

Appendix Test Data

| | | | |
|------------------|-----------------|--------------------|-------------------|
| Report No.: | 18220WC30039001 | Test Sample No.: | 1-2-2 |
| Start Test Date: | 2023.03.14 | Finish Test Date: | 2023.03.17 |
| Test Engineer: | <i>Jony He</i> | Auditor: | <i>Edward Pan</i> |
| Temperature: | 24.7C° | Relative Humidity: | 49% |
| 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 | 0.644 | 2401.676 | 2402.320 | 0.5 | PASS |
| | | 2440 | 0.660 | 2439.672 | 2440.332 | 0.5 | PASS |
| | | 2480 | 0.644 | 2479.672 | 2480.316 | 0.5 | PASS |
| BLE_2M | Ant1 | 2402 | 1.076 | 2401.480 | 2402.556 | 0.5 | PASS |
| | | 2440 | 1.096 | 2439.460 | 2440.556 | 0.5 | PASS |
| | | 2480 | 1.112 | 2479.456 | 2480.568 | 0.5 | PASS |

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Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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Appendix B: Occupied Channel Bandwidth

Test Result

| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] |
|-----------|---------|----------------|-----------|-----------|-----------|
| BLE_1M | Ant1 | 2402 | 1.0303 | 2401.4892 | 2402.5195 |
| | | 2440 | 1.0362 | 2439.4896 | 2440.5258 |
| | | 2480 | 1.0359 | 2479.4902 | 2480.5261 |
| BLE_2M | Ant1 | 2402 | 2.0930 | 2400.9731 | 2403.0661 |
| | | 2440 | 2.0970 | 2438.9690 | 2441.0660 |
| | | 2480 | 2.0869 | 2478.9755 | 2481.0624 |

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Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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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 | 1.34 | ≤30 | PASS |
| | | 2440 | 1.35 | ≤30 | PASS |
| | | 2480 | 1.37 | ≤30 | PASS |
| BLE_2M | Ant1 | 2402 | 1.34 | ≤30 | PASS |
| | | 2440 | 1.39 | ≤30 | PASS |
| | | 2480 | 1.38 | ≤30 | PASS |

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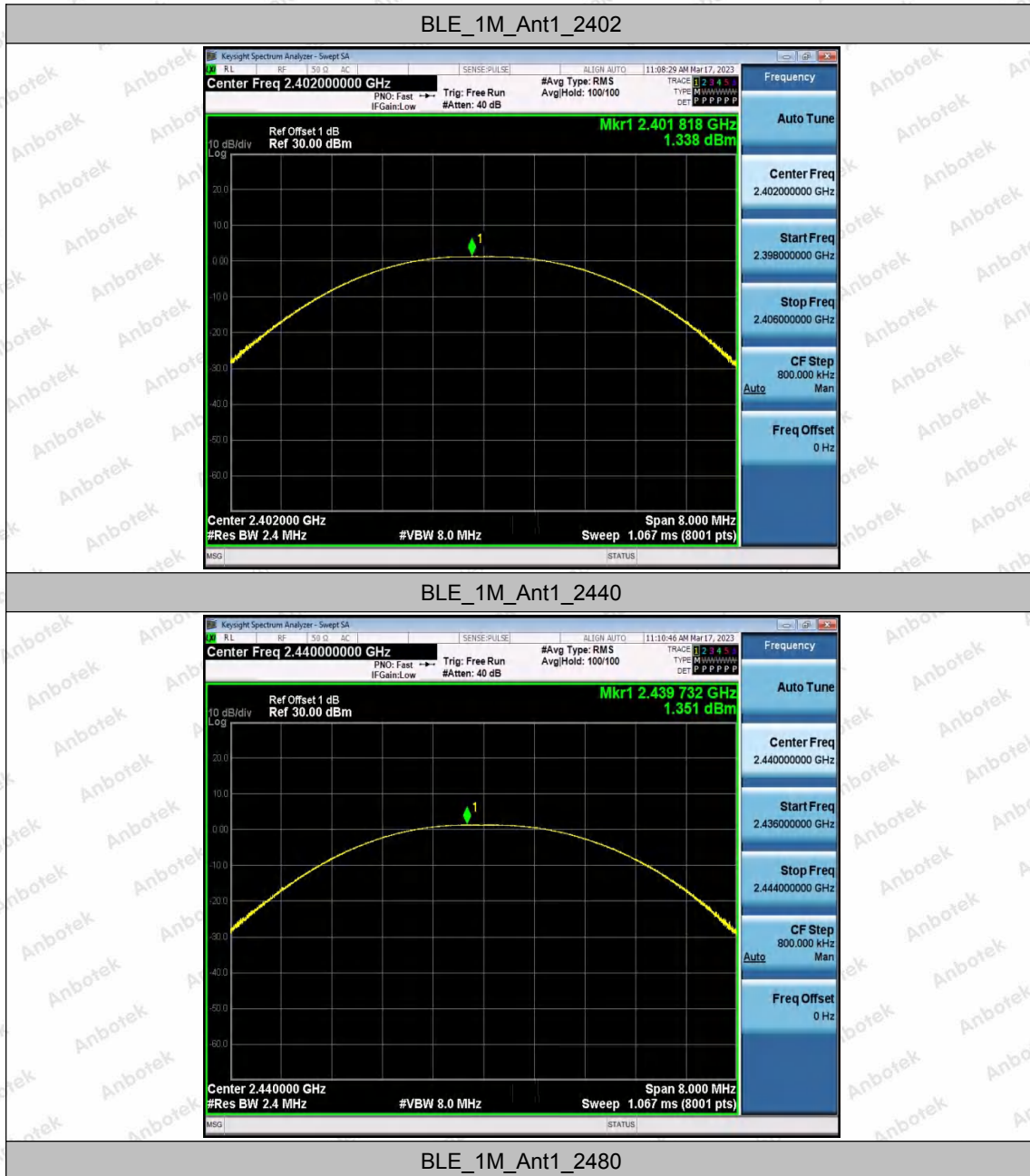
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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Test Graphs Peak



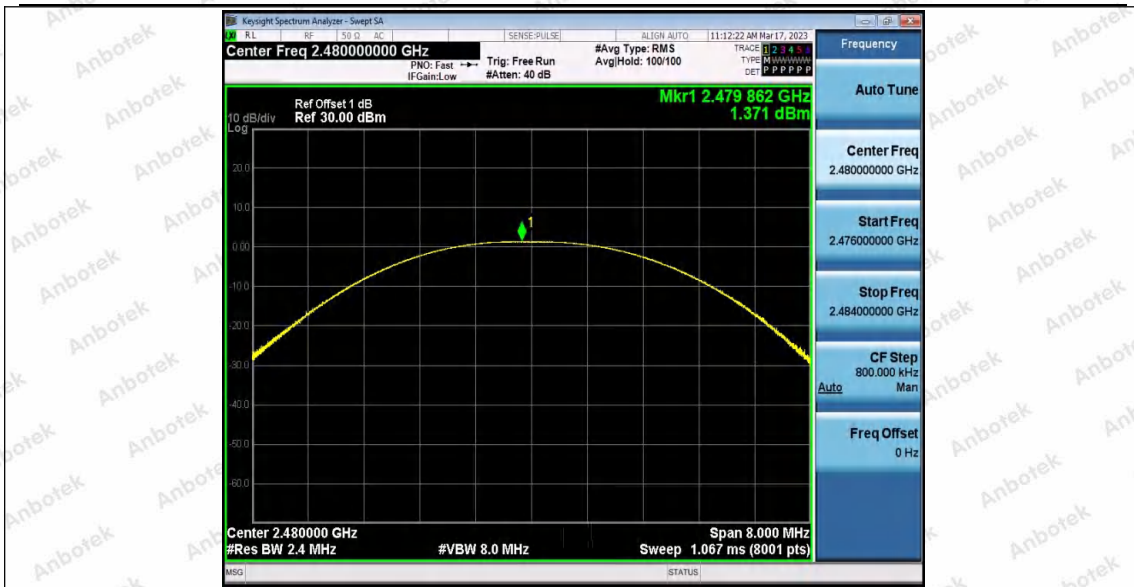
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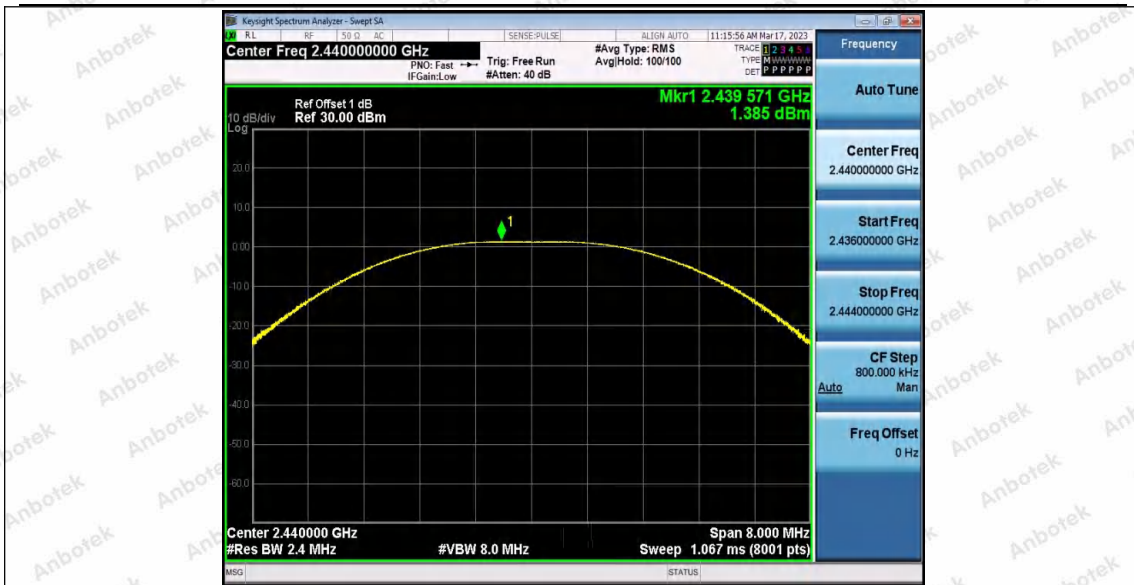
BLE_2M_Ant1_2440

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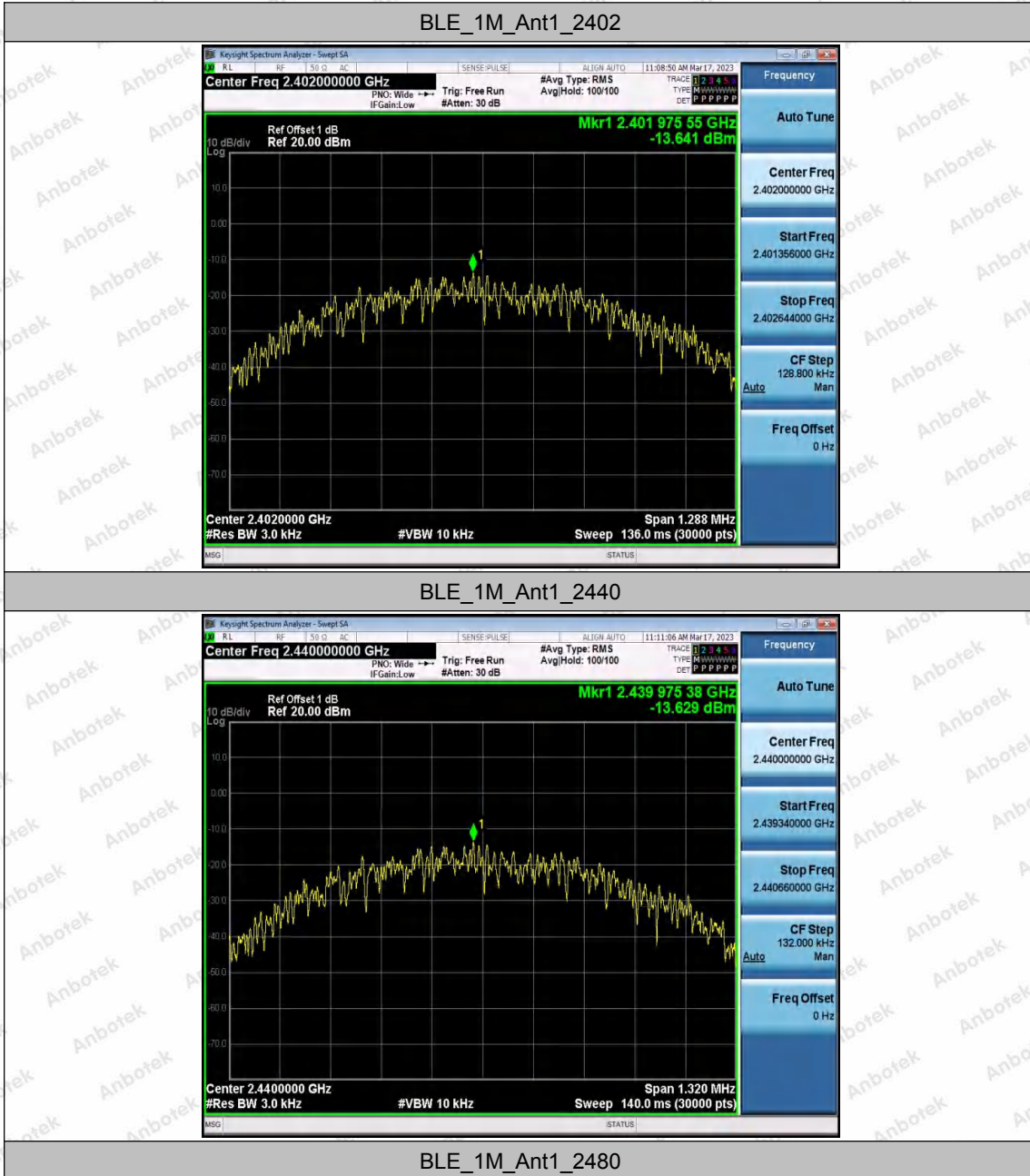
Appendix D: Maximum power spectral density

Test Result

| Test Mode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M | Ant1 | 2402 | -13.64 | ≤8.00 | PASS |
| | | 2440 | -13.63 | ≤8.00 | PASS |
| | | 2480 | -13.59 | ≤8.00 | PASS |
| BLE_2M | Ant1 | 2402 | -14.97 | ≤8.00 | PASS |
| | | 2440 | -14.96 | ≤8.00 | PASS |
| | | 2480 | -14.95 | ≤8.00 | PASS |



Test Graphs

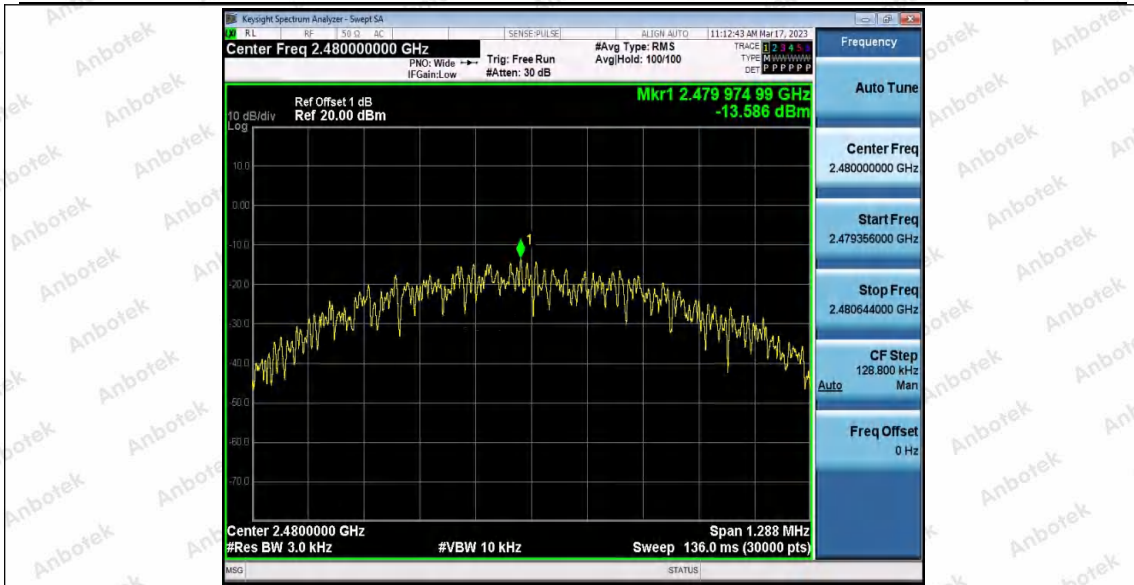


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BLE_2M_Ant1_2440

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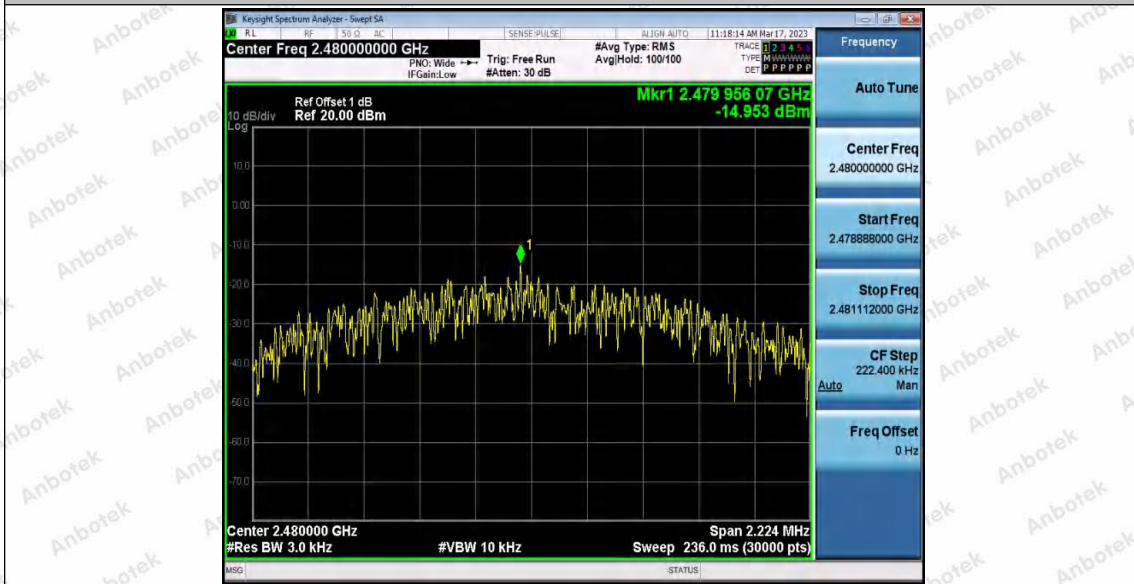
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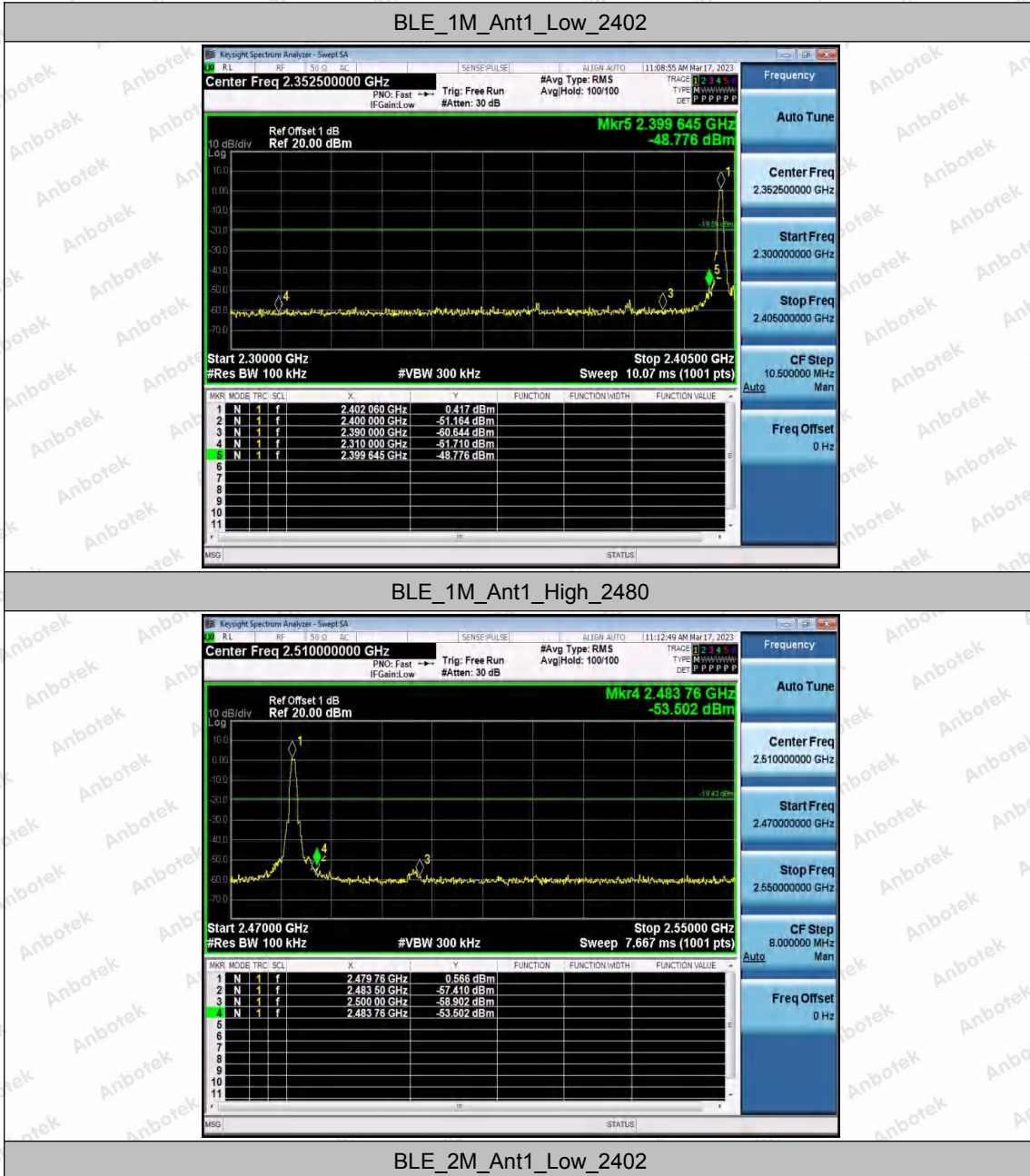
Appendix E: Band edge measurements

Test Result

| TestMode | Antenna | ChName | Frequency [MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|-----------------|---------------|-------------|------------|---------|
| BLE_1M | Ant1 | Low | 2402 | 0.42 | -48.78 | ≤-19.58 | PASS |
| | | High | 2480 | 0.57 | -53.5 | ≤-19.43 | PASS |
| BLE_2M | Ant1 | Low | 2402 | 0.08 | -31.1 | ≤-19.92 | PASS |
| | | High | 2480 | 0.07 | -53.3 | ≤-19.93 | PASS |



Test Graphs

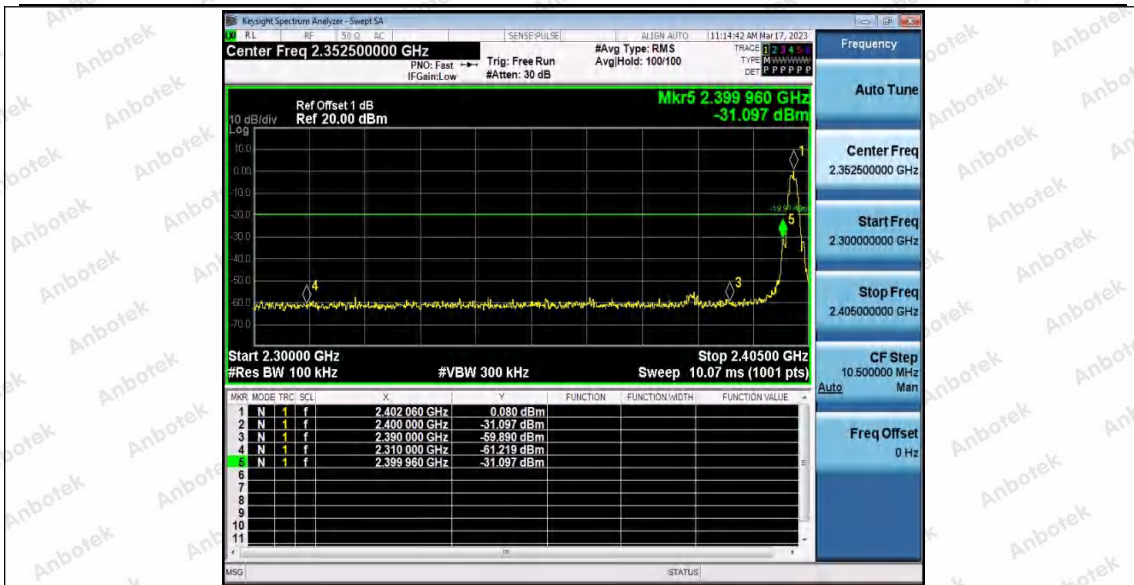


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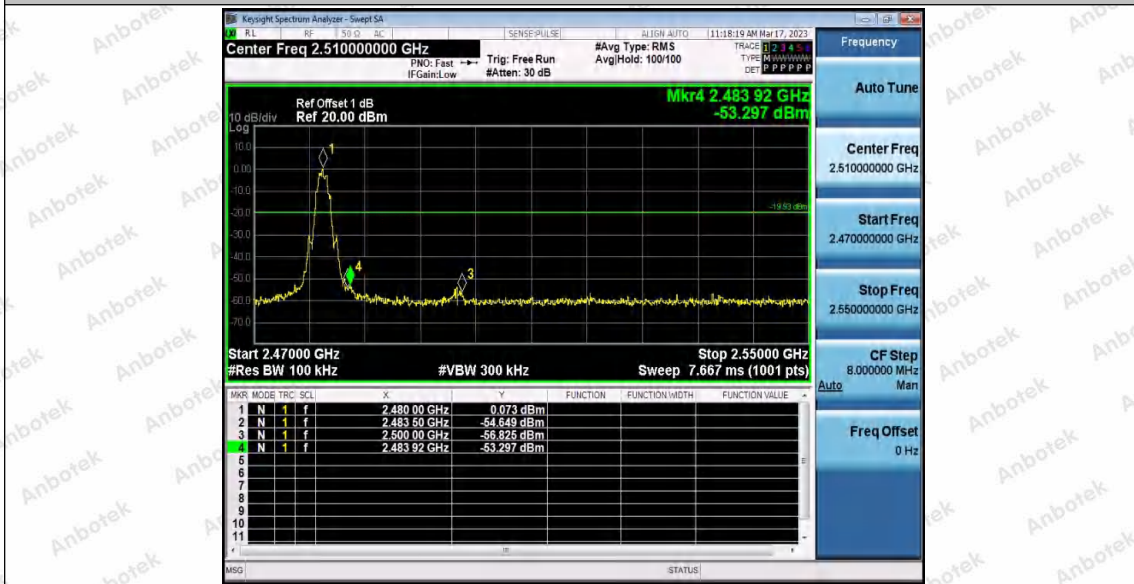
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BLE_2M_Ant1_High_2480



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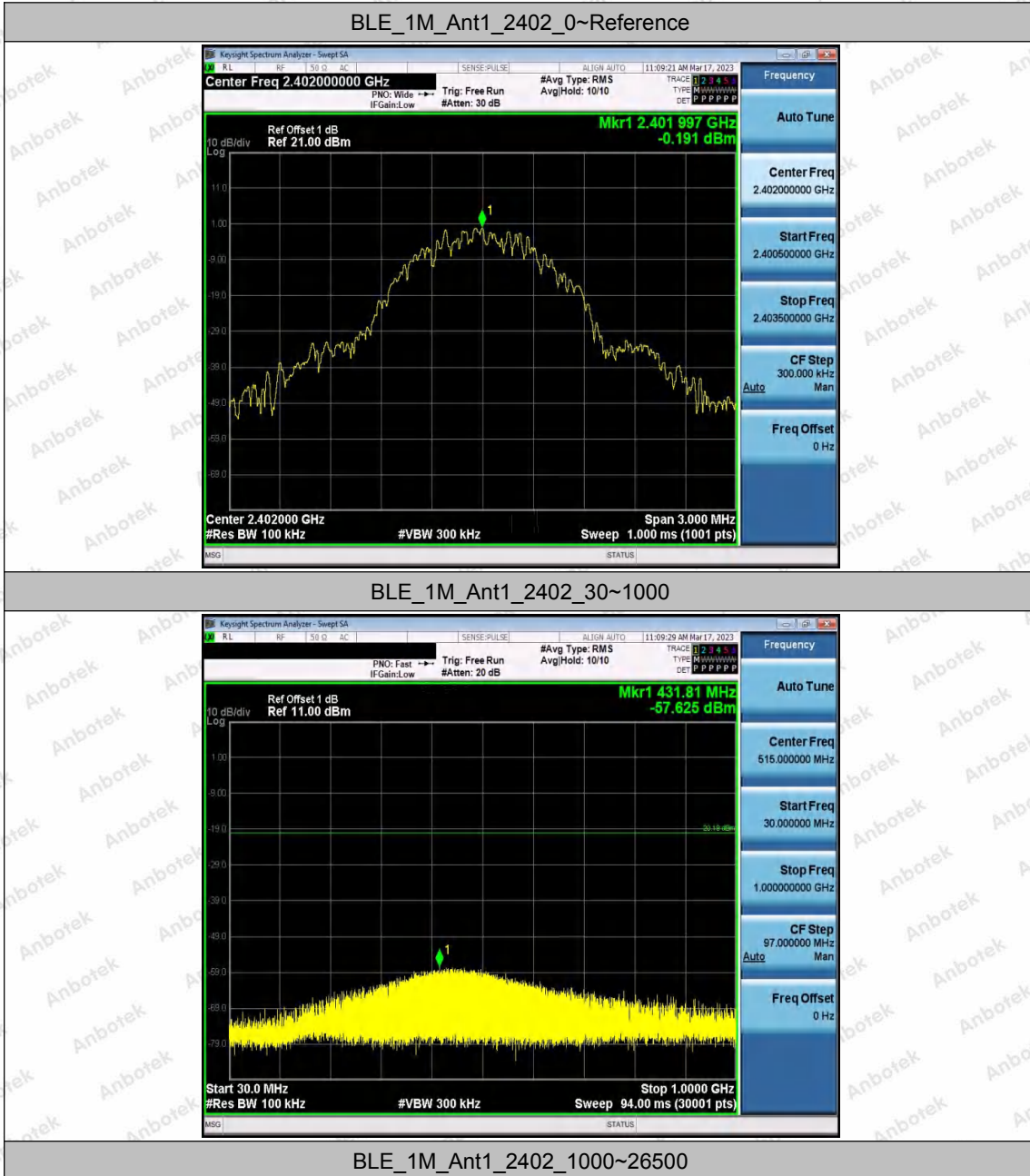
Appendix F: Conducted Spurious Emission

Test Result

| TestMode | Antenna | Frequency [MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|-----------------|-----------------|----------------|-------------|------------|---------|
| BLE_1M | Ant1 | 2402 | Reference | -0.19 | -0.19 | --- | PASS |
| | | | 30~1000 | -0.19 | -57.63 | ≤-20.19 | PASS |
| | | | 1000~26500 | -0.19 | -53.36 | ≤-20.19 | PASS |
| | | 2440 | Reference | -0.61 | -0.61 | --- | PASS |
| | | | 30~1000 | -0.61 | -57.45 | ≤-20.61 | PASS |
| | | | 1000~26500 | -0.61 | -52.77 | ≤-20.61 | PASS |
| | | 2480 | Reference | -0.13 | -0.13 | --- | PASS |
| | | | 30~1000 | -0.13 | -57.79 | ≤-20.13 | PASS |
| | | | 1000~26500 | -0.13 | -53.61 | ≤-20.13 | PASS |
| BLE_2M | Ant1 | 2402 | Reference | -0.26 | -0.26 | --- | PASS |
| | | | 30~1000 | -0.26 | -57.58 | ≤-20.26 | PASS |
| | | | 1000~26500 | -0.26 | -53.4 | ≤-20.26 | PASS |
| | | 2440 | Reference | -2.27 | -2.27 | --- | PASS |
| | | | 30~1000 | -2.27 | -57.29 | ≤-22.27 | PASS |
| | | | 1000~26500 | -2.27 | -53.36 | ≤-22.27 | PASS |
| | | 2480 | Reference | -1.39 | -1.39 | --- | PASS |
| | | | 30~1000 | -1.39 | -57.3 | ≤-21.39 | PASS |
| | | | 1000~26500 | -1.39 | -53.18 | ≤-21.39 | PASS |



Test Graphs

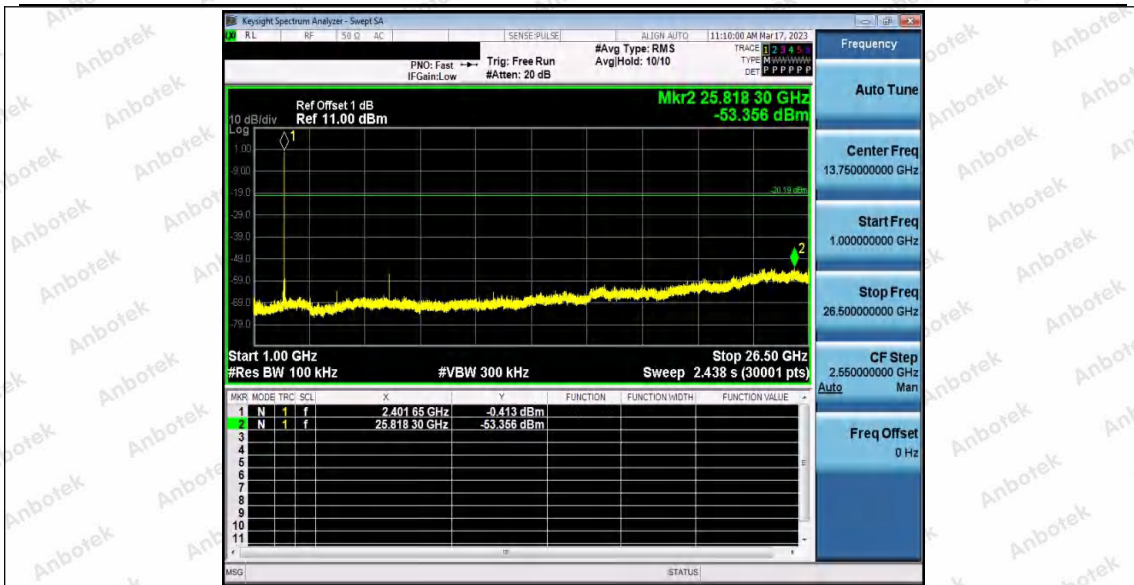


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BLE_1M_Ant1_2440_0~Reference



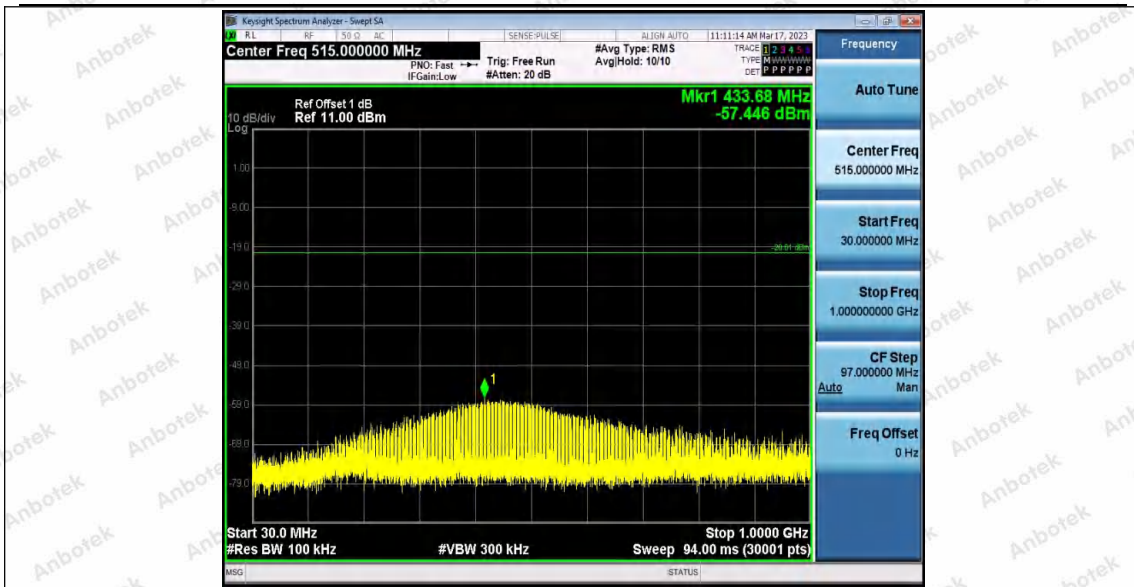
BLE_1M_Ant1_2440_30~1000

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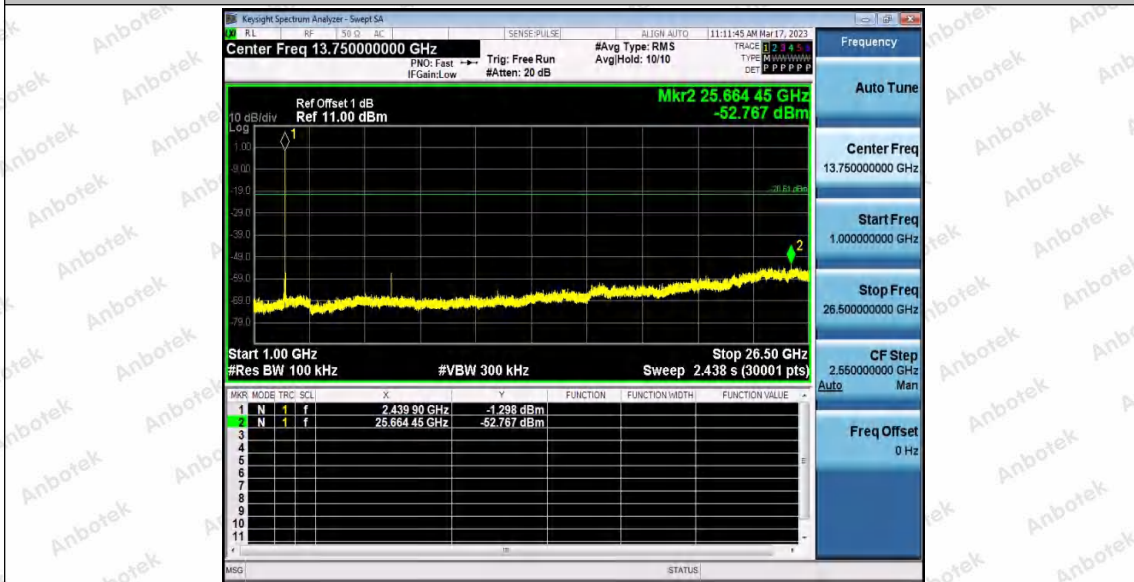
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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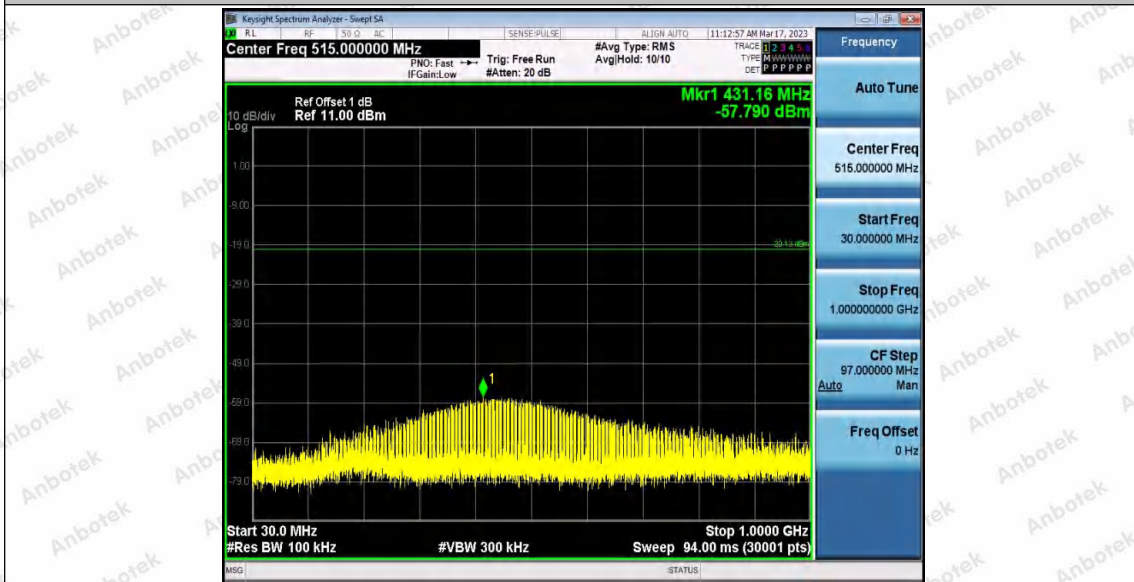
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BLE_1M_Ant1_2480_30~1000



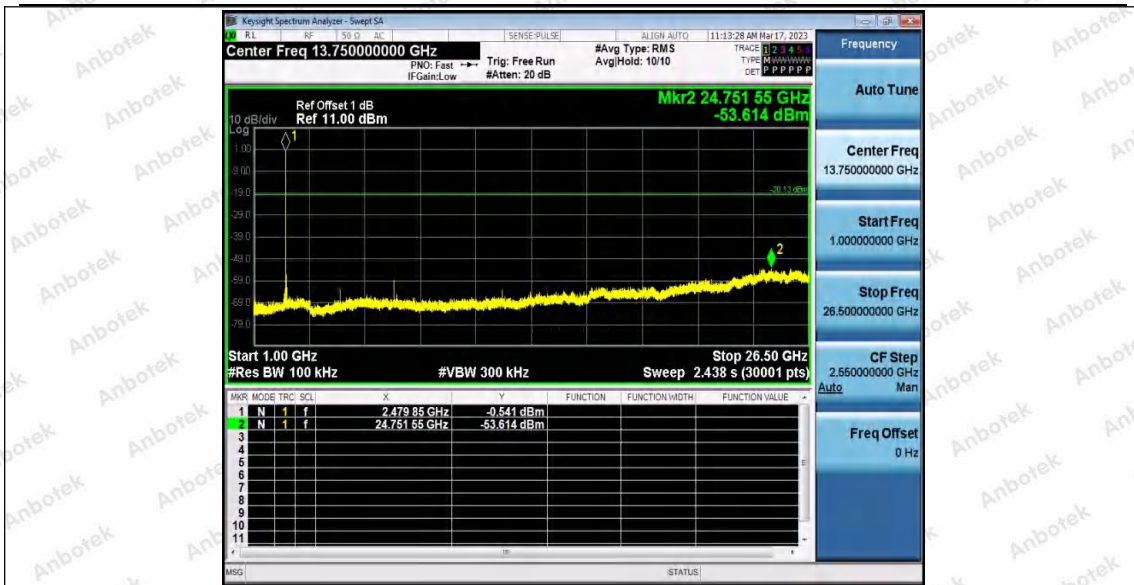
BLE_1M_Ant1_2480_1000~26500

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BLE_2M_Ant1_2402_0~Reference



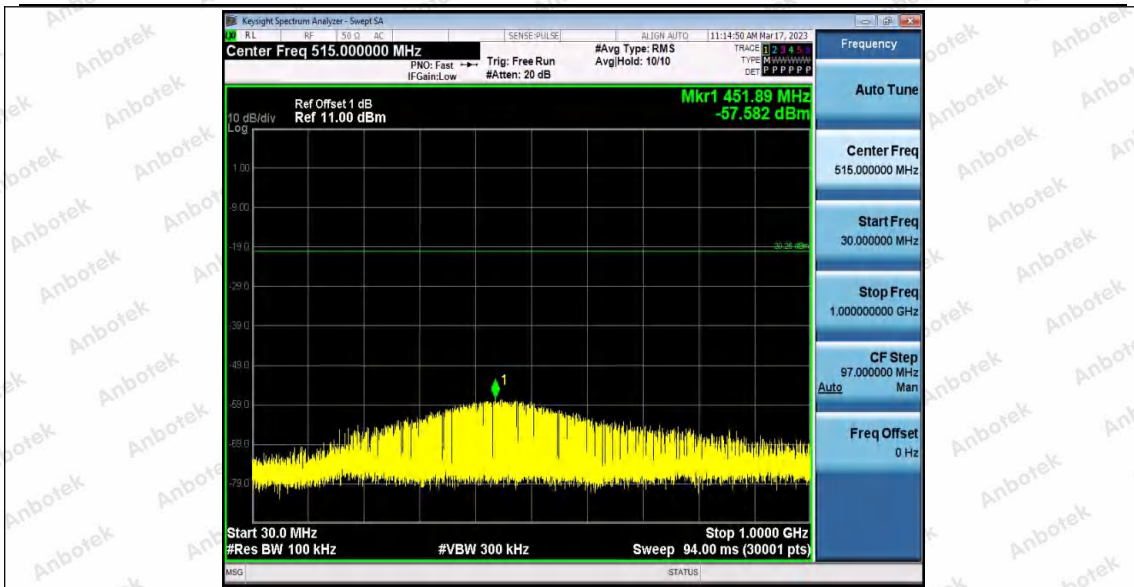
BLE_2M_Ant1_2402_30~1000

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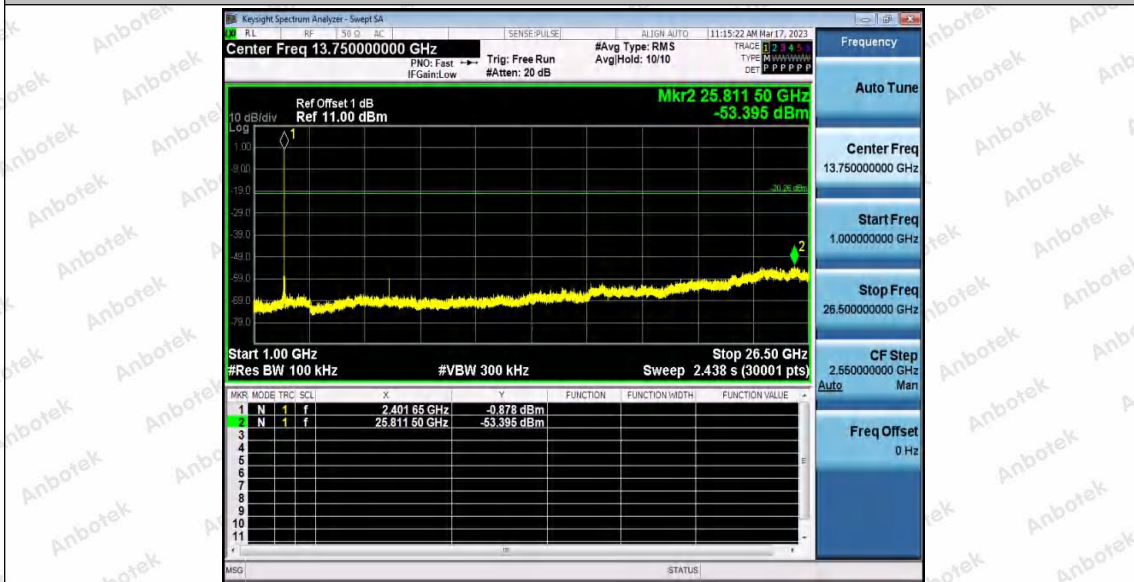
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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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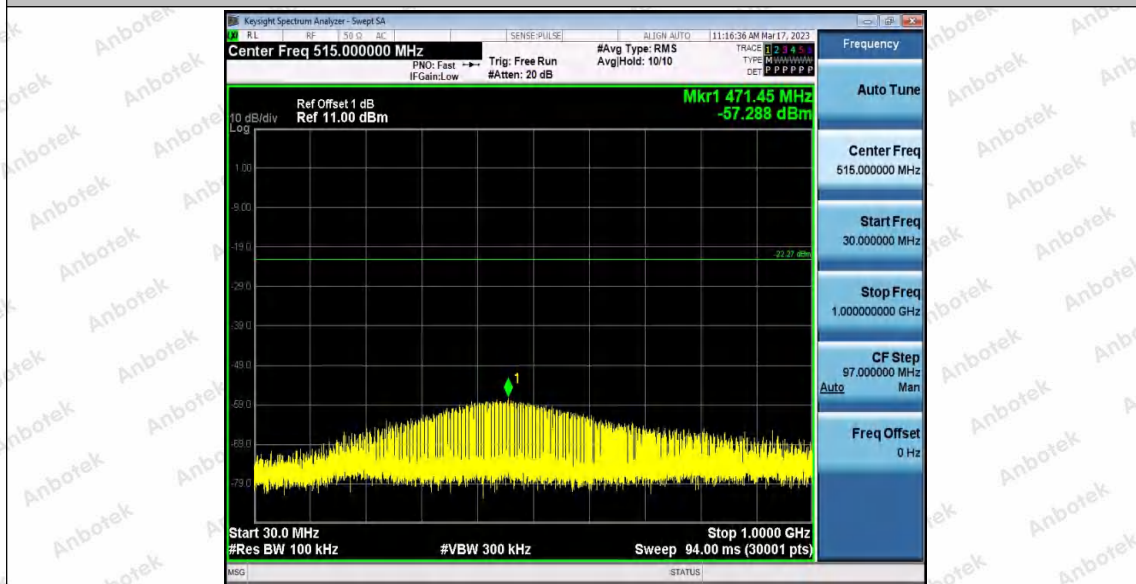
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

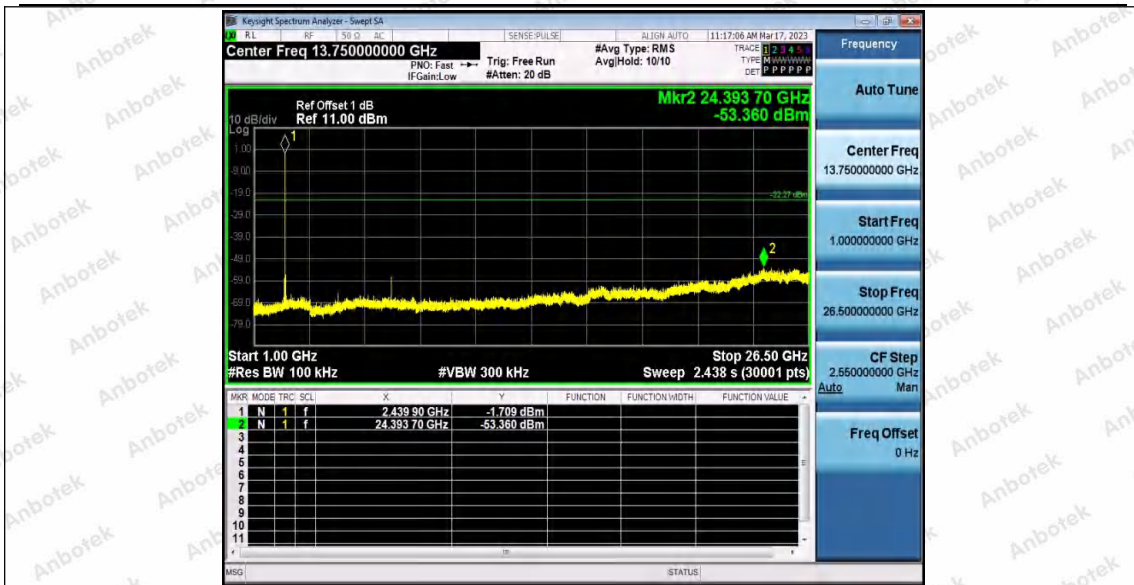
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~100

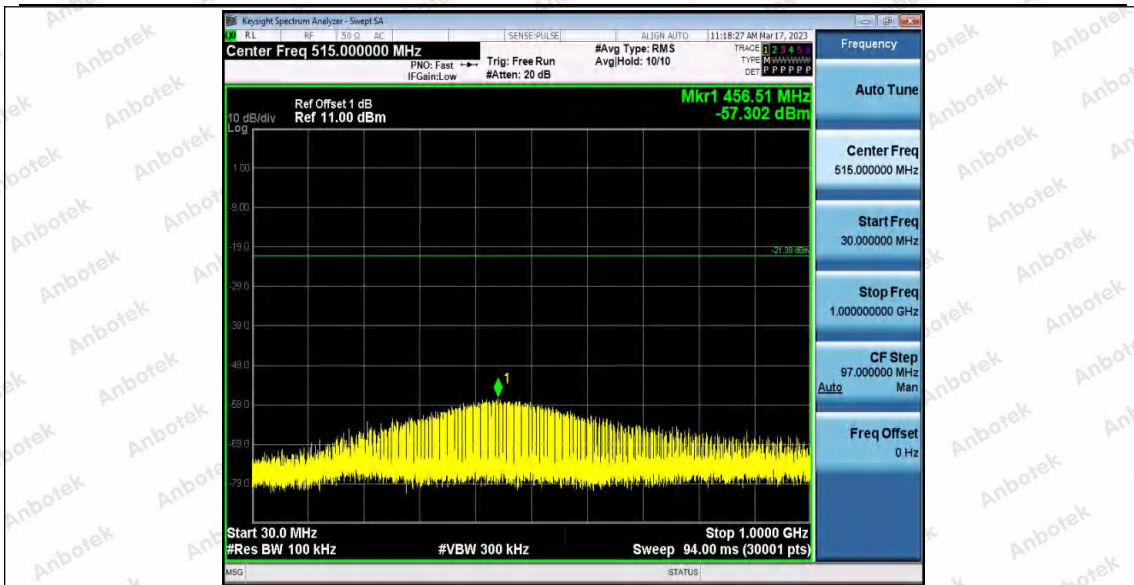
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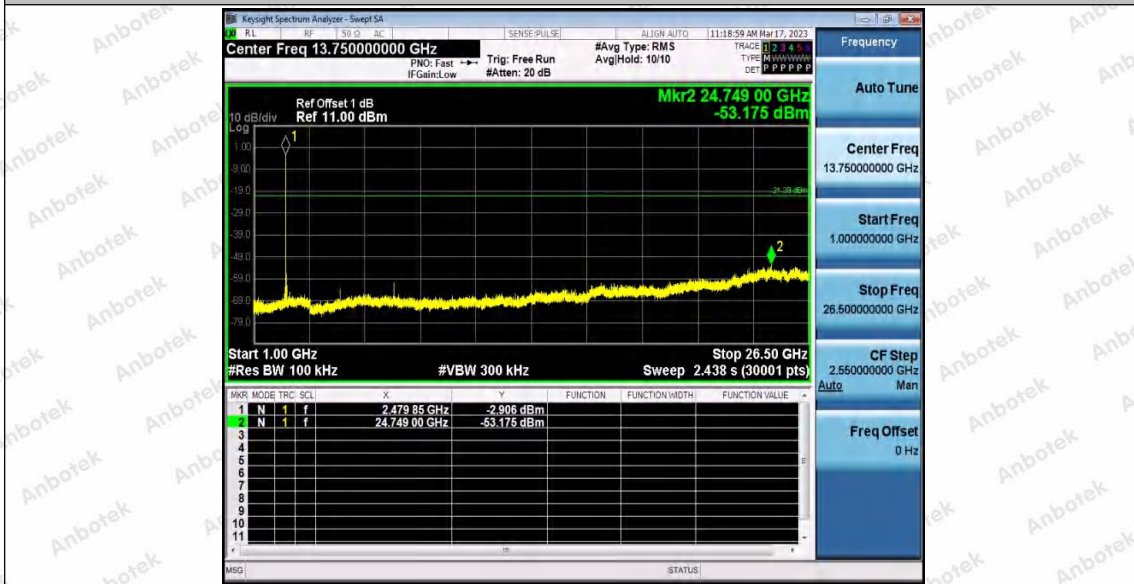


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BLE_2M_Ant1_2480_1000~26500



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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 | 0.39 | 0.63 | 61.90 | 2.08 |
| | | 2440 | 0.39 | 0.63 | 61.90 | 2.08 |
| | | 2480 | 0.39 | 0.63 | 61.90 | 2.08 |
| BLE_2M | Ant1 | 2402 | 0.21 | 0.63 | 33.33 | 4.77 |
| | | 2440 | 0.21 | 0.63 | 33.33 | 4.77 |
| | | 2480 | 0.21 | 0.63 | 33.33 | 4.77 |

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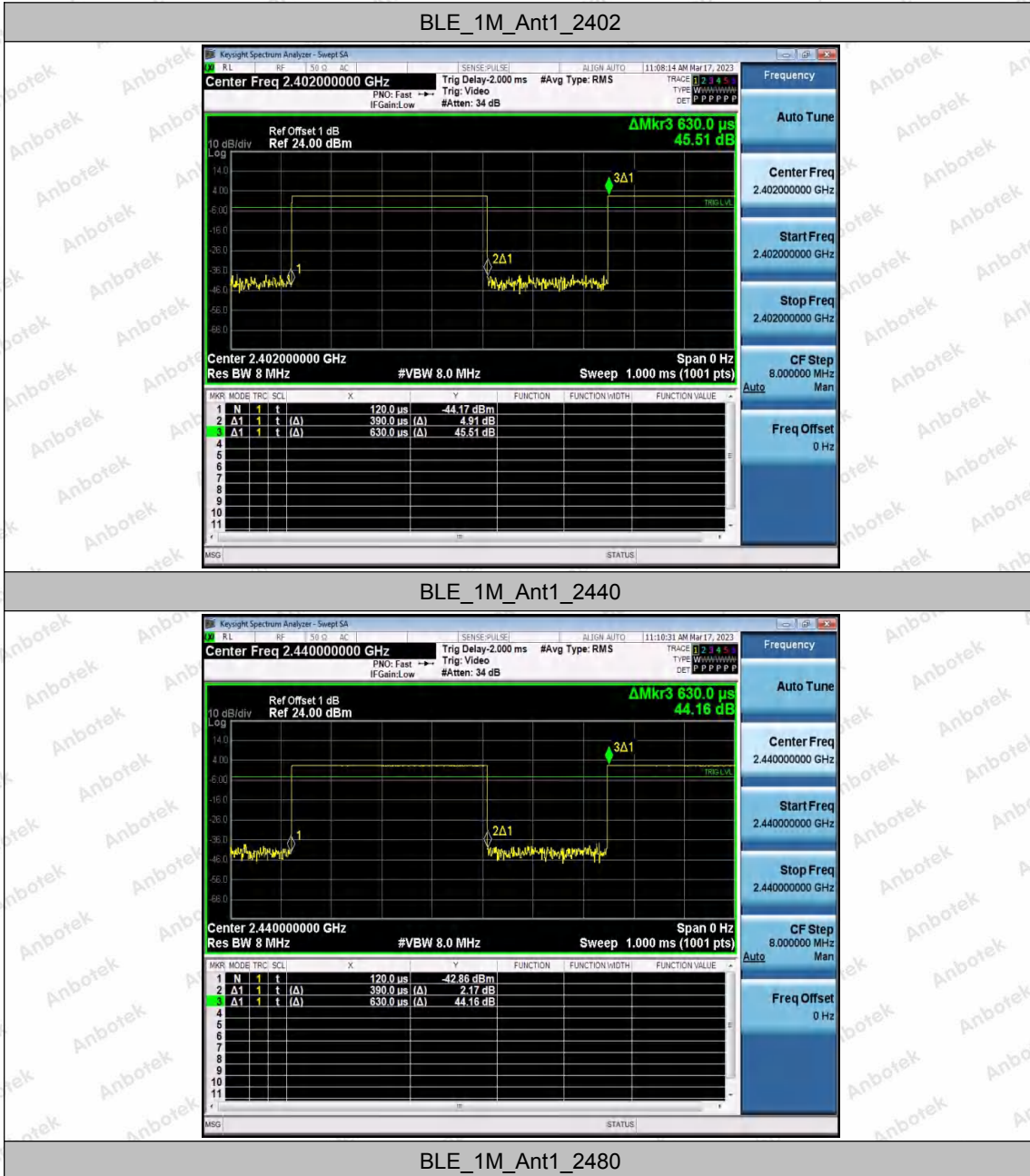
Hotline

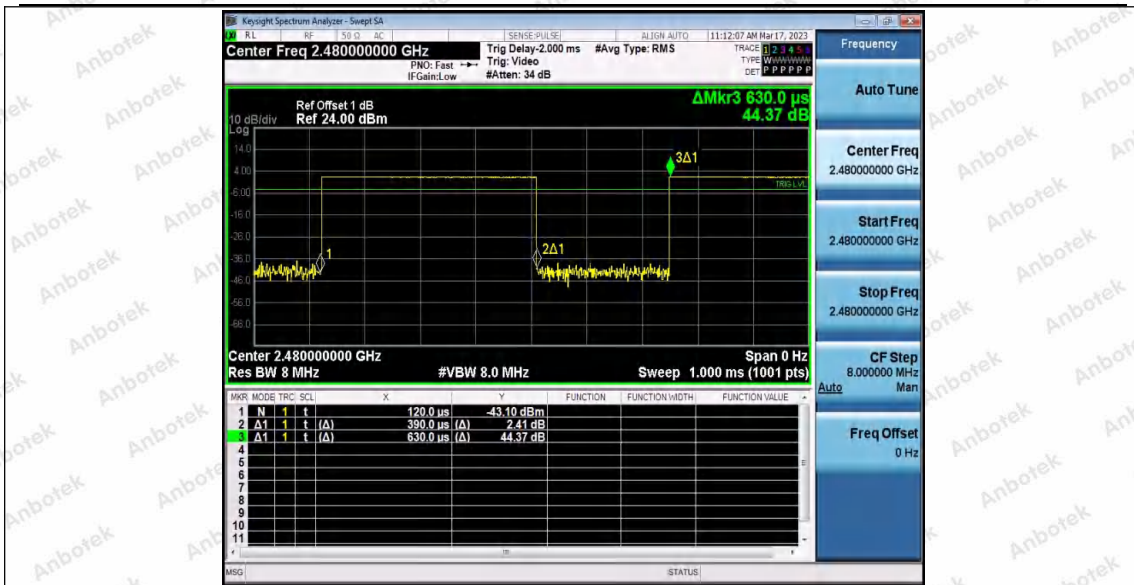
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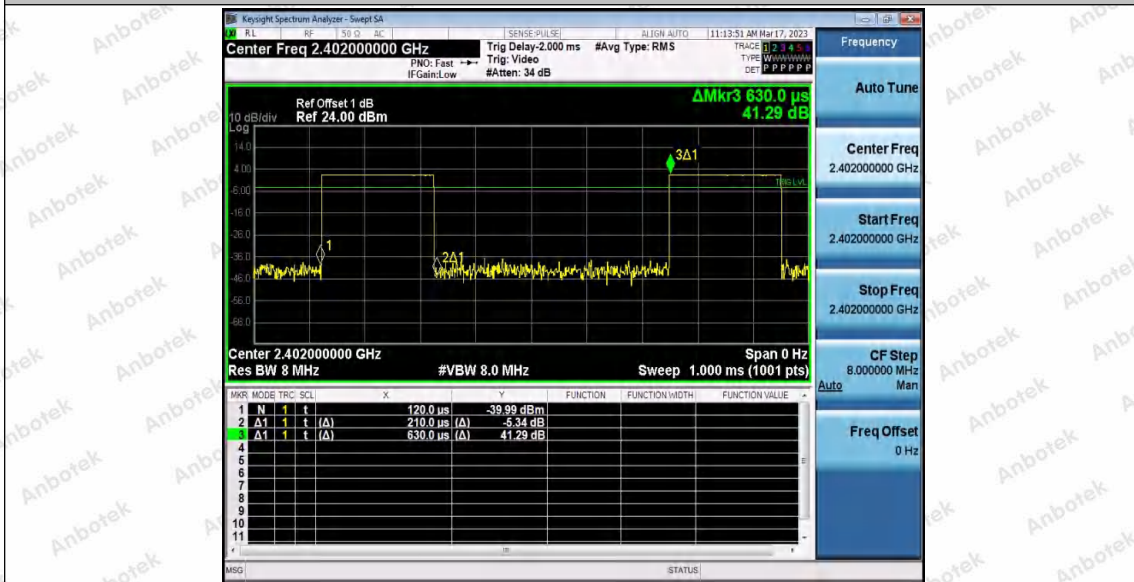


Test Graphs





BLE_2M_Ant1_2402



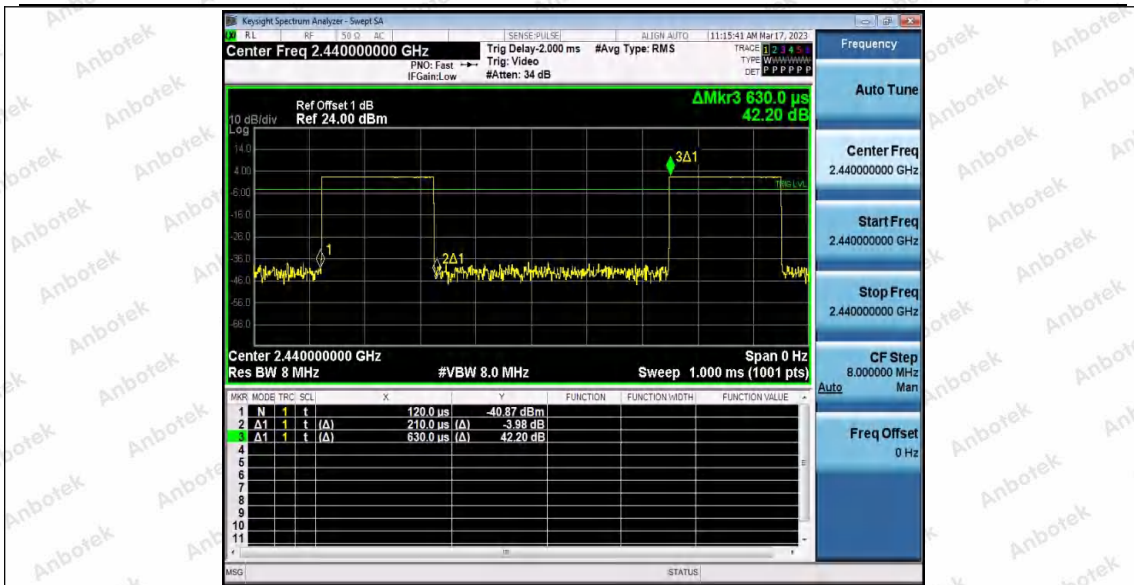
BLE_2M_Ant1_2440

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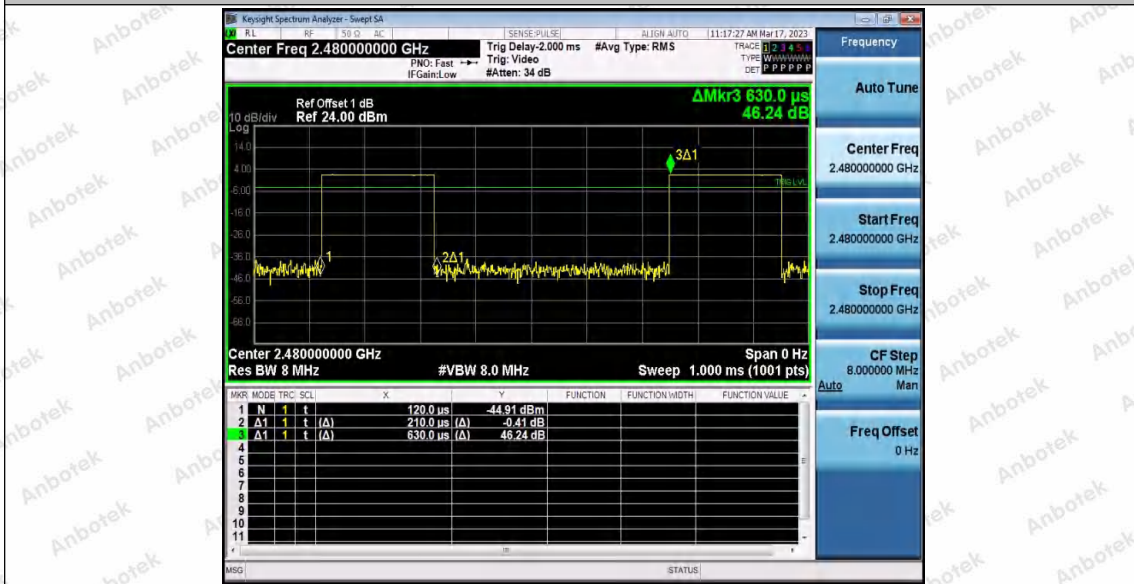
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BLE_2M_Ant1_2480



---End---

