

Appendix Test Data

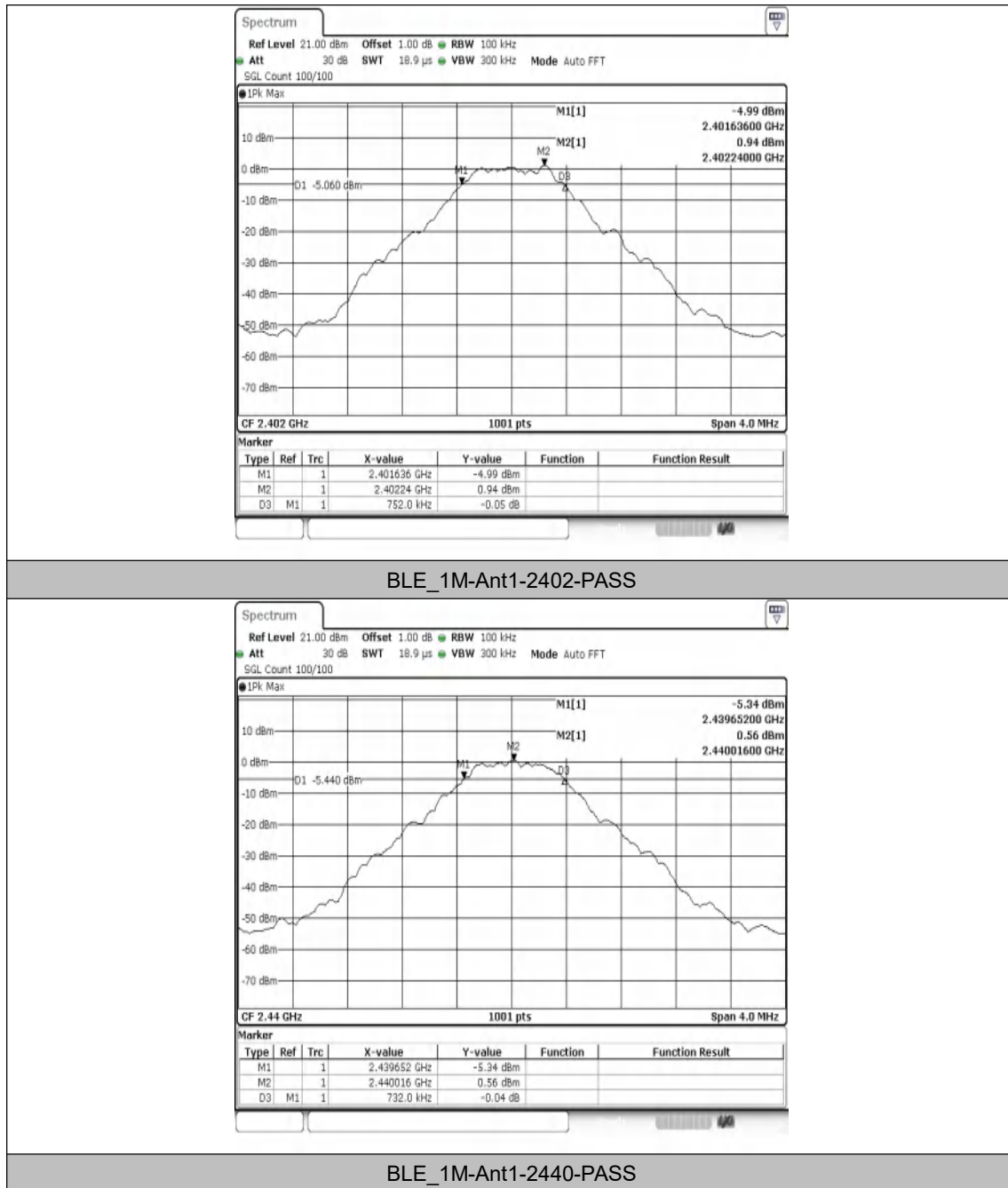
| | | | |
|------------------|------------------|--------------------|-------------|
| Report No.: | 1812C50322812502 | Test Sample No.: | 1-2-2 |
| Start Test Date: | 2025-6-30 | Finish Test Date: | 2025-7-8 |
| Test Engineer: | Hansen Guan | Auditor: | Justin Feng |
| Temperature: | 27.0°C | Relative Humidity: | 47% |
| Pressure: | 101kPa | | |

Appendix A: 6dB Bandwidth

Test Result

| Test Mode | Antenna | Frequency[MHz] | 6dB BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|---------|---------|------------|---------|
| BLE_1M | Ant1 | 2402 | 0.75 | 2401.64 | 2402.39 | 0.5 | PASS |
| BLE_1M | Ant1 | 2440 | 0.73 | 2439.65 | 2440.38 | 0.5 | PASS |
| BLE_1M | Ant1 | 2480 | 0.72 | 2479.65 | 2480.37 | 0.5 | PASS |
| BLE_2M | Ant1 | 2402 | 1.25 | 2401.34 | 2402.58 | 0.5 | PASS |
| BLE_2M | Ant1 | 2440 | 1.29 | 2439.31 | 2440.60 | 0.5 | PASS |
| BLE_2M | Ant1 | 2480 | 1.26 | 2479.43 | 2480.69 | 0.5 | PASS |

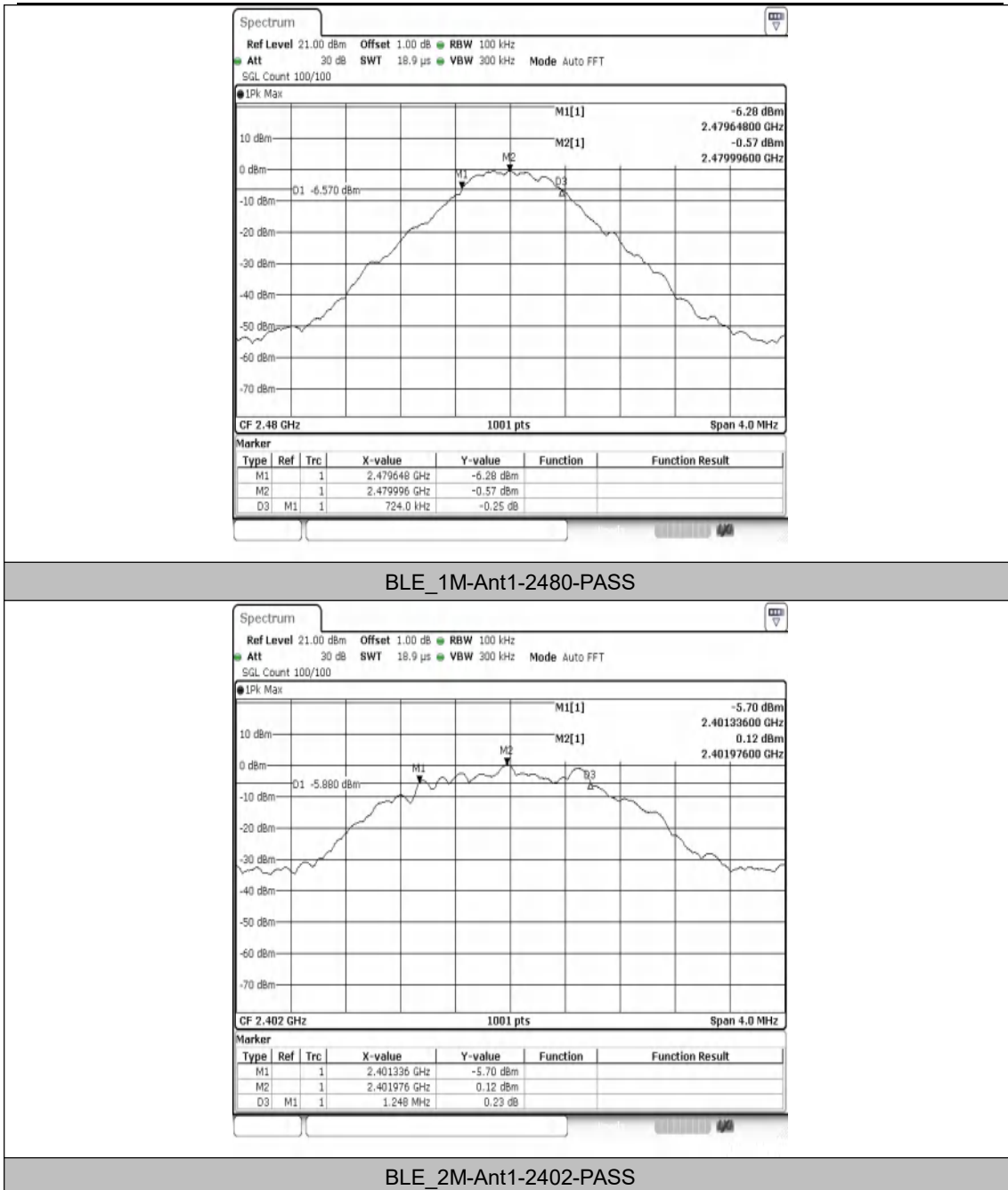
Test Graphs

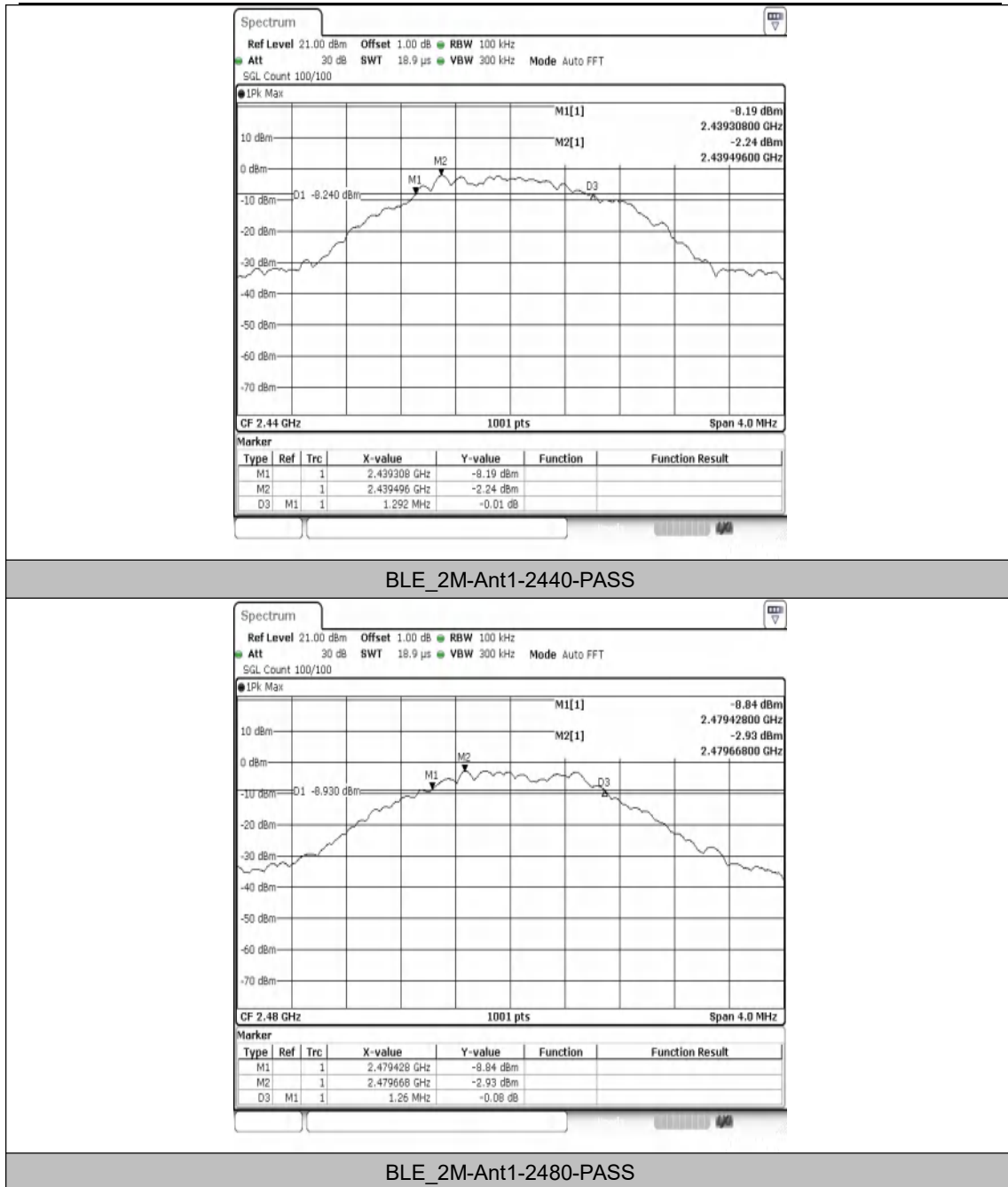


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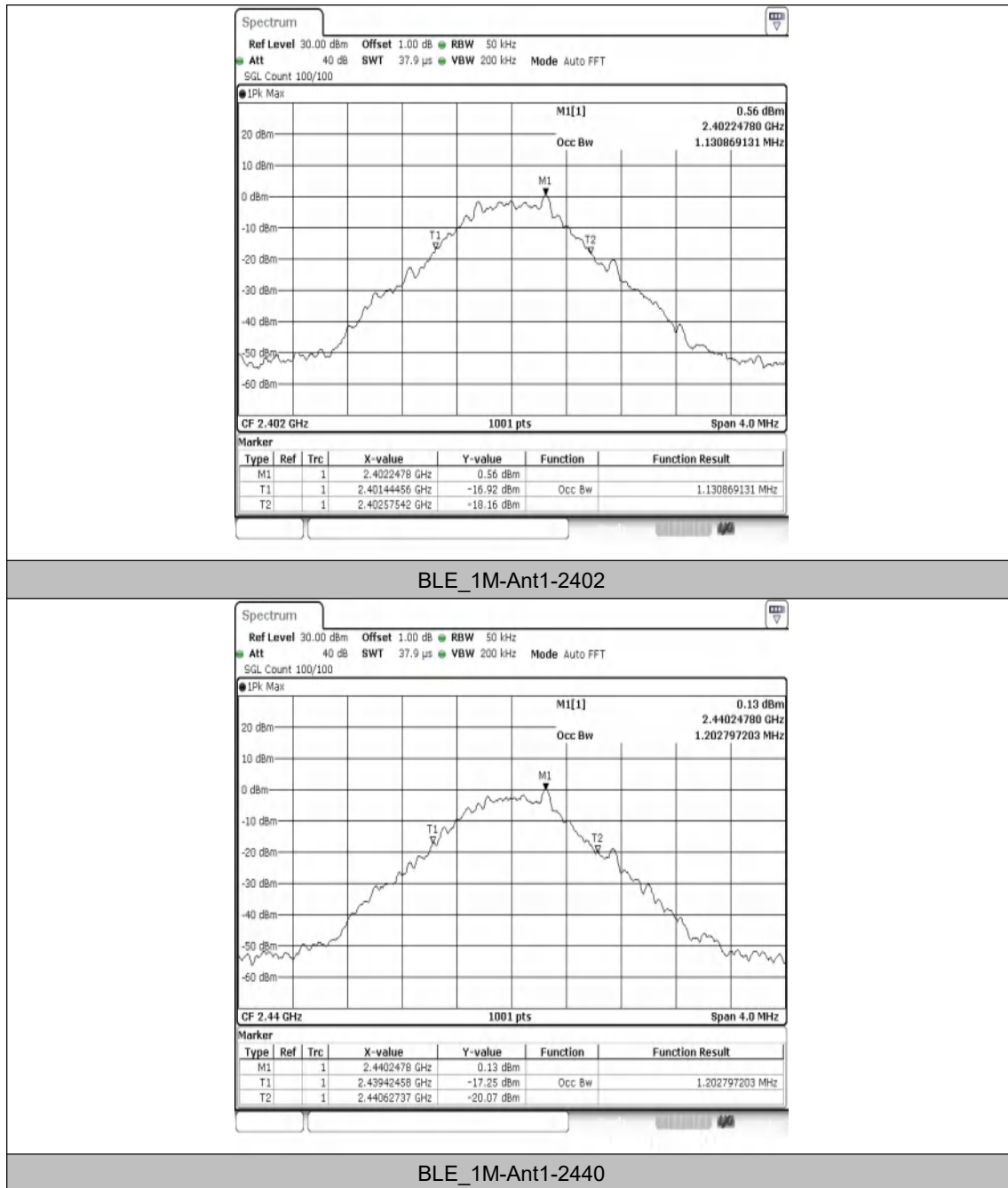


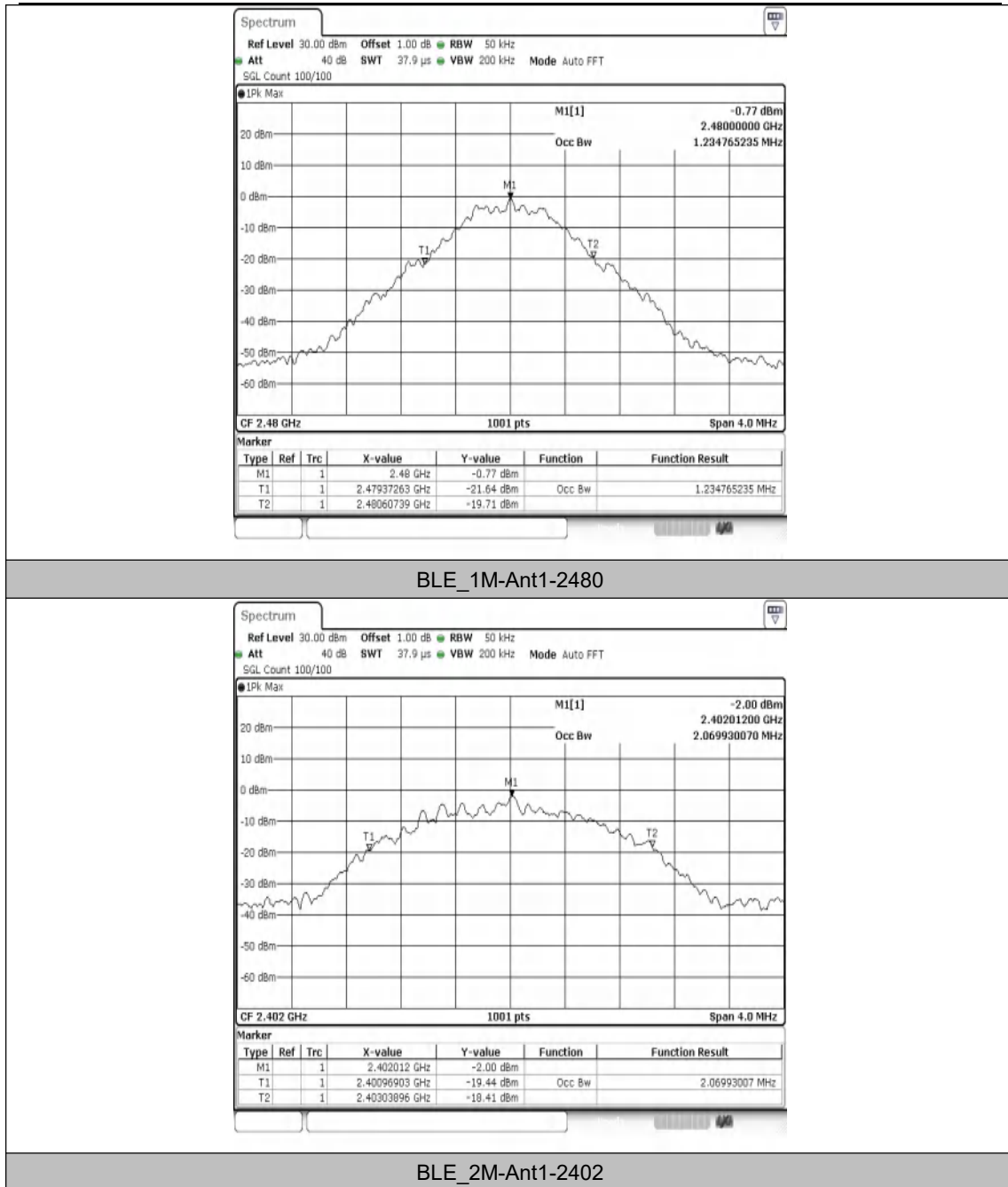
Appendix B: 99% Occupied Bandwidth

Test Result

| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| BLE_1M | Ant1 | 2402 | 1.1309 | 2401.4446 | 2402.5754 | --- | --- |
| BLE_1M | Ant1 | 2440 | 1.2028 | 2439.4246 | 2440.6274 | --- | --- |
| BLE_1M | Ant1 | 2480 | 1.2348 | 2479.3726 | 2480.6074 | --- | --- |
| BLE_2M | Ant1 | 2402 | 2.0699 | 2400.9690 | 2403.0390 | --- | --- |
| BLE_2M | Ant1 | 2440 | 2.0699 | 2438.9730 | 2441.0430 | --- | --- |
| BLE_2M | Ant1 | 2480 | 2.1099 | 2478.9530 | 2481.0629 | --- | --- |

Test Graphs

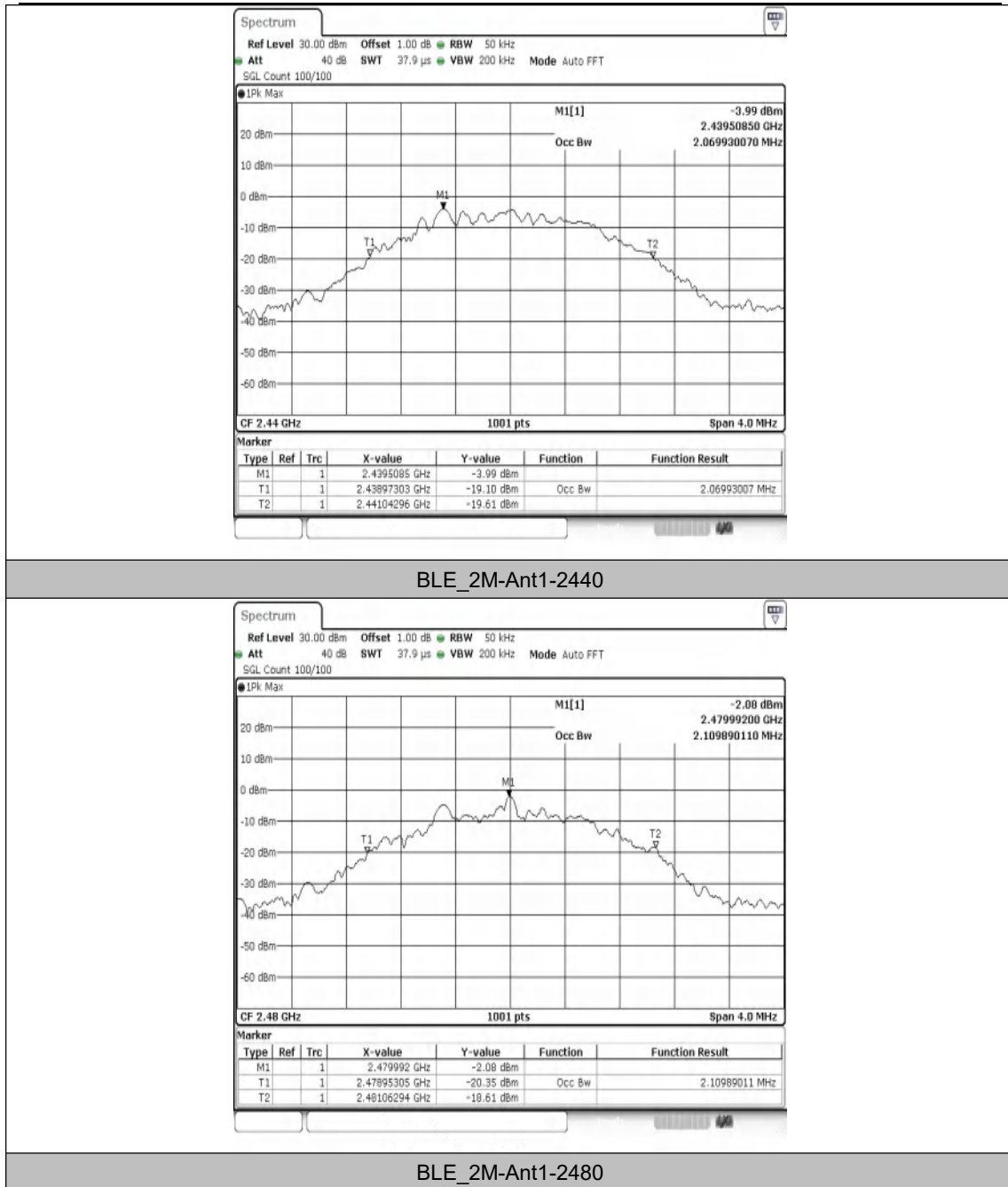




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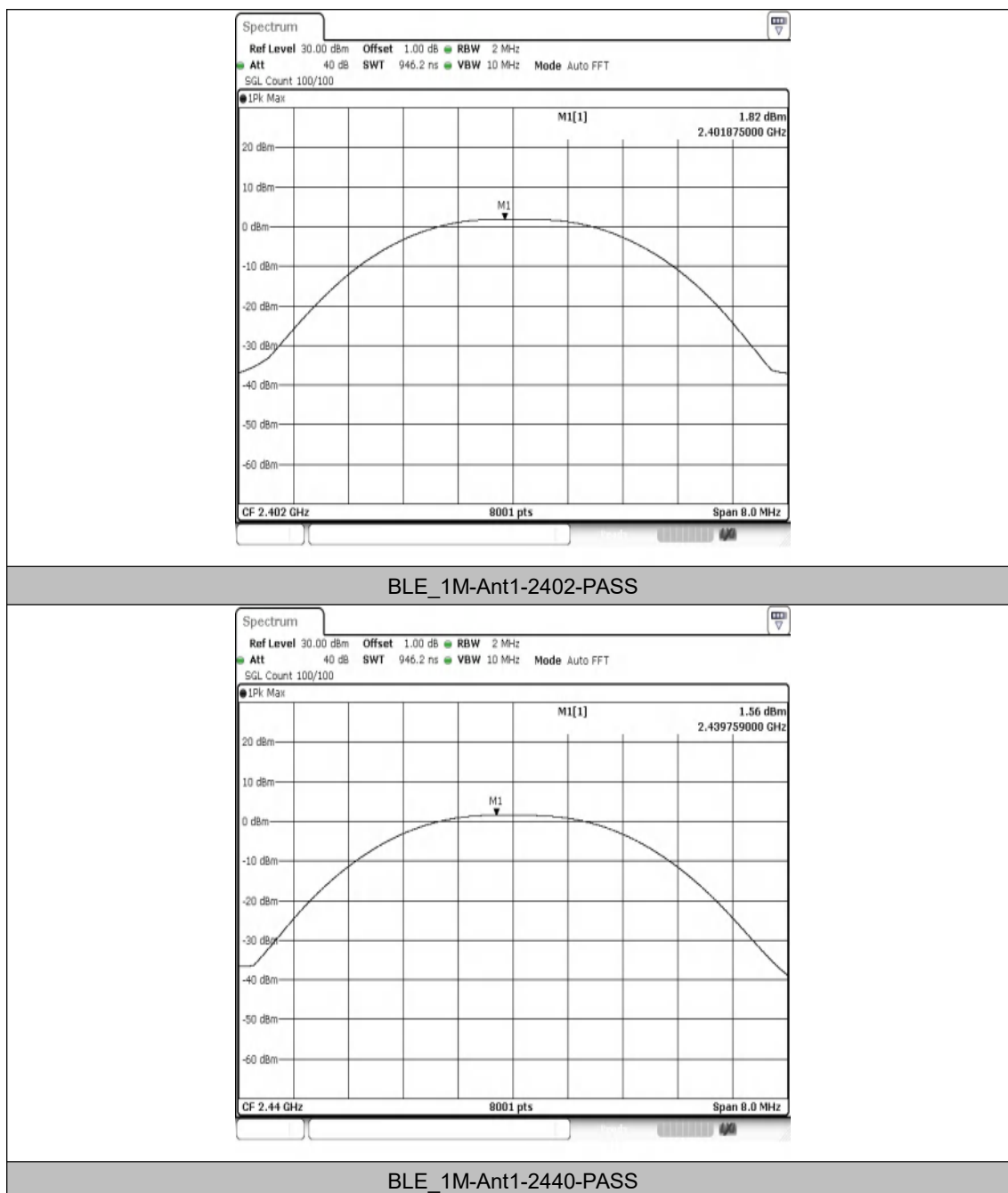


Appendix C: Maximum conducted output power

Test Result Peak

| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power [dBm] | Conducted Limit [dBm] | Verdict |
|-----------|---------|-----------------|----------------------------|-----------------------|---------|
| BLE_1M | Ant1 | 2402 | 1.82 | ≤30 | PASS |
| BLE_1M | Ant1 | 2440 | 1.56 | ≤30 | PASS |
| BLE_1M | Ant1 | 2480 | 0.79 | ≤30 | PASS |
| BLE_2M | Ant1 | 2402 | 1.88 | ≤30 | PASS |
| BLE_2M | Ant1 | 2440 | 1.53 | ≤30 | PASS |
| BLE_2M | Ant1 | 2480 | 0.82 | ≤30 | PASS |

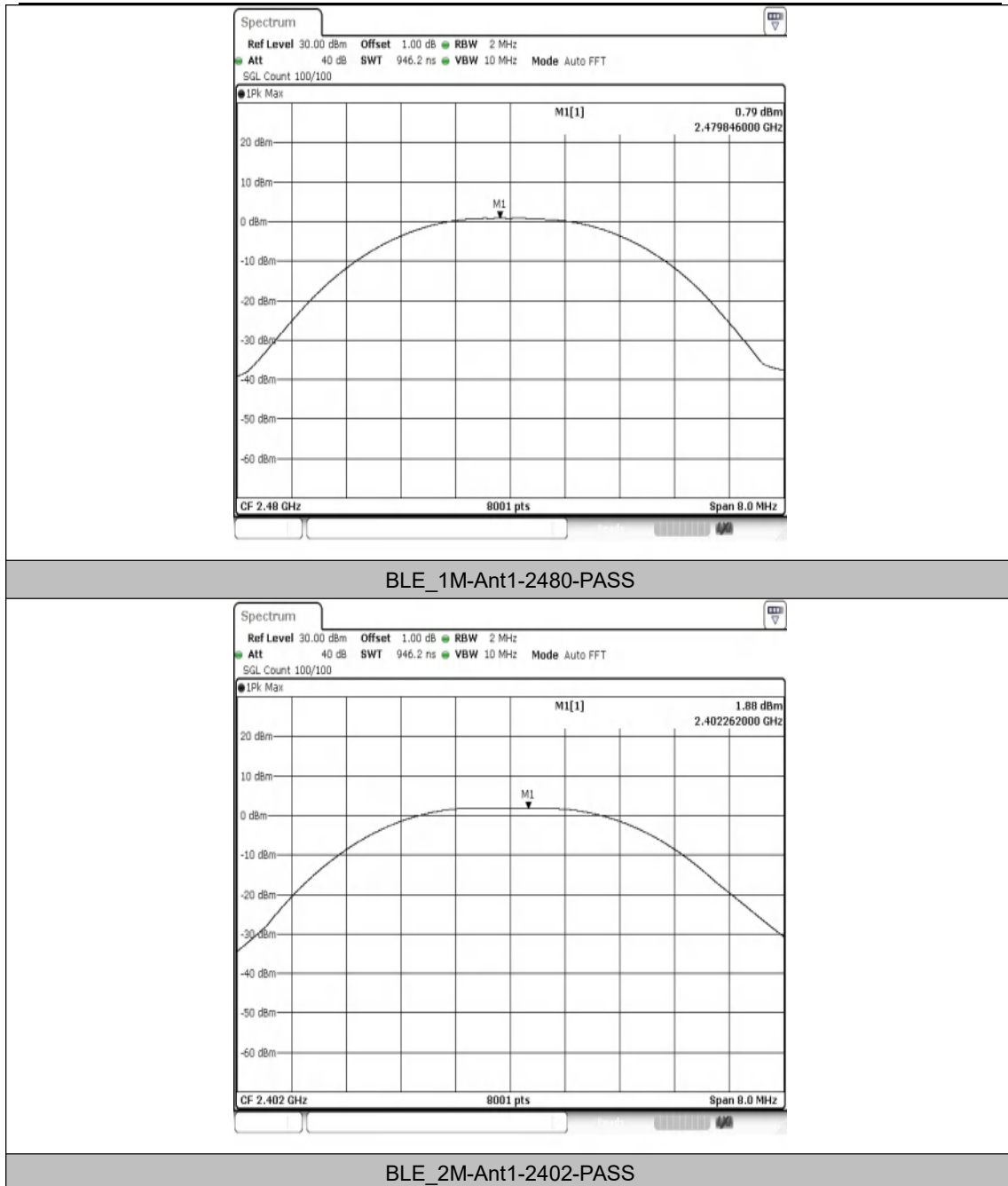
Test Graphs Peak



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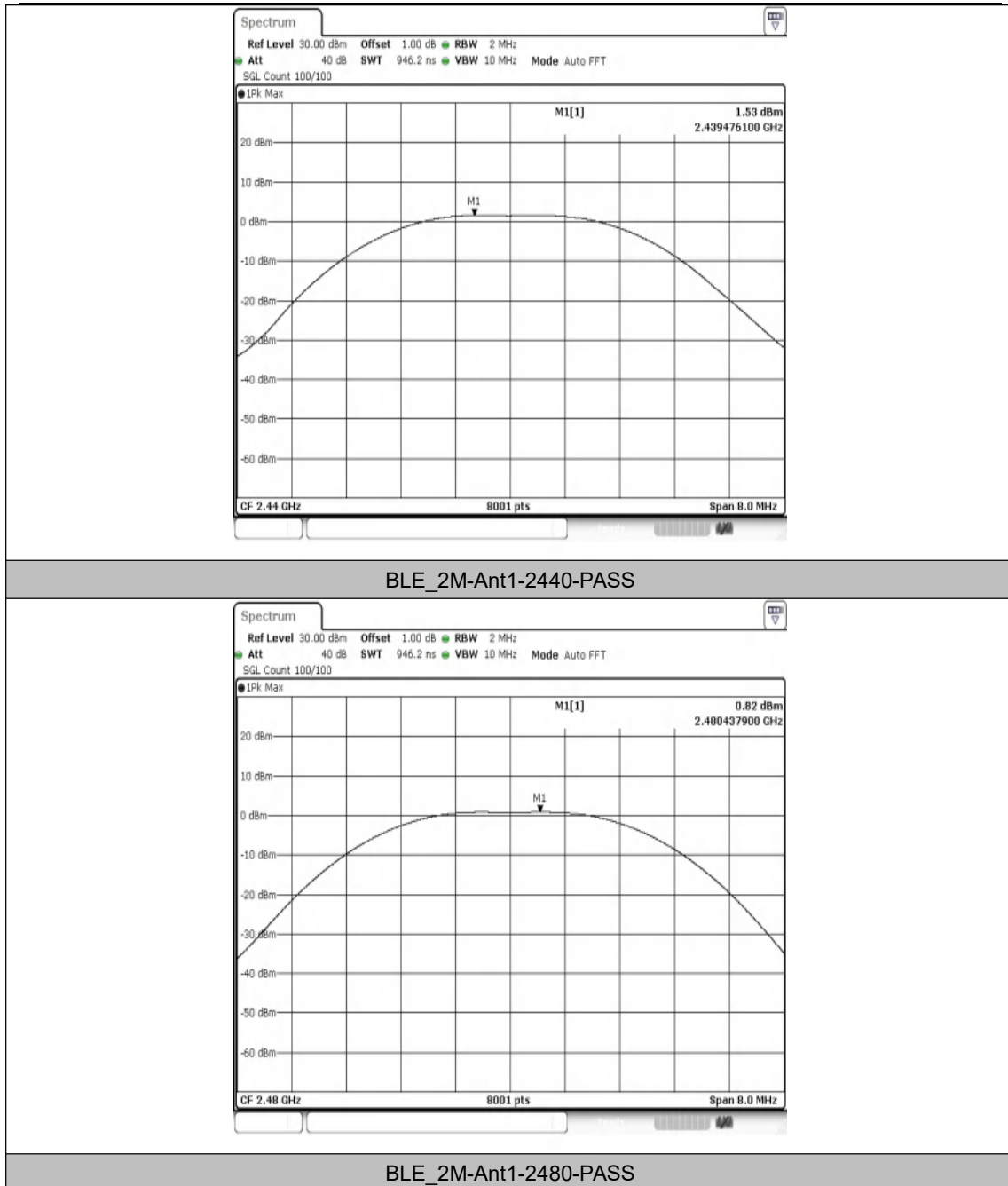
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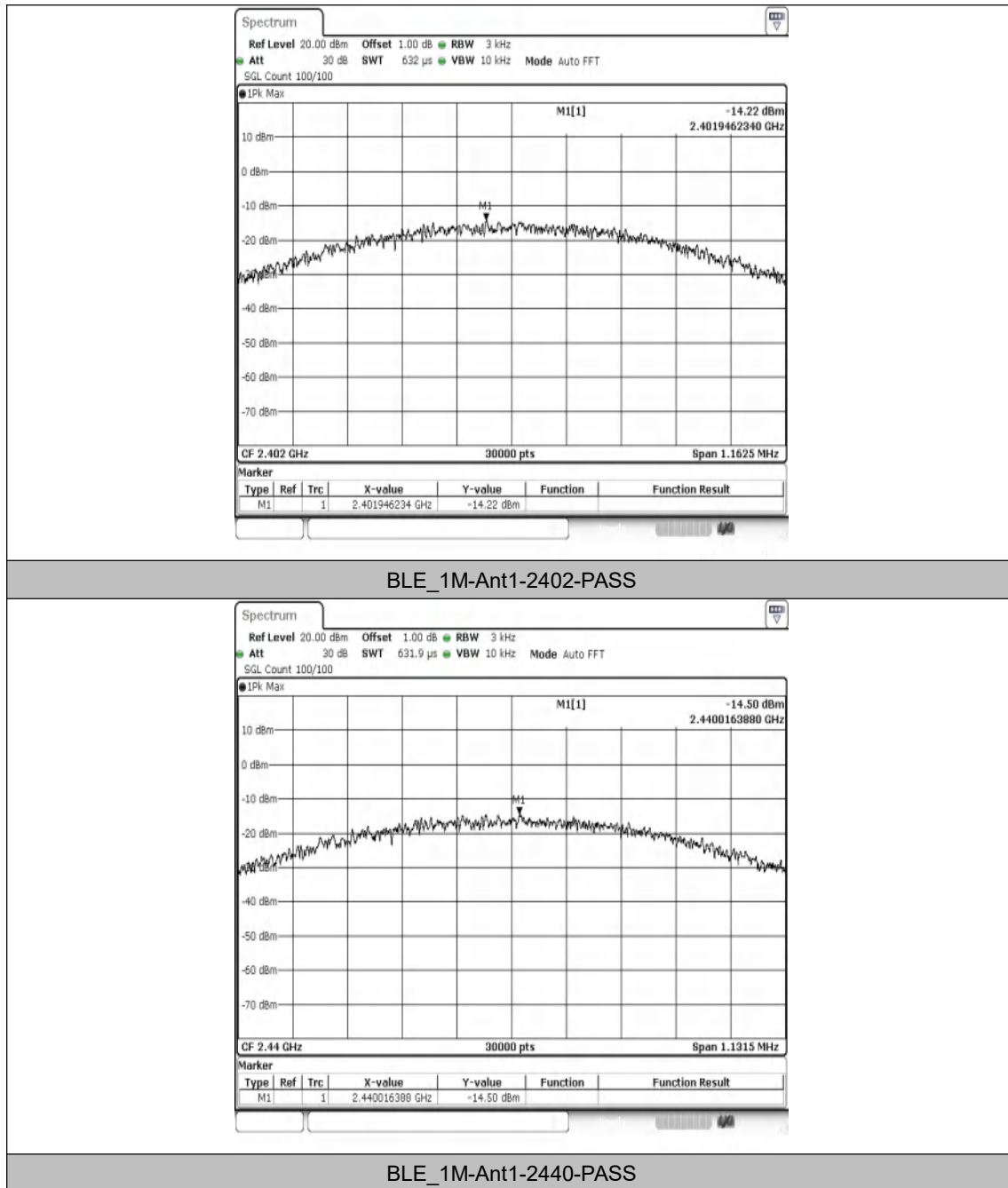
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Appendix D: Maximum power spectral density

Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M | Ant1 | 2402 | -14.22 | ≤8.00 | PASS |
| BLE_1M | Ant1 | 2440 | -14.50 | ≤8.00 | PASS |
| BLE_1M | Ant1 | 2480 | -15.59 | ≤8.00 | PASS |
| BLE_2M | Ant1 | 2402 | -17.53 | ≤8.00 | PASS |
| BLE_2M | Ant1 | 2440 | -17.37 | ≤8.00 | PASS |
| BLE_2M | Ant1 | 2480 | -17.94 | ≤8.00 | PASS |

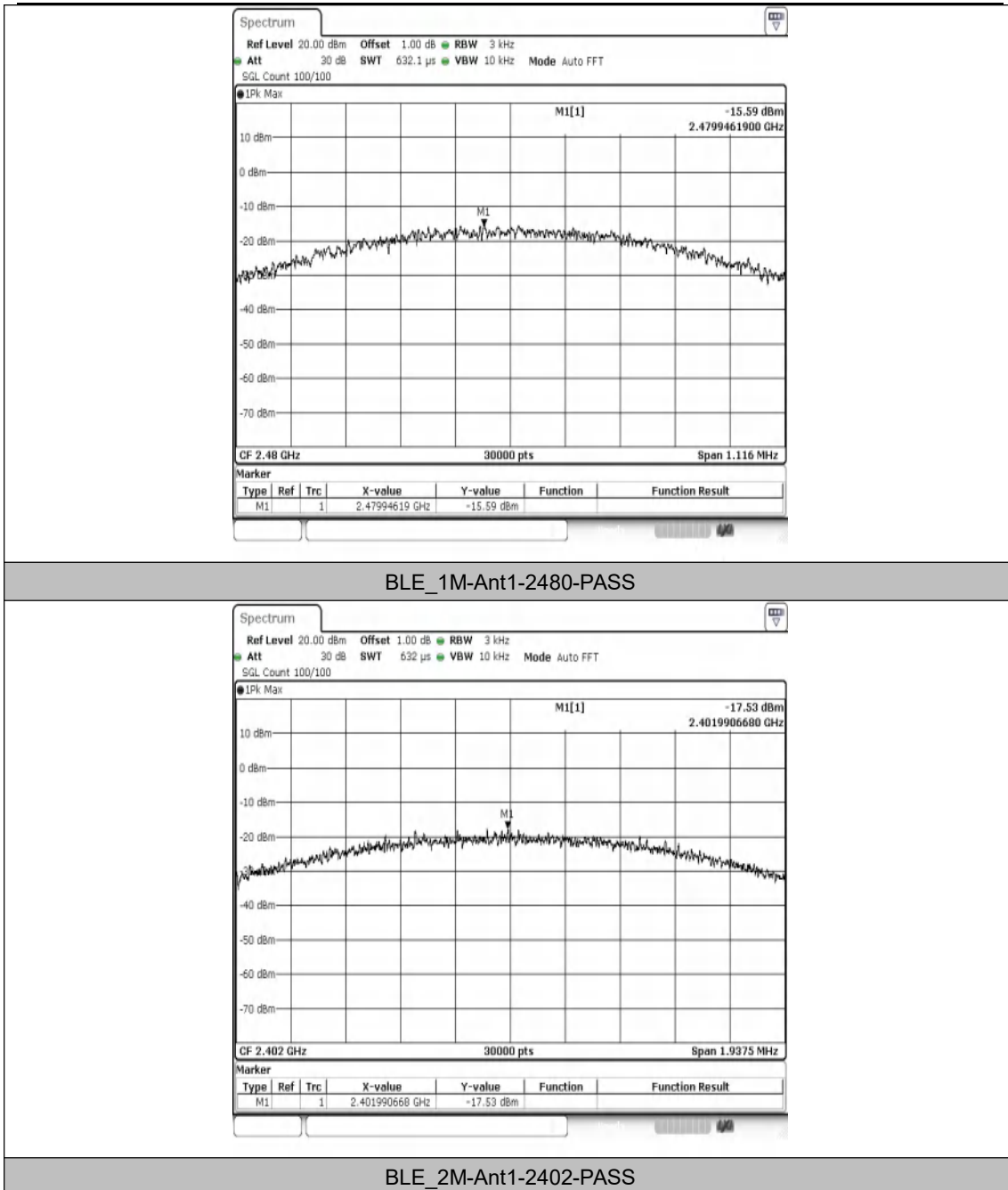
Test Graphs



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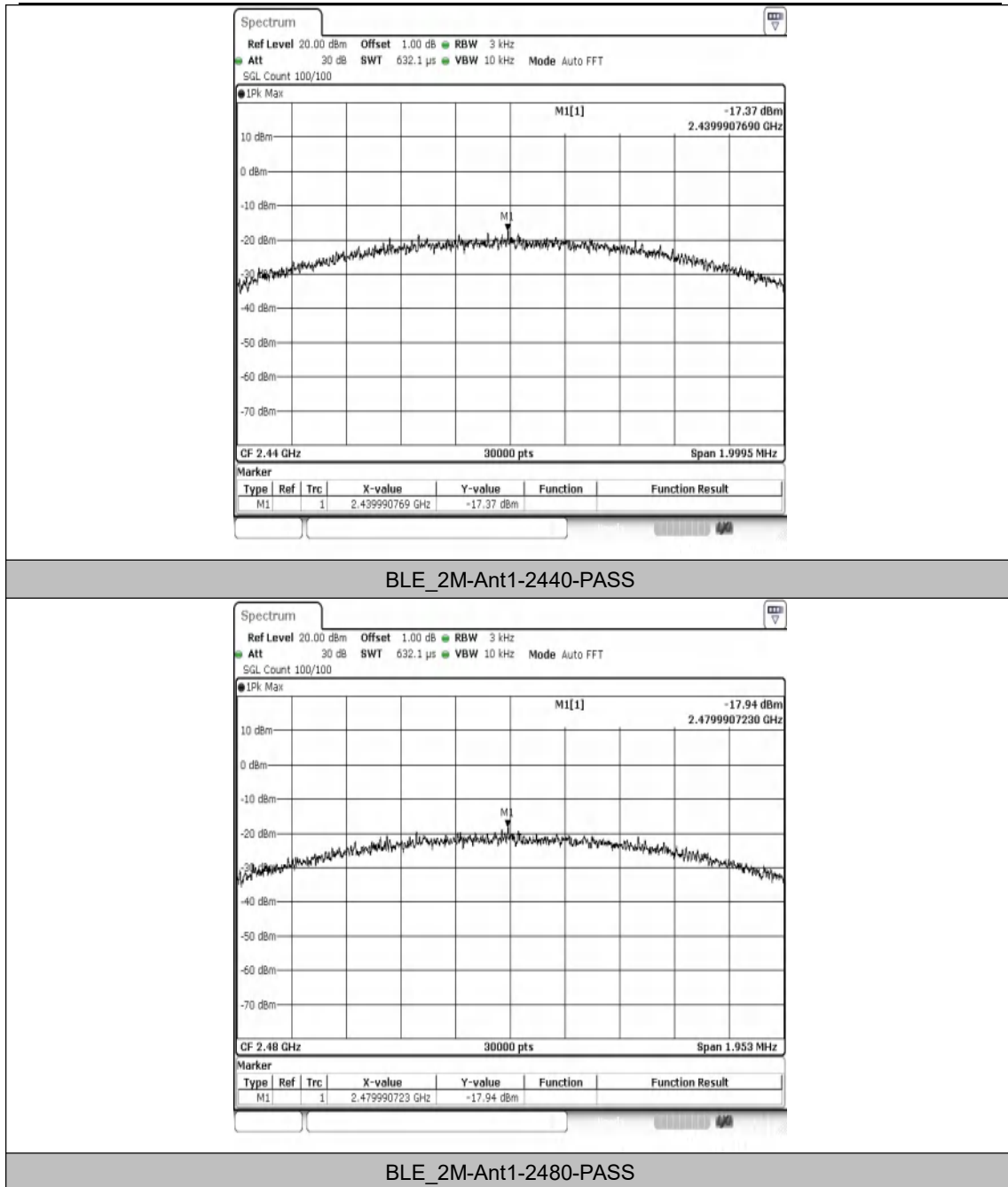
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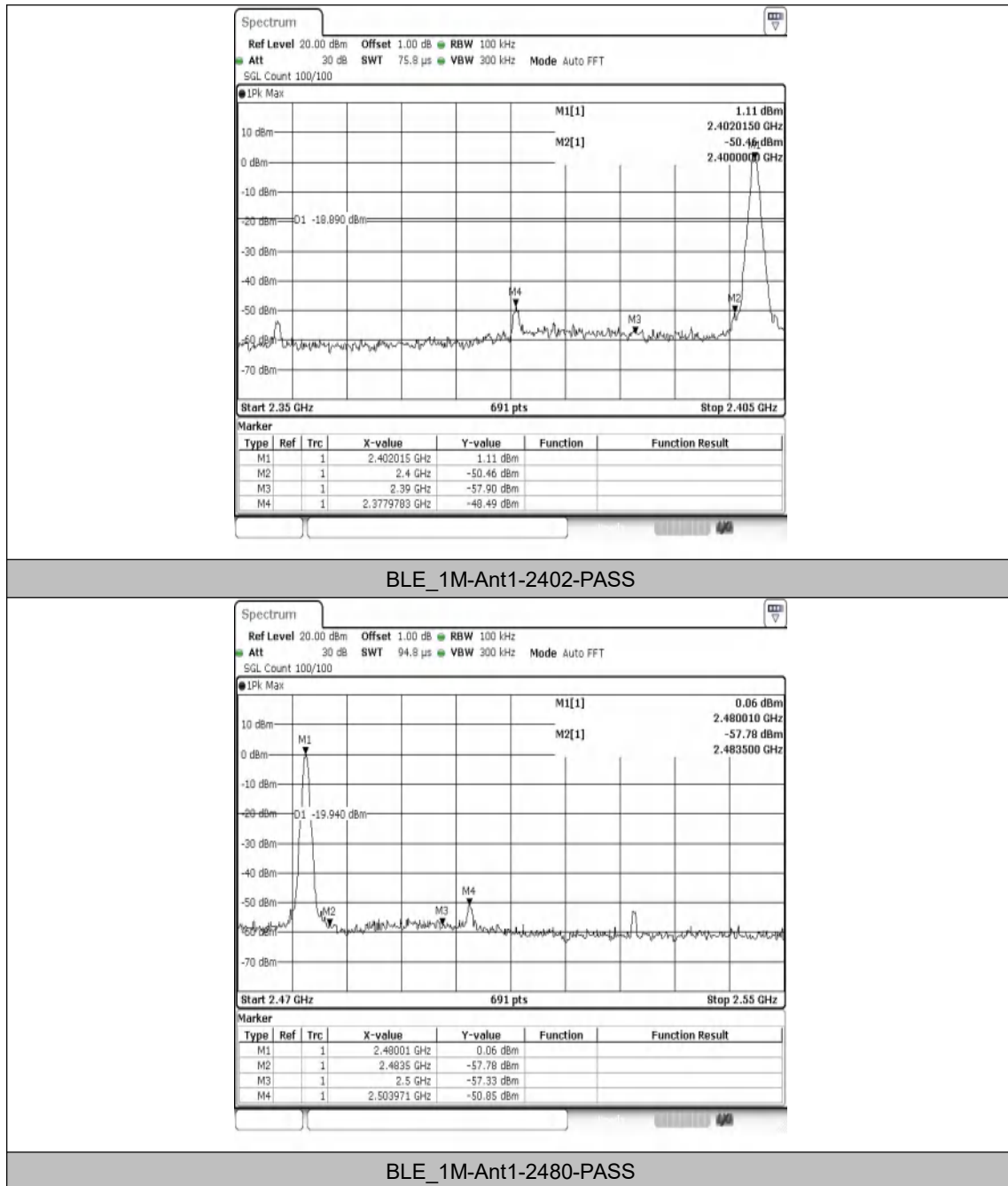
Appendix E: Band edge measurements

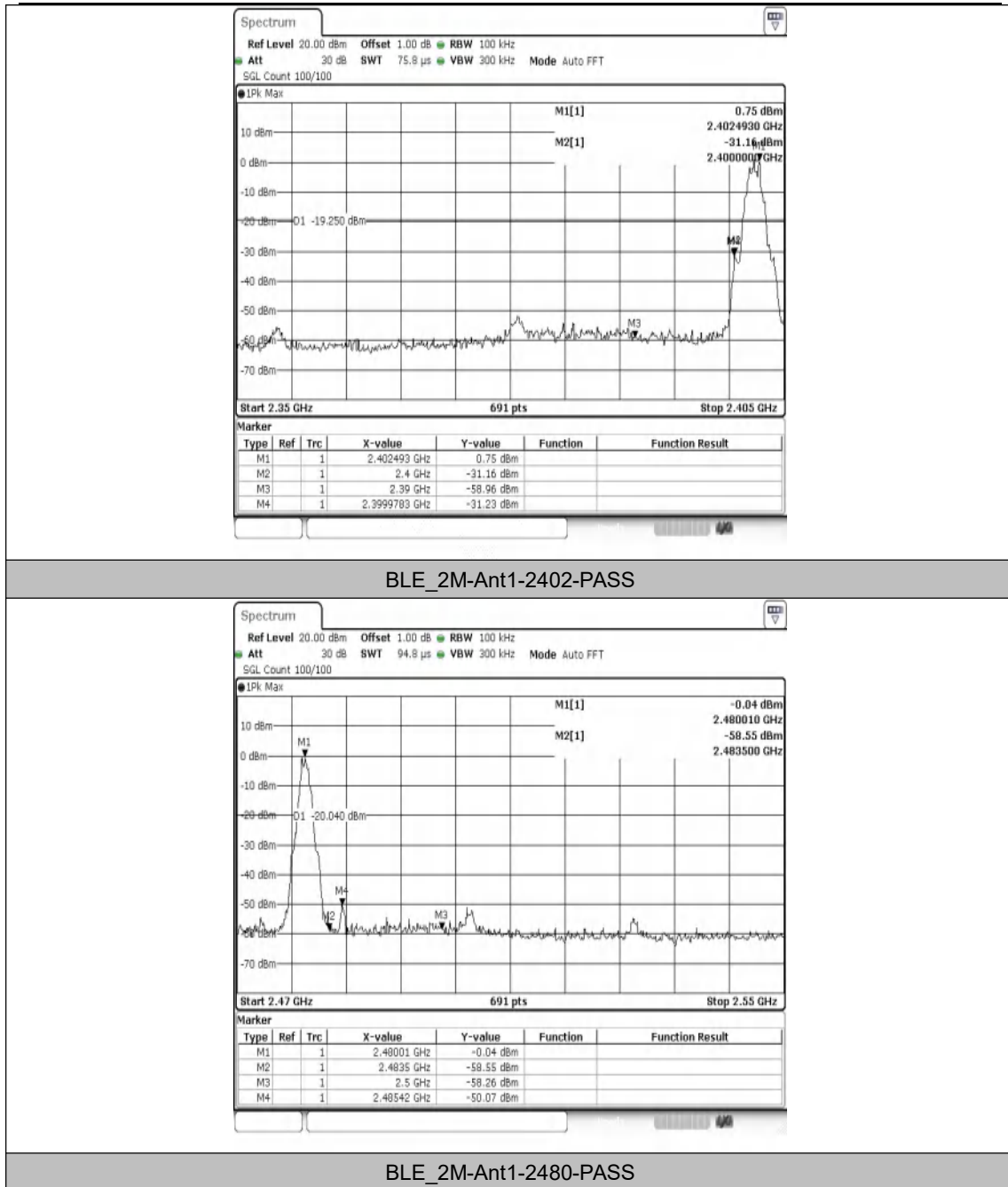
Test Result

| Test Mode | Antenna | ChName | Frequency [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|--------|-----------------|----------------|--------------|-------------|---------|
| BLE_1M | Ant1 | Low | 2402 | 1.11 | -48.49 | ≤-18.89 | PASS |
| BLE_1M | Ant1 | High | 2480 | 0.06 | -50.85 | ≤-19.94 | PASS |
| BLE_2M | Ant1 | Low | 2402 | 0.75 | -31.23 | ≤-19.25 | PASS |
| BLE_2M | Ant1 | High | 2480 | -0.04 | -50.07 | ≤-20.04 | PASS |

Remark:1. Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

Test Graphs





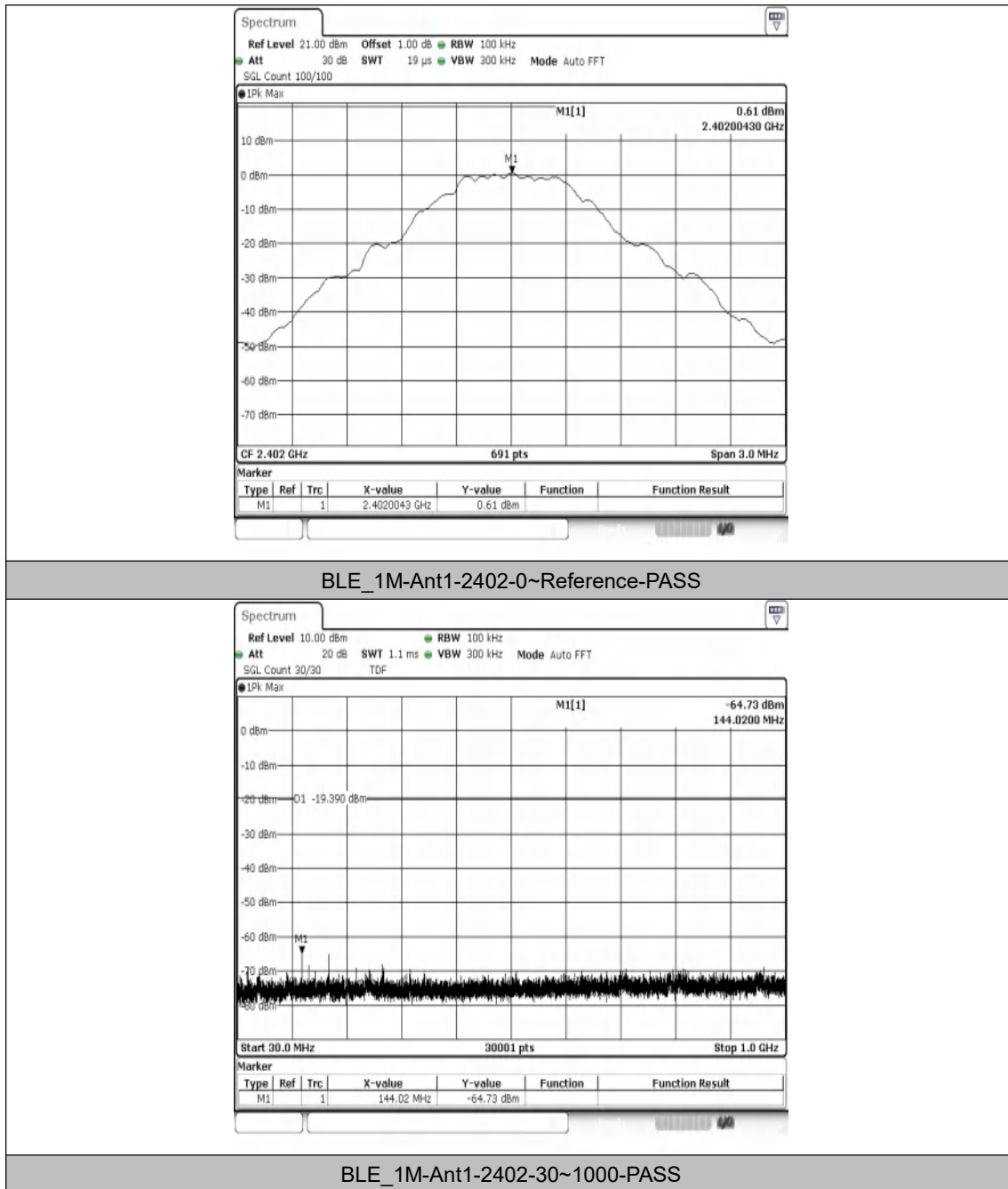
Appendix F: Conducted Spurious Emission

Test Result

| Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|--------------|-------------|---------|
| BLE_1M | Ant1 | 2402 | 0~Reference | 0.61 | 0.61 | --- | PASS |
| BLE_1M | Ant1 | 2402 | 30~1000 | 0.61 | -64.73 | ≤-19.39 | PASS |
| BLE_1M | Ant1 | 2402 | 1000~26500 | 0.61 | -38.91 | ≤-19.39 | PASS |
| BLE_1M | Ant1 | 2440 | 0~Reference | 1.16 | 1.16 | --- | PASS |
| BLE_1M | Ant1 | 2440 | 30~1000 | 1.16 | -63.63 | ≤-18.84 | PASS |
| BLE_1M | Ant1 | 2440 | 1000~26500 | 1.16 | -40.19 | ≤-18.84 | PASS |
| BLE_1M | Ant1 | 2480 | 0~Reference | 0.10 | 0.10 | --- | PASS |
| BLE_1M | Ant1 | 2480 | 30~1000 | 0.10 | -60.71 | ≤-19.9 | PASS |
| BLE_1M | Ant1 | 2480 | 1000~26500 | 0.10 | -37.46 | ≤-19.9 | PASS |
| BLE_2M | Ant1 | 2402 | 0~Reference | 0.59 | 0.59 | --- | PASS |
| BLE_2M | Ant1 | 2402 | 30~1000 | 0.59 | -62.29 | ≤-19.41 | PASS |
| BLE_2M | Ant1 | 2402 | 1000~26500 | 0.59 | -41.71 | ≤-19.41 | PASS |
| BLE_2M | Ant1 | 2440 | 0~Reference | -1.62 | -1.62 | --- | PASS |
| BLE_2M | Ant1 | 2440 | 30~1000 | -1.62 | -64.06 | ≤-21.62 | PASS |
| BLE_2M | Ant1 | 2440 | 1000~26500 | -1.62 | -40.73 | ≤-21.62 | PASS |
| BLE_2M | Ant1 | 2480 | 0~Reference | -0.17 | -0.17 | --- | PASS |
| BLE_2M | Ant1 | 2480 | 30~1000 | -0.17 | -60.55 | ≤-20.17 | PASS |
| BLE_2M | Ant1 | 2480 | 1000~26500 | -0.17 | -39.65 | ≤-20.17 | PASS |

Remark: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'TDF' of the Spectrum Analyzer during the test.

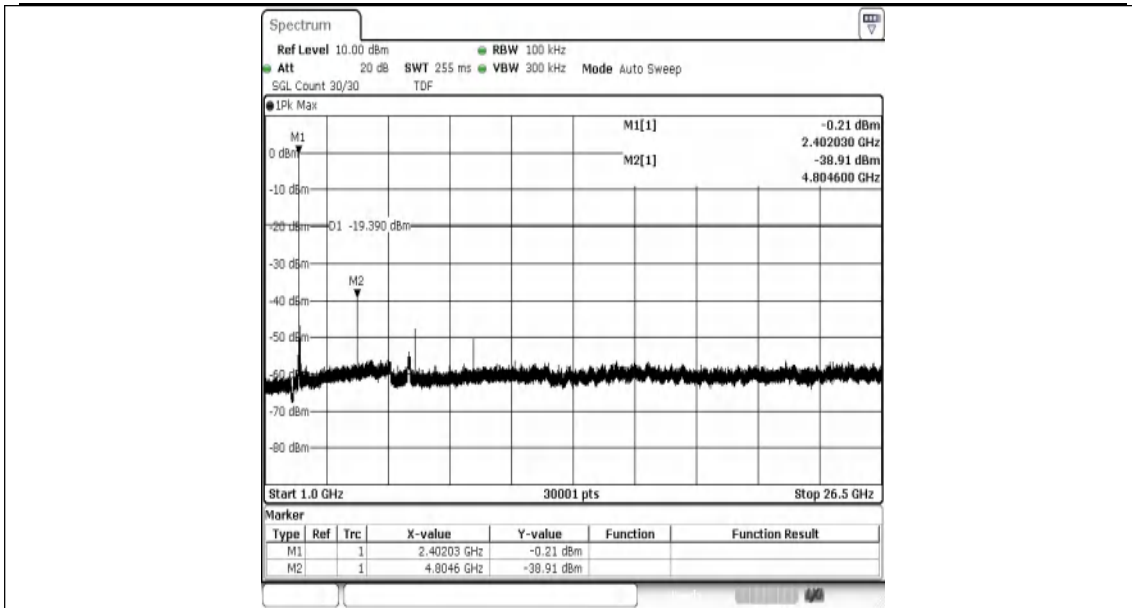
Test Graphs



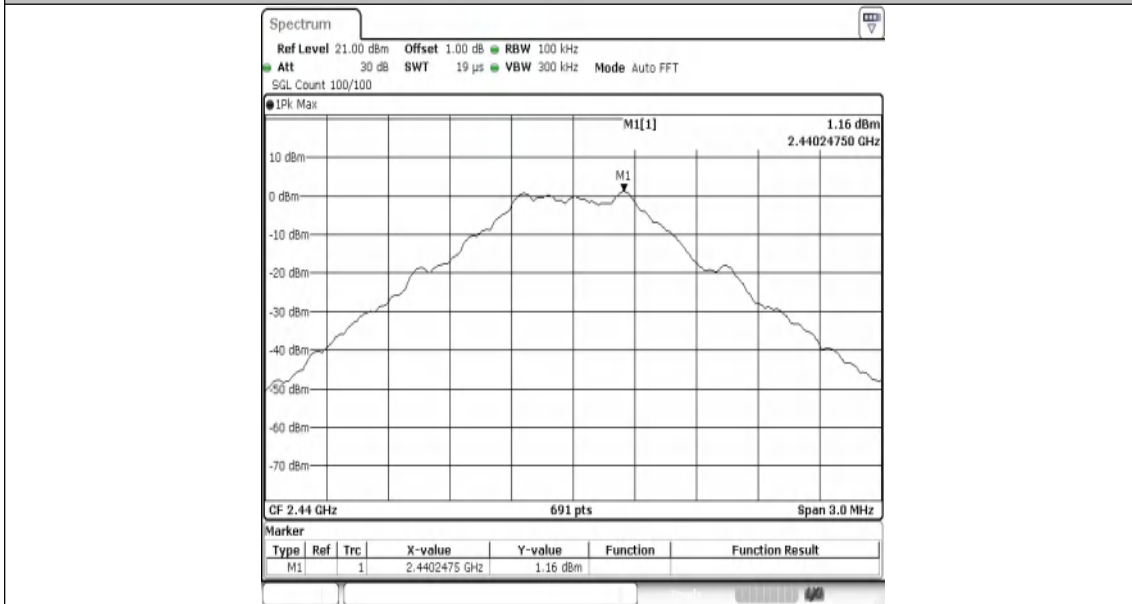
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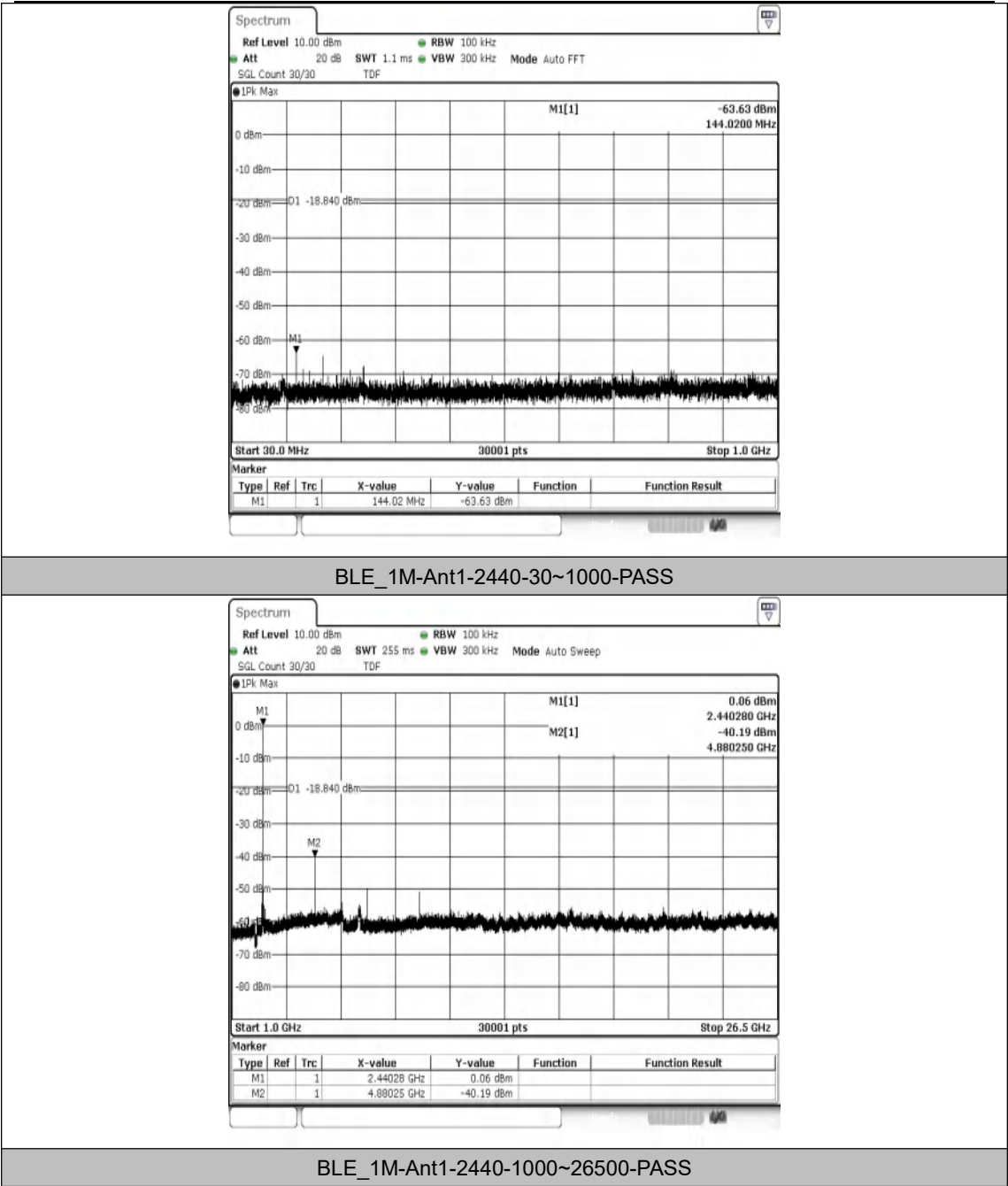
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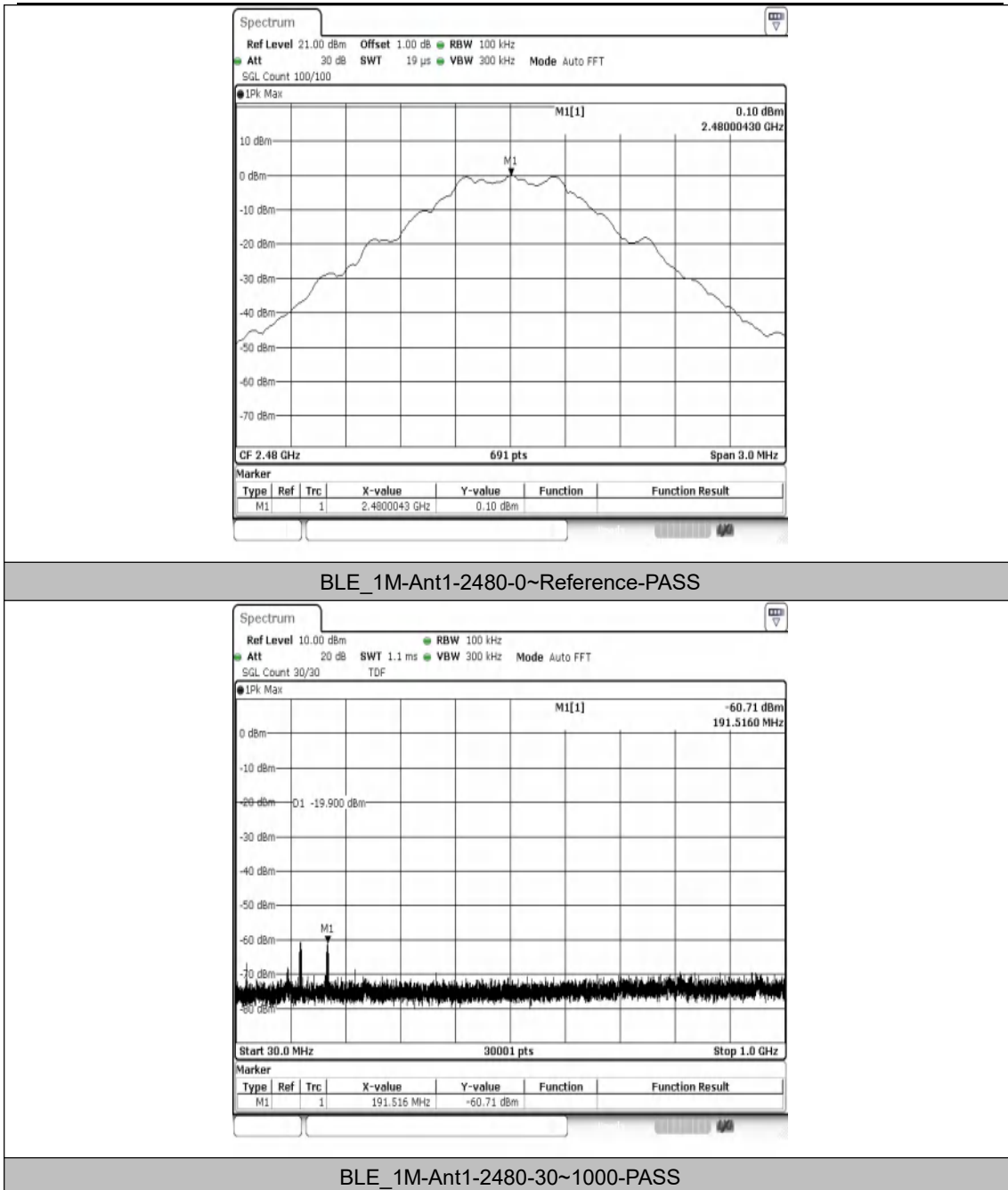


BLE_1M-Ant1-2402-1000~26500-PASS



BLE_1M-Ant1-2440-0~Reference-PASS

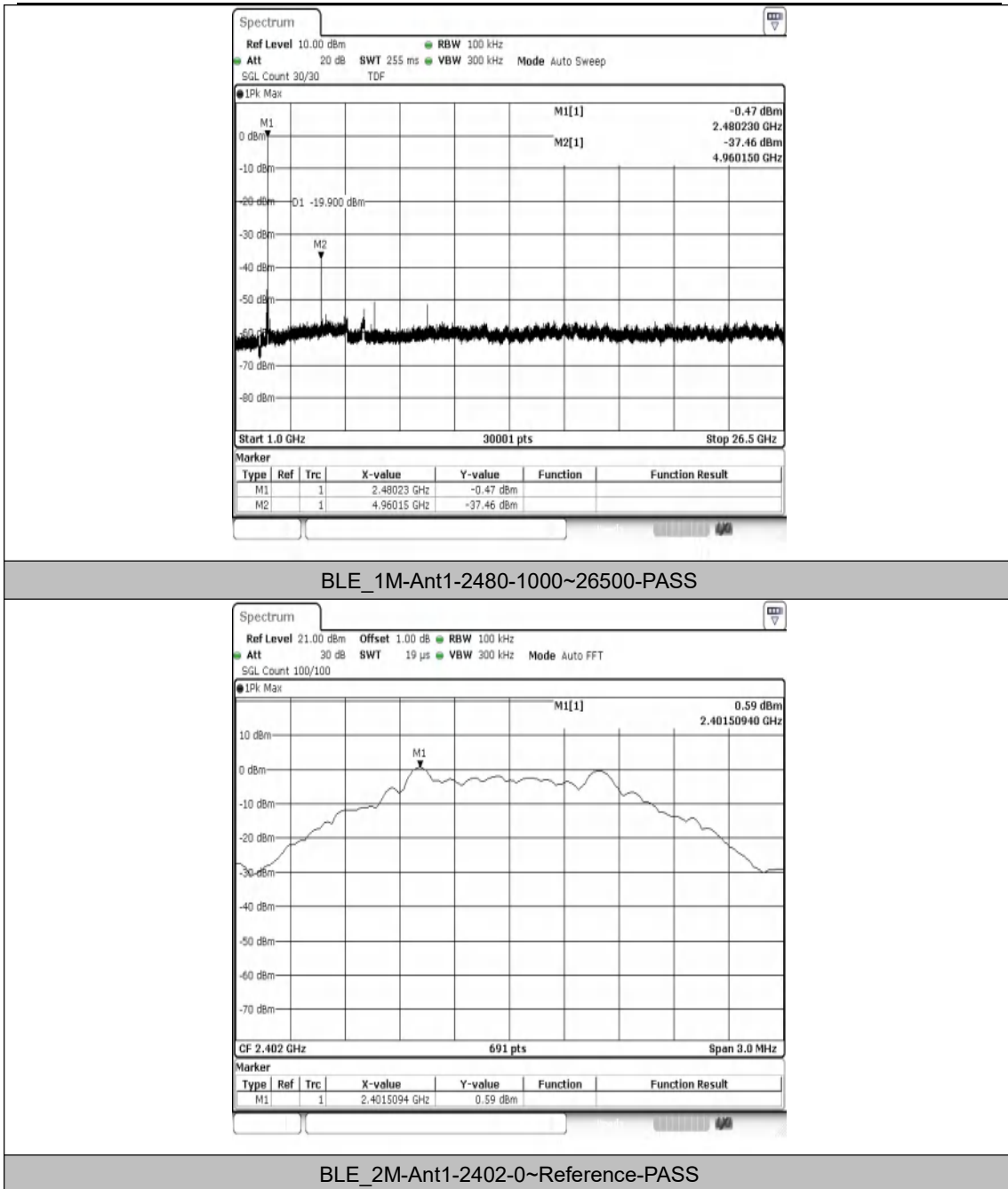




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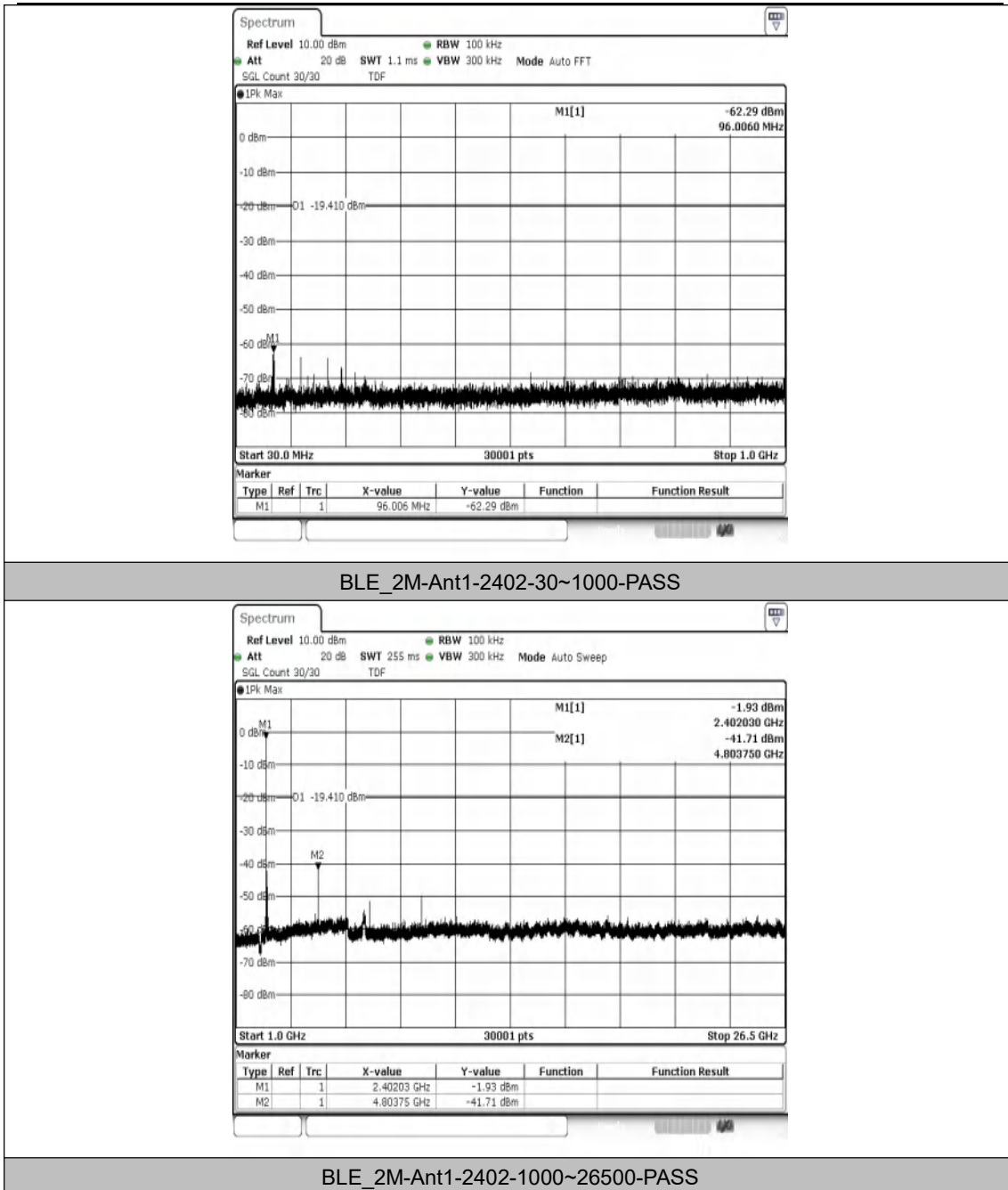
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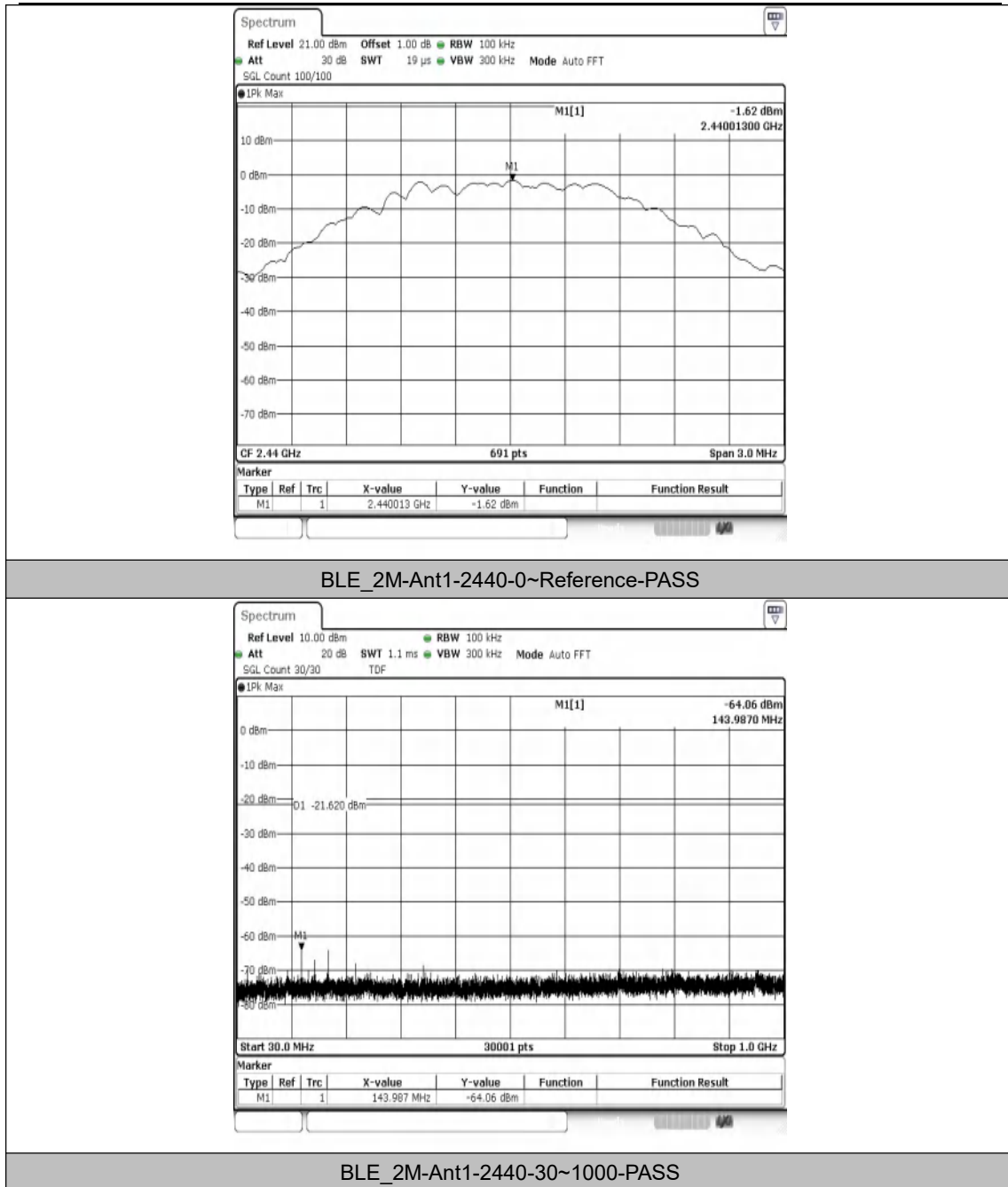
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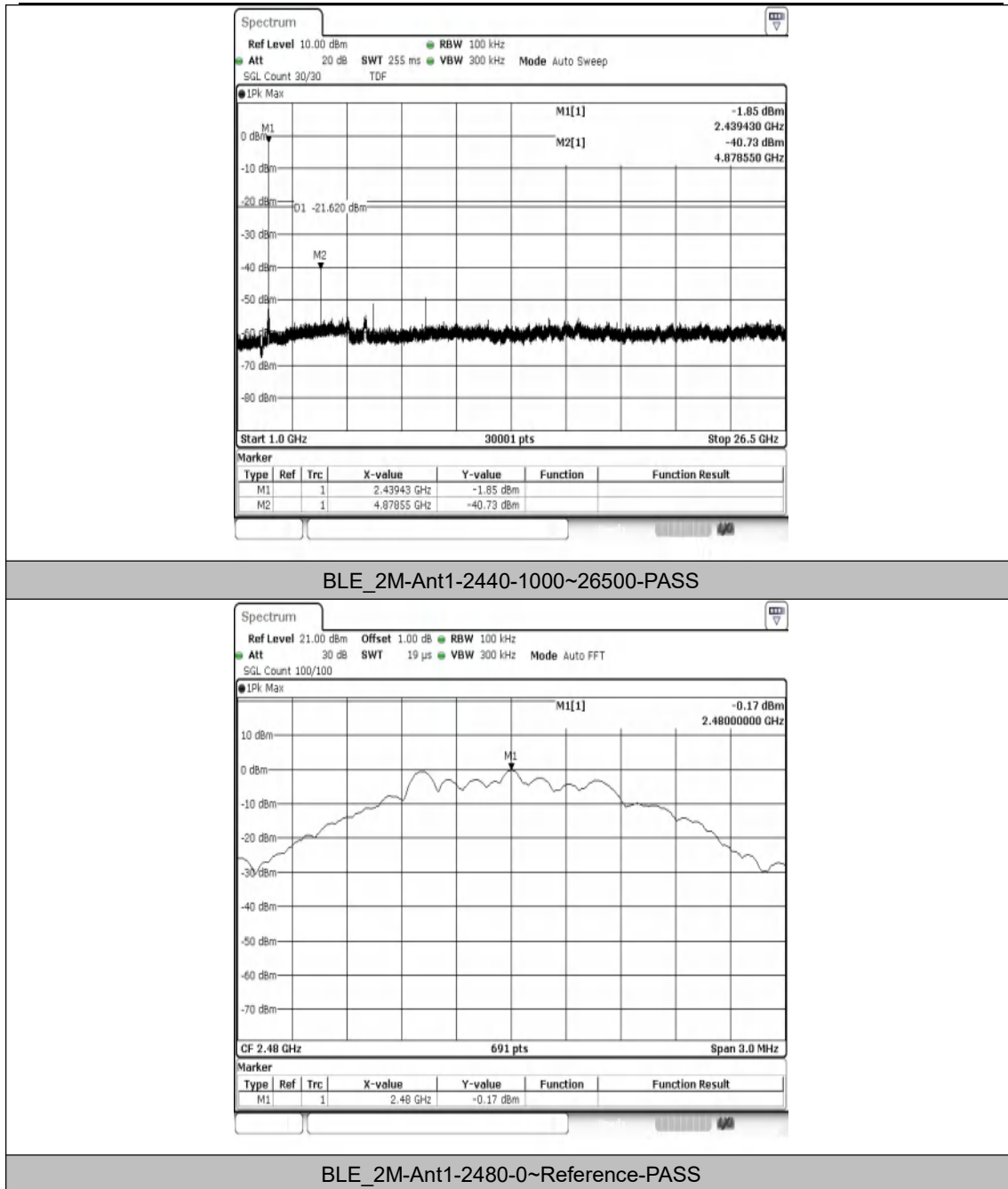
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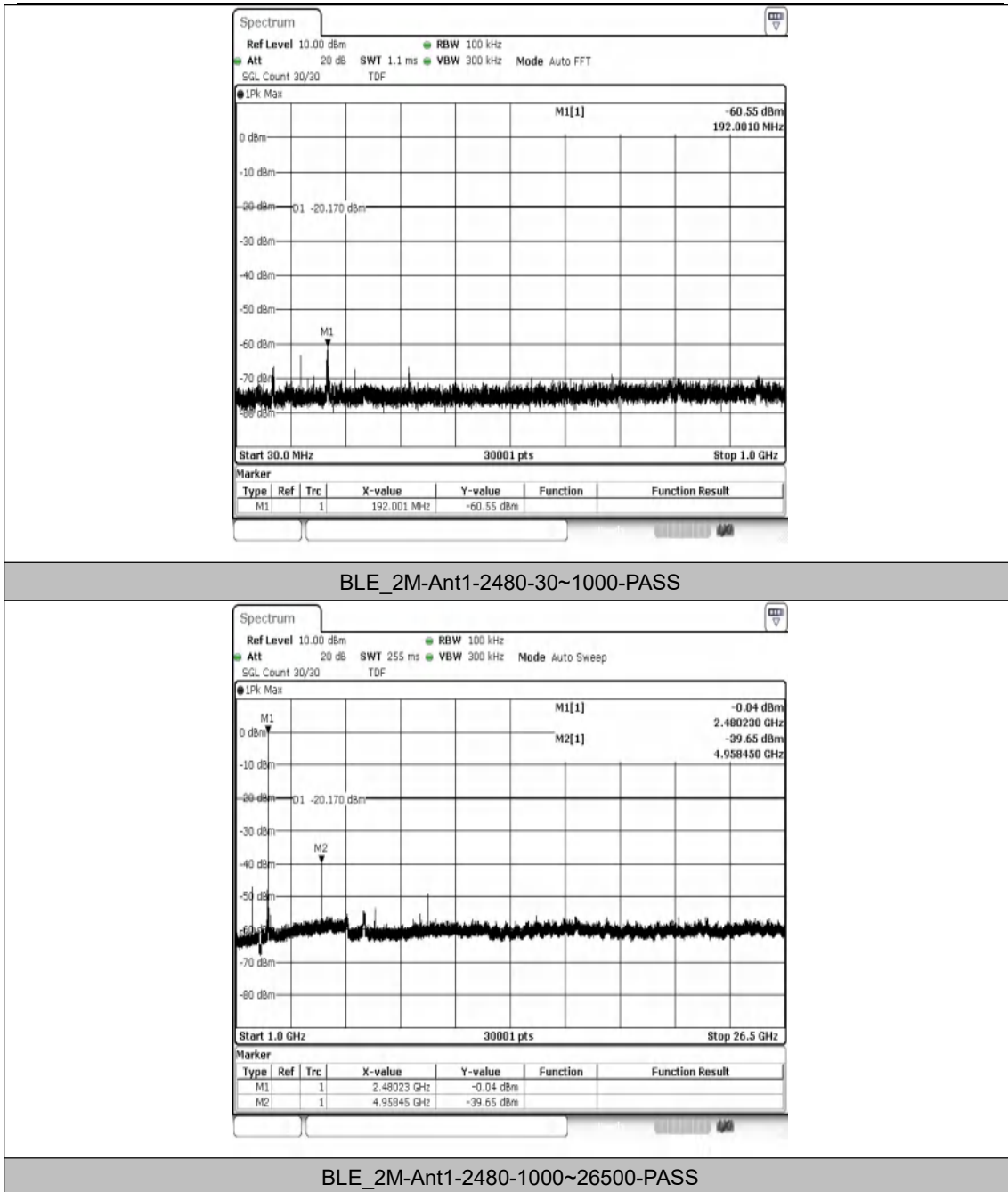
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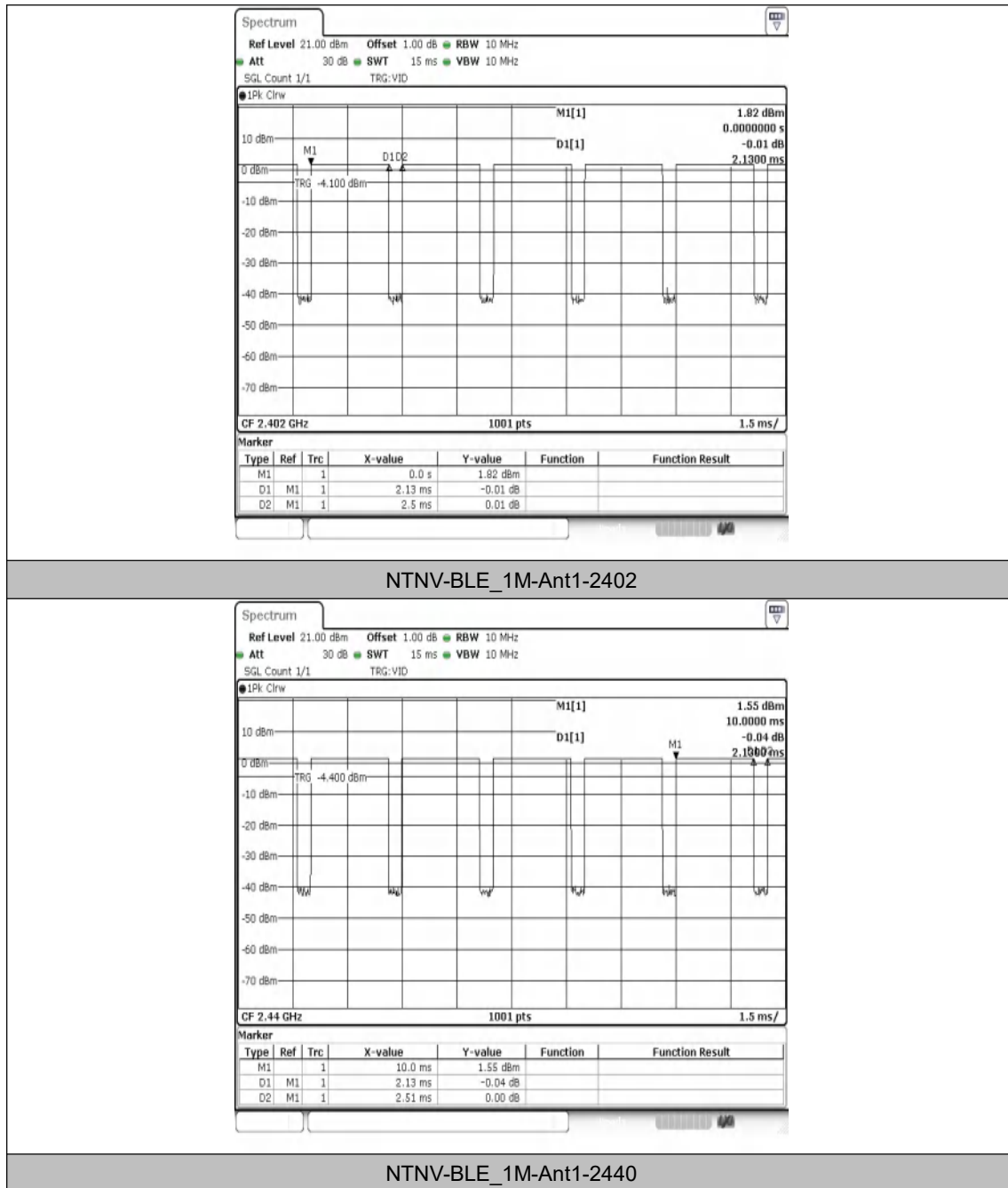
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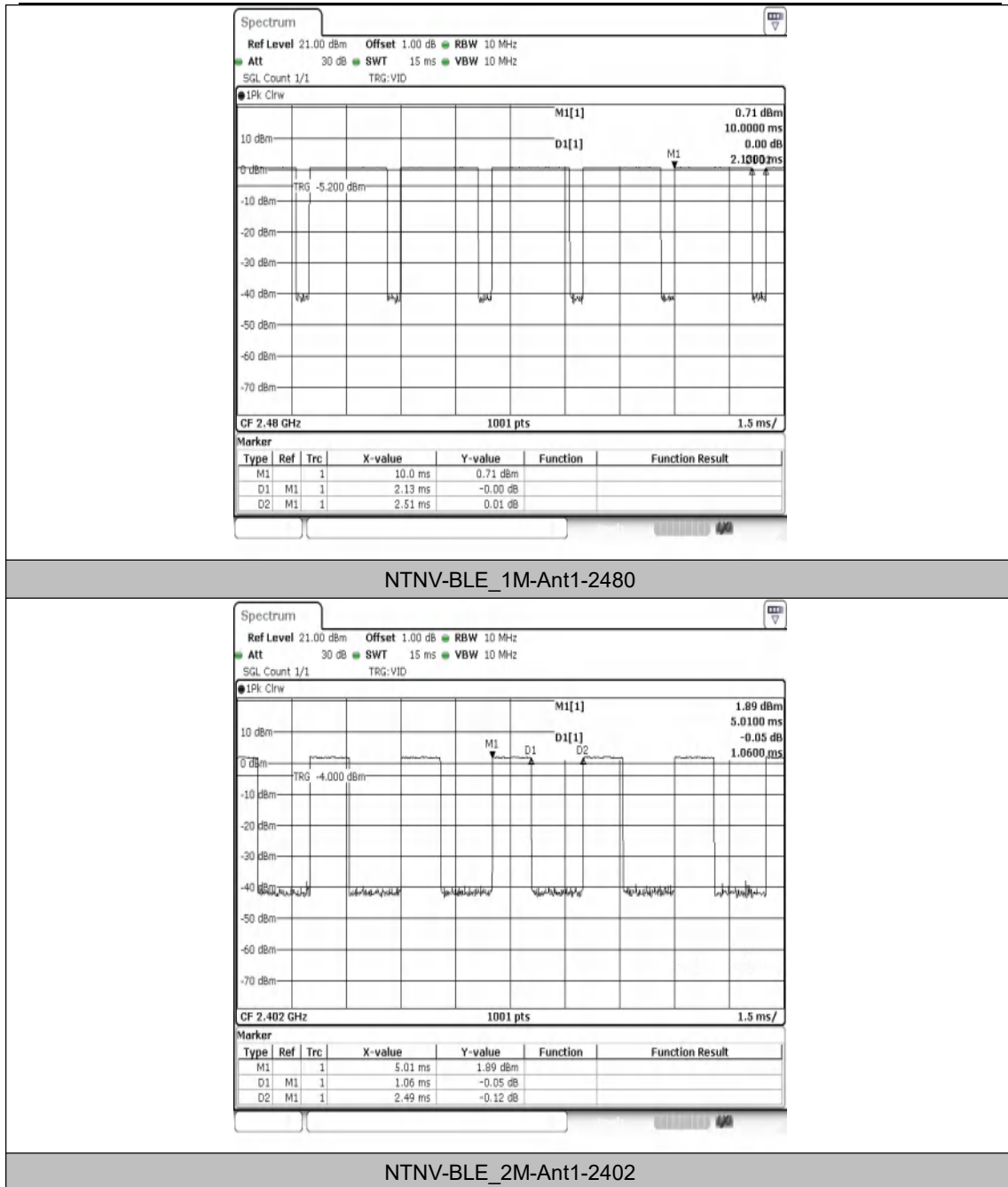
Appendix G: Duty Cycle

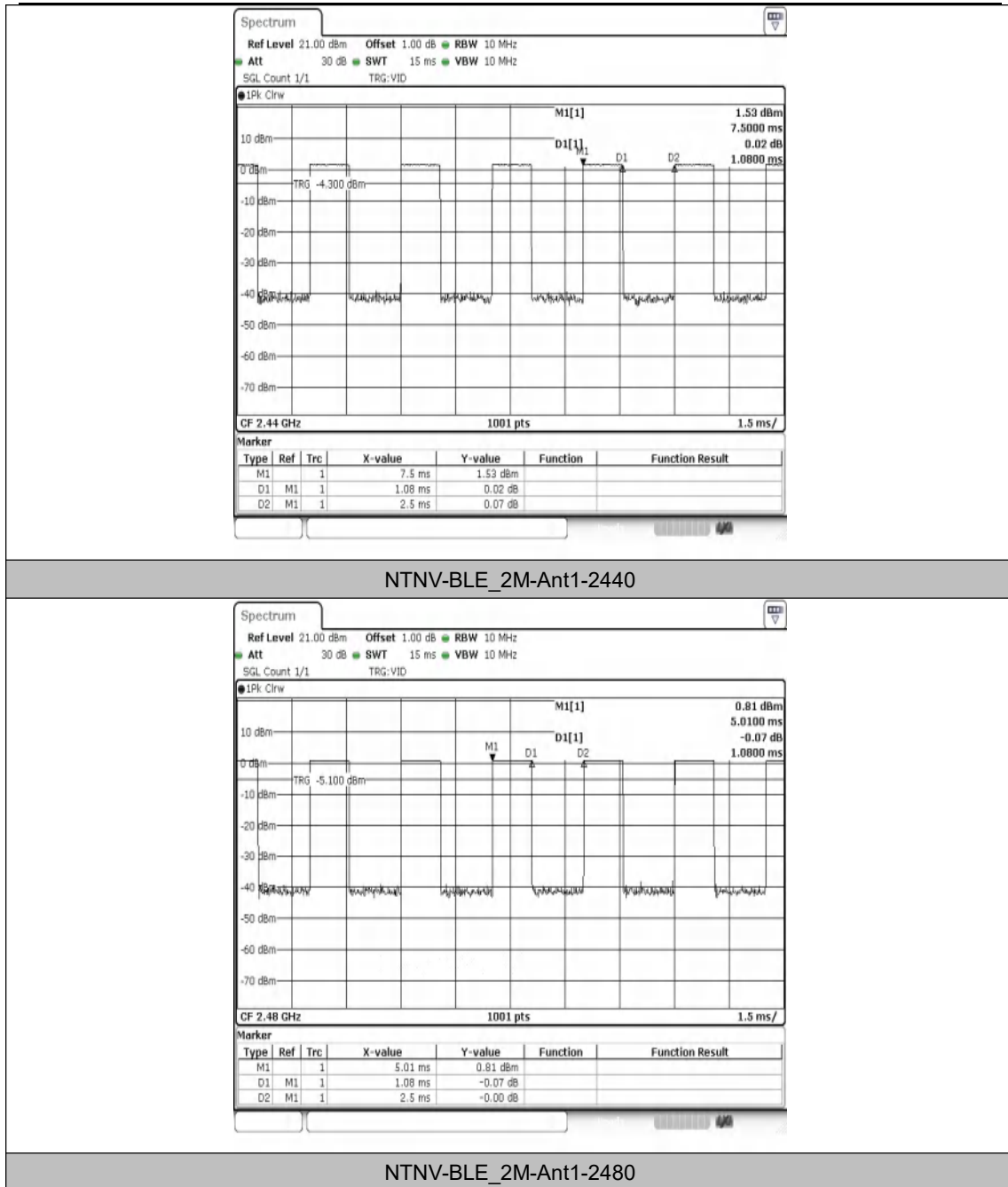
Test Result

| Test Mode | Antenna | Frequency [MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|-----------|---------|-----------------|--------------|-------------|----------------|-----------------------|
| BLE_1M | Ant1 | 2402 | 2.13 | 2.50 | 85.20 | 0.70 |
| BLE_1M | Ant1 | 2440 | 2.13 | 2.51 | 84.86 | 0.71 |
| BLE_1M | Ant1 | 2480 | 2.13 | 2.51 | 84.86 | 0.71 |
| BLE_2M | Ant1 | 2402 | 1.06 | 2.49 | 42.57 | 3.71 |
| BLE_2M | Ant1 | 2440 | 1.08 | 2.50 | 43.20 | 3.65 |
| BLE_2M | Ant1 | 2480 | 1.08 | 2.50 | 43.20 | 3.65 |

Test Graphs







---End---