

Appendix Test Data

|                  |                  |                    |             |
|------------------|------------------|--------------------|-------------|
| Report No.:      | 1819C40030812502 | Test Sample No.:   | 1-2-2       |
| Start Test Date: | 2024.9.6         | Finish Test Date:  | 2024.9.6    |
| Test Engineer:   | Joker Wang       | Auditor:           | Justin Feng |
| Temperature:     | 25.5℃            | Relative Humidity: | 47%         |
| Pressure:        | 101kPa           |                    |             |

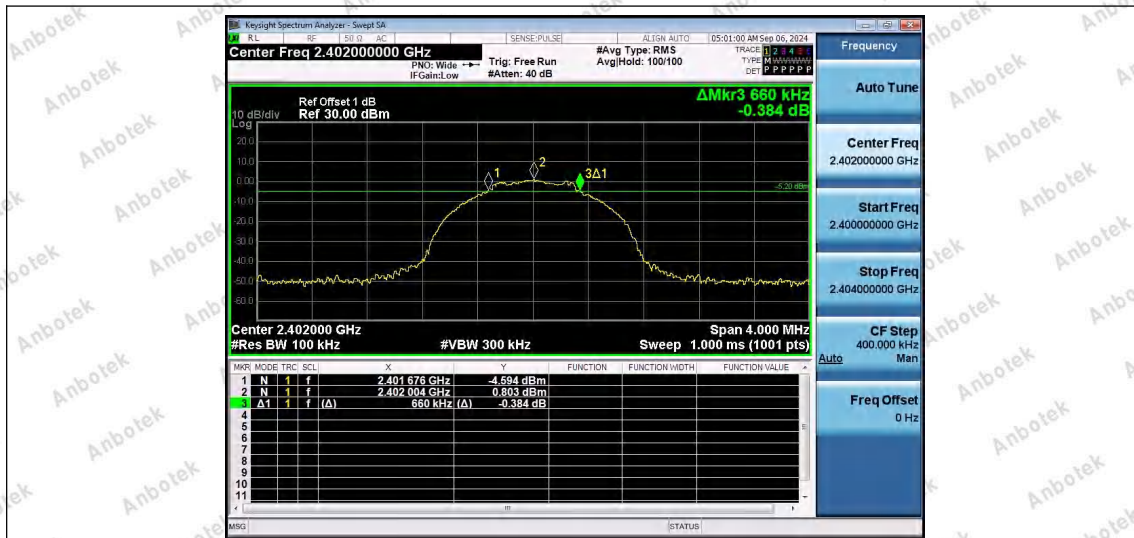
Appendix A: 6dB Bandwidth

Test Result

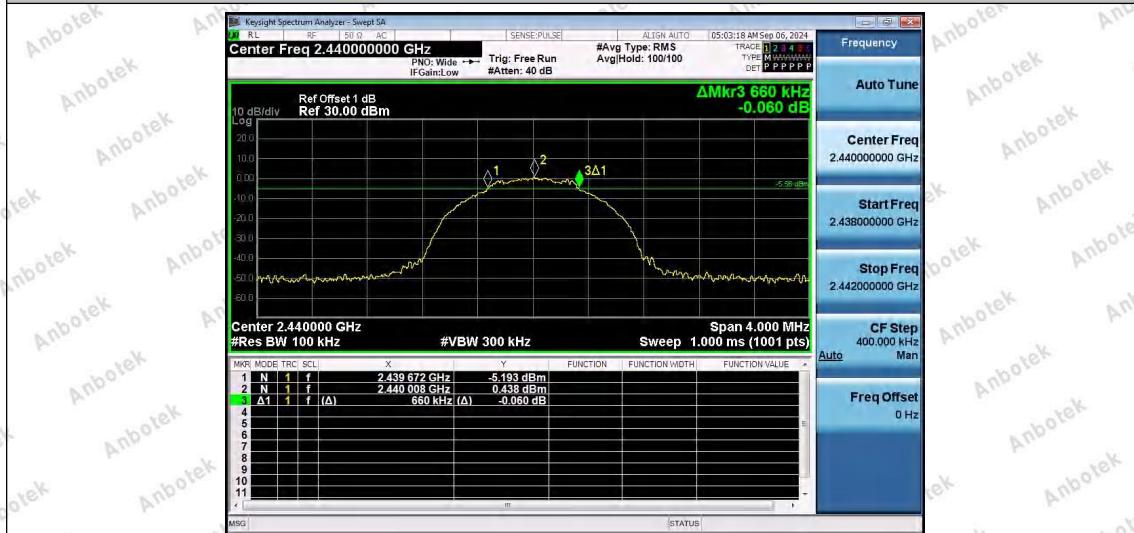
| TestMode | Antenna | Frequency[MHz] | 6dB BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 0.660        | 2401.676 | 2402.336 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2440           | 0.660        | 2439.672 | 2440.332 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2480           | 0.652        | 2479.684 | 2480.336 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2402           | 1.328        | 2401.332 | 2402.660 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2440           | 1.312        | 2439.356 | 2440.668 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2480           | 1.340        | 2479.332 | 2480.672 | 0.5        | PASS    |



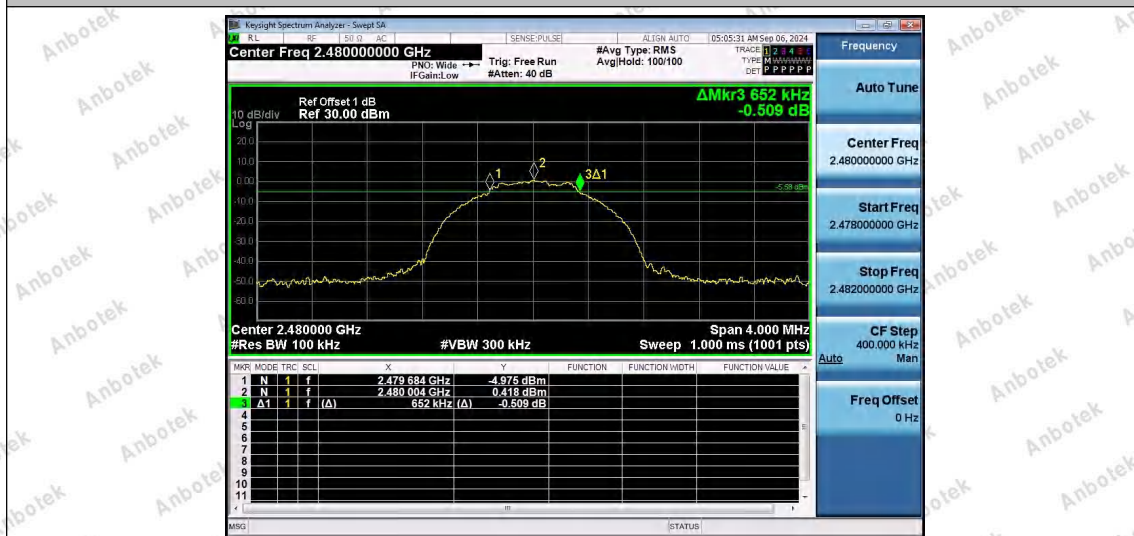
## Test Graphs



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS



BLE\_1M-Ant1-2480-PASS

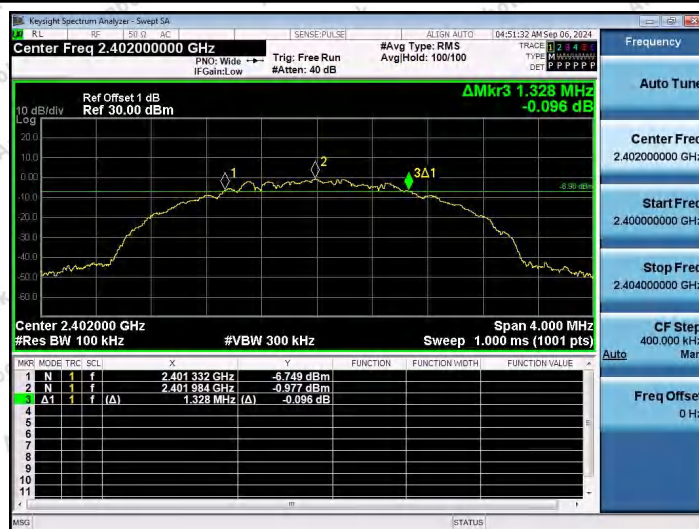
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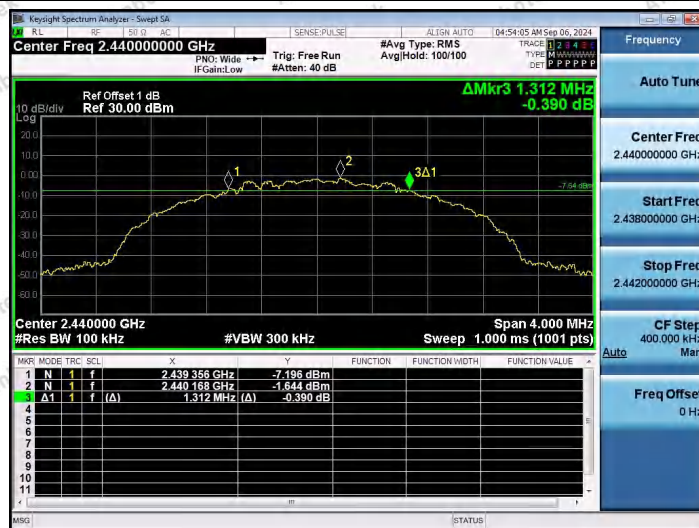


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BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS



BLE\_2M-Ant1-2480-PASS

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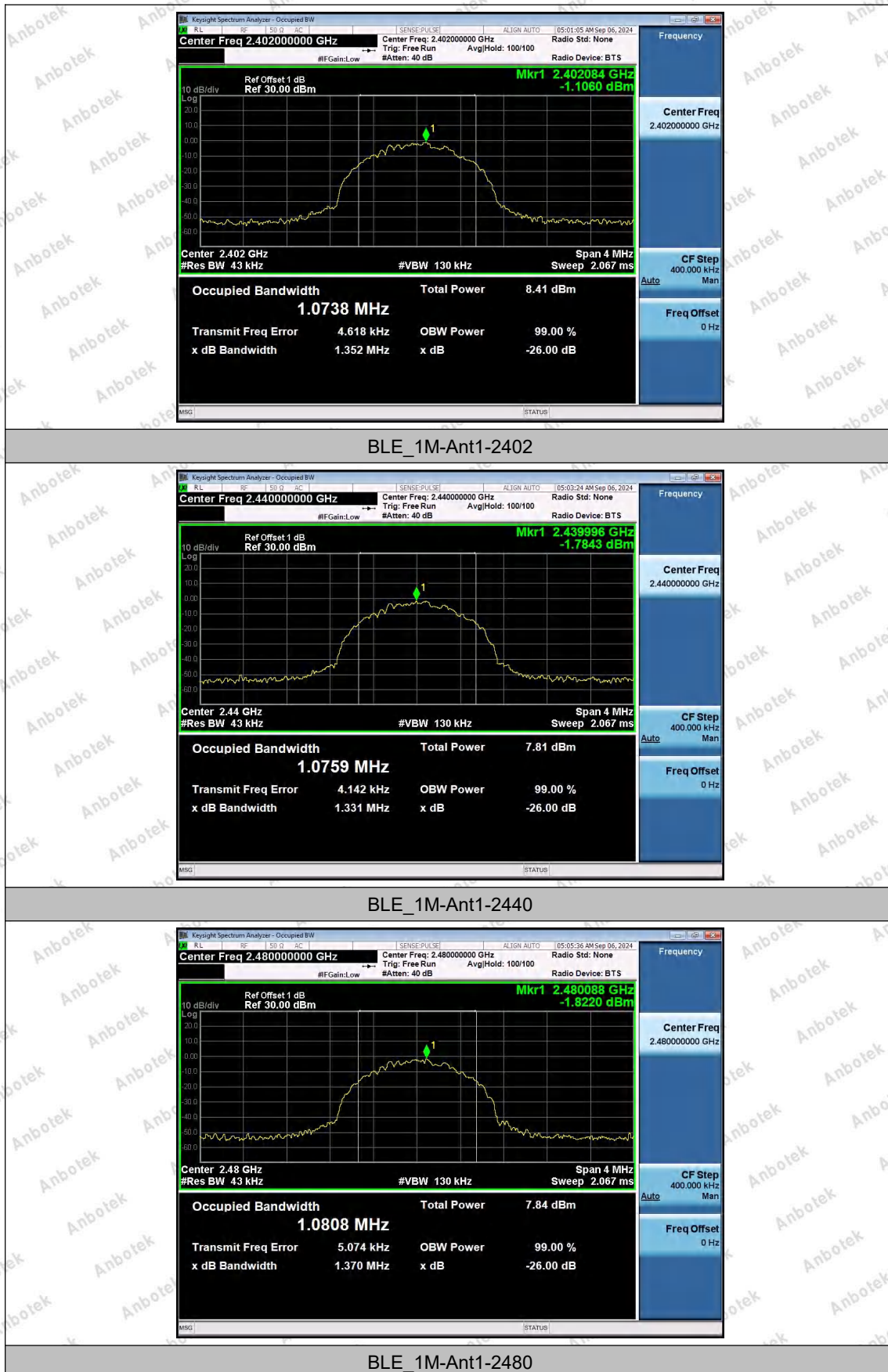
## Appendix B: 99% Occupied Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB<br>[MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|-----------|-----------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 1.0738       | 2401.4677 | 2402.5415 | ---        | ---     |
| BLE_1M   | Ant1    | 2440           | 1.0759       | 2439.4662 | 2440.5421 | ---        | ---     |
| BLE_1M   | Ant1    | 2480           | 1.0808       | 2479.4647 | 2480.5455 | ---        | ---     |
| BLE_2M   | Ant1    | 2402           | 2.1389       | 2400.9470 | 2403.0859 | ---        | ---     |
| BLE_2M   | Ant1    | 2440           | 2.1389       | 2438.9456 | 2441.0845 | ---        | ---     |
| BLE_2M   | Ant1    | 2480           | 2.1416       | 2478.9437 | 2481.0853 | ---        | ---     |



## Test Graphs



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BLE\_2M-Ant1-2402



BLE\_2M-Ant1-2440



BLE\_2M-Ant1-2480



## Appendix C: Maximum conducted output power

### Test Result Peak-Left Earphone

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M   | Ant1    | 2402           | 2.90                      | ≤30                  | PASS    |
| BLE_1M   | Ant1    | 2440           | 2.26                      | ≤30                  | PASS    |
| BLE_1M   | Ant1    | 2480           | 2.38                      | ≤30                  | PASS    |
| BLE_2M   | Ant1    | 2402           | 2.62                      | ≤30                  | PASS    |
| BLE_2M   | Ant1    | 2440           | 2.00                      | ≤30                  | PASS    |
| BLE_2M   | Ant1    | 2480           | 2.03                      | ≤30                  | PASS    |



## Test Graphs Peak-Left Earphone



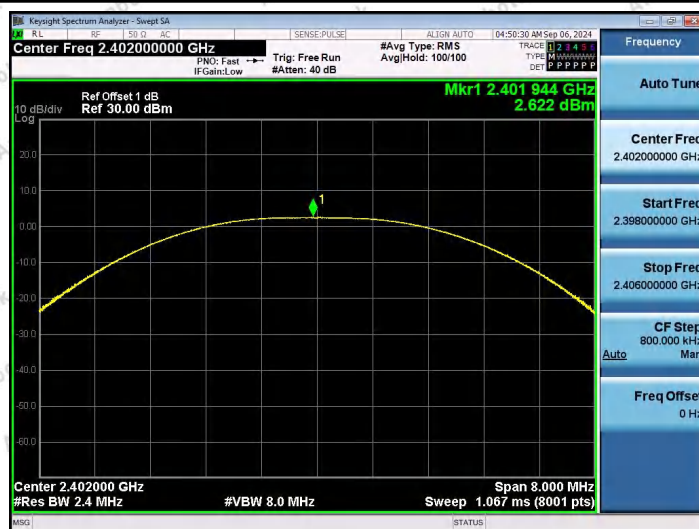
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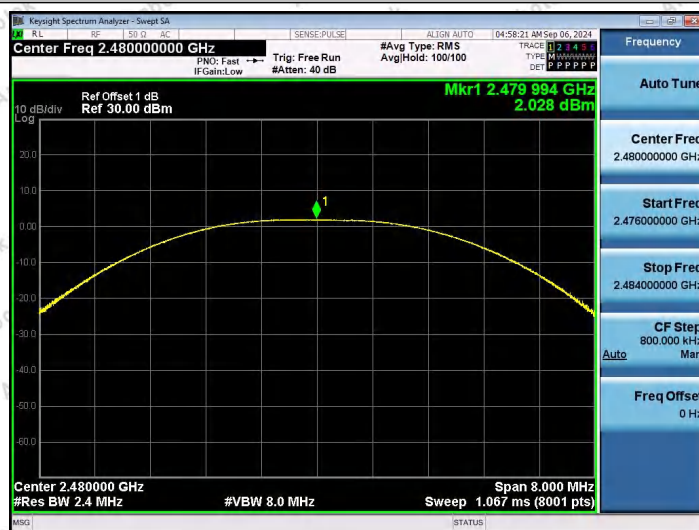




BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS



BLE\_2M-Ant1-2480-PASS

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**Test Result-Right Earphone**

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M   | Ant1    | 2402           | -1.60                     | ≤30                  | PASS    |
| BLE_1M   | Ant1    | 2440           | -3.12                     | ≤30                  | PASS    |
| BLE_1M   | Ant1    | 2480           | -6.32                     | ≤30                  | PASS    |
| BLE_2M   | Ant1    | 2402           | <b>-1.56</b>              | ≤30                  | PASS    |
| BLE_2M   | Ant1    | 2440           | -3.10                     | ≤30                  | PASS    |
| BLE_2M   | Ant1    | 2480           | -6.31                     | ≤30                  | PASS    |



## Test Graphs-Right Earphone

Peak\_Output\_Power\_NVNT\_ANT1\_1Mbps\_2402



Peak\_Output\_Power\_NVNT\_ANT1\_1Mbps\_2440



Peak\_Output\_Power\_NVNT\_ANT1\_1Mbps\_2480



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Peak\_Output\_Power\_NVNT\_ANT1\_2Mbps\_2402



Peak\_Output\_Power\_NVNT\_ANT1\_2Mbps\_2440



Peak\_Output\_Power\_NVNT\_ANT1\_2Mbps\_2480



## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -13.94           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -14.53           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -14.17           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2402           | -18.77           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2440           | -19.08           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2480           | -19.11           | ≤8.00           | PASS    |



## Test Graphs



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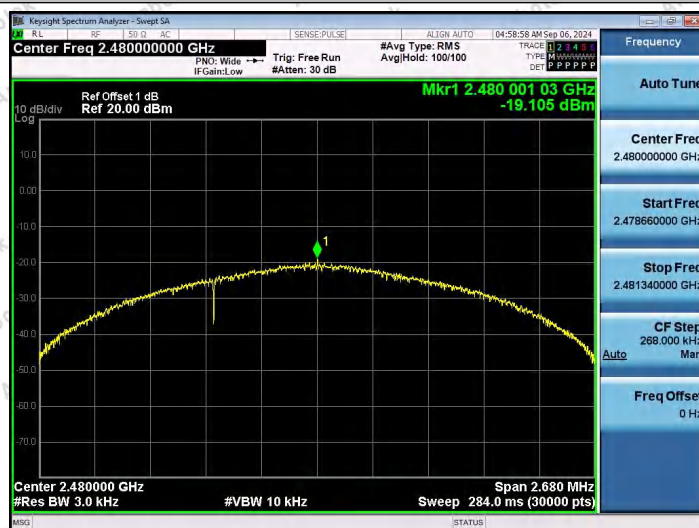




BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS



BLE\_2M-Ant1-2480-PASS



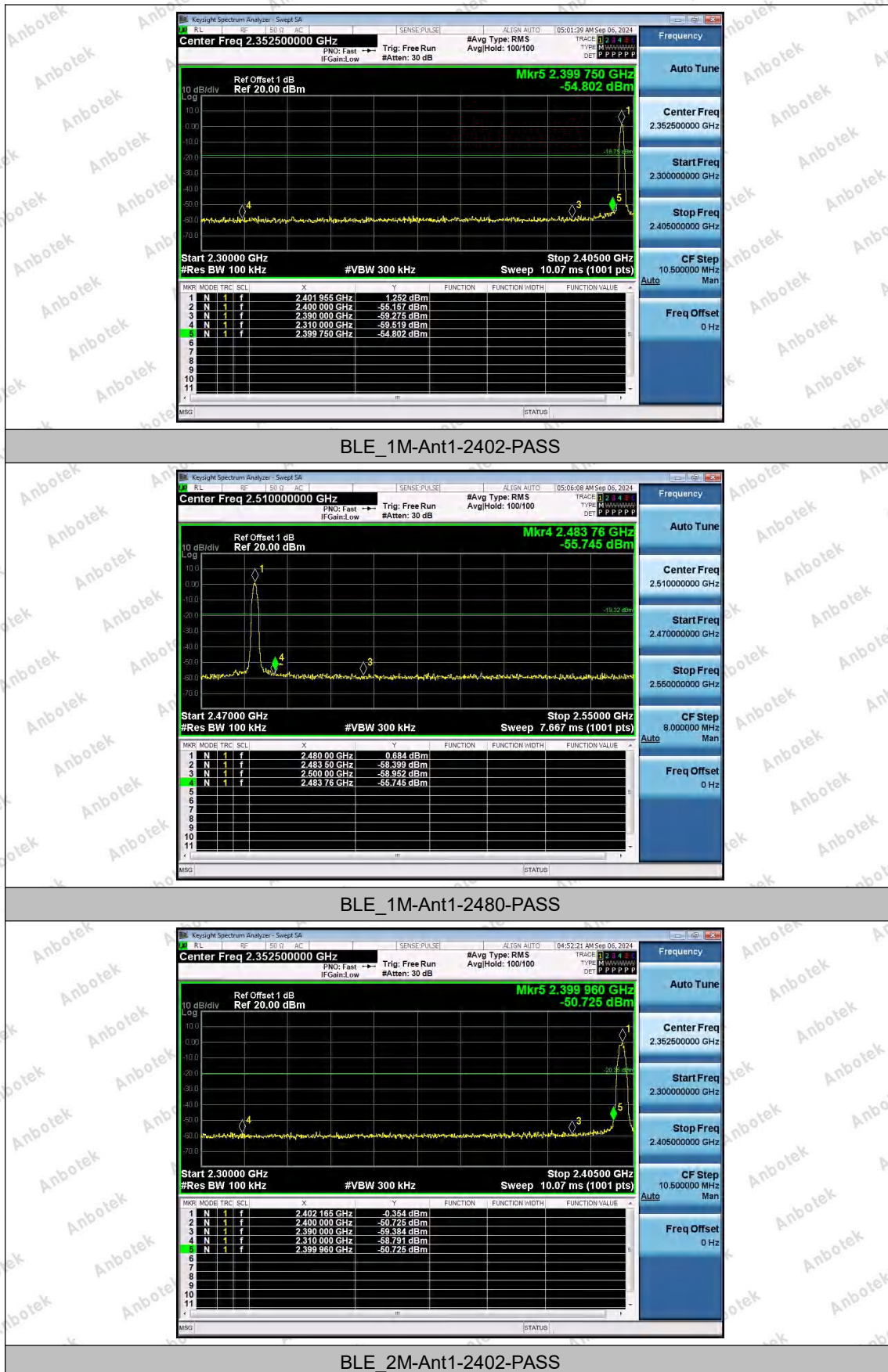
## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Frequency<br>[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|--------------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402               | 1.25          | -54.8       | ≤-18.75    | PASS    |
| BLE_1M   | Ant1    | High   | 2480               | 0.68          | -55.75      | ≤-19.32    | PASS    |
| BLE_2M   | Ant1    | Low    | 2402               | -0.35         | -50.73      | ≤-20.35    | PASS    |
| BLE_2M   | Ant1    | High   | 2480               | -0.97         | -55.96      | ≤-20.97    | PASS    |



## Test Graphs



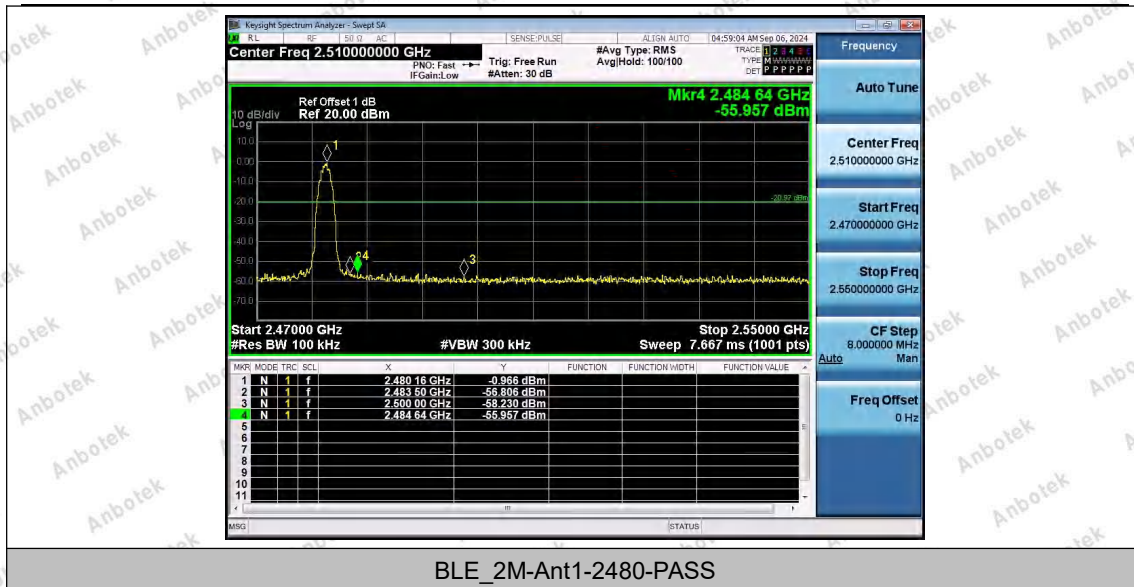
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BLE\_2M-Ant1-2480-PASS



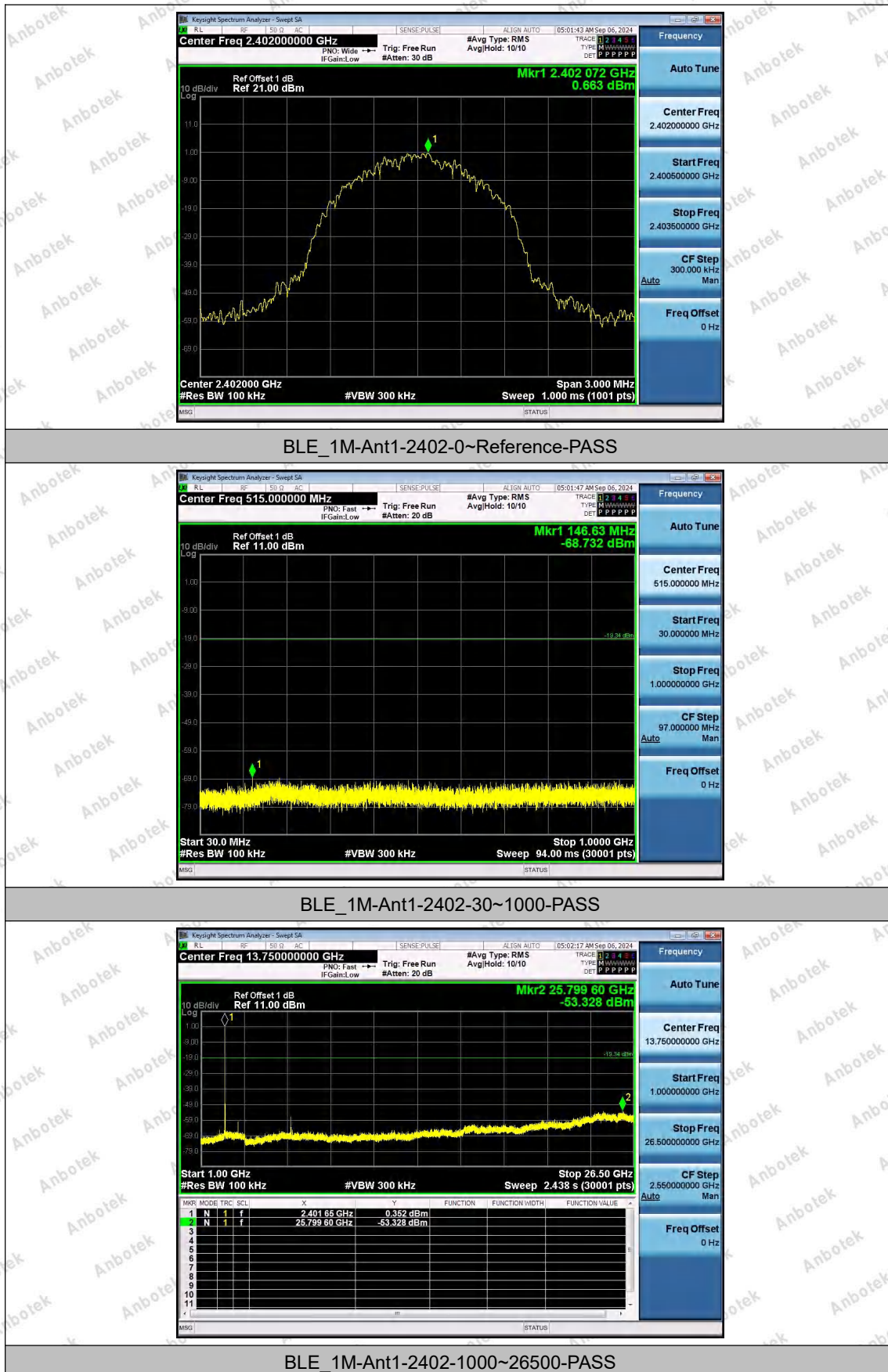
## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Frequency<br>[MHz] | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------------------|--------------------|-------------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402               | 0~Reference        | 0.66              | 0.66        | ---        | PASS    |
| BLE_1M   | Ant1    | 2402               | 30~1000            | 0.66              | -68.73      | ≤-19.34    | PASS    |
| BLE_1M   | Ant1    | 2402               | 1000~26500         | 0.66              | -53.33      | ≤-19.34    | PASS    |
| BLE_1M   | Ant1    | 2440               | 0~Reference        | -0.17             | -0.17       | ---        | PASS    |
| BLE_1M   | Ant1    | 2440               | 30~1000            | -0.17             | -68.2       | ≤-20.17    | PASS    |
| BLE_1M   | Ant1    | 2440               | 1000~26500         | -0.17             | -54.1       | ≤-20.17    | PASS    |
| BLE_1M   | Ant1    | 2480               | 0~Reference        | -0.19             | -0.19       | ---        | PASS    |
| BLE_1M   | Ant1    | 2480               | 30~1000            | -0.19             | -68.23      | ≤-20.19    | PASS    |
| BLE_1M   | Ant1    | 2480               | 1000~26500         | -0.19             | -53.12      | ≤-20.19    | PASS    |
| BLE_2M   | Ant1    | 2402               | 0~Reference        | -1.05             | -1.05       | ---        | PASS    |
| BLE_2M   | Ant1    | 2402               | 30~1000            | -1.05             | -68.47      | ≤-21.05    | PASS    |
| BLE_2M   | Ant1    | 2402               | 1000~26500         | -1.05             | -53.21      | ≤-21.05    | PASS    |
| BLE_2M   | Ant1    | 2440               | 0~Reference        | -1.76             | -1.76       | ---        | PASS    |
| BLE_2M   | Ant1    | 2440               | 30~1000            | -1.76             | -68.2       | ≤-21.76    | PASS    |
| BLE_2M   | Ant1    | 2440               | 1000~26500         | -1.76             | -53.66      | ≤-21.76    | PASS    |
| BLE_2M   | Ant1    | 2480               | 0~Reference        | -2.62             | -2.62       | ---        | PASS    |
| BLE_2M   | Ant1    | 2480               | 30~1000            | -2.62             | -68.79      | ≤-22.62    | PASS    |
| BLE_2M   | Ant1    | 2480               | 1000~26500         | -2.62             | -50.34      | ≤-22.62    | PASS    |



## Test Graphs



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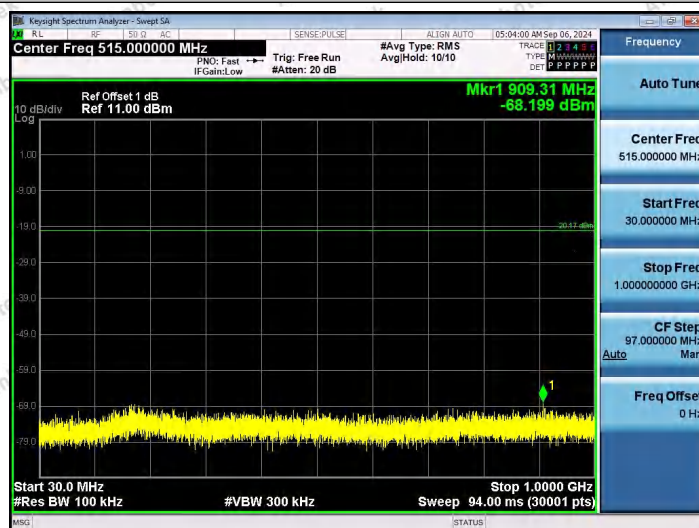


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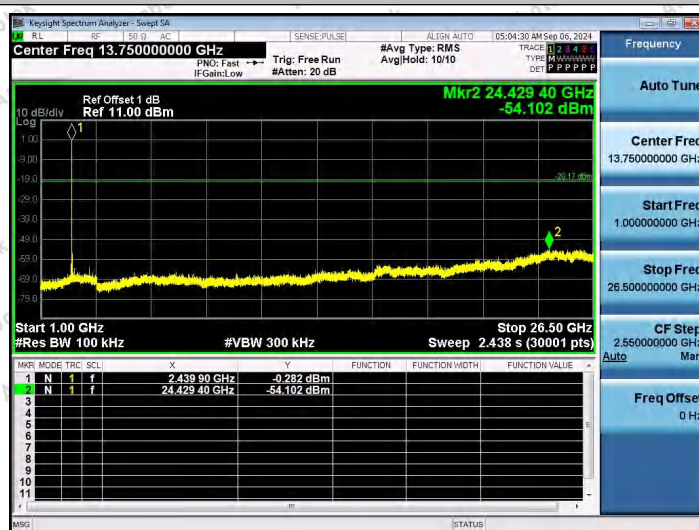




BLE\_1M-Ant1-2440-0~Reference-PASS



BLE\_1M-Ant1-2440-30~1000-PASS

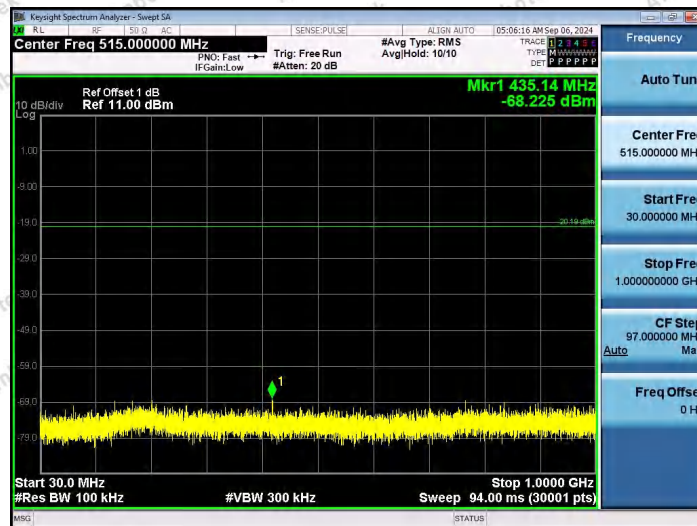


BLE\_1M-Ant1-2440-1000~26500-PASS

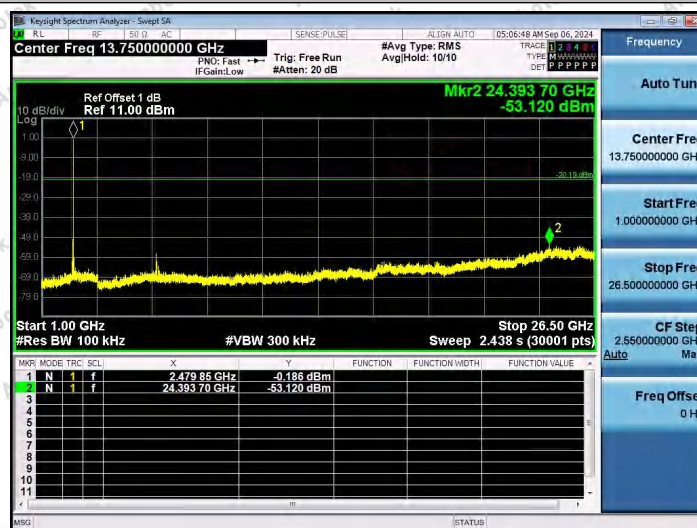




BLE\_1M-Ant1-2480-0~Reference-PASS



BLE\_1M-Ant1-2480-30~1000-PASS



BLE\_1M-Ant1-2480-1000~26500-PASS

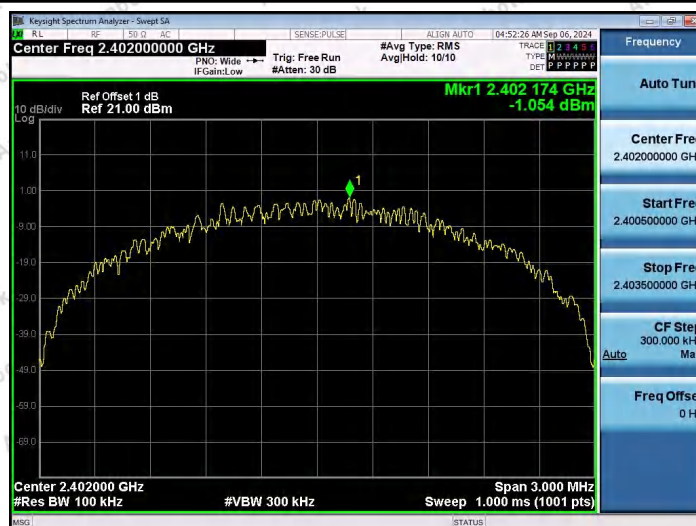
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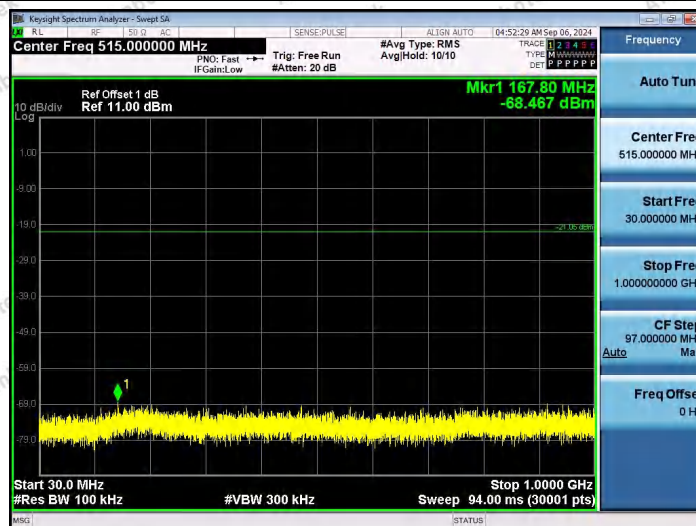


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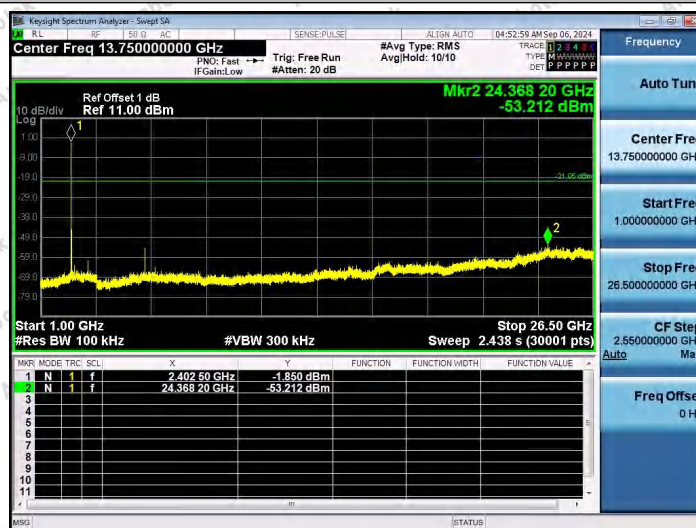




BLE\_2M-Ant1-2402-0~Reference-PASS



BLE\_2M-Ant1-2402-30~1000-PASS

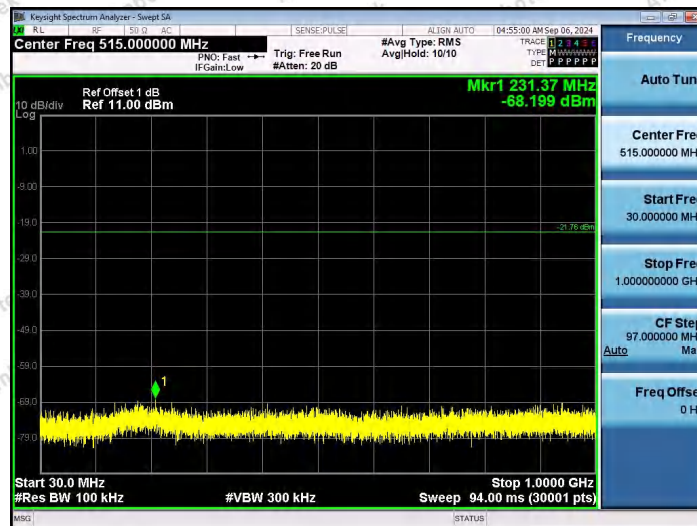


BLE\_2M-Ant1-2402-1000~26500-PASS

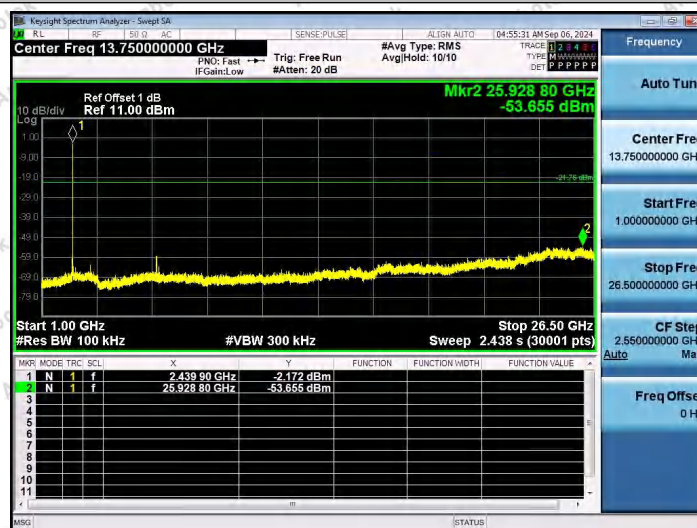




BLE\_2M-Ant1-2440-0~Reference-PASS



BLE\_2M-Ant1-2440-30~1000-PASS



BLE\_2M-Ant1-2440-1000~26500-PASS

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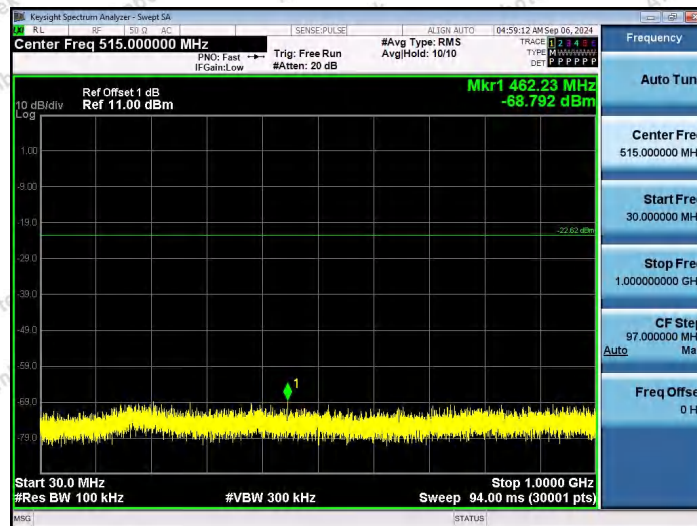


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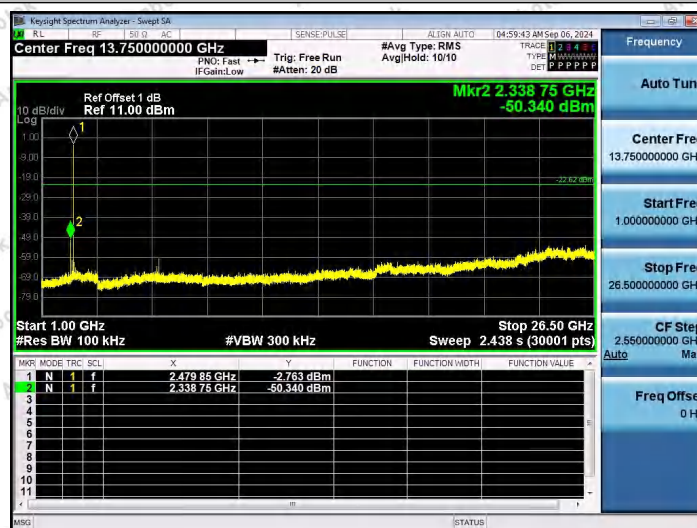




BLE\_2M-Ant1-2480-0~Reference-PASS



BLE\_2M-Ant1-2480-30~1000-PASS



BLE\_2M-Ant1-2480-1000~26500-PASS



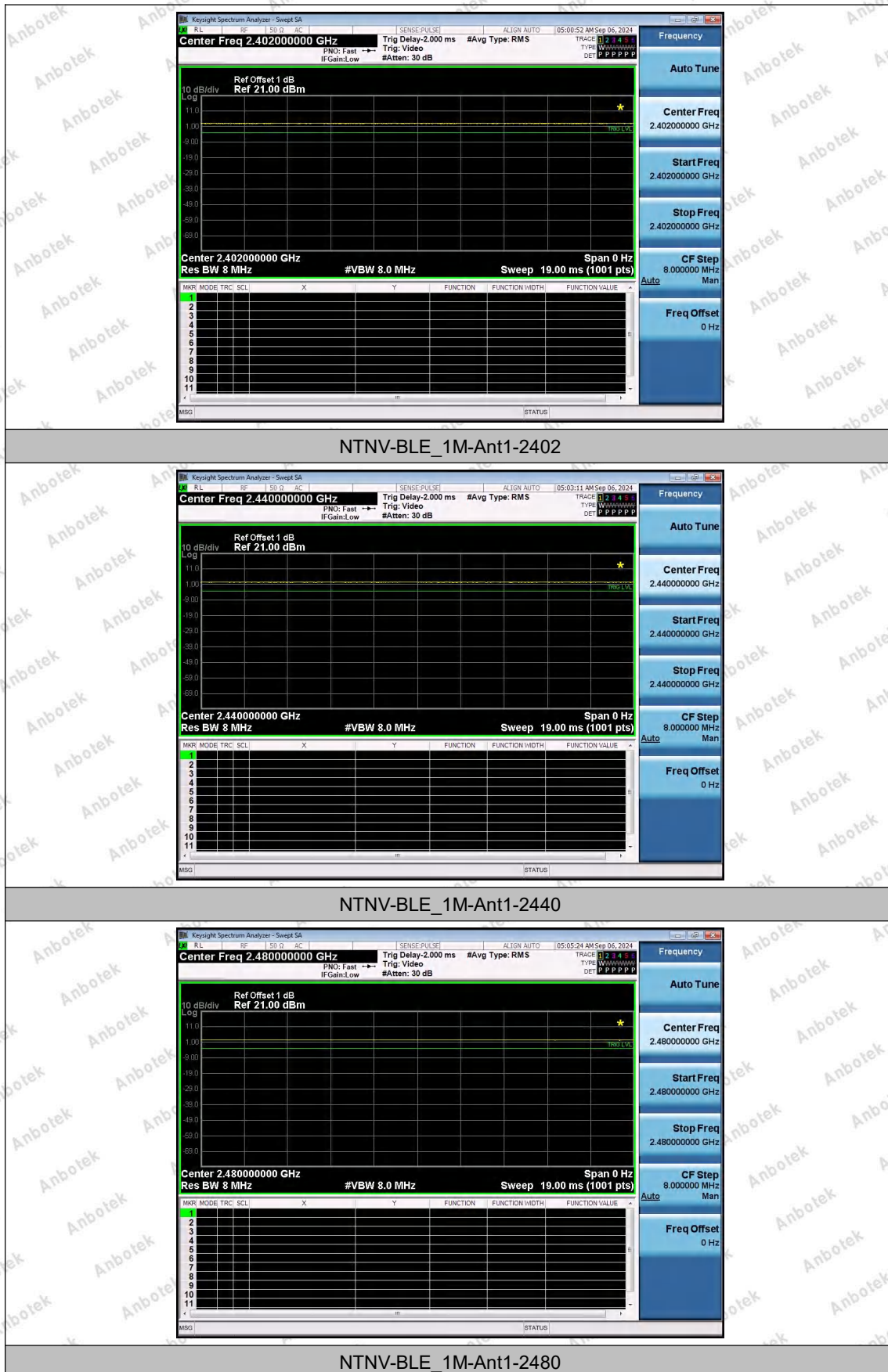
## Appendix G: Duty Cycle

### Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>Factor[dB] |
|----------|---------|----------------|-----------------|----------------|-------------------|--------------------------|
| BLE_1M   | Ant1    | 2402           | 19.00           | 19.00          | 100.00            | 0.00                     |
| BLE_1M   | Ant1    | 2440           | 19.00           | 19.00          | 100.00            | 0.00                     |
| BLE_1M   | Ant1    | 2480           | 19.00           | 19.00          | 100.00            | 0.00                     |
| BLE_2M   | Ant1    | 2402           | 19.00           | 19.00          | 100.00            | 0.00                     |
| BLE_2M   | Ant1    | 2440           | 19.00           | 19.00          | 100.00            | 0.00                     |
| BLE_2M   | Ant1    | 2480           | 19.00           | 19.00          | 100.00            | 0.00                     |



## Test Graphs



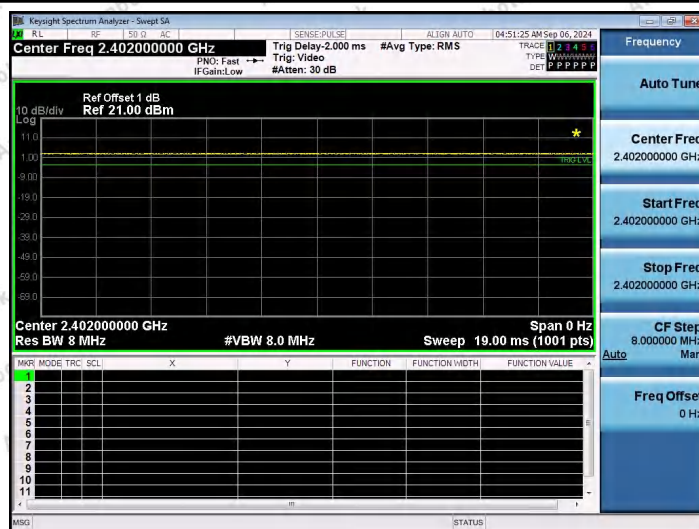
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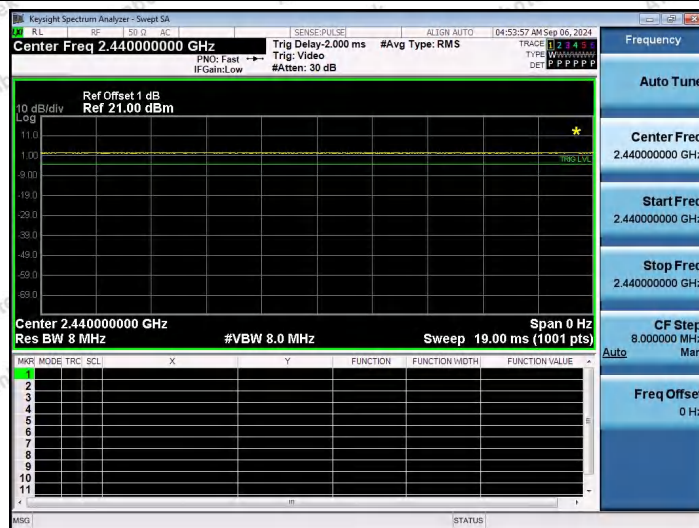


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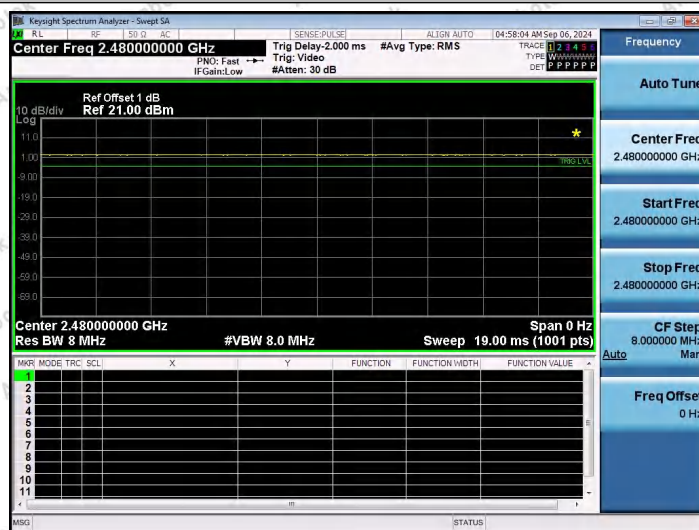




NTNV-BLE\_2M-Ant1-2402



NTNV-BLE\_2M-Ant1-2440



NTNV-BLE\_2M-Ant1-2480

---END---

