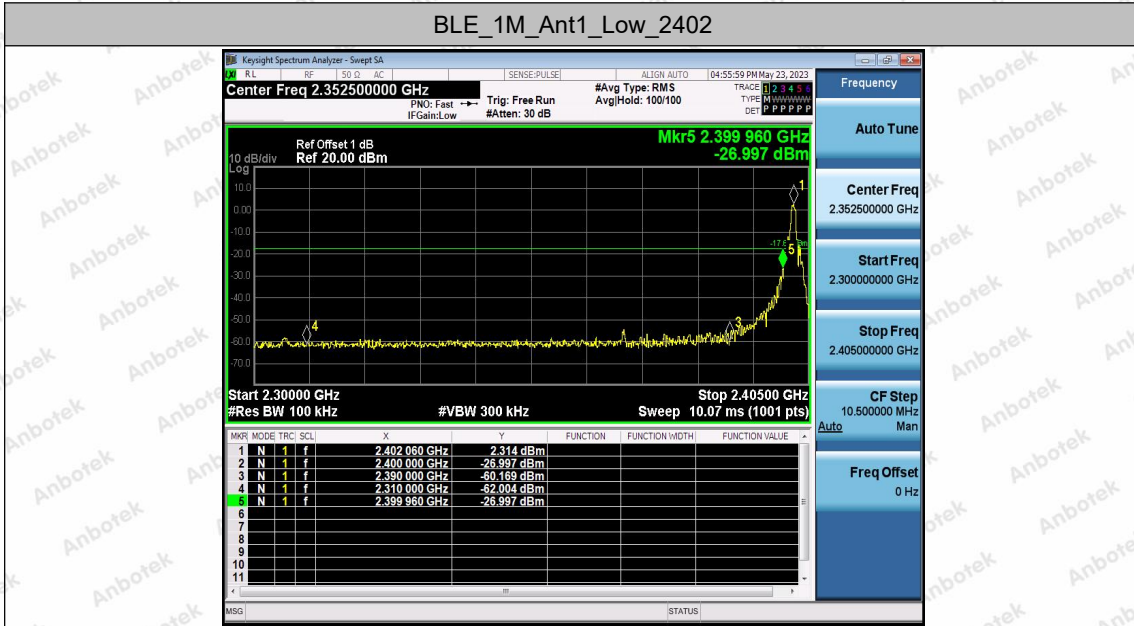
Appendix E: Band edge measurements

Test Result

| TestMode | Antenna | Channel | Frequency [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|---------|-----------------|----------------|--------------|-------------|---------|
| BLE_1M | Ant1 | Low | 2402 | 2.31 | -27 | ≤-17.69 | PASS |
| | | High | 2480 | 3.79 | -47.63 | ≤-16.21 | 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 |
|----------|---------|-----------------|-----------------|----------------|--------------|-------------|---------|
| BLE_1M | Ant1 | 2402 | Reference | 2.77 | 2.77 | --- | PASS |
| | | | 30~1000 | 2.77 | -67.81 | ≤-17.23 | PASS |
| | | | 1000~26500 | 2.77 | -23.69 | ≤-17.23 | PASS |
| | | 2440 | Reference | 3.19 | 3.19 | --- | PASS |
| | | | 30~1000 | 3.19 | -68.33 | ≤-16.81 | PASS |
| | | | 1000~26500 | 3.19 | -19.95 | ≤-16.81 | PASS |
| | | 2480 | Reference | 3.20 | 3.20 | --- | PASS |
| | | | 30~1000 | 3.20 | -67.2 | ≤-16.8 | PASS |
| | | | 1000~26500 | 3.20 | -19.93 | ≤-16.8 | PASS |

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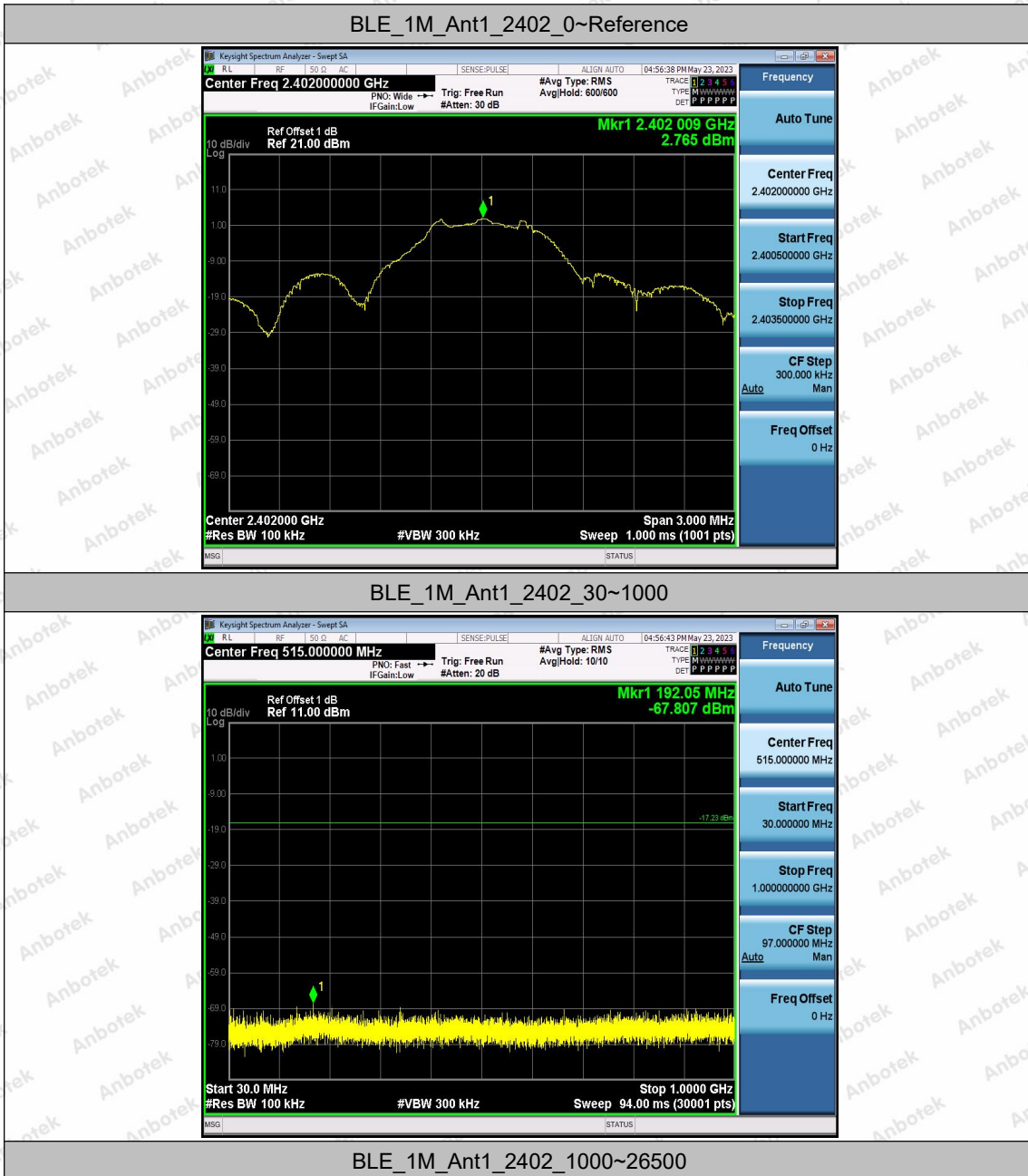
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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Test Graphs

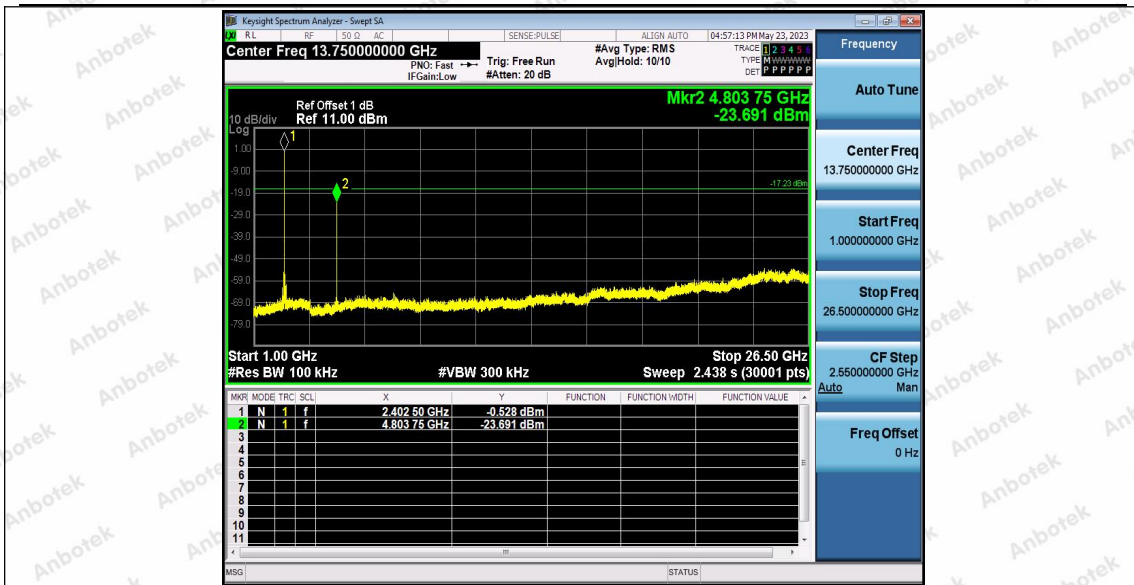


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BLE_1M_Ant1_2440_0~Reference



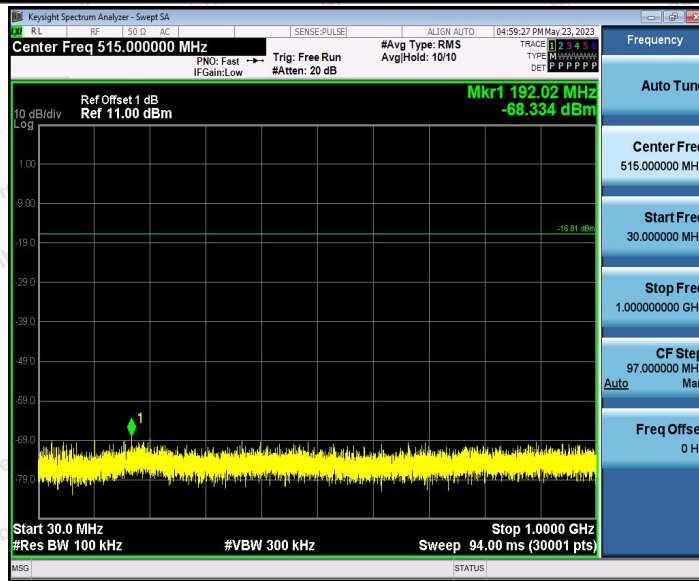
BLE_1M_Ant1_2440_30~1000

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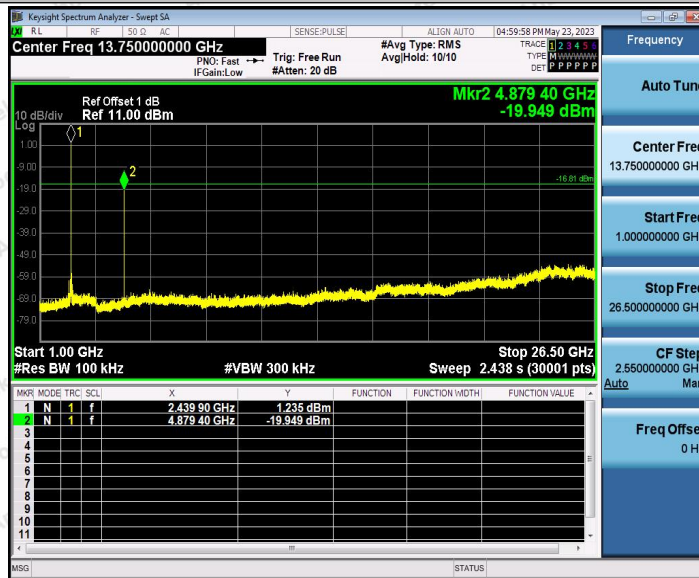
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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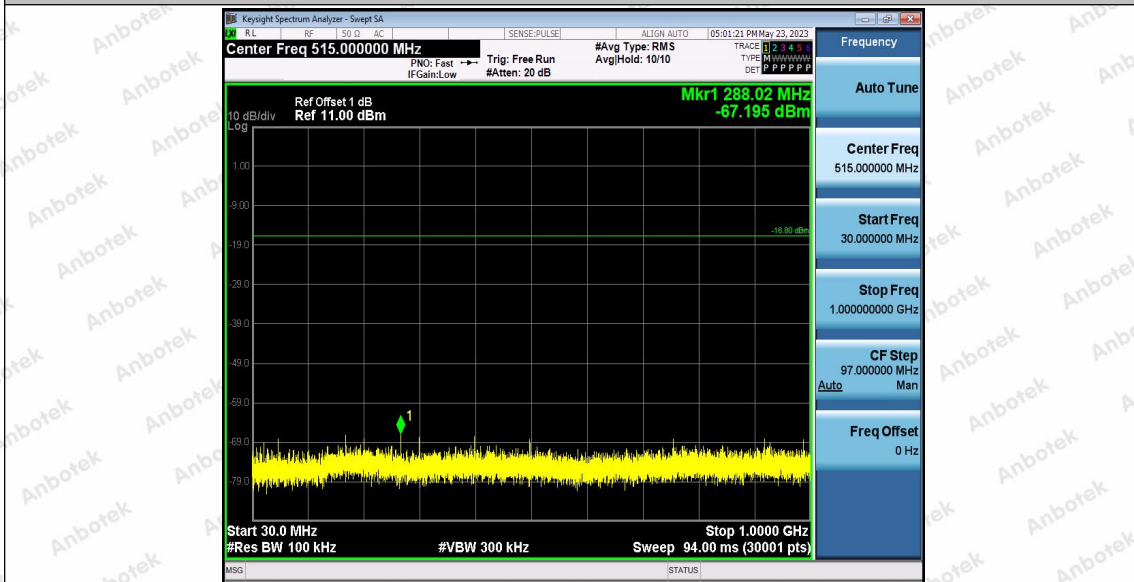
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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BLE_1M_Ant1_2480_30~1000



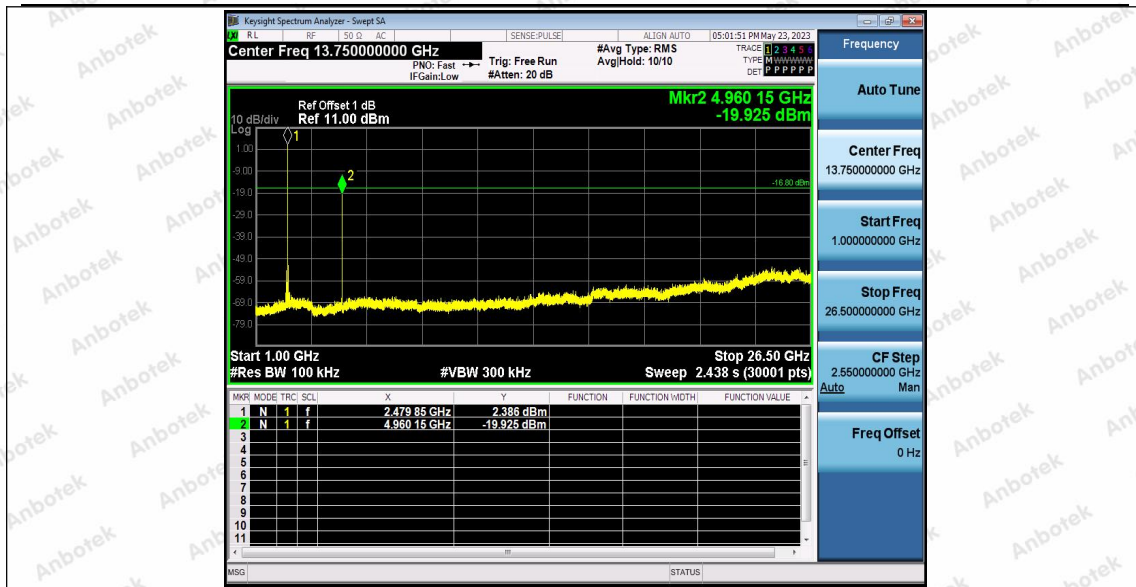
BLE_1M_Ant1_2480_1000~26500

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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] |
|----------|---------|----------------|--------------|-------------|----------------|-----------------------|
| BLE_1M | Ant1 | 2402 | 0.41 | 0.62 | 66.13 | 1.80 |
| | | 2440 | 0.41 | 0.62 | 66.13 | 1.80 |
| | | 2480 | 0.41 | 0.62 | 66.13 | 1.80 |

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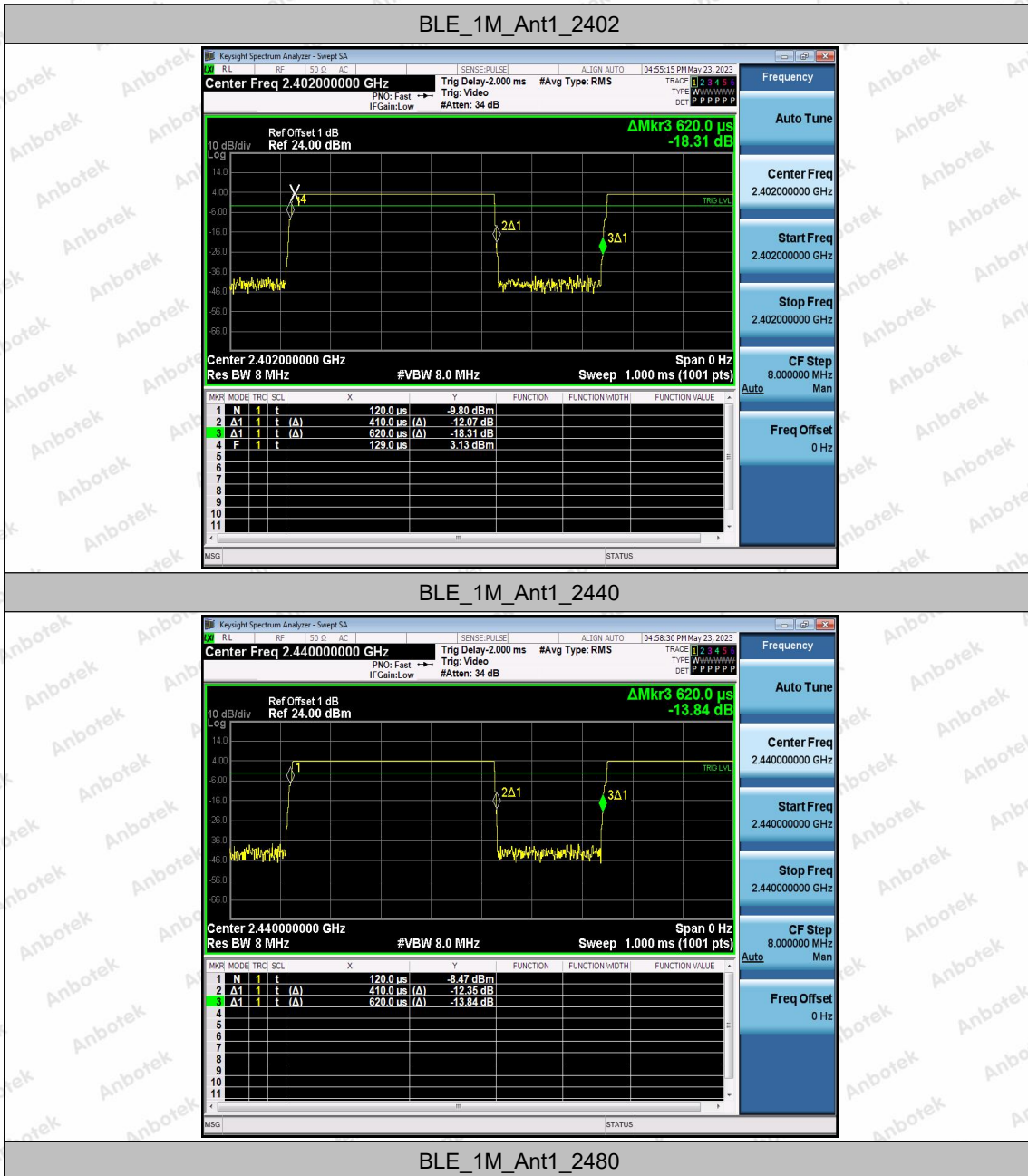
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Test Graphs



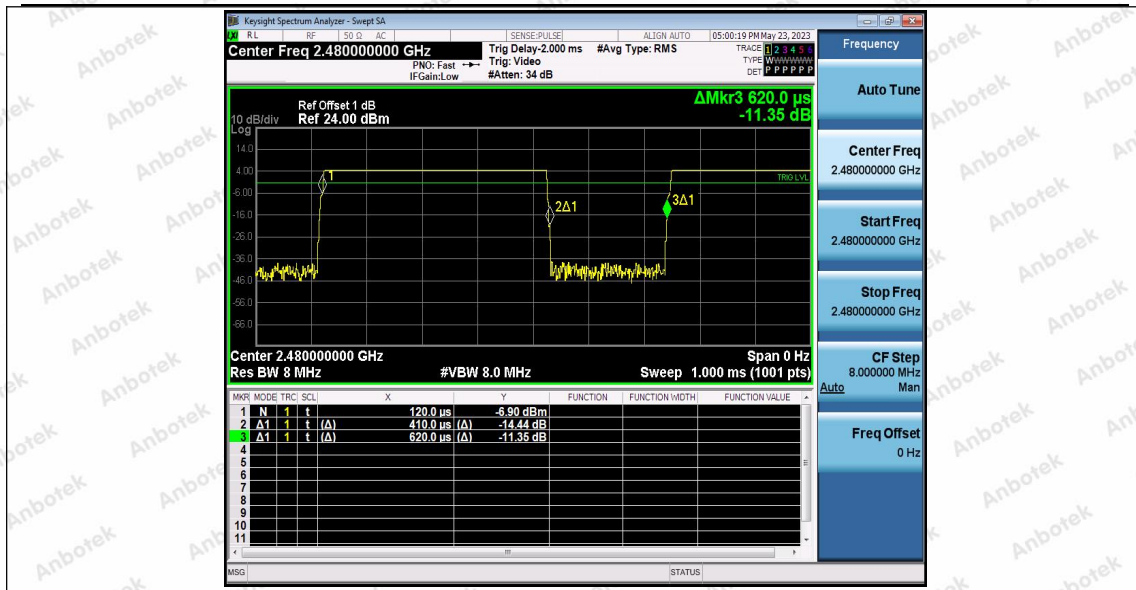
BLE_1M_Ant1_2480

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