

Appendix Test Data

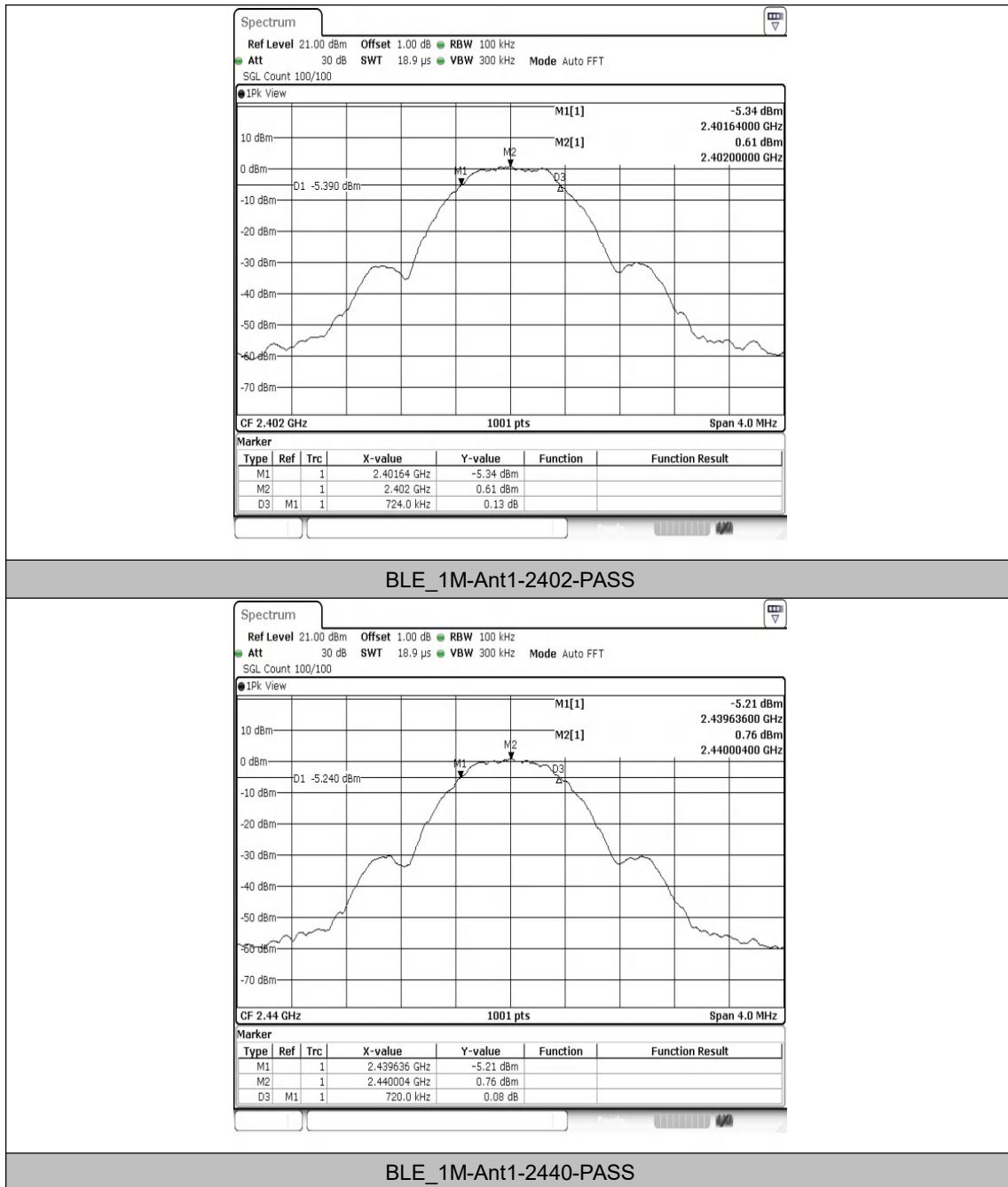
| | | | |
|------------------|------------------|--------------------|-------------|
| Report No.: | 1812C50023312502 | Test Sample No.: | 1-2-2 |
| Start Test Date: | 2025-1-16 | Finish Test Date: | 2025-5-19 |
| Test Engineer: | Hansen Guan | Auditor: | Justin Feng |
| Temperature: | 23.0°C | Relative Humidity: | 46% |
| Pressure: | 101kPa | | |

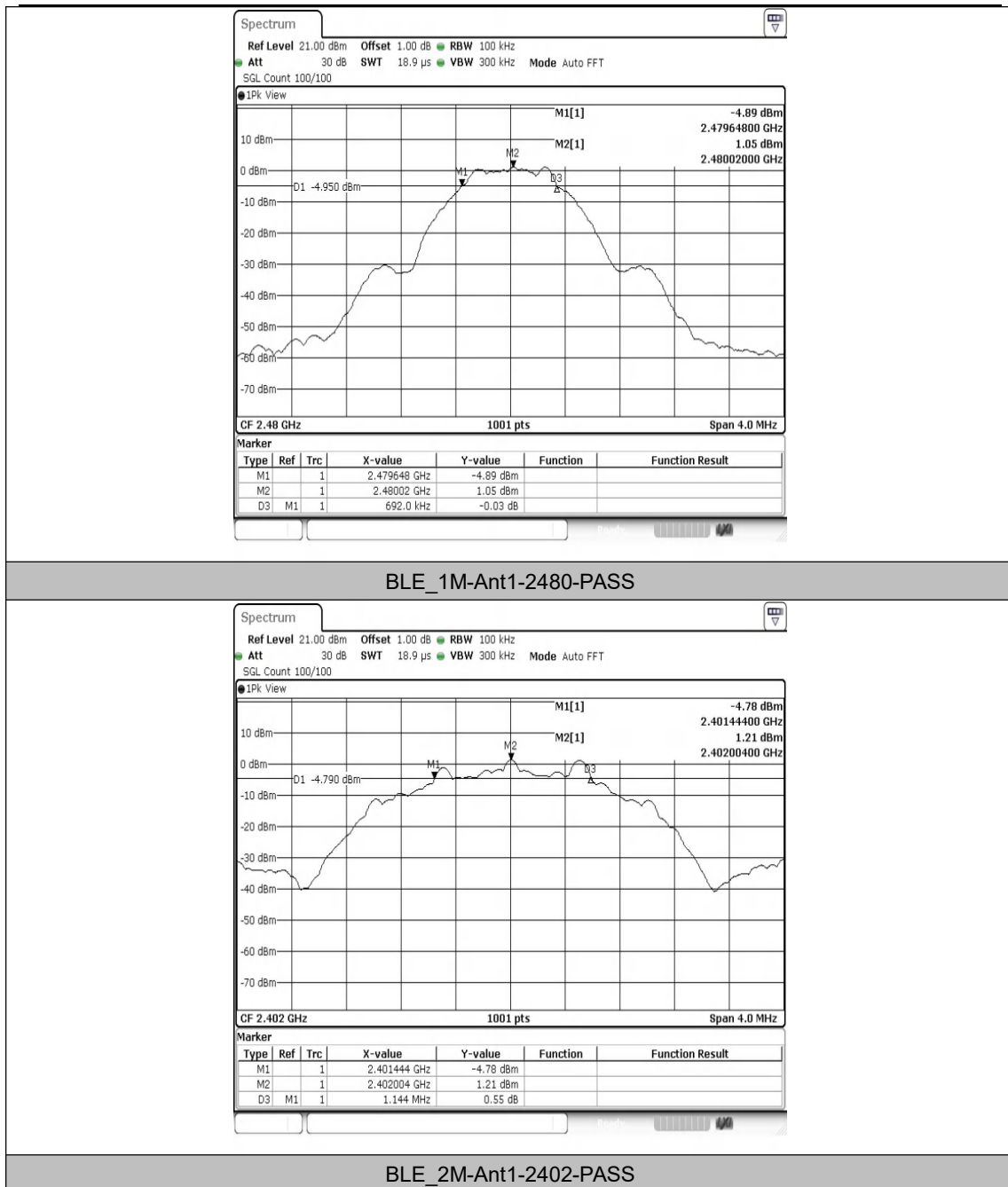
Appendix A: 6dB Bandwidth

Test Result

| Test Mode | Antenna | Frequency[MHz] | 6dB BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|---------|---------|------------|---------|
| BLE_1M | Ant1 | 2402 | 0.72 | 2401.64 | 2402.36 | 0.5 | PASS |
| BLE_1M | Ant1 | 2440 | 0.72 | 2439.64 | 2440.36 | 0.5 | PASS |
| BLE_1M | Ant1 | 2480 | 0.69 | 2479.65 | 2480.34 | 0.5 | PASS |
| BLE_2M | Ant1 | 2402 | 1.14 | 2401.44 | 2402.59 | 0.5 | PASS |
| BLE_2M | Ant1 | 2440 | 1.06 | 2439.50 | 2440.56 | 0.5 | PASS |
| BLE_2M | Ant1 | 2480 | 1.10 | 2479.46 | 2480.56 | 0.5 | PASS |

Test Graphs

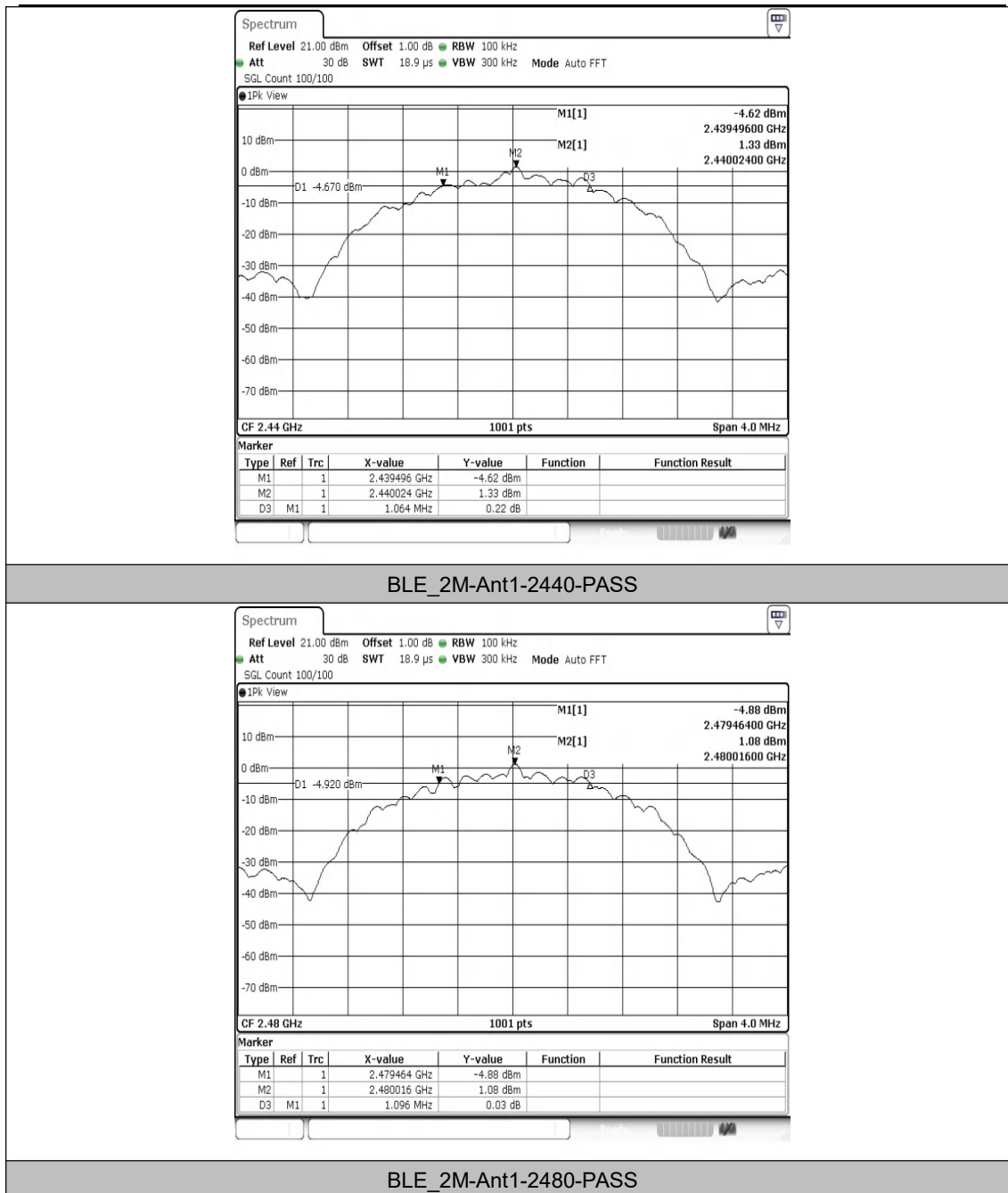




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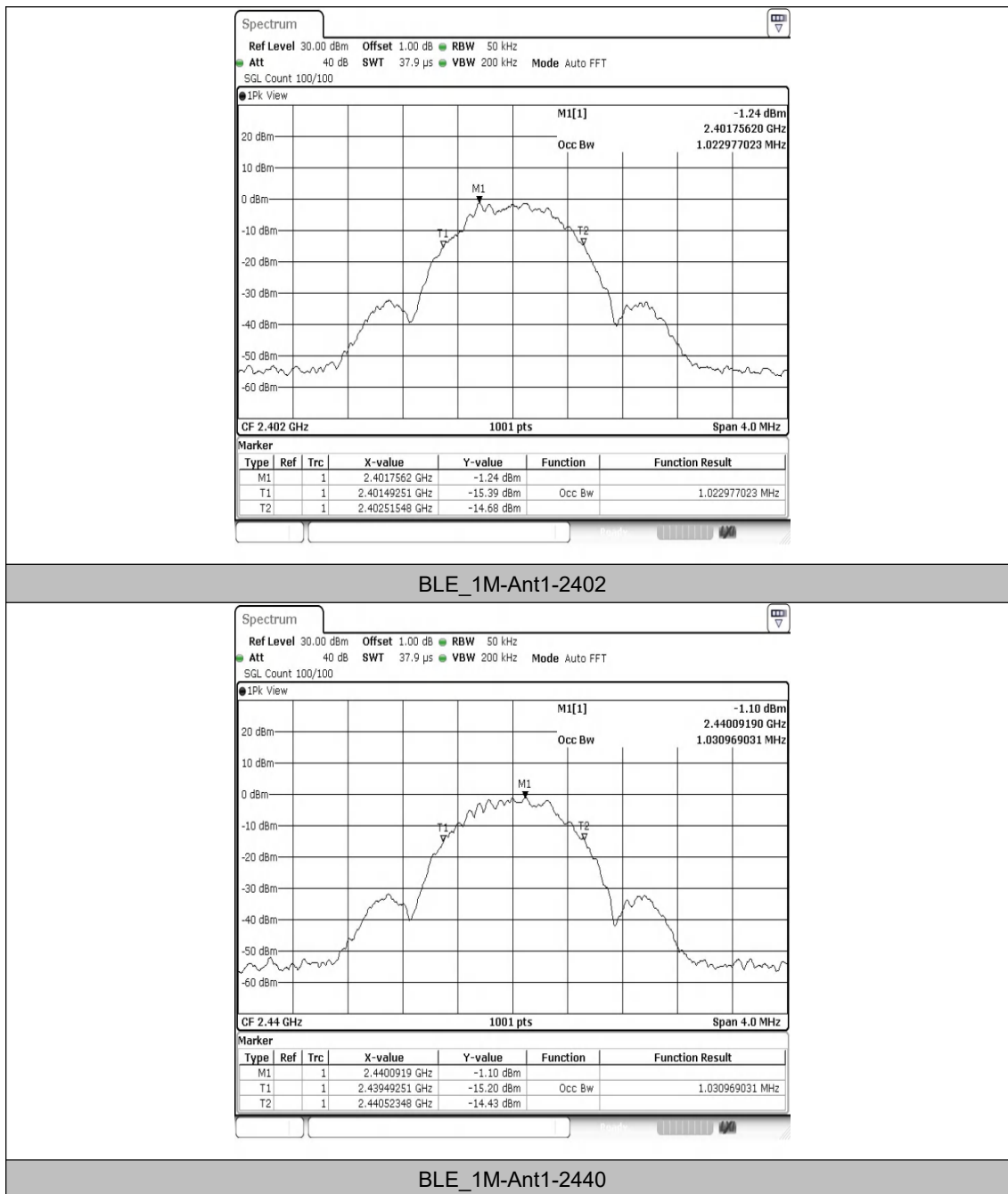


Appendix B: 99% Occupied Bandwidth

Test Result

| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| BLE_1M | Ant1 | 2402 | 1.0230 | 2401.4925 | 2402.5155 | --- | --- |
| BLE_1M | Ant1 | 2440 | 1.0310 | 2439.4925 | 2440.5235 | --- | --- |
| BLE_1M | Ant1 | 2480 | 1.0310 | 2479.4965 | 2480.5275 | --- | --- |
| BLE_2M | Ant1 | 2402 | 2.0460 | 2400.9970 | 2403.0430 | --- | --- |
| BLE_2M | Ant1 | 2440 | 2.0420 | 2439.0050 | 2441.0470 | --- | --- |
| BLE_2M | Ant1 | 2480 | 2.0500 | 2478.9970 | 2481.0470 | --- | --- |

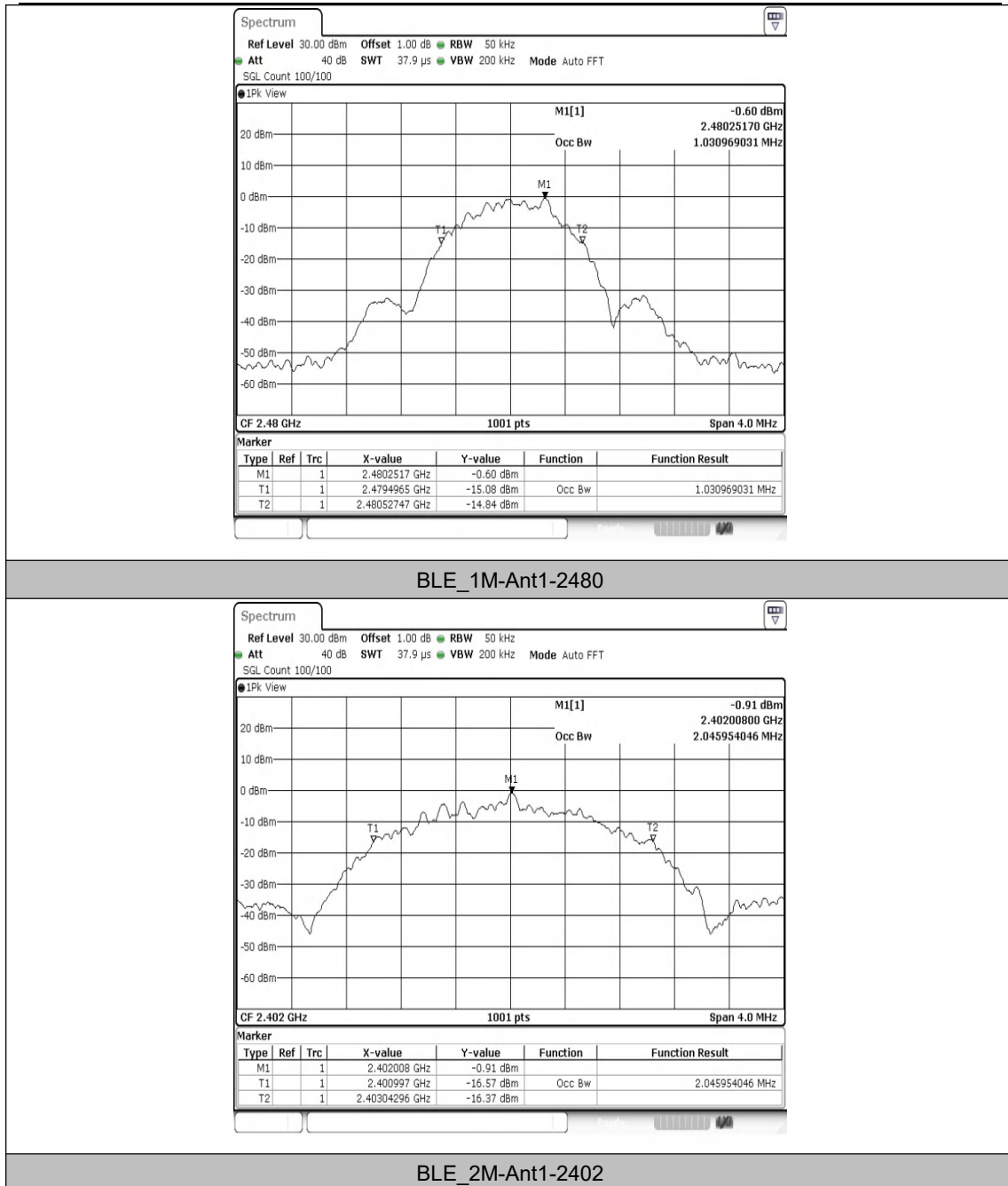
Test Graphs

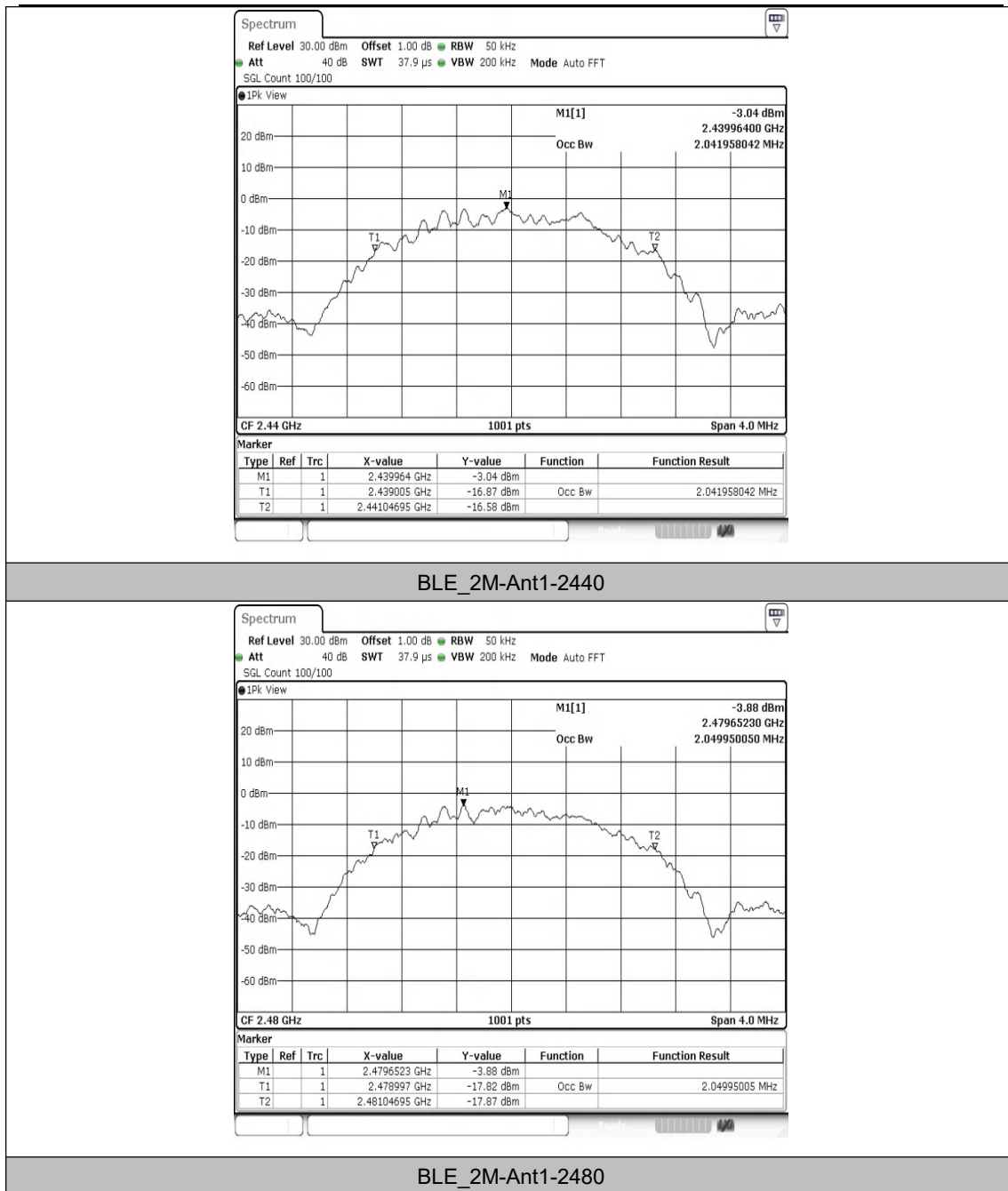


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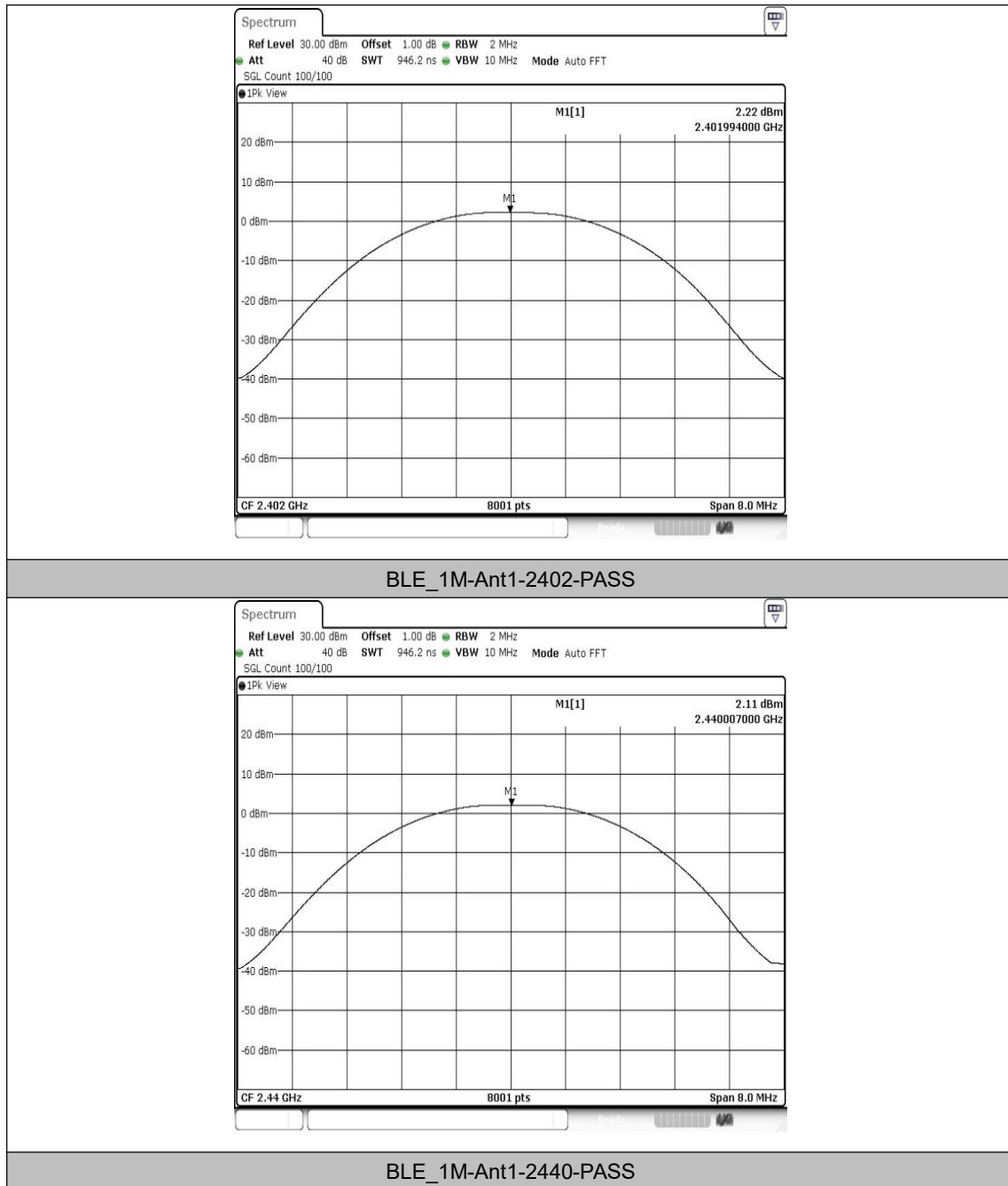


Appendix C: Maximum conducted output power

Test Result Peak

| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------------|---------------------------|----------------------|---------|
| BLE_1M | Ant1 | 2402 | 2.22 | ≤30 | PASS |
| BLE_1M | Ant1 | 2440 | 2.11 | ≤30 | PASS |
| BLE_1M | Ant1 | 2480 | 1.97 | ≤30 | PASS |
| BLE_2M | Ant1 | 2402 | 2.18 | ≤30 | PASS |
| BLE_2M | Ant1 | 2440 | 2.07 | ≤30 | PASS |
| BLE_2M | Ant1 | 2480 | 1.93 | ≤30 | PASS |

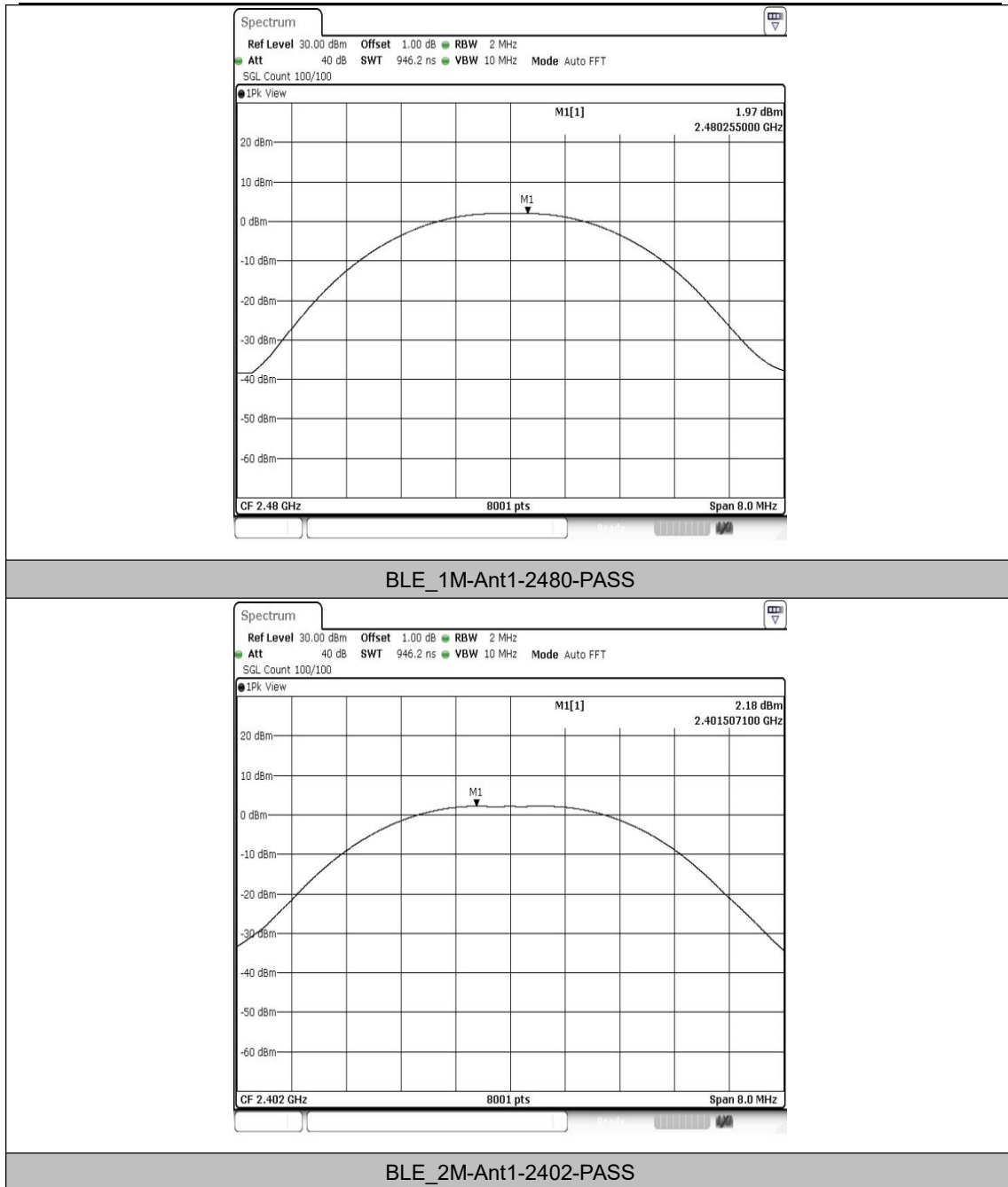
Test Graphs Peak



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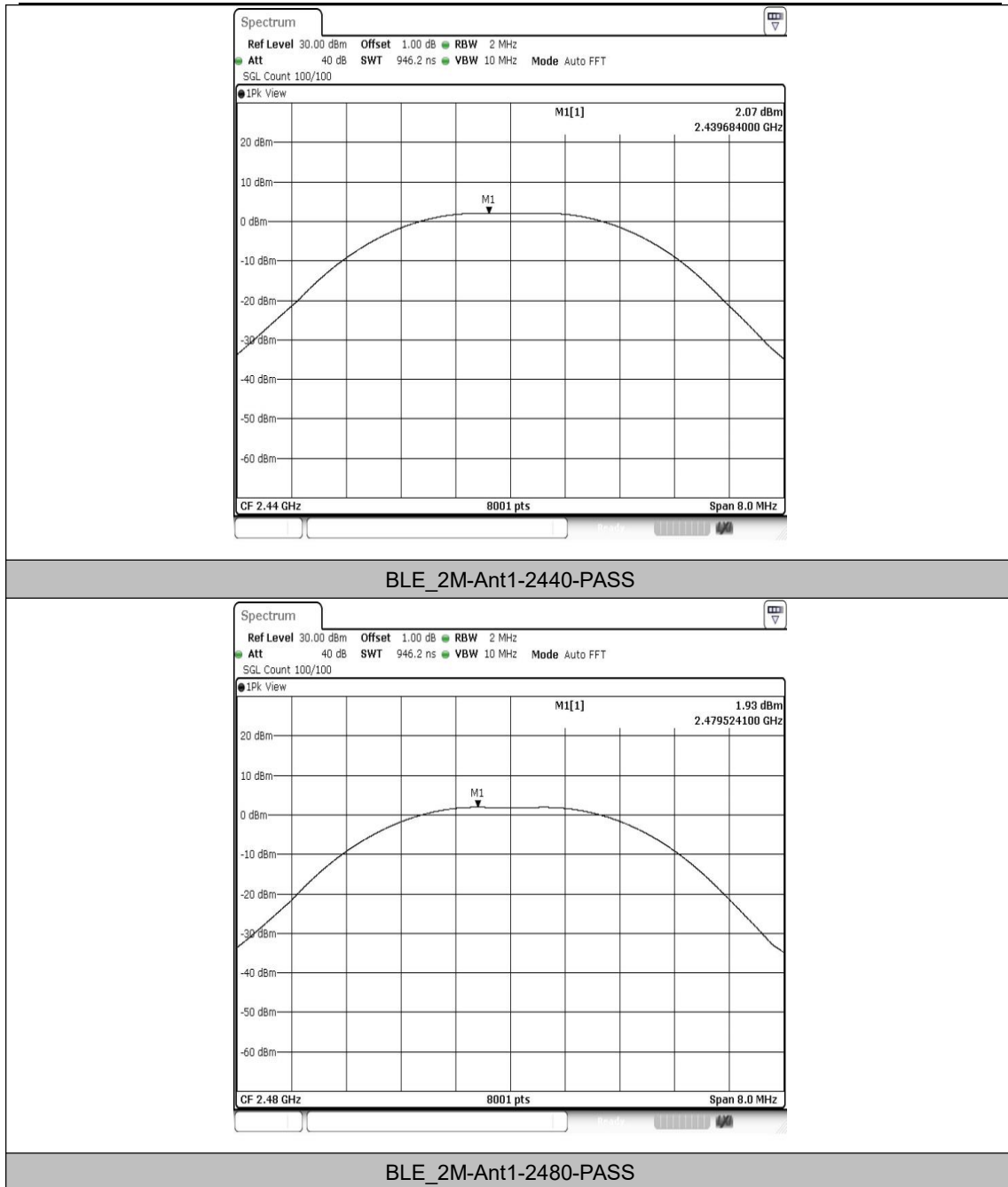
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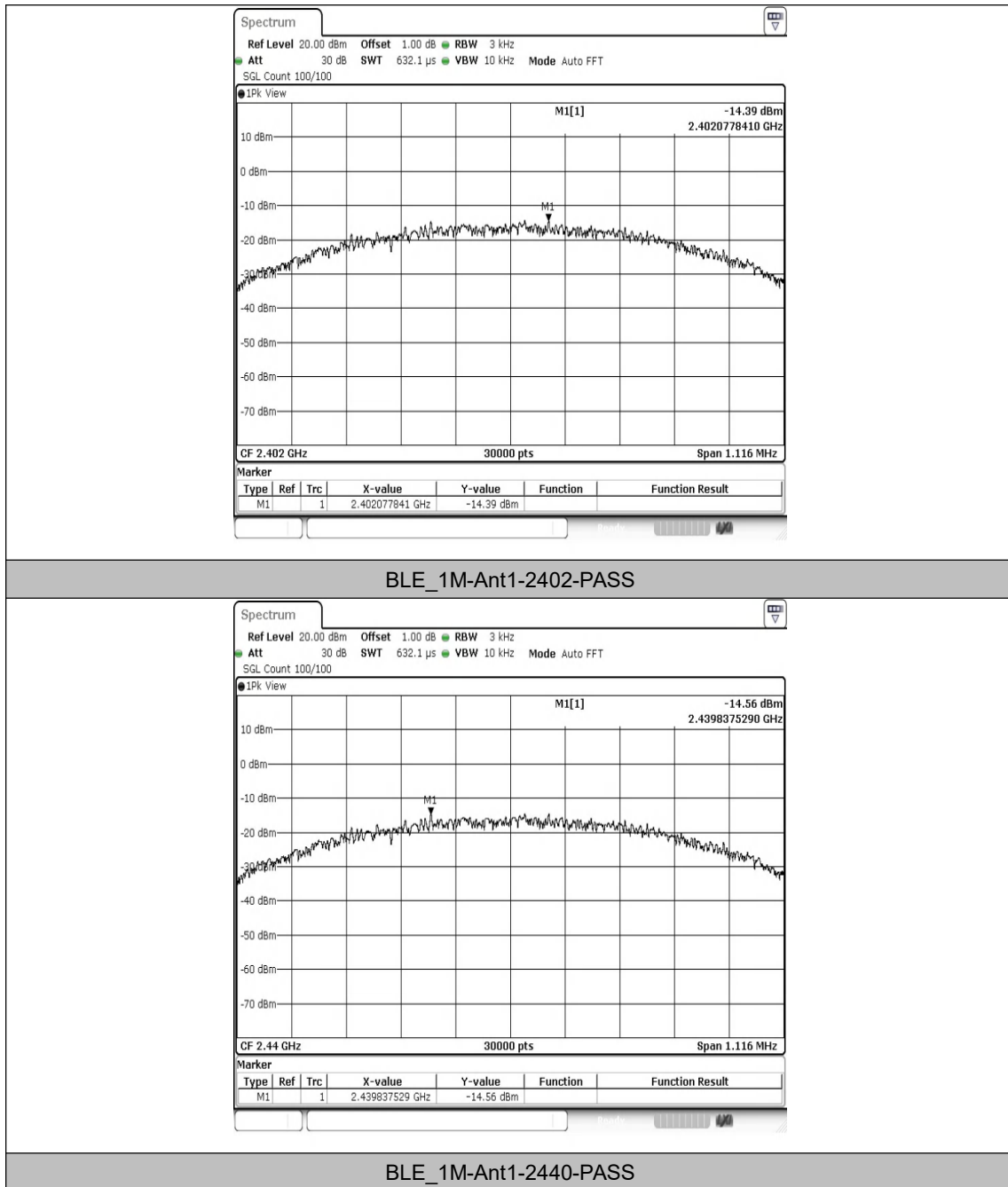
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Appendix D: Maximum power spectral density

Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M | Ant1 | 2402 | -14.39 | ≤8.00 | PASS |
| BLE_1M | Ant1 | 2440 | -14.56 | ≤8.00 | PASS |
| BLE_1M | Ant1 | 2480 | -14.81 | ≤8.00 | PASS |
| BLE_2M | Ant1 | 2402 | -17.45 | ≤8.00 | PASS |
| BLE_2M | Ant1 | 2440 | -17.58 | ≤8.00 | PASS |
| BLE_2M | Ant1 | 2480 | -17.66 | ≤8.00 | PASS |

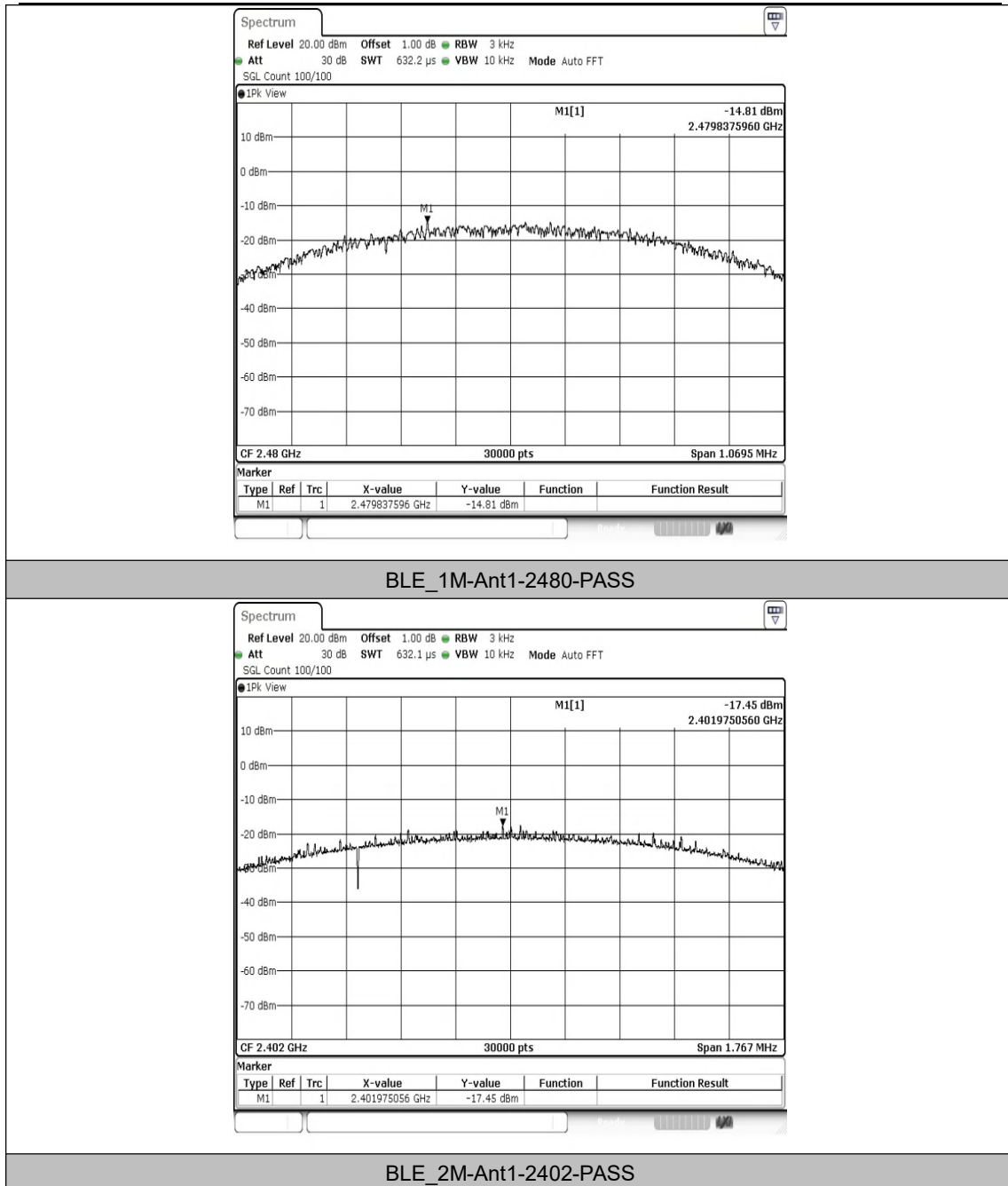
Test Graphs



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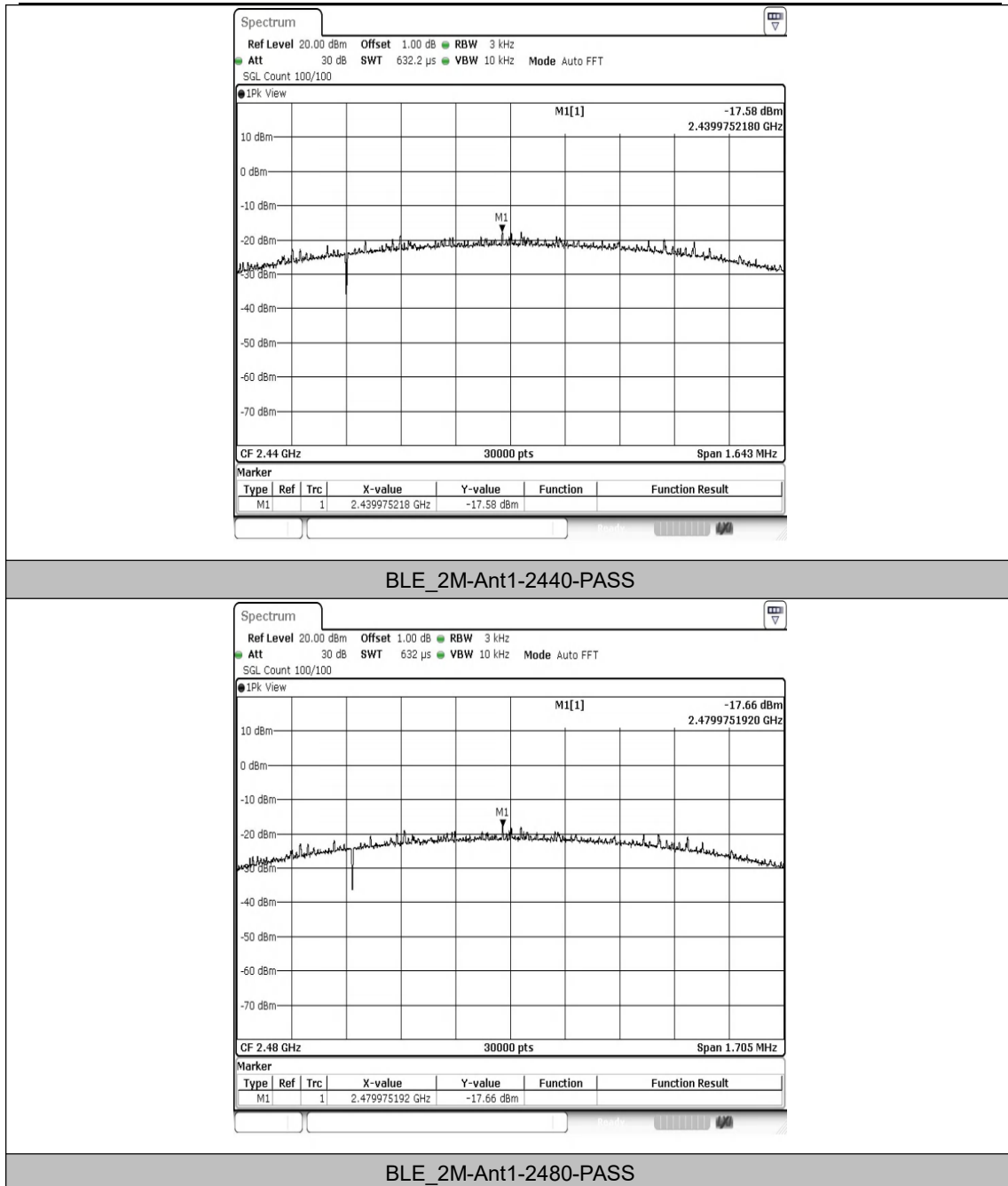
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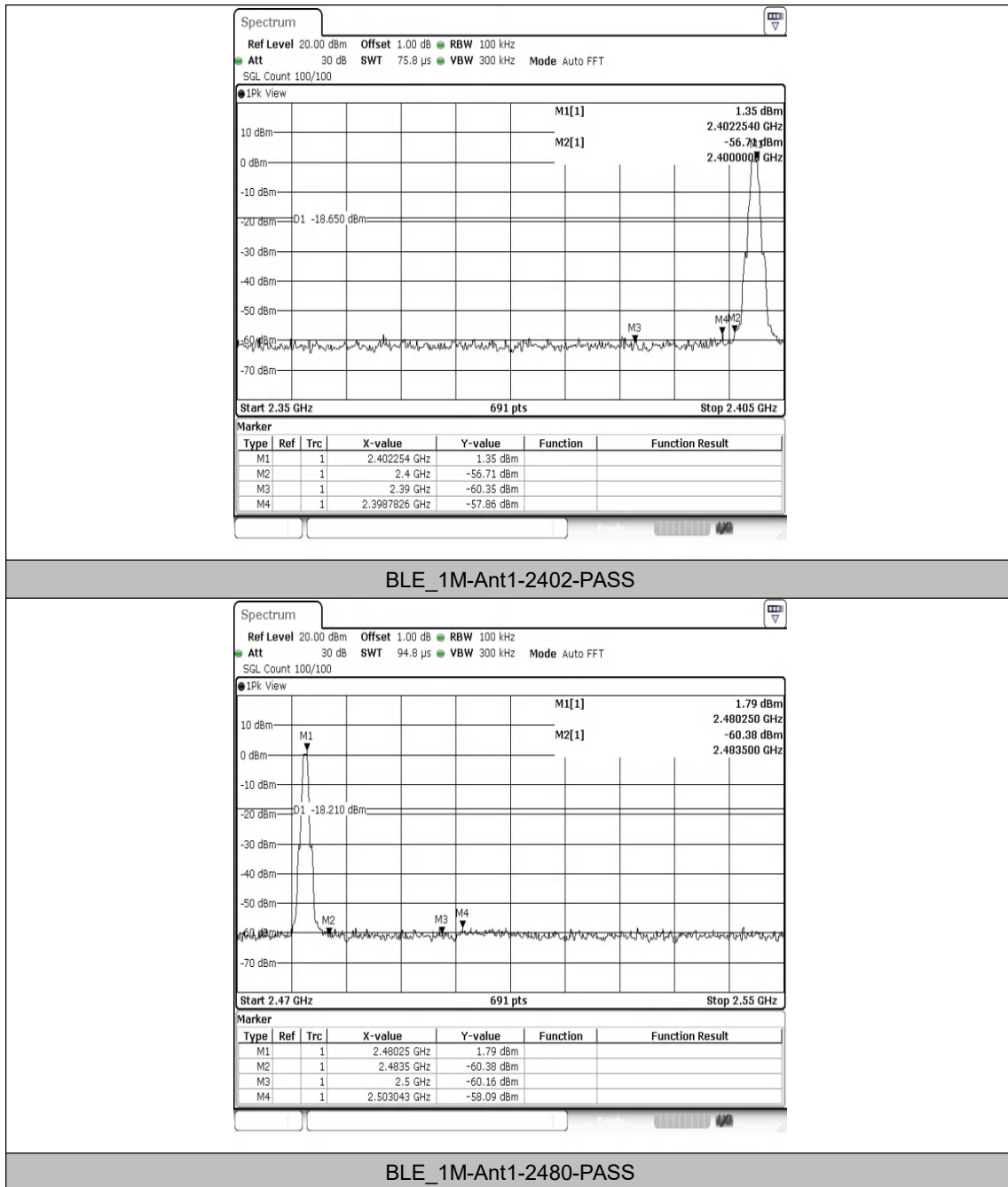
Appendix E: Band edge measurements

Test Result

| Test Mode | Antenna | ChName | Frequency [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|--------|-----------------|----------------|--------------|-------------|---------|
| BLE_1M | Ant1 | Low | 2402 | 1.35 | -57.86 | ≤-18.65 | PASS |
| BLE_1M | Ant1 | High | 2480 | 1.79 | -58.09 | ≤-18.21 | PASS |
| BLE_2M | Ant1 | Low | 2402 | -0.83 | -35.28 | ≤-20.83 | PASS |
| BLE_2M | Ant1 | High | 2480 | 1.19 | -57.21 | ≤-18.81 | 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.

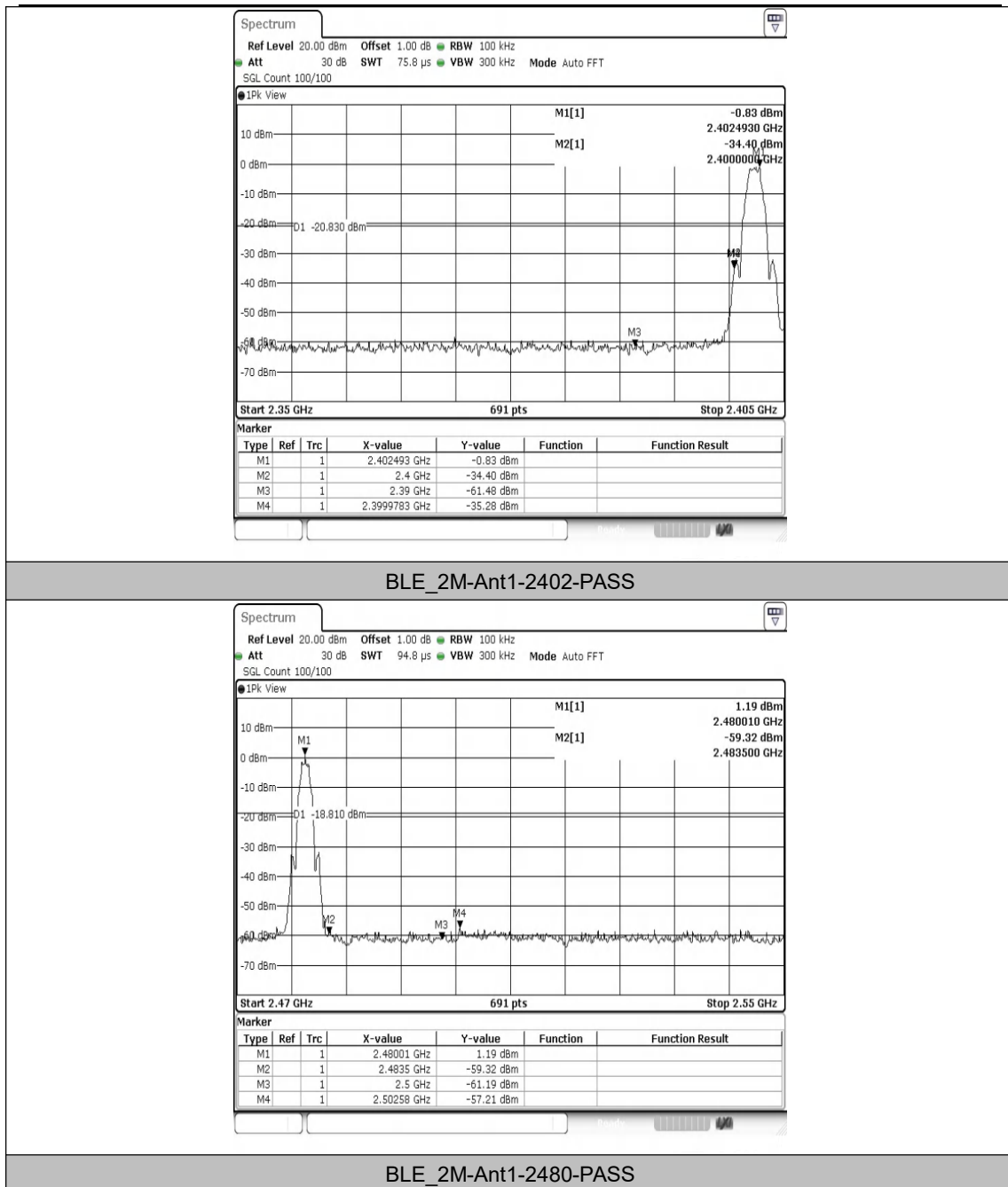
Test Graphs



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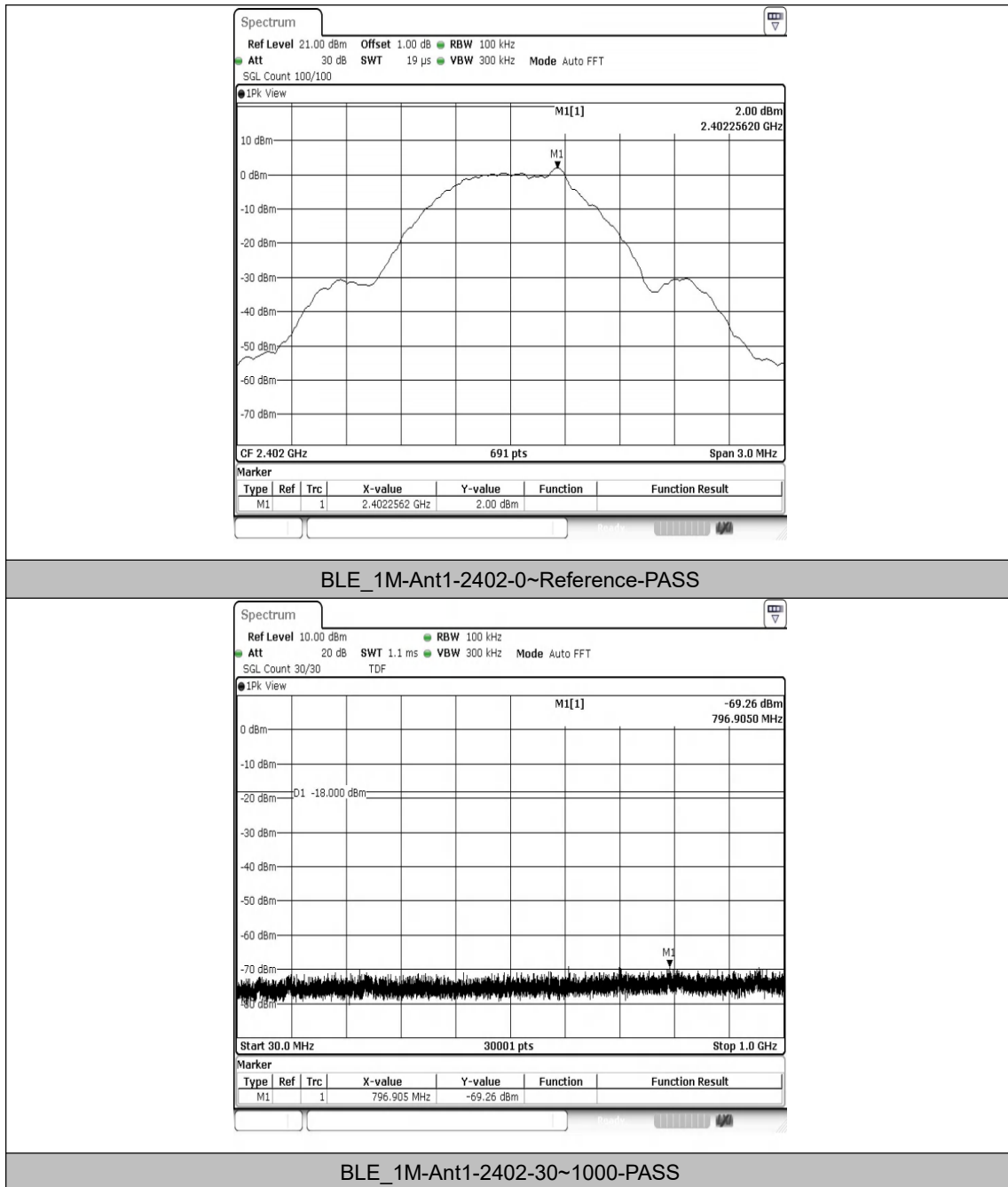
Appendix F: Conducted Spurious Emission

Test Result

| Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|--------------|-------------|---------|
| BLE_1M | Ant1 | 2402 | 0~Reference | 2.00 | 2.00 | --- | PASS |
| BLE_1M | Ant1 | 2402 | 30~1000 | 2.00 | -69.26 | ≤-18 | PASS |
| BLE_1M | Ant1 | 2402 | 1000~26500 | 2.00 | -51.83 | ≤-18 | PASS |
| BLE_1M | Ant1 | 2440 | 0~Reference | 0.63 | 0.63 | --- | PASS |
| BLE_1M | Ant1 | 2440 | 30~1000 | 0.63 | -68.49 | ≤-19.37 | PASS |
| BLE_1M | Ant1 | 2440 | 1000~26500 | 0.63 | -53.58 | ≤-19.37 | PASS |
| BLE_1M | Ant1 | 2480 | 0~Reference | 1.07 | 1.07 | --- | PASS |
| BLE_1M | Ant1 | 2480 | 30~1000 | 1.07 | -67.84 | ≤-18.93 | PASS |
| BLE_1M | Ant1 | 2480 | 1000~26500 | 1.07 | -53.2 | ≤-18.93 | PASS |
| BLE_2M | Ant1 | 2402 | 0~Reference | 0.94 | 0.94 | --- | PASS |
| BLE_2M | Ant1 | 2402 | 30~1000 | 0.94 | -69.13 | ≤-19.06 | PASS |
| BLE_2M | Ant1 | 2402 | 1000~26500 | 0.94 | -51.83 | ≤-19.06 | PASS |
| BLE_2M | Ant1 | 2440 | 0~Reference | -1.28 | -1.28 | --- | PASS |
| BLE_2M | Ant1 | 2440 | 30~1000 | -1.28 | -68.23 | ≤-21.28 | PASS |
| BLE_2M | Ant1 | 2440 | 1000~26500 | -1.28 | -52.09 | ≤-21.28 | PASS |
| BLE_2M | Ant1 | 2480 | 0~Reference | -1.45 | -1.45 | --- | PASS |
| BLE_2M | Ant1 | 2480 | 30~1000 | -1.45 | -68.9 | ≤-21.45 | PASS |
| BLE_2M | Ant1 | 2480 | 1000~26500 | -1.45 | -54.25 | ≤-21.45 | PASS |

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

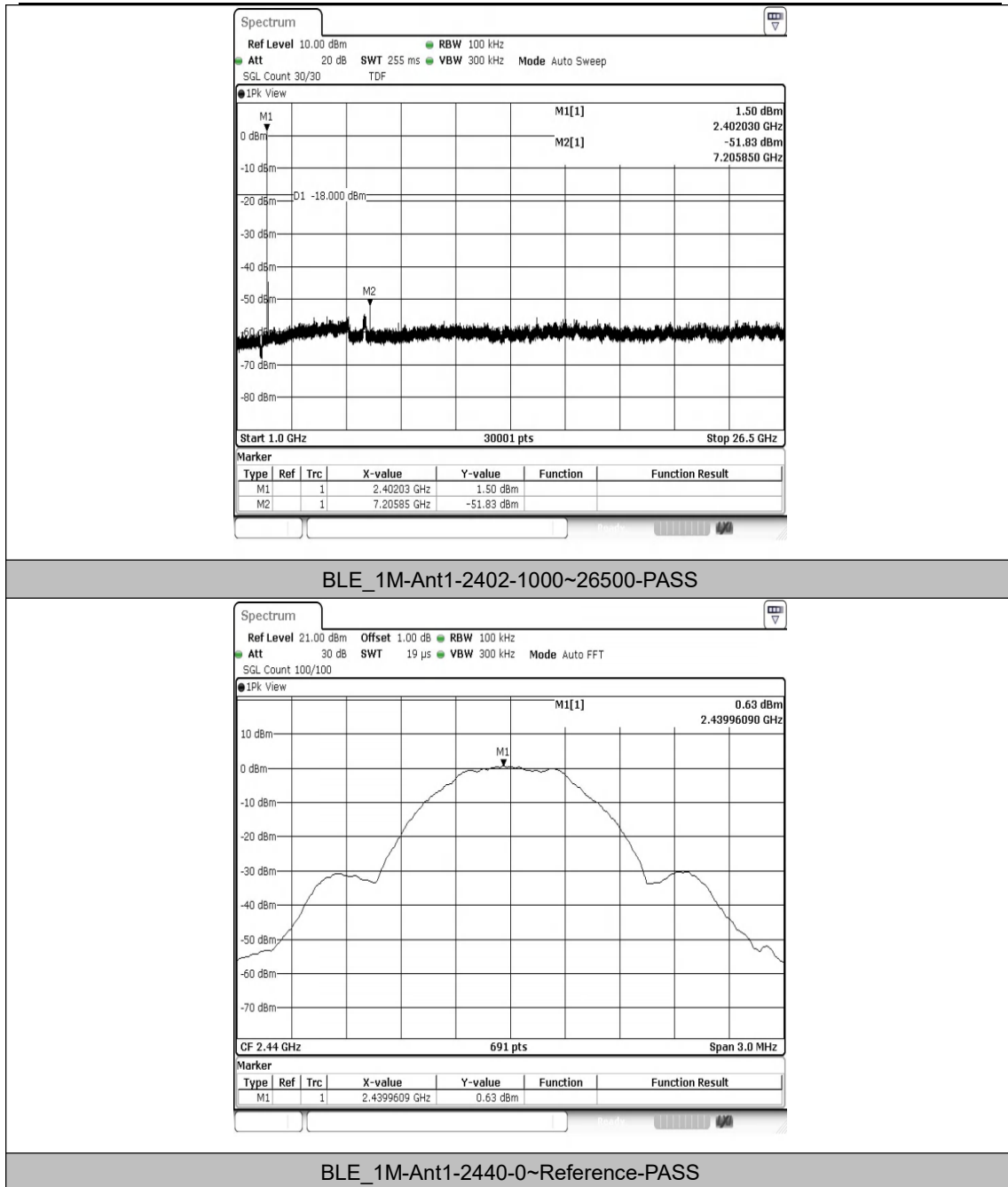
Test Graphs



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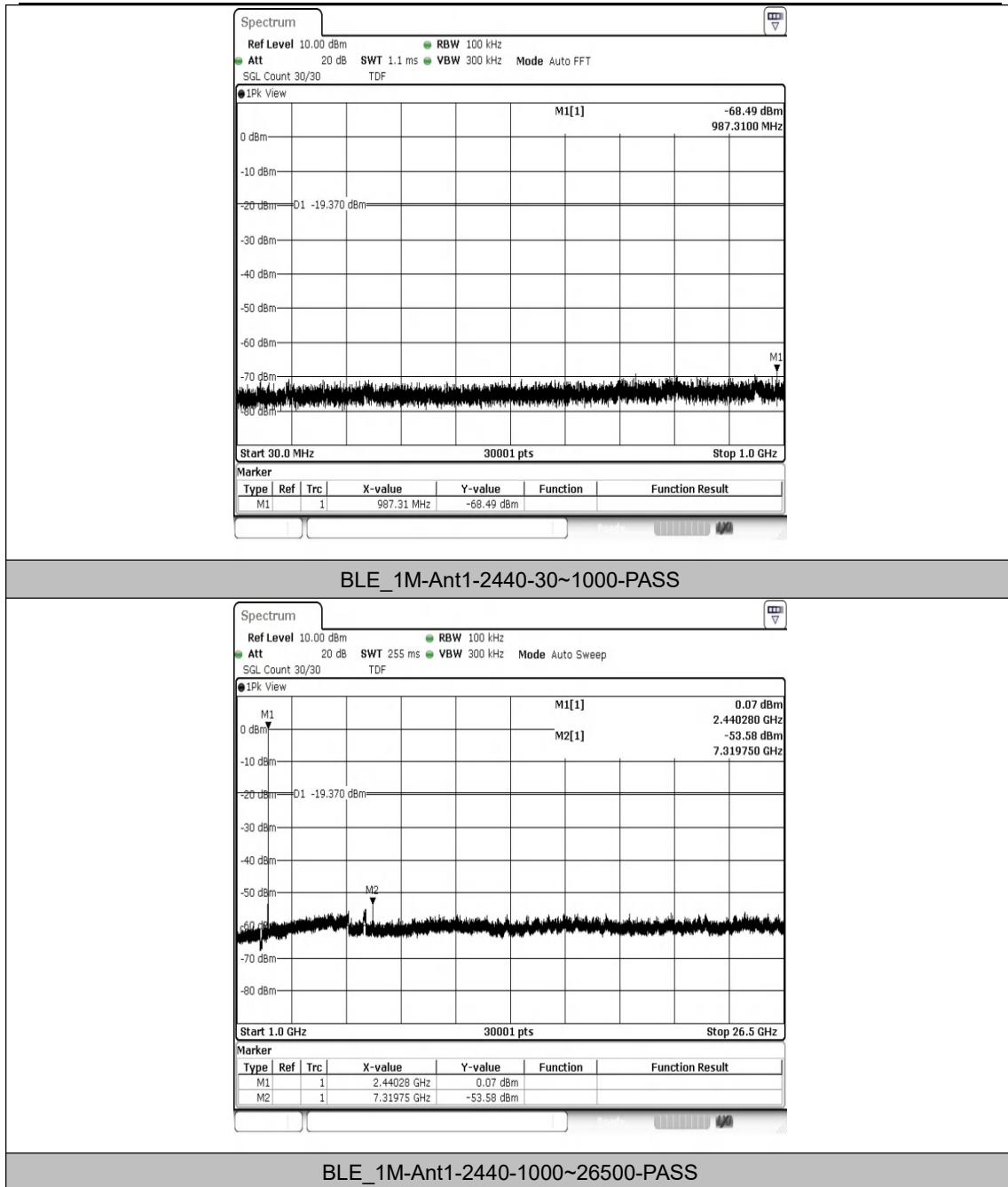
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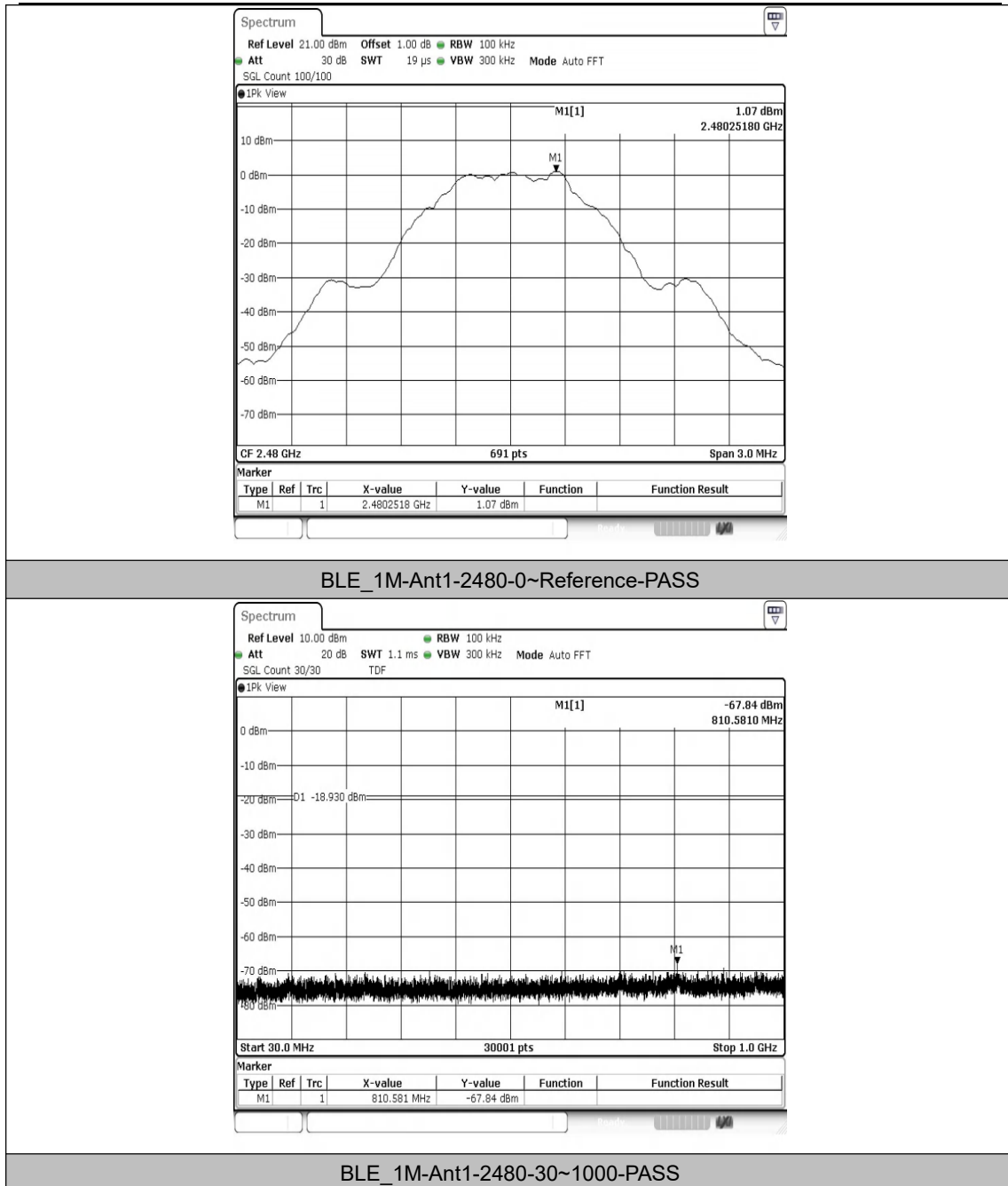
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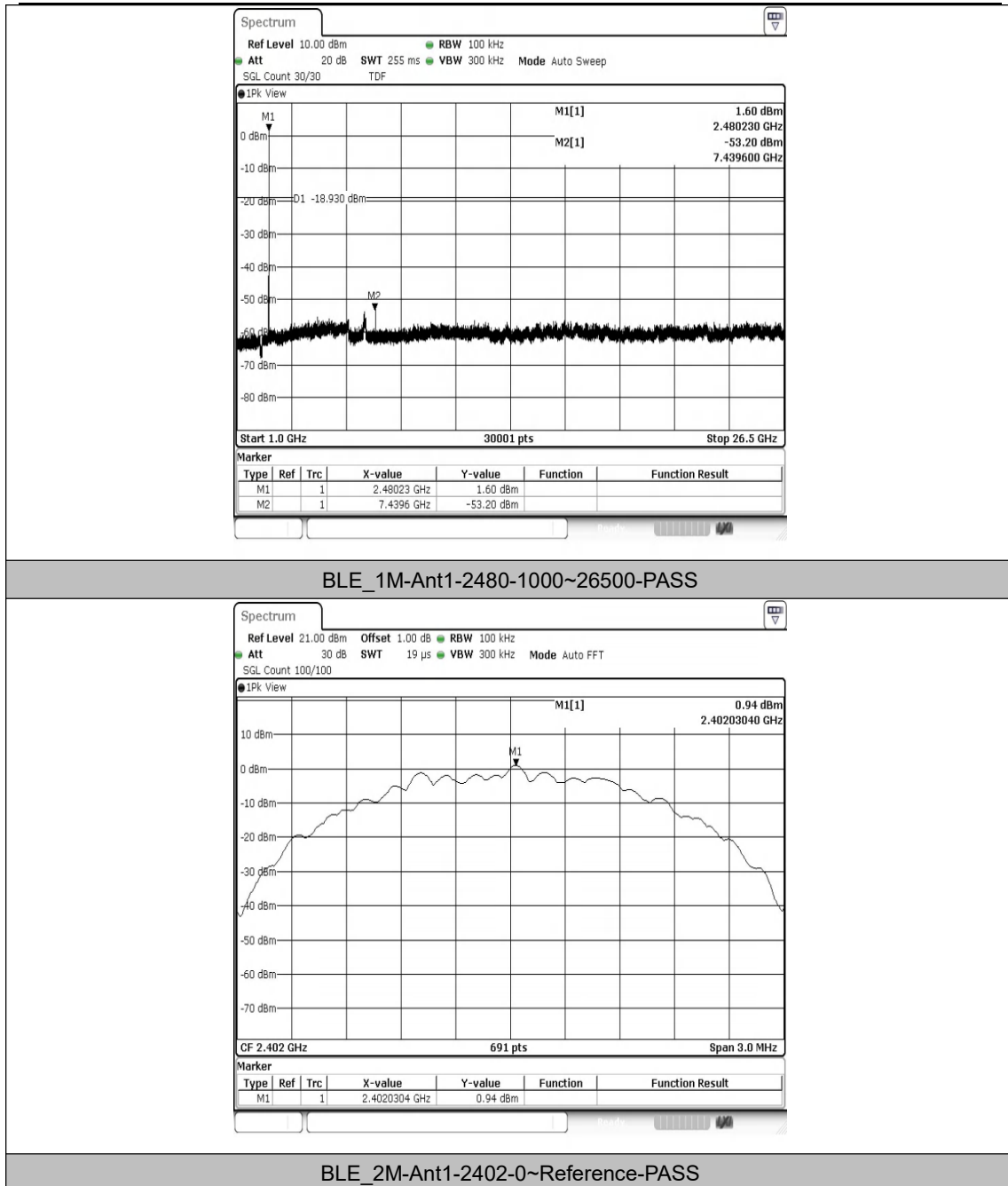
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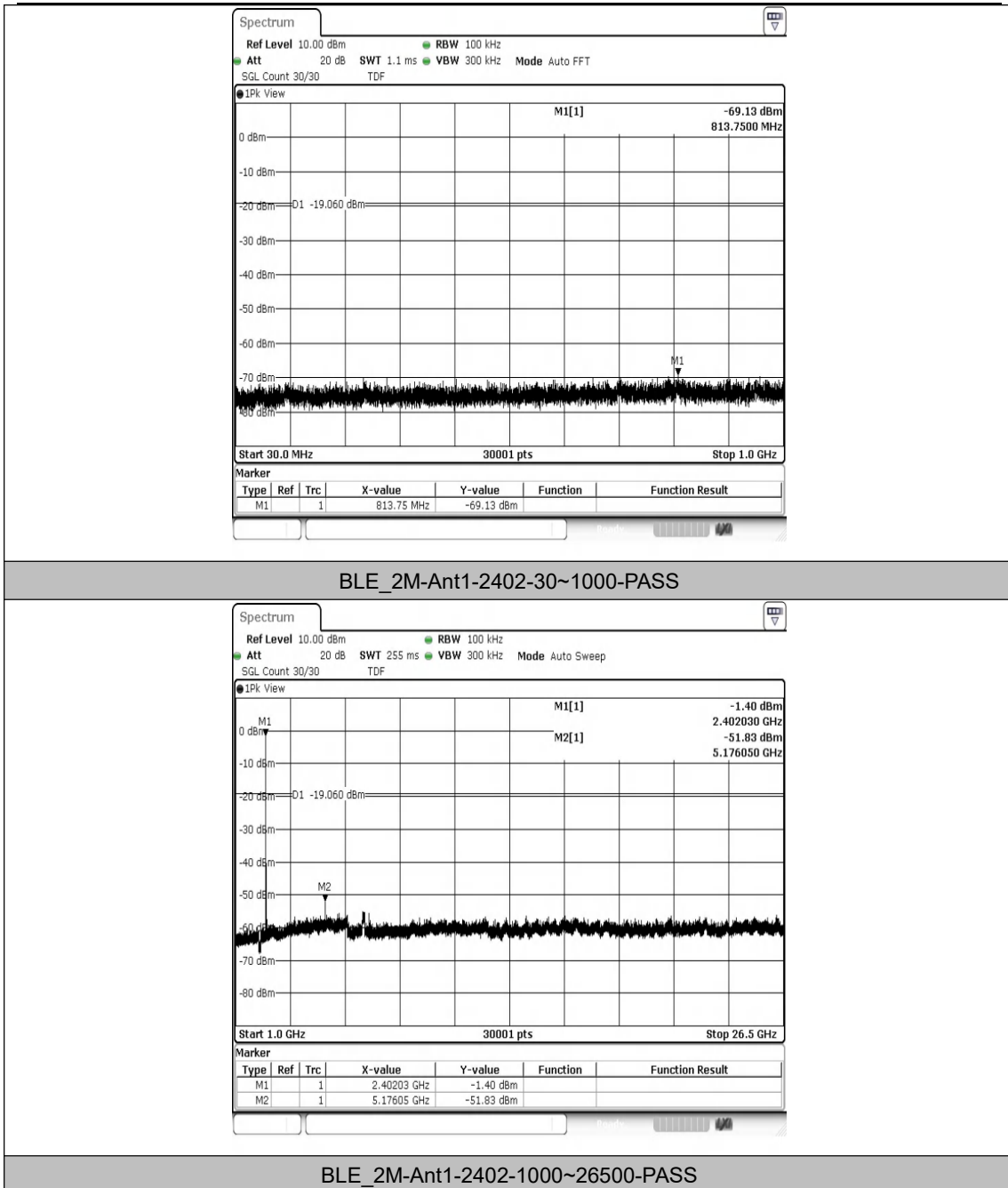
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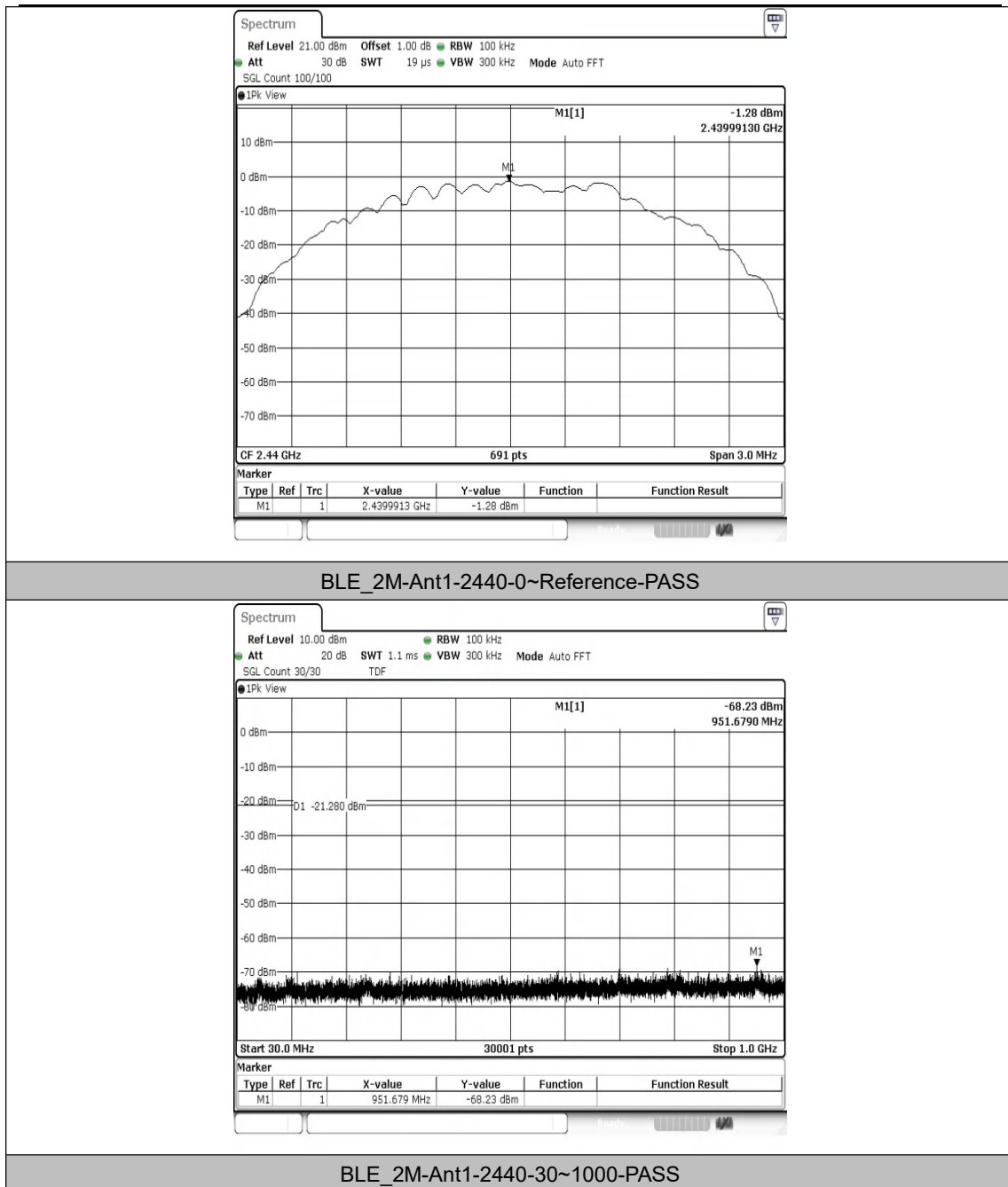
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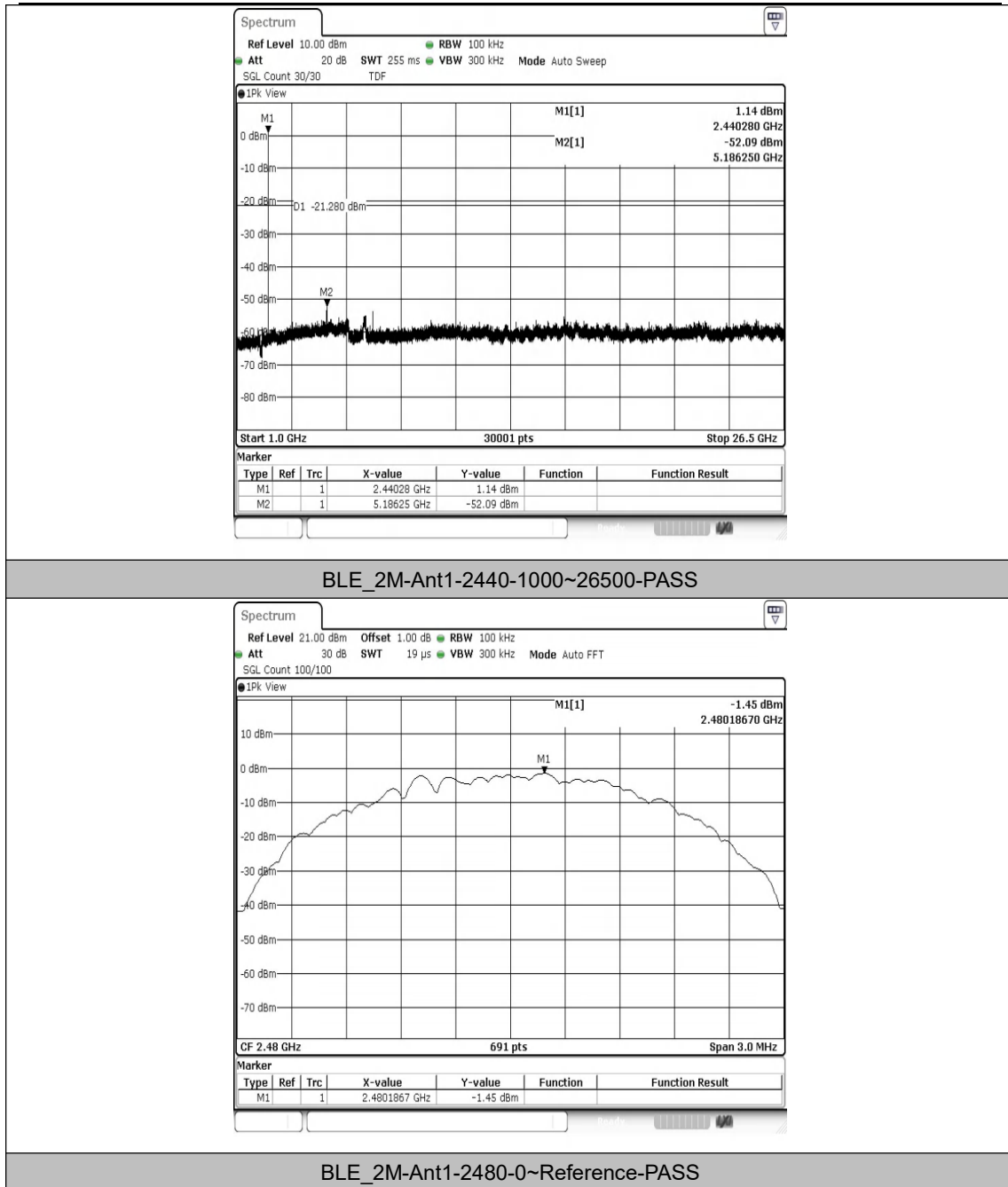
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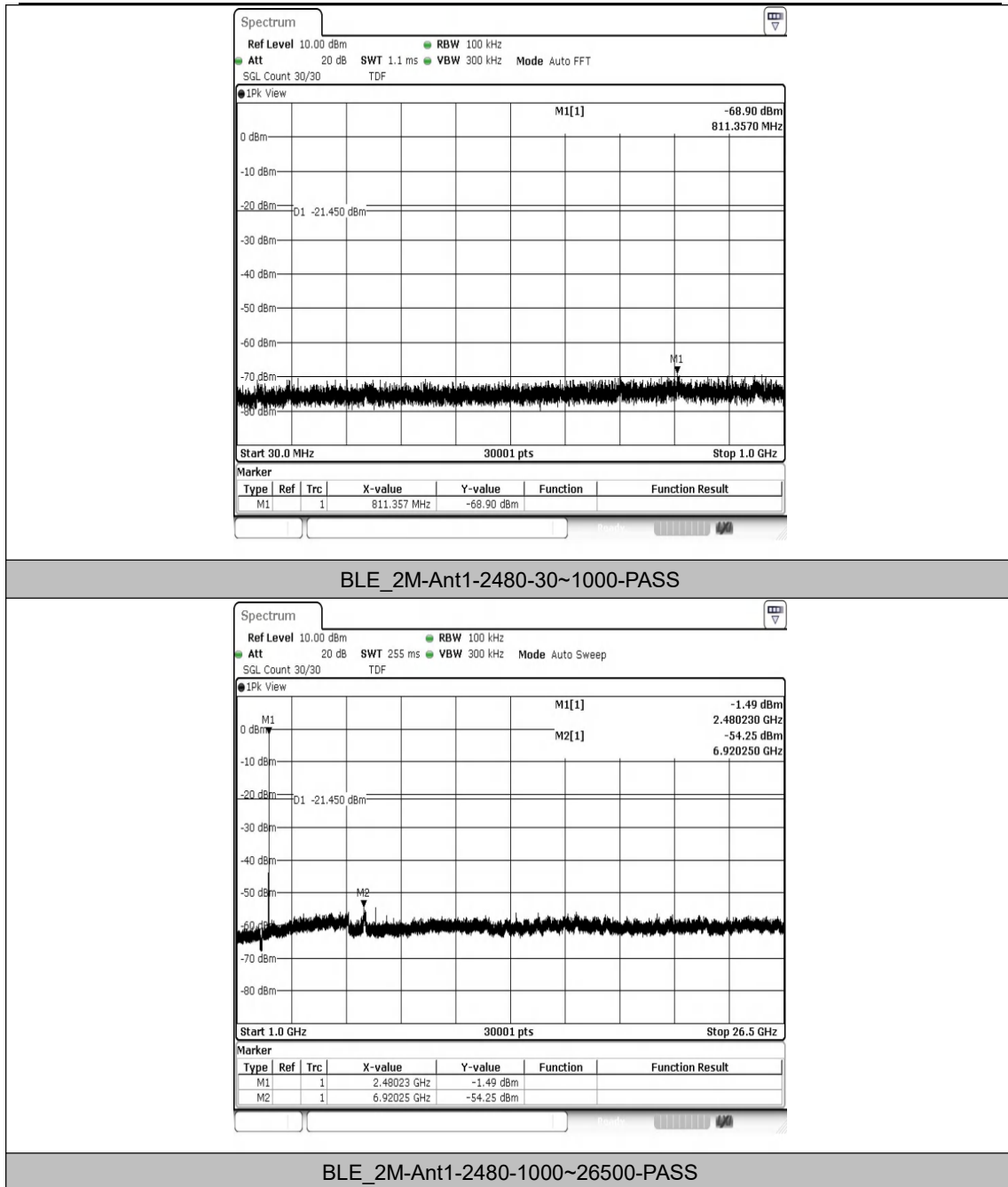
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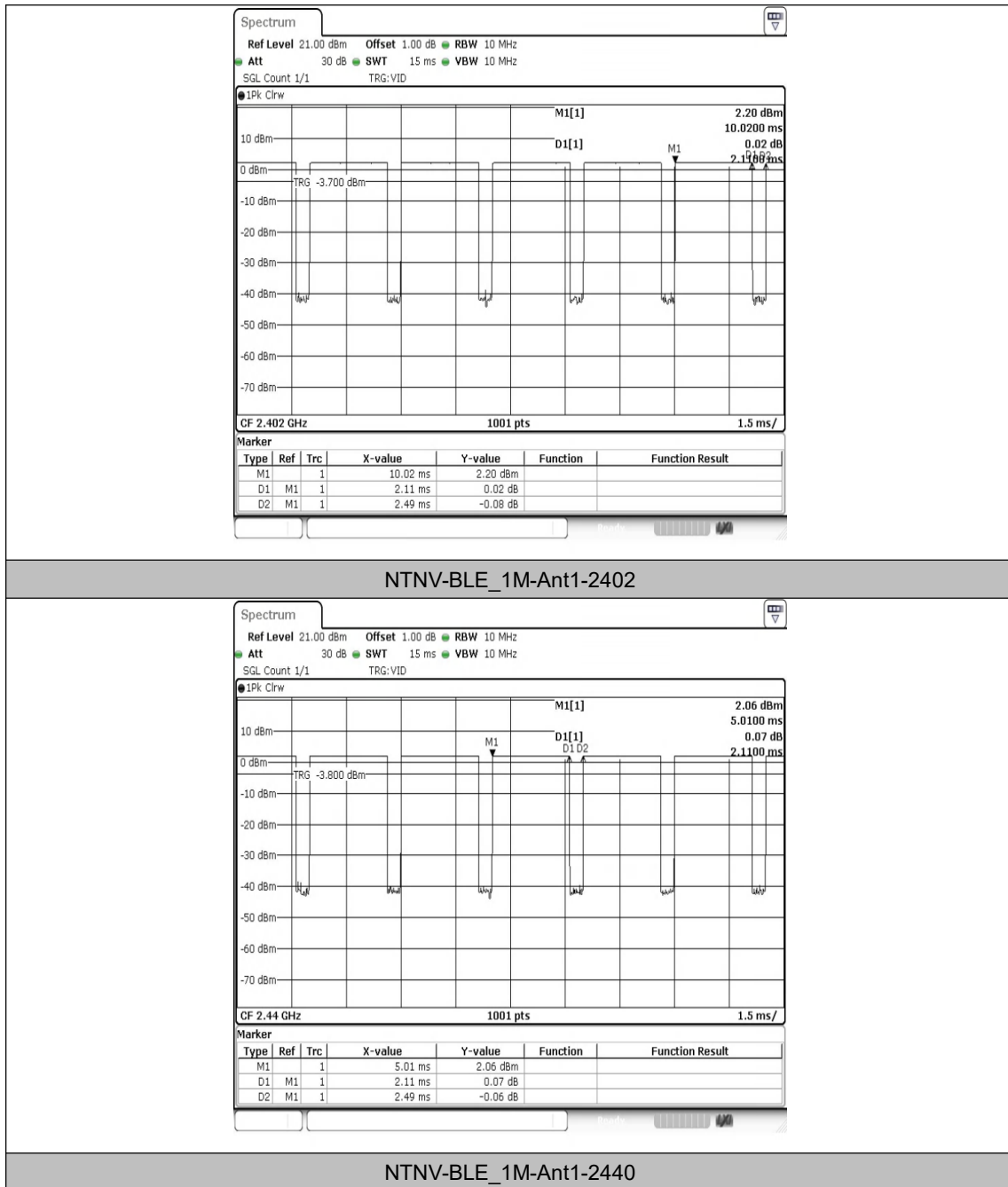
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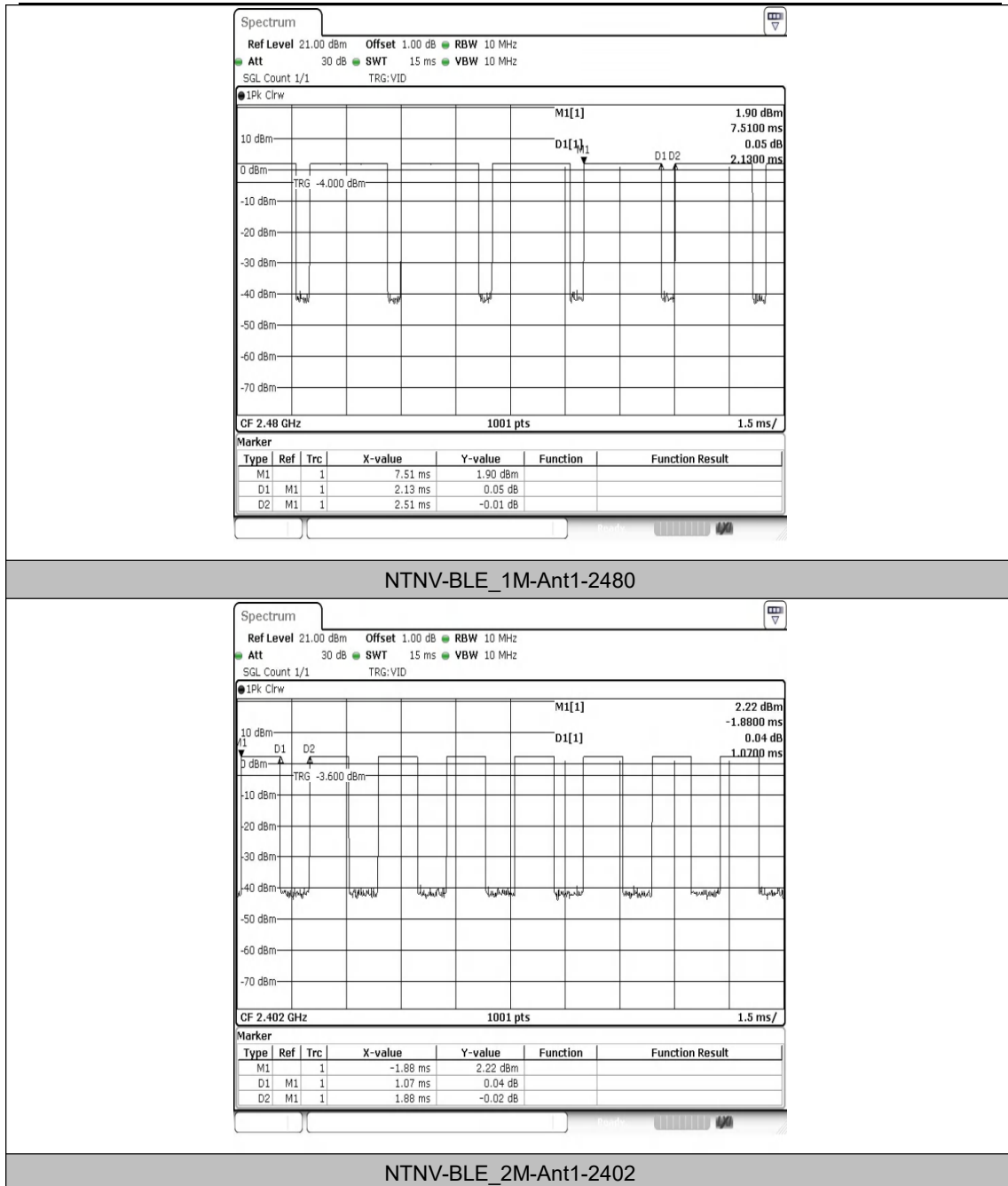
Appendix G: Duty Cycle

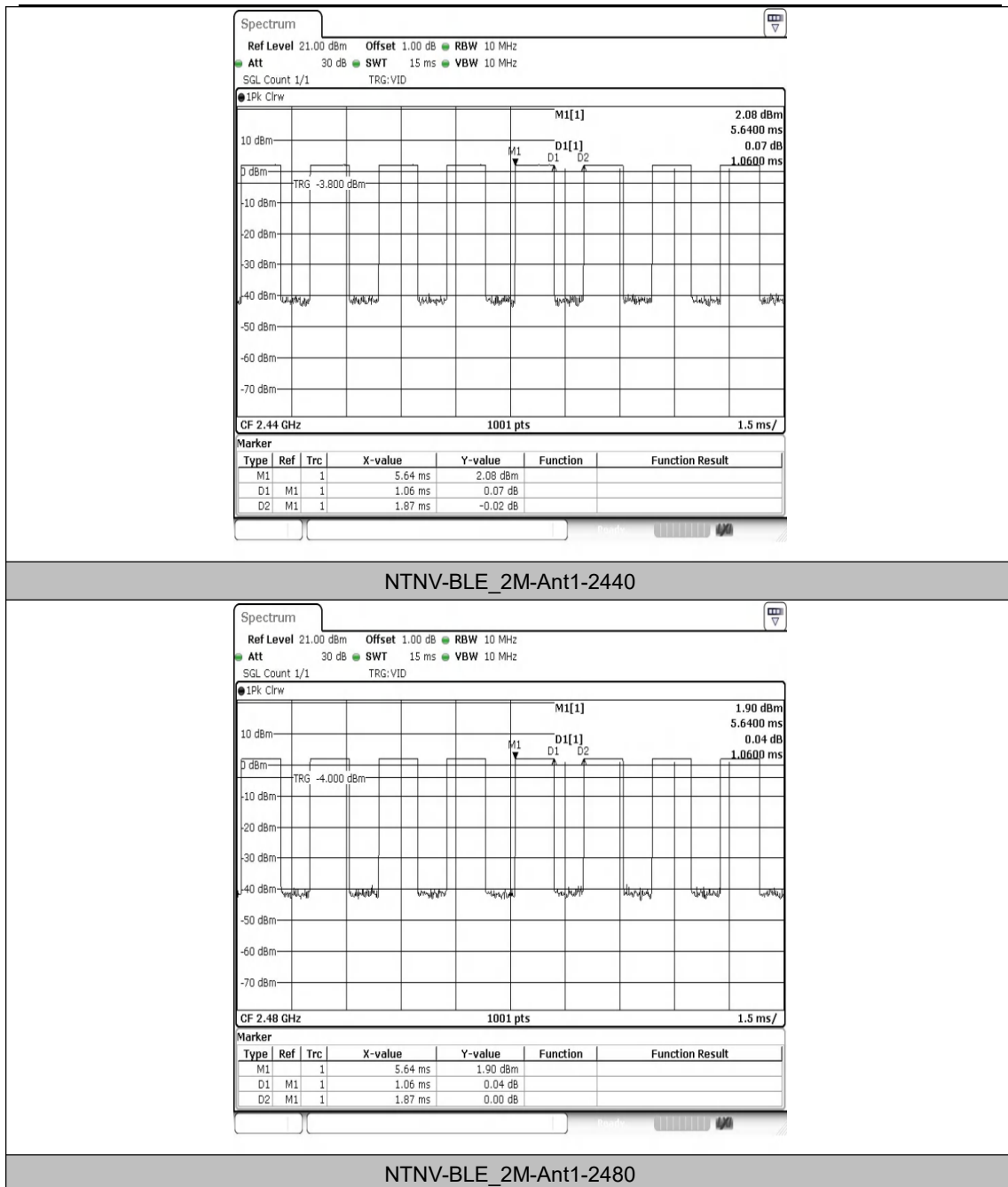
Test Result

| Test Mode | Antenna | Frequency [MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|-----------|---------|-----------------|--------------|-------------|----------------|-----------------------|
| BLE_1M | Ant1 | 2402 | 2.11 | 2.49 | 84.74 | 0.72 |
| BLE_1M | Ant1 | 2440 | 2.11 | 2.49 | 84.74 | 0.72 |
| BLE_1M | Ant1 | 2480 | 2.13 | 2.51 | 84.86 | 0.71 |
| BLE_2M | Ant1 | 2402 | 1.07 | 1.88 | 56.91 | 2.45 |
| BLE_2M | Ant1 | 2440 | 1.06 | 1.87 | 56.68 | 2.47 |
| BLE_2M | Ant1 | 2480 | 1.06 | 1.87 | 56.68 | 2.47 |

Test Graphs







---End---