

Appendix Test Data

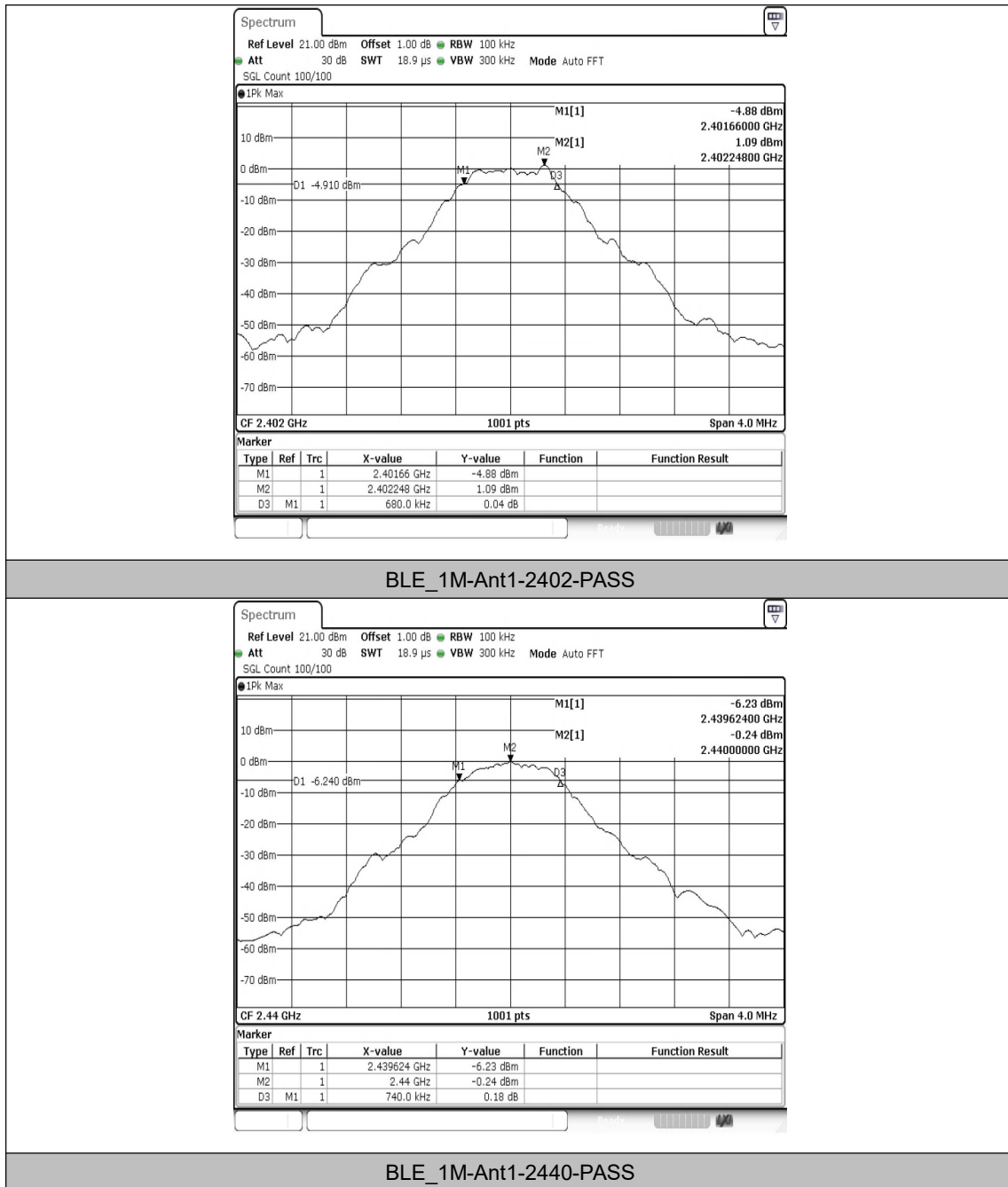
Report No.:	1812C50351512502	Test Sample No.:	1-2-2
Start Test Date:	2025-7-18	Finish Test Date:	2025-7-21
Test Engineer:	<i>dylan. Ma</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.1°C	Relative Humidity:	66%
Pressure:	101kPa		

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	0.68	2401.66	2402.34	0.5	PASS
BLE_1M	Ant1	2440	0.74	2439.62	2440.36	0.5	PASS
BLE_1M	Ant1	2480	0.70	2479.66	2480.36	0.5	PASS
BLE_2M	Ant1	2402	1.13	2401.42	2402.55	0.5	PASS
BLE_2M	Ant1	2440	1.20	2439.43	2440.64	0.5	PASS
BLE_2M	Ant1	2480	1.22	2479.40	2480.62	0.5	PASS

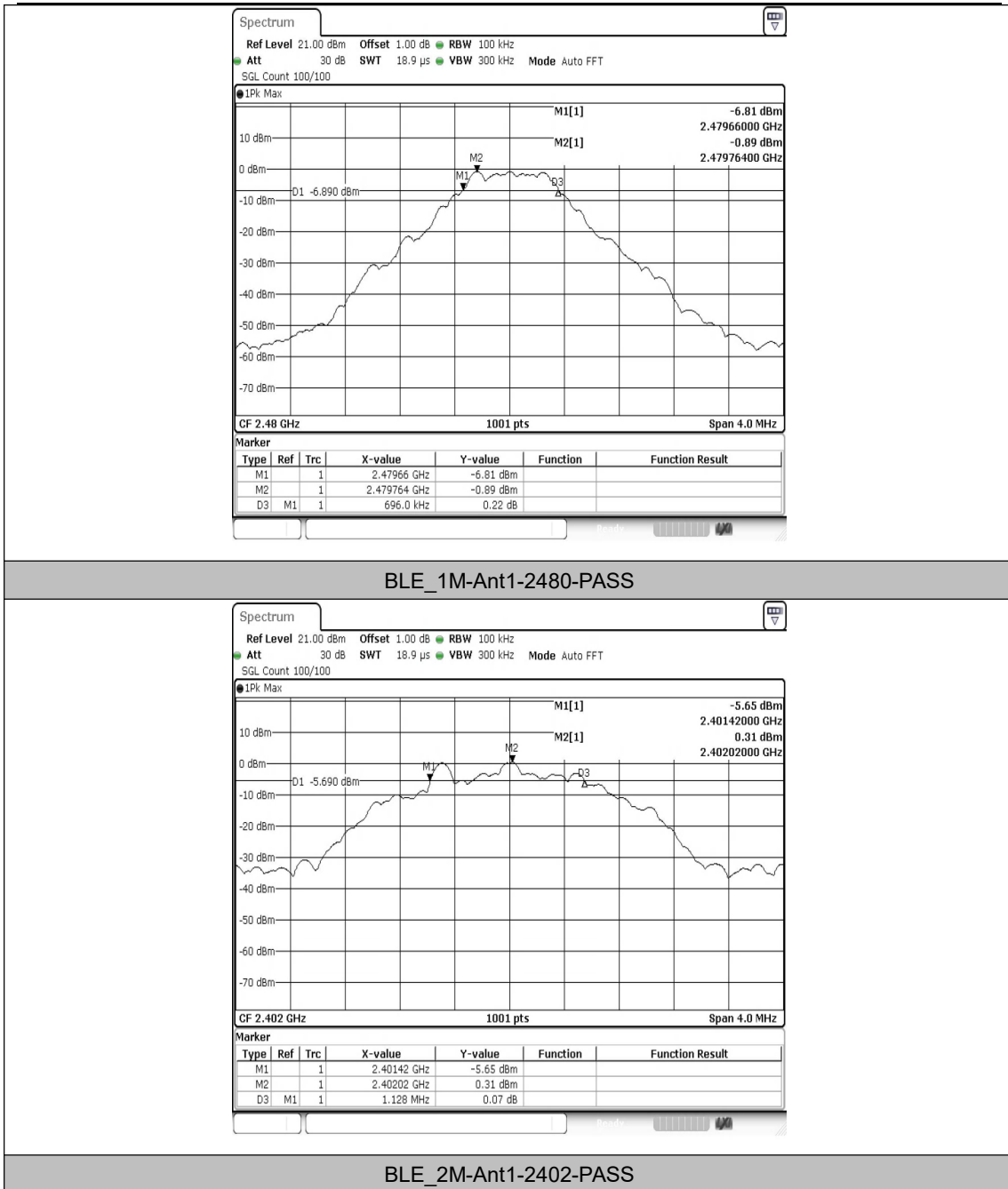
Test Graphs



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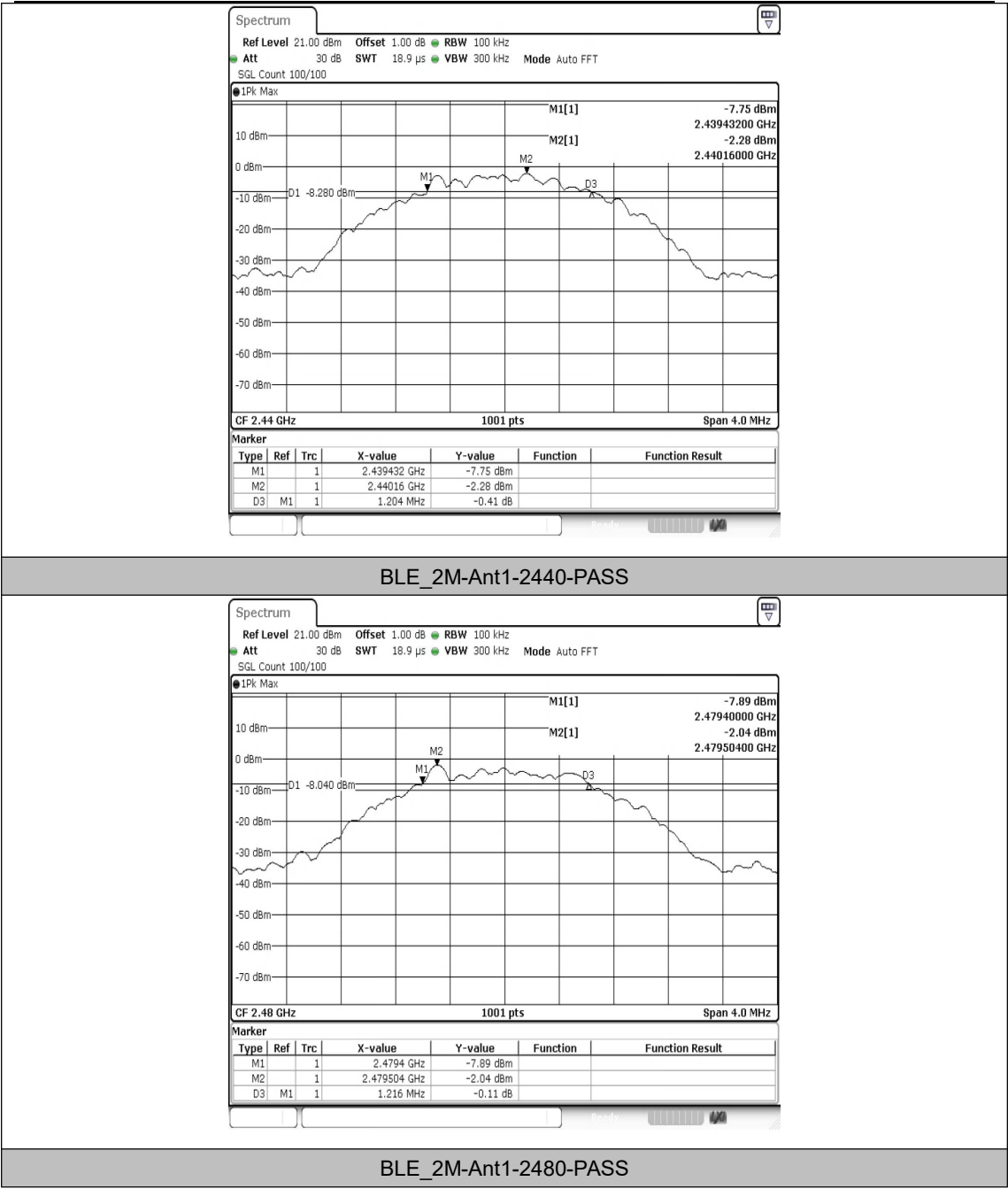
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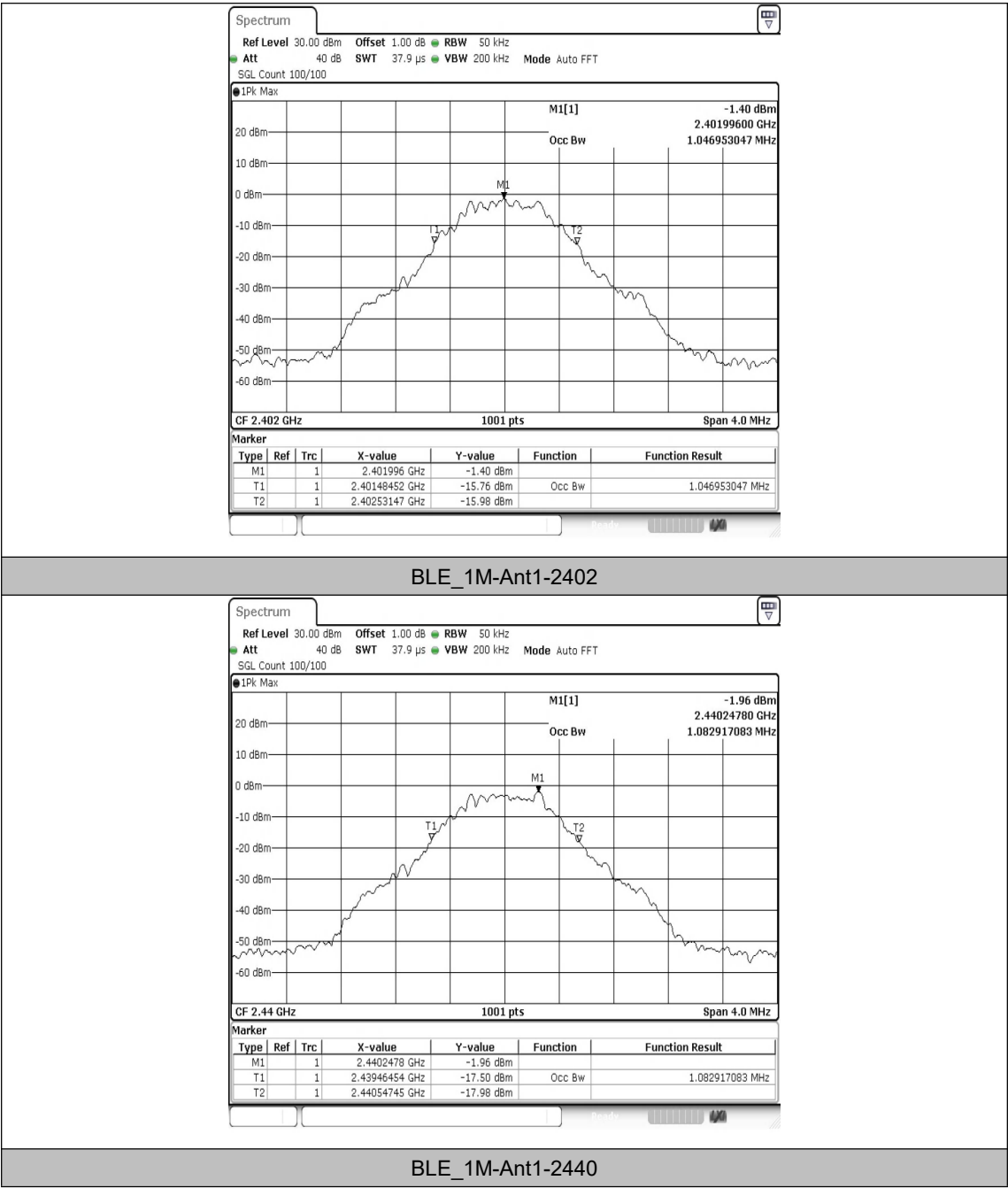


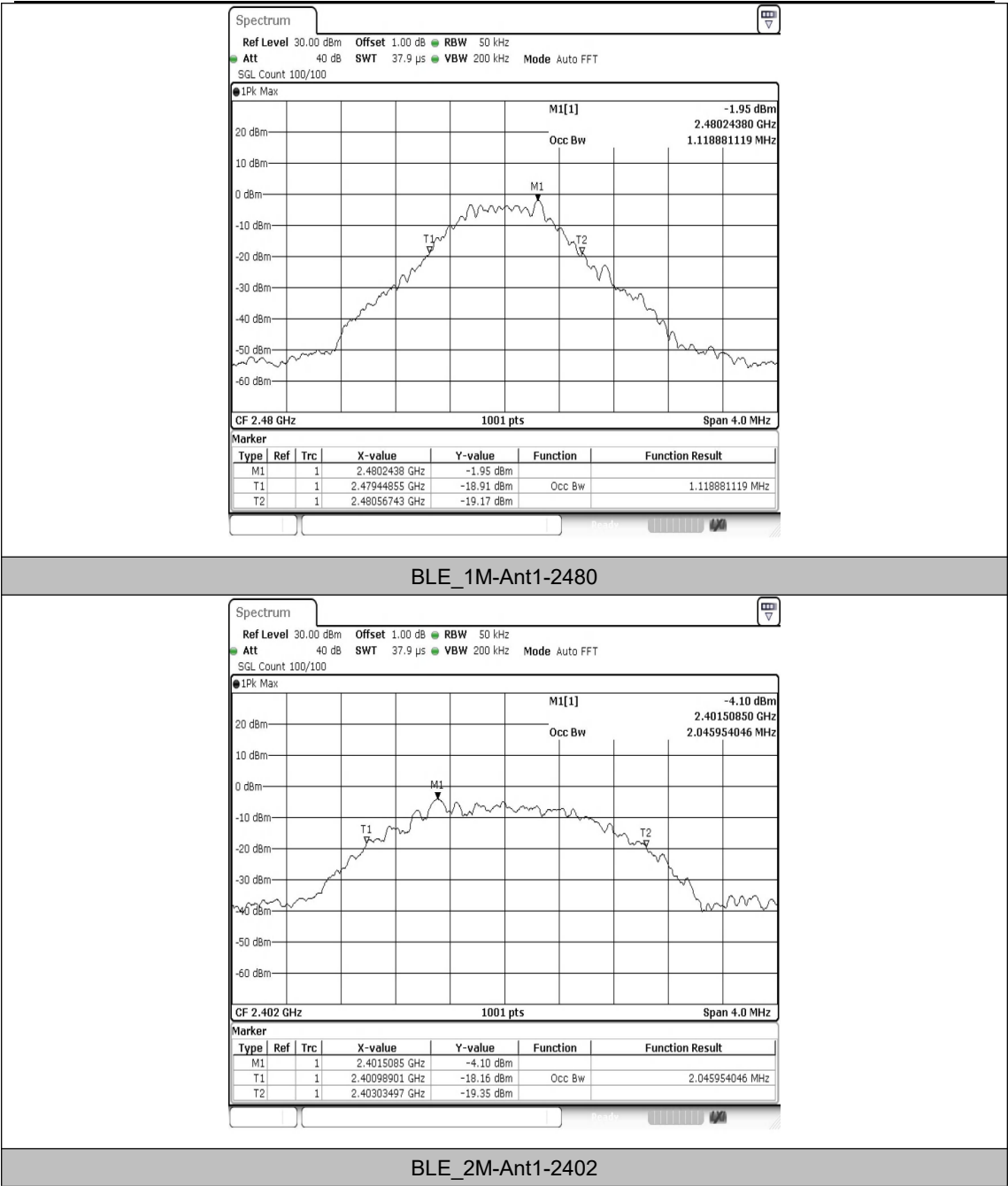
Appendix B: 99% Occupied Bandwidth

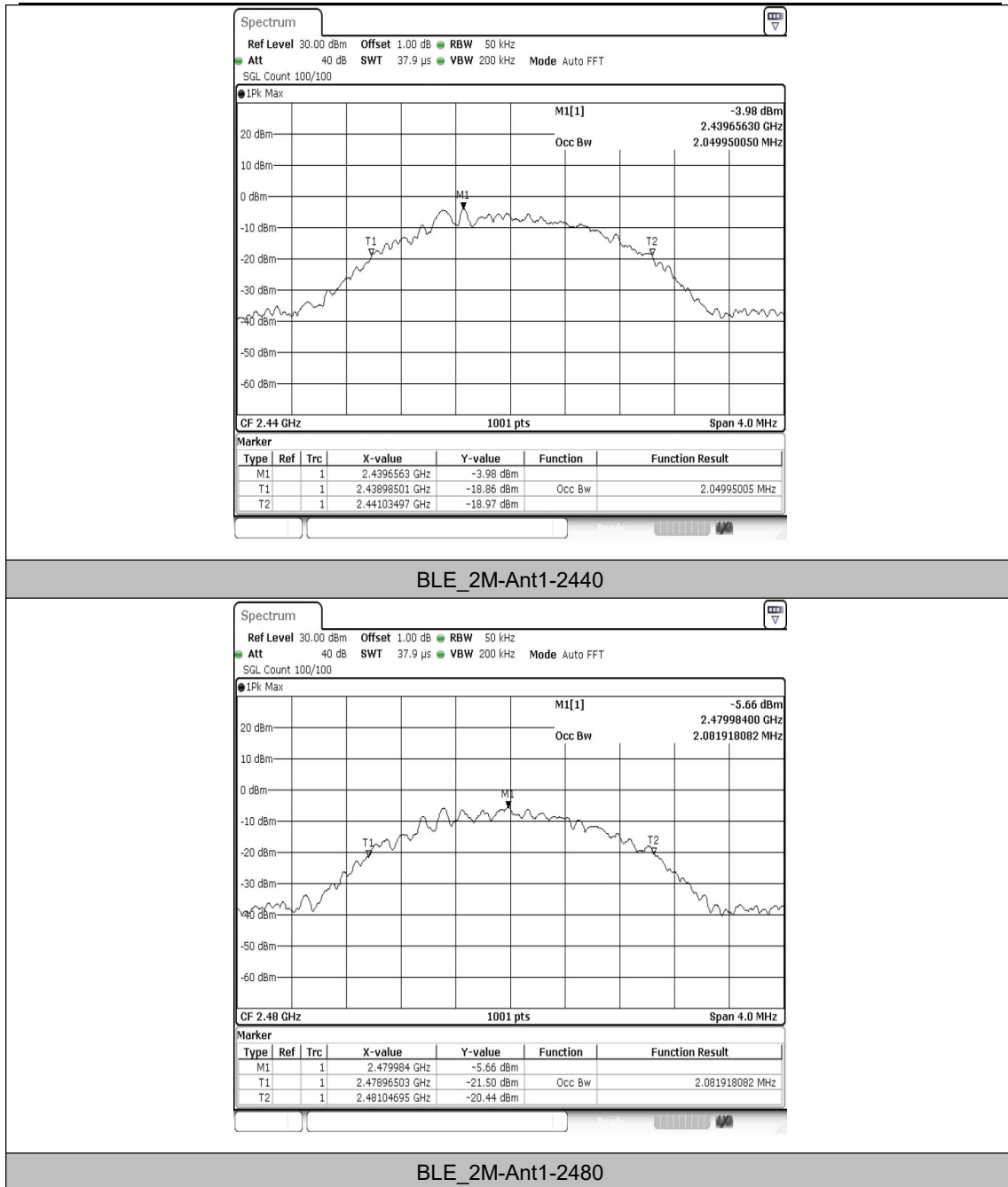
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0470	2401.4845	2402.5315	---	---
BLE_1M	Ant1	2440	1.0829	2439.4645	2440.5475	---	---
BLE_1M	Ant1	2480	1.1189	2479.4486	2480.5674	---	---
BLE_2M	Ant1	2402	2.0460	2400.9890	2403.0350	---	---
BLE_2M	Ant1	2440	2.0500	2438.9850	2441.0350	---	---
BLE_2M	Ant1	2480	2.0819	2478.9650	2481.0470	---	---

Test Graphs







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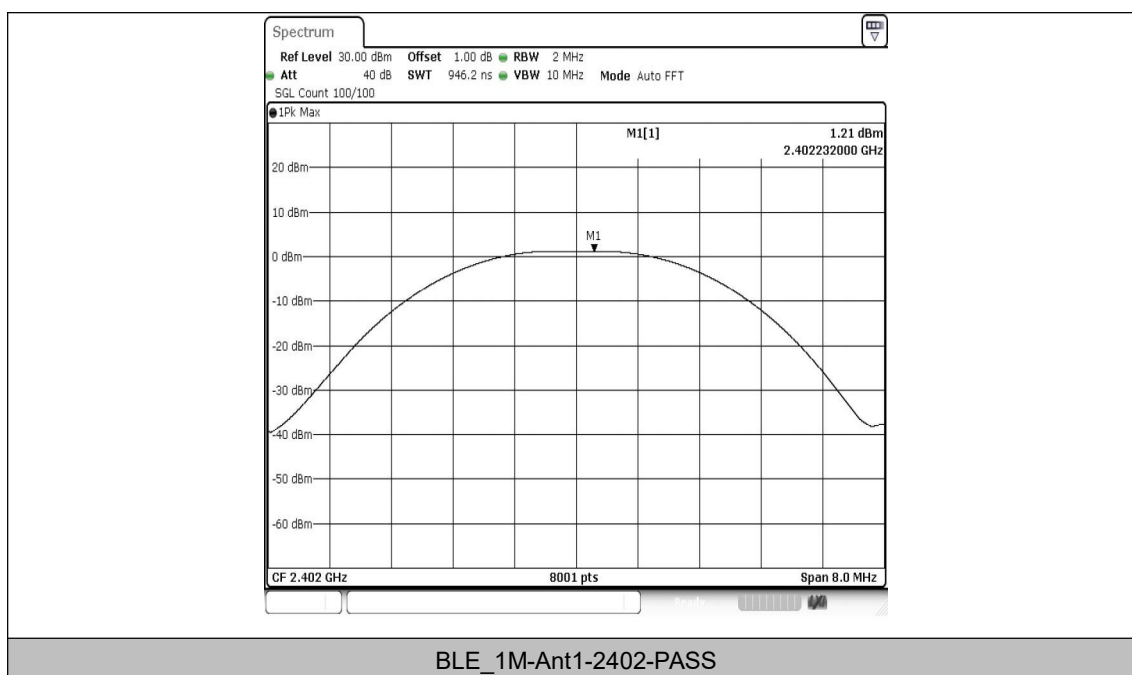
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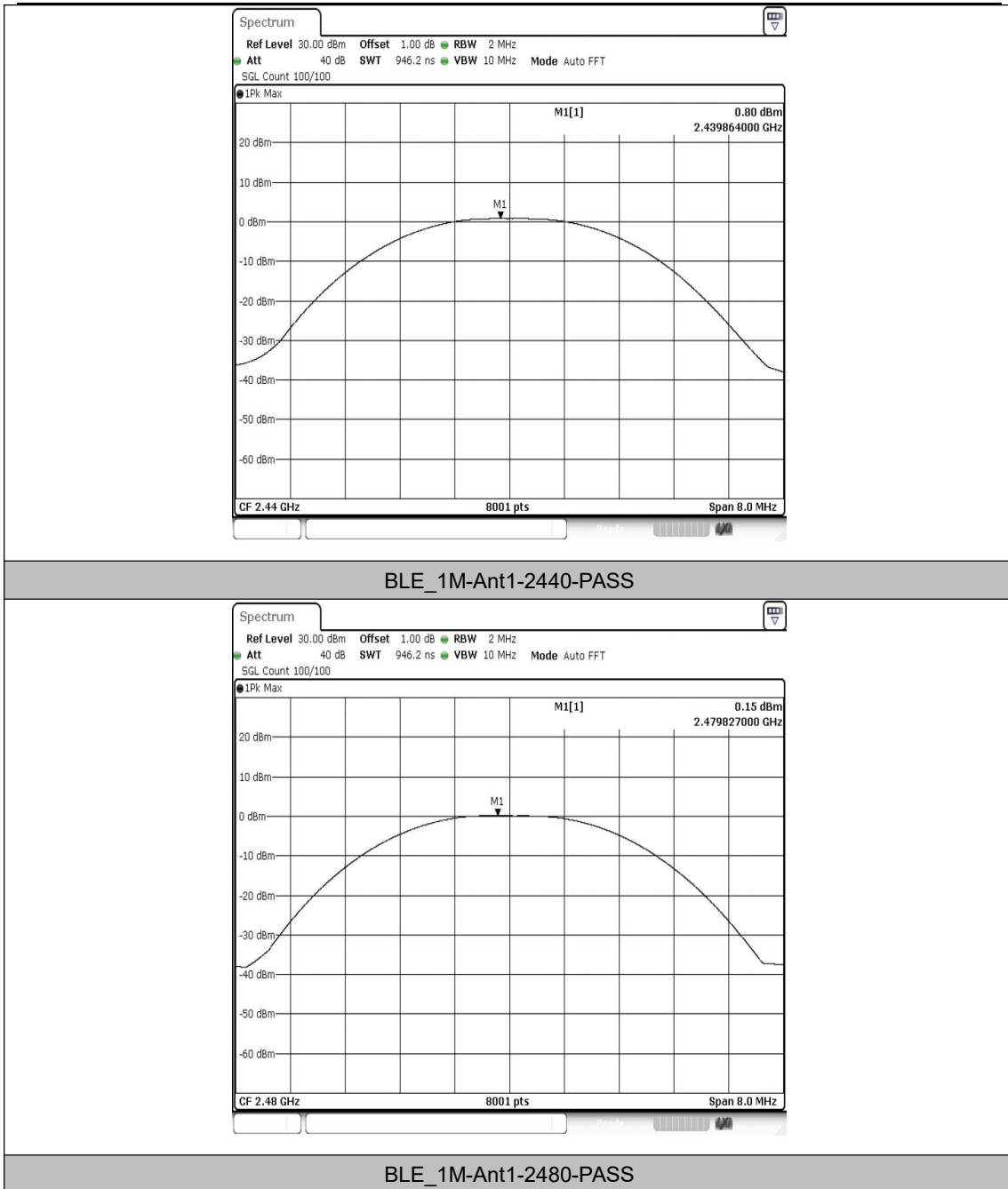
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.21	≤30	PASS
BLE_1M	Ant1	2440	0.80	≤30	PASS
BLE_1M	Ant1	2480	0.15	≤30	PASS
BLE_2M	Ant1	2402	1.37	≤30	PASS
BLE_2M	Ant1	2440	0.93	≤30	PASS
BLE_2M	Ant1	2480	0.23	≤30	PASS

Test Graphs Peak

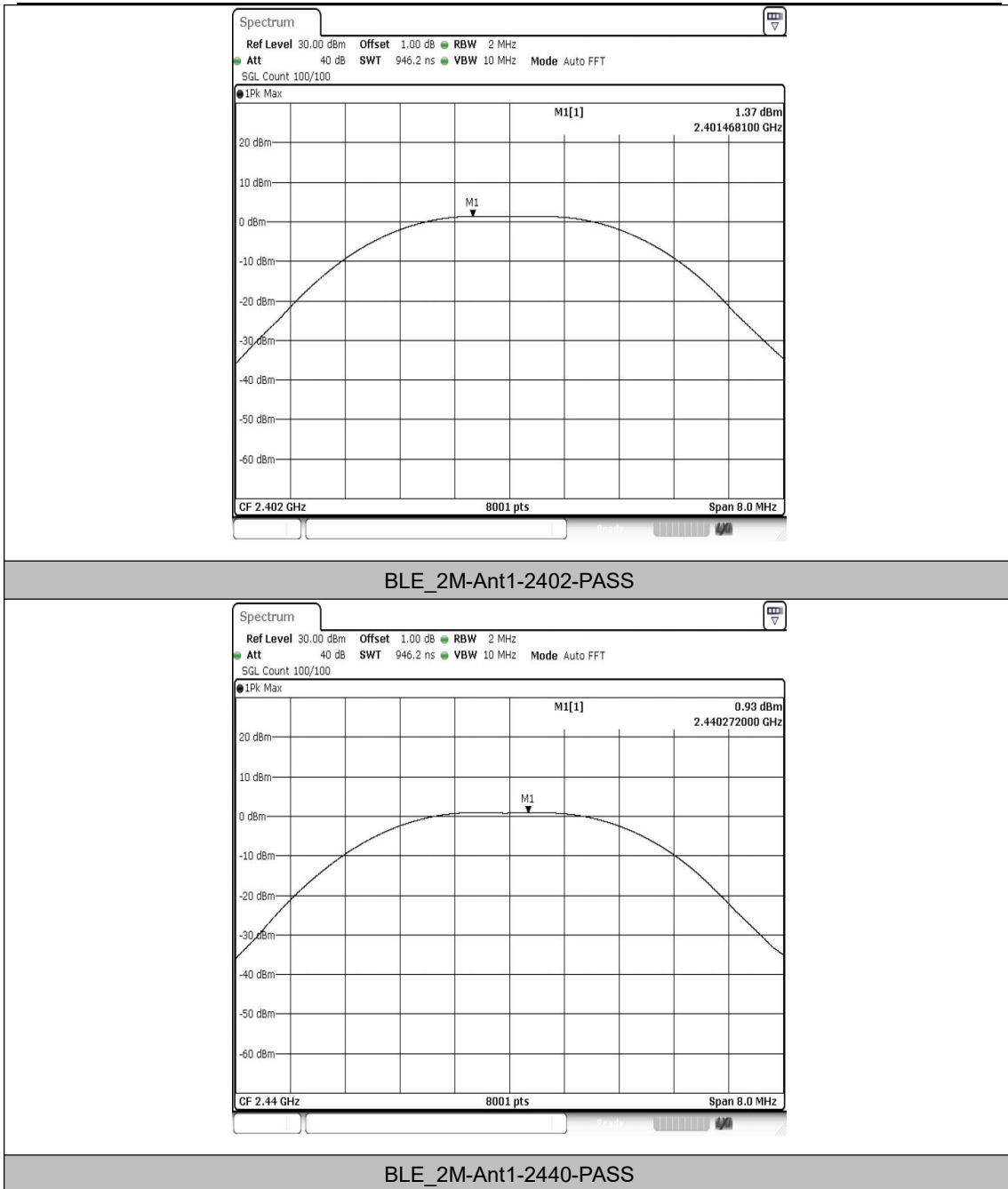




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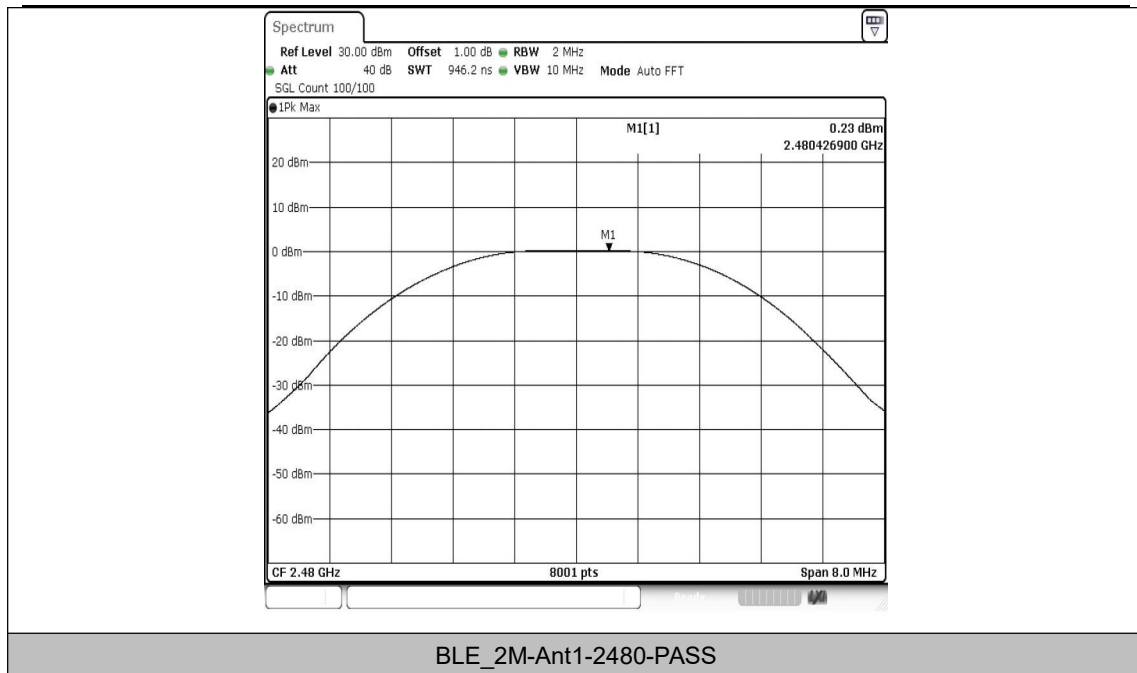
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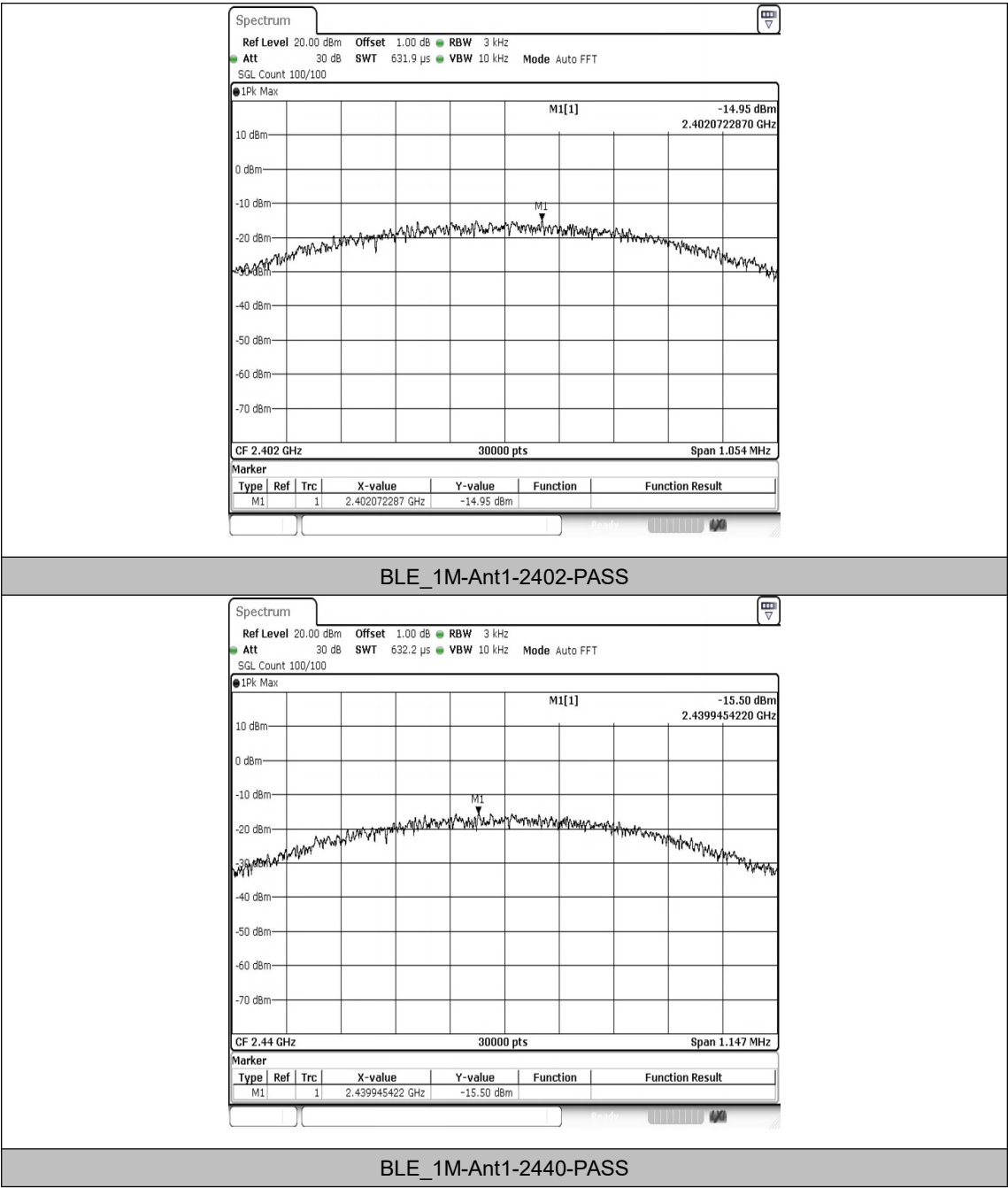
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.95	≤8.00	PASS
BLE_1M	Ant1	2440	-15.50	≤8.00	PASS
BLE_1M	Ant1	2480	-16.10	≤8.00	PASS
BLE_2M	Ant1	2402	-18.36	≤8.00	PASS
BLE_2M	Ant1	2440	-18.23	≤8.00	PASS
BLE_2M	Ant1	2480	-18.72	≤8.00	PASS

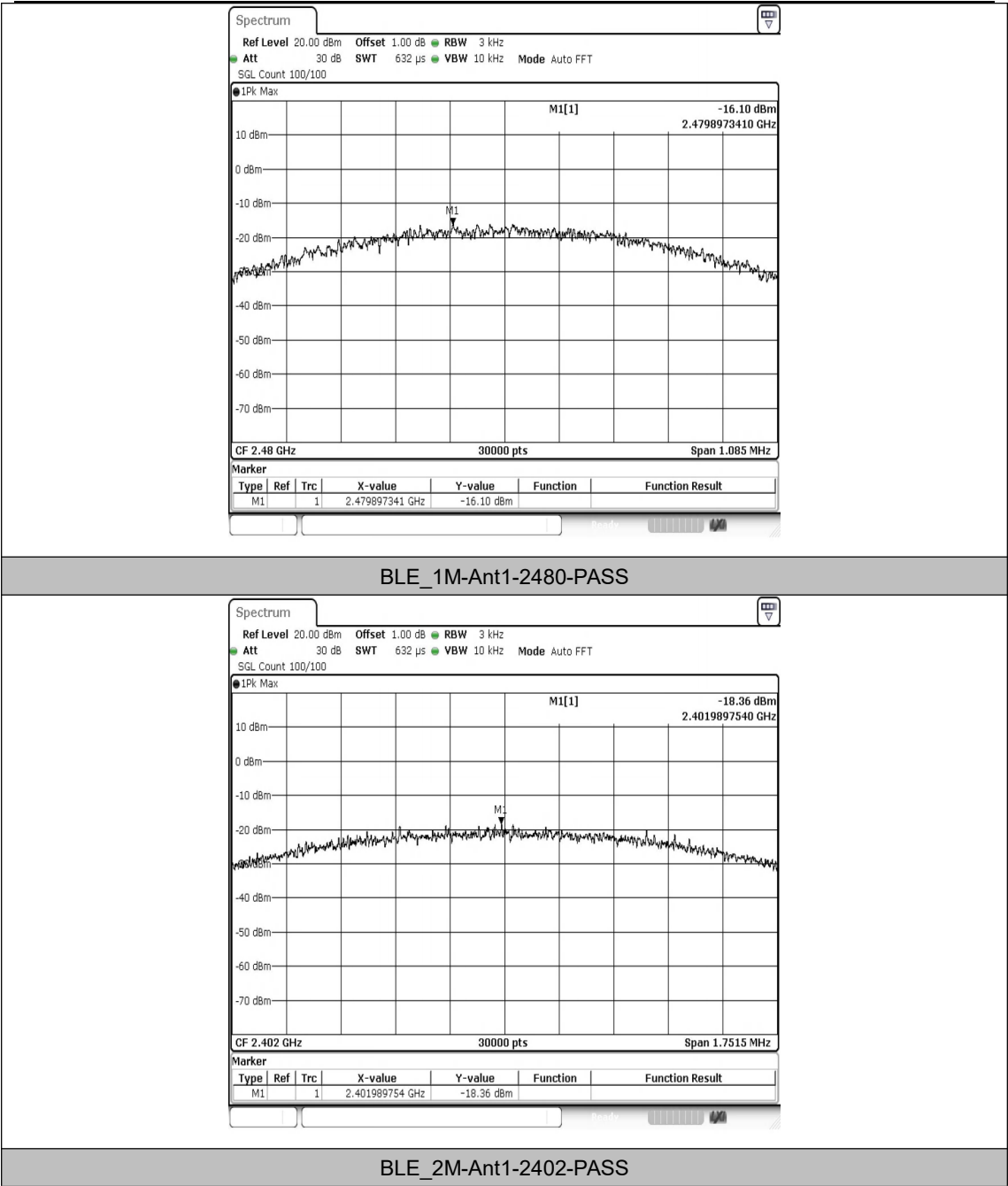
Test Graphs



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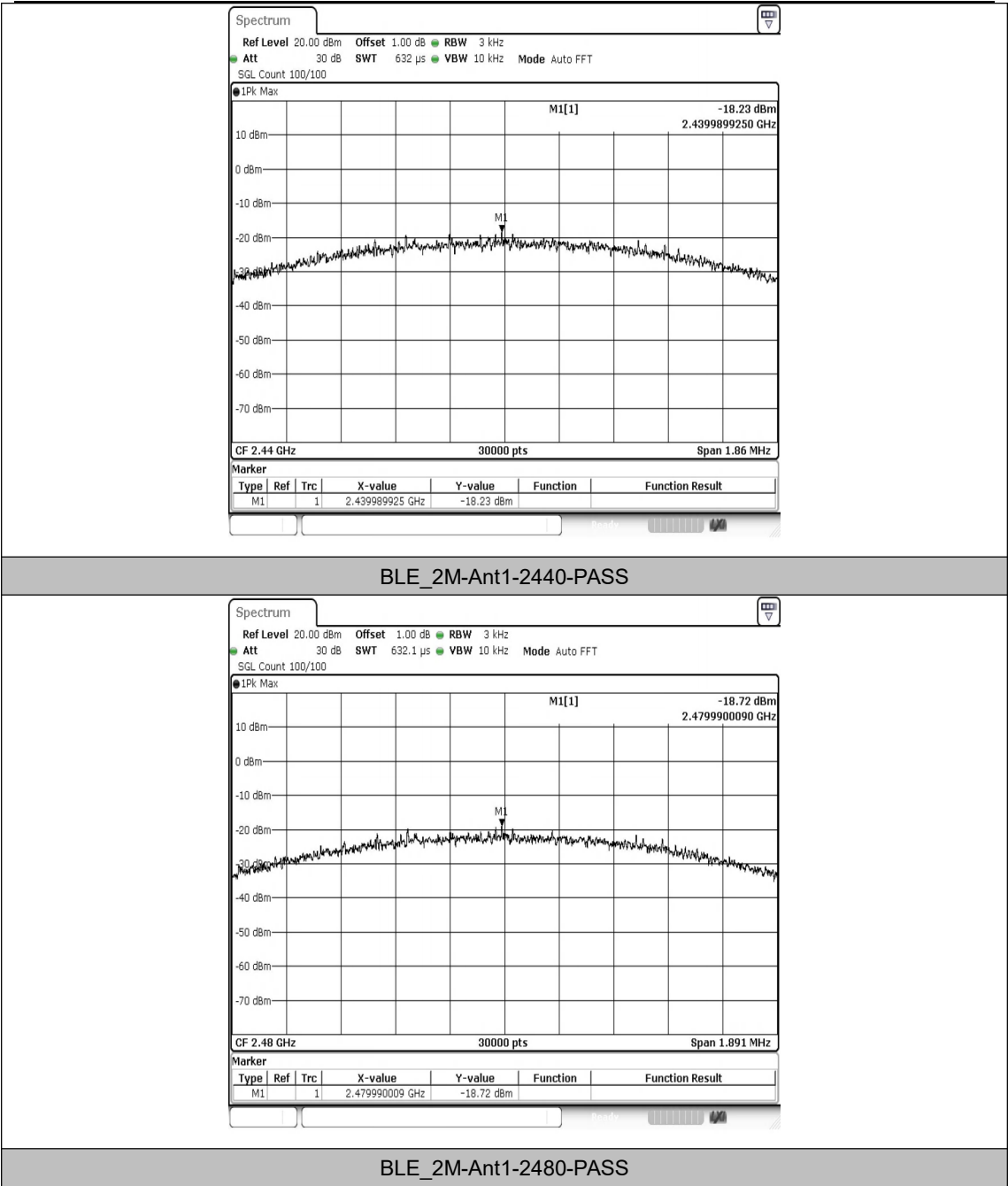
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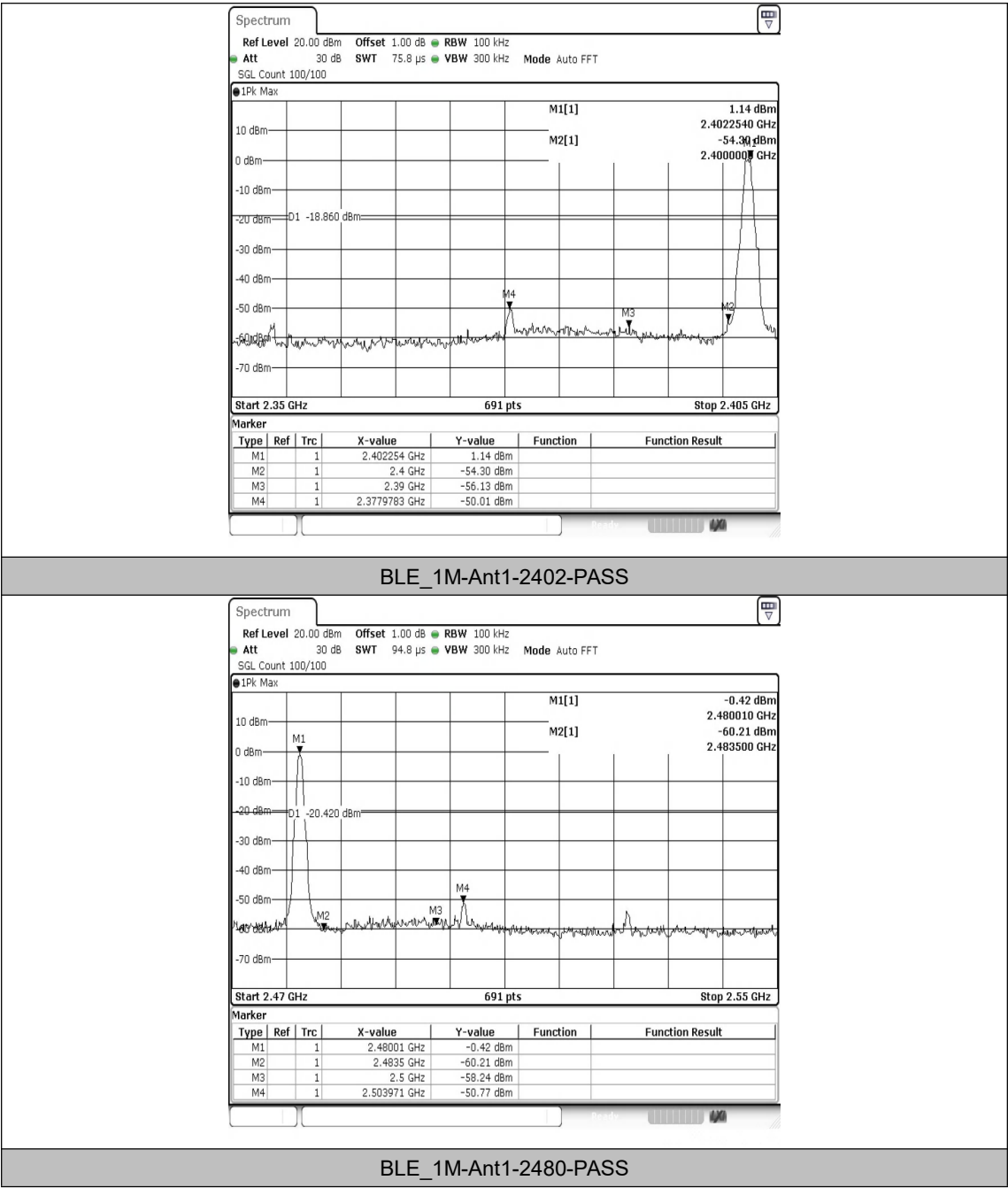
Appendix E: Band edge measurements

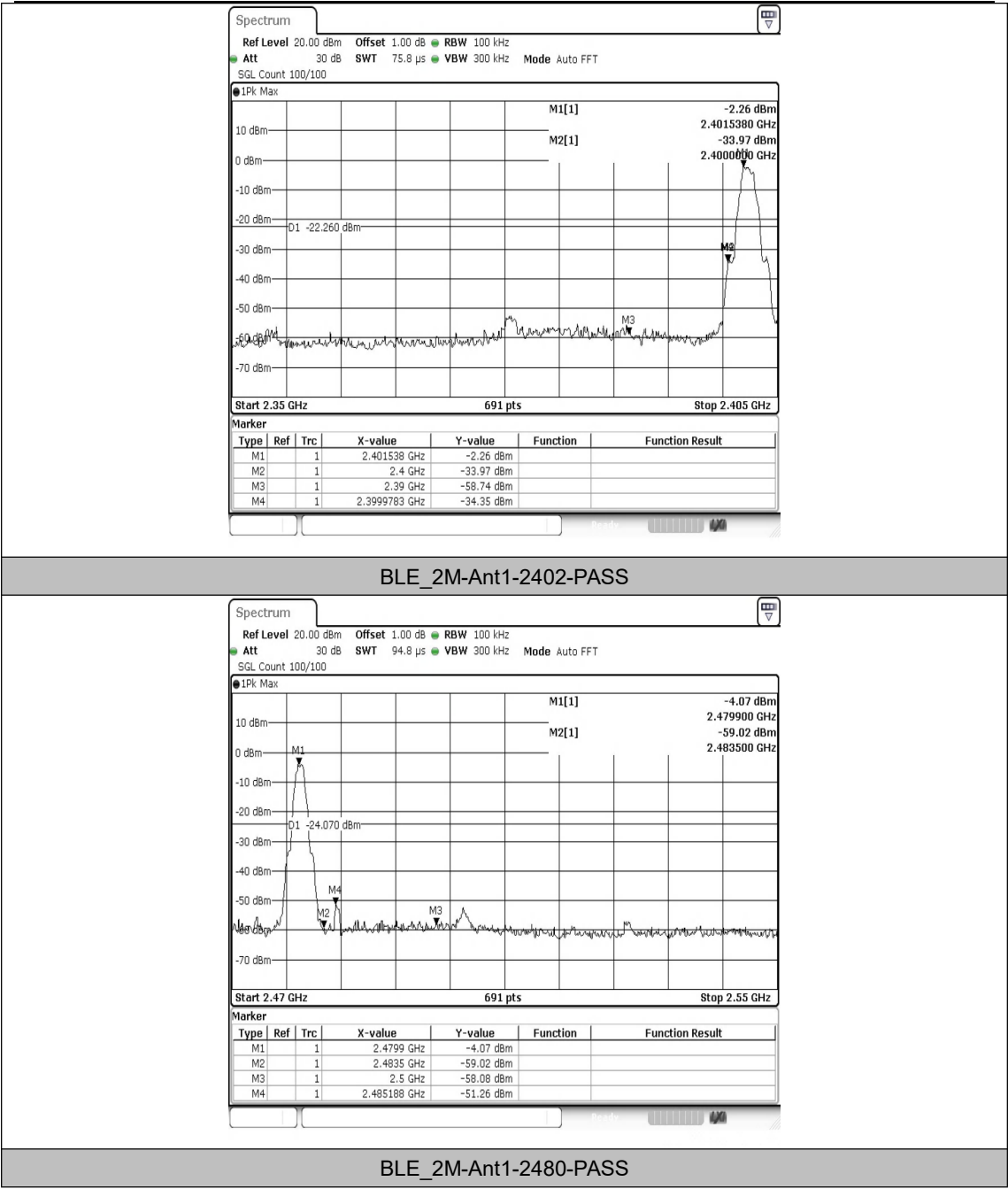
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.14	-50.01	≤-18.86	PASS
BLE_1M	Ant1	High	2480	-0.42	-50.77	≤-20.42	PASS
BLE_2M	Ant1	Low	2402	-2.26	-34.35	≤-22.26	PASS
BLE_2M	Ant1	High	2480	-4.07	-51.26	≤-24.07	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





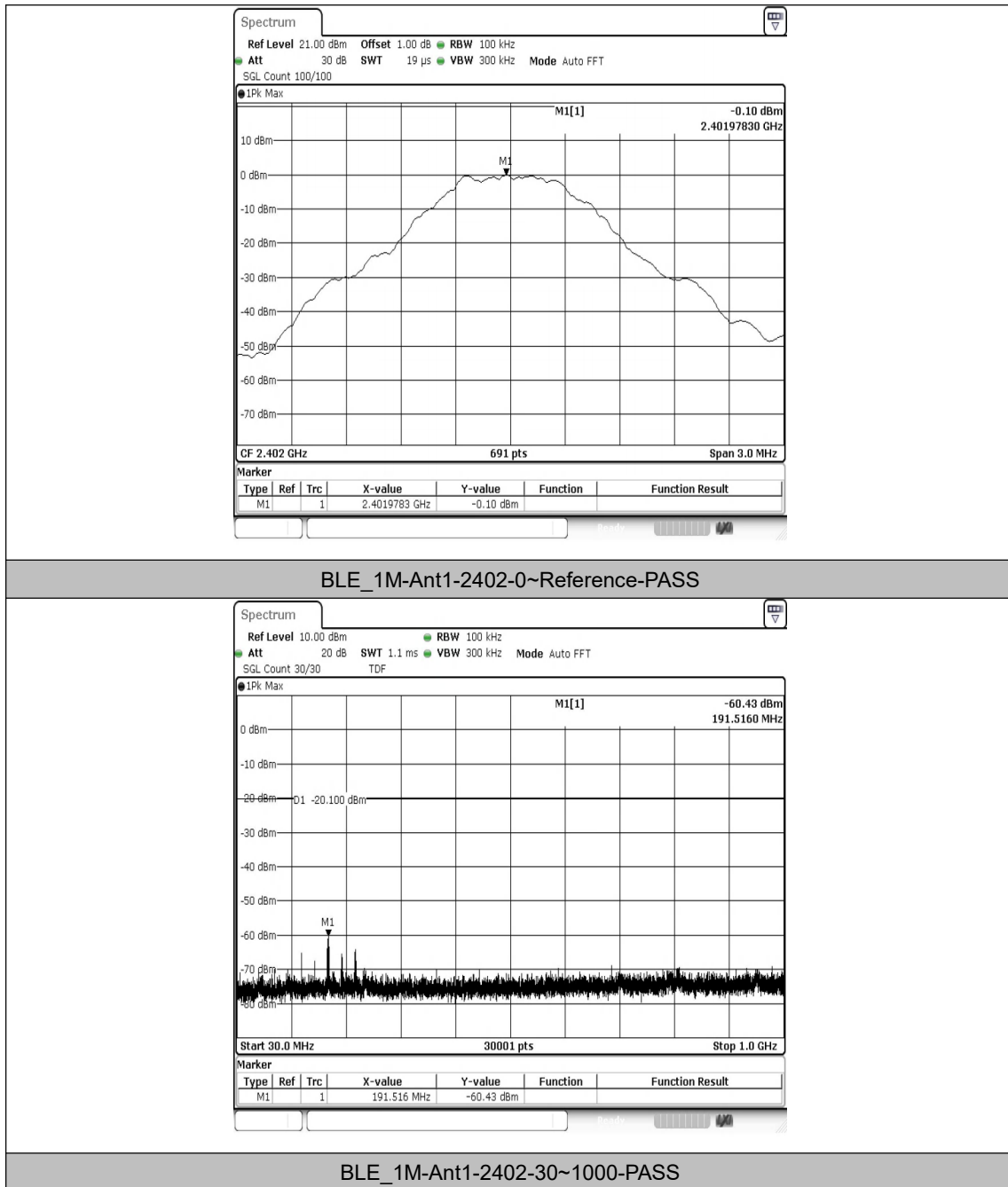
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.10	-0.10	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.10	-60.43	≤-20.1	PASS
BLE_1M	Ant1	2402	1000~26500	-0.10	-41.33	≤-20.1	PASS
BLE_1M	Ant1	2440	0~Reference	-0.34	-0.34	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.34	-65.44	≤-20.34	PASS
BLE_1M	Ant1	2440	1000~26500	-0.34	-40.17	≤-20.34	PASS
BLE_1M	Ant1	2480	0~Reference	-0.55	-0.55	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.55	-65.48	≤-20.55	PASS
BLE_1M	Ant1	2480	1000~26500	-0.55	-39.09	≤-20.55	PASS
BLE_2M	Ant1	2402	0~Reference	-2.30	-2.30	---	PASS
BLE_2M	Ant1	2402	30~1000	-2.30	-58.98	≤-22.3	PASS
BLE_2M	Ant1	2402	1000~26500	-2.30	-43.2	≤-22.3	PASS
BLE_2M	Ant1	2440	0~Reference	-2.46	-2.46	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.46	-60.64	≤-22.46	PASS
BLE_2M	Ant1	2440	1000~26500	-2.46	-42.42	≤-22.46	PASS
BLE_2M	Ant1	2480	0~Reference	-1.46	-1.46	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.46	-63.25	≤-21.46	PASS
BLE_2M	Ant1	2480	1000~26500	-1.46	-40.99	≤-21.46	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.

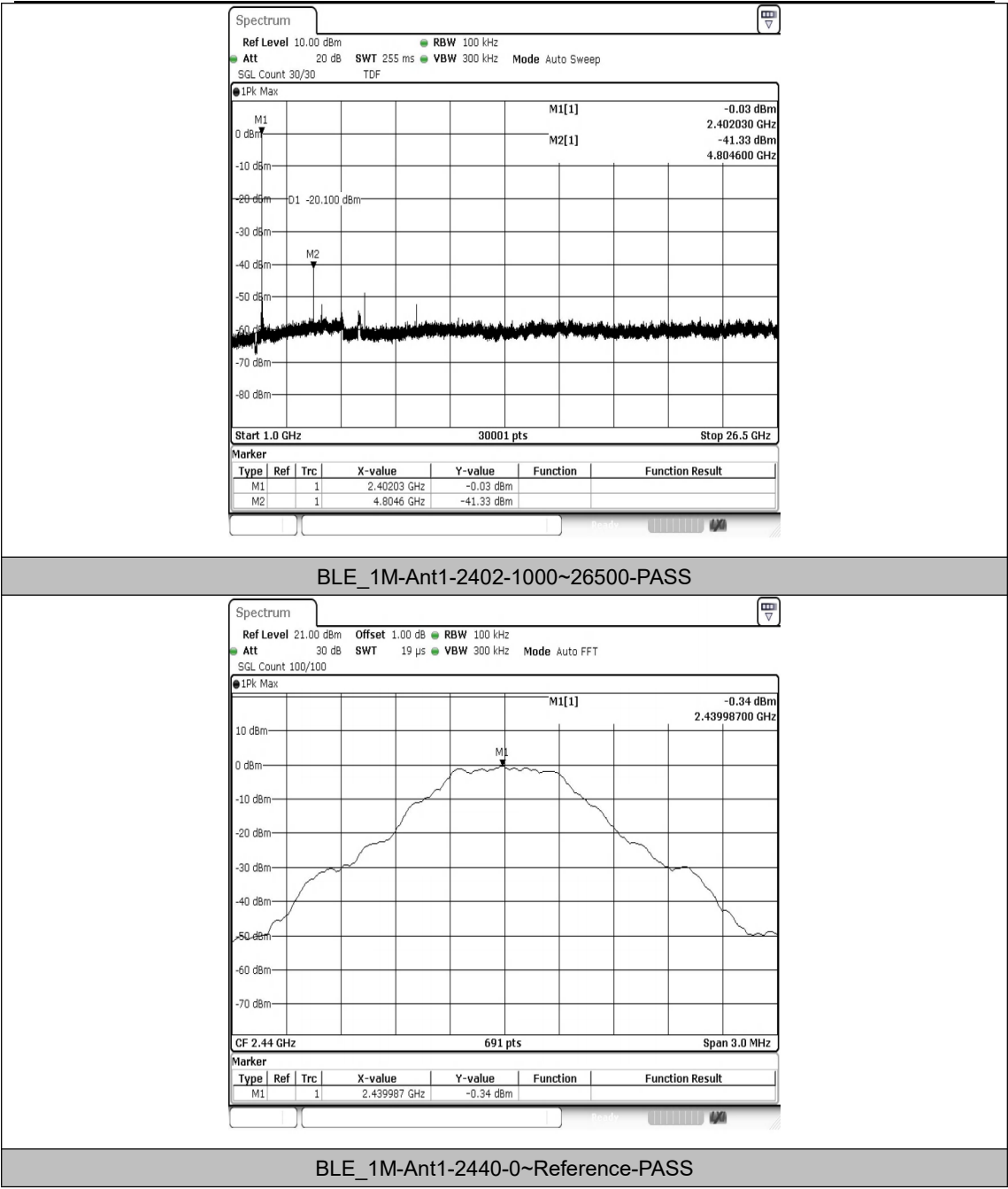
Test Graphs

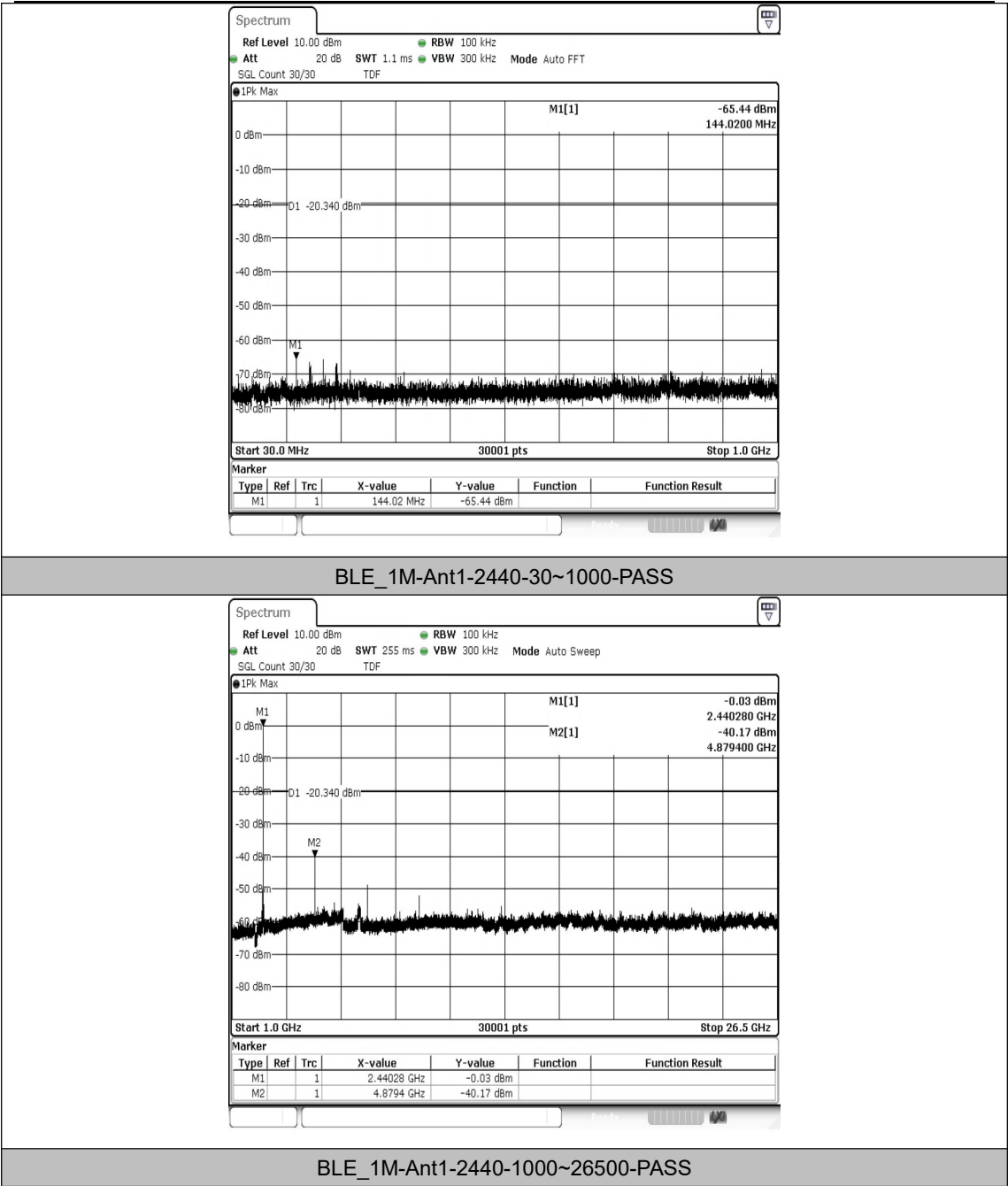


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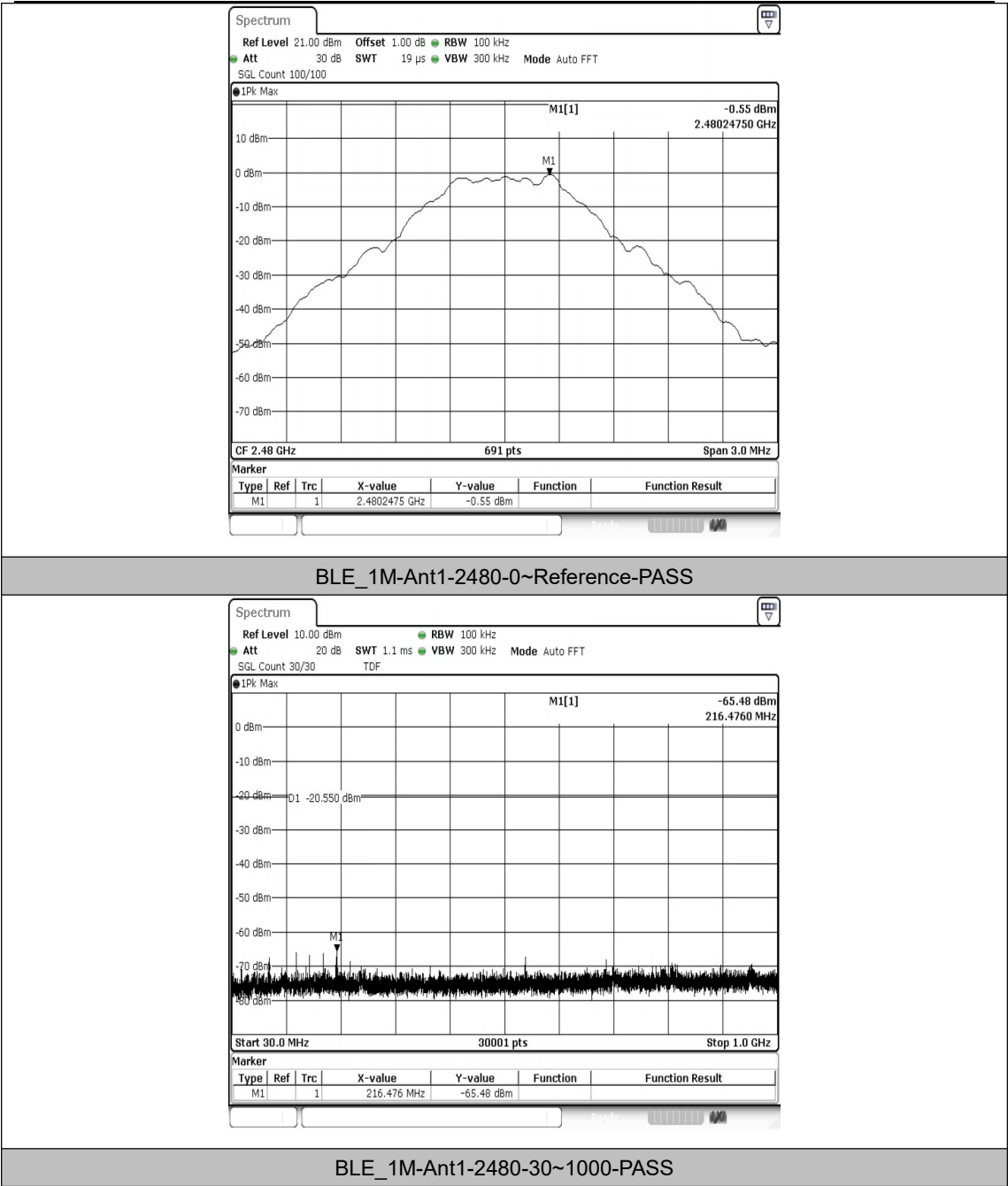


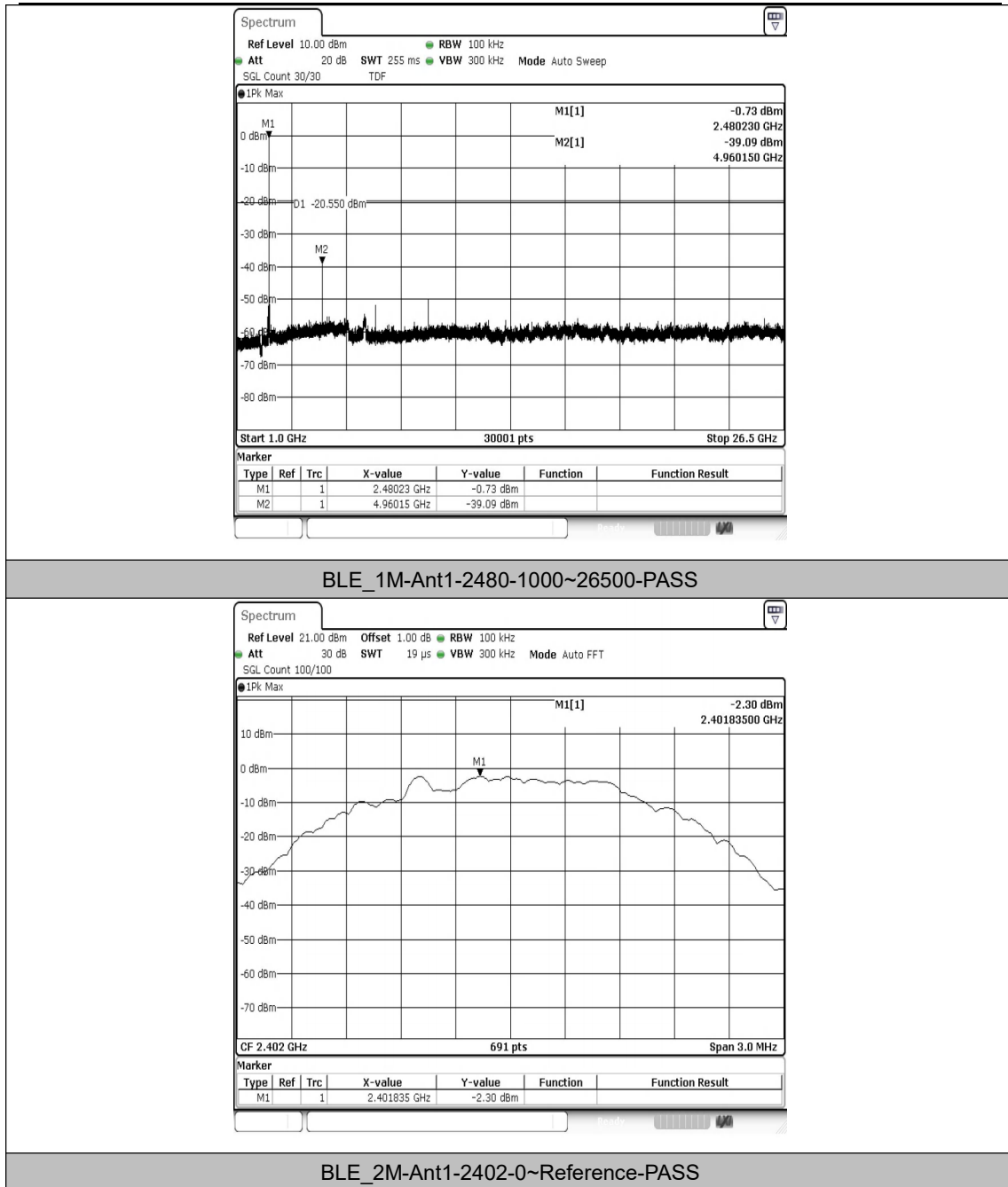


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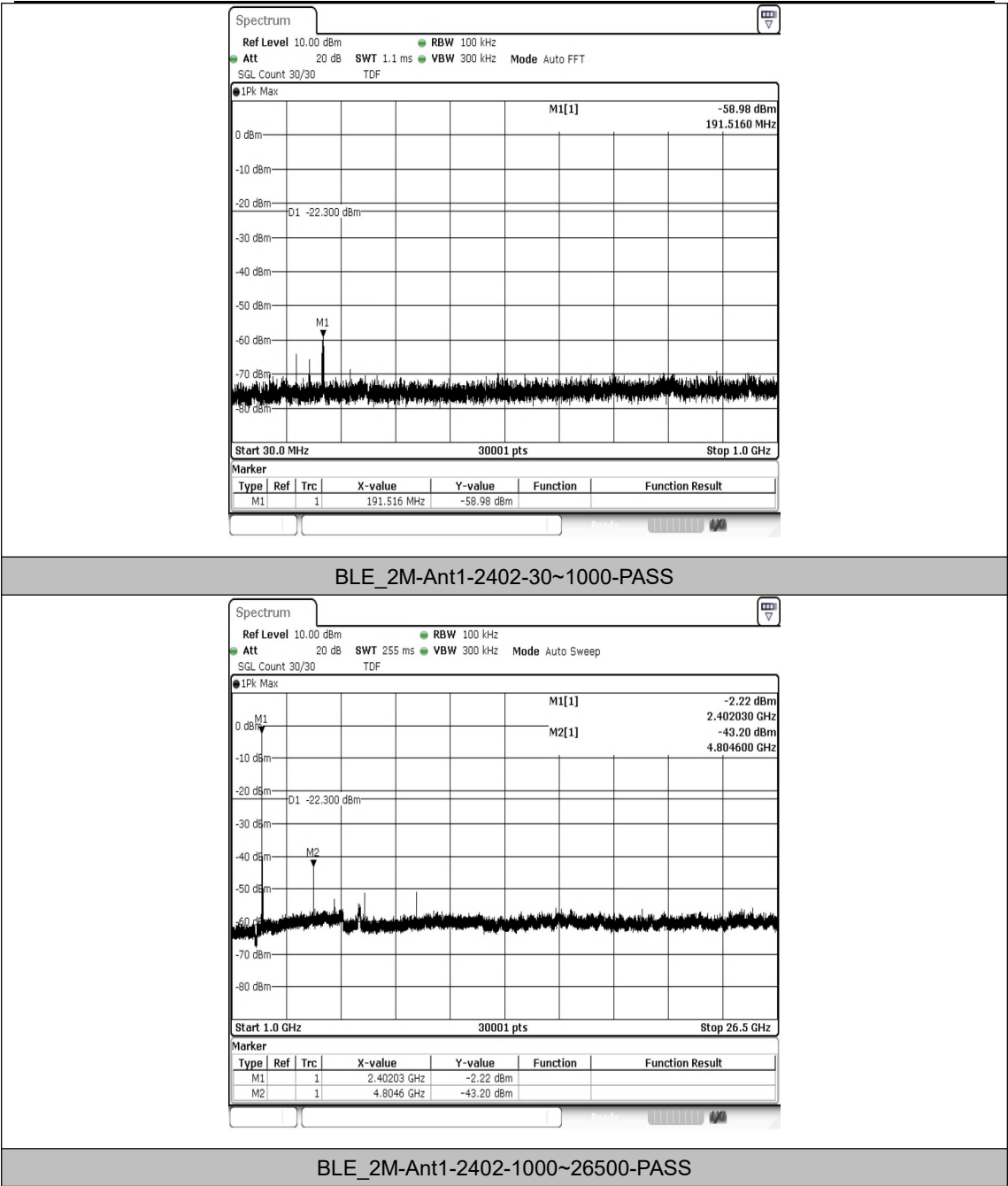




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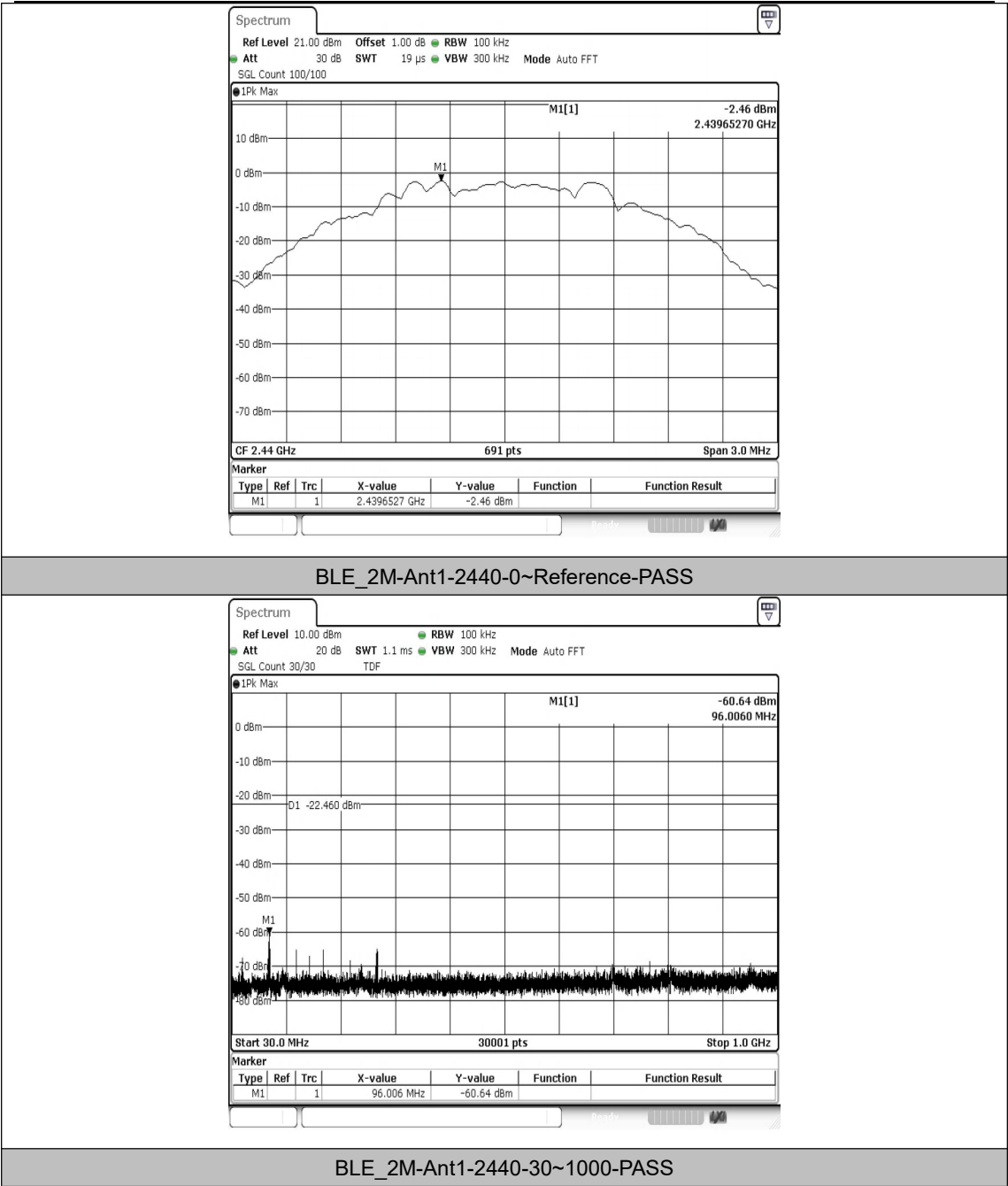
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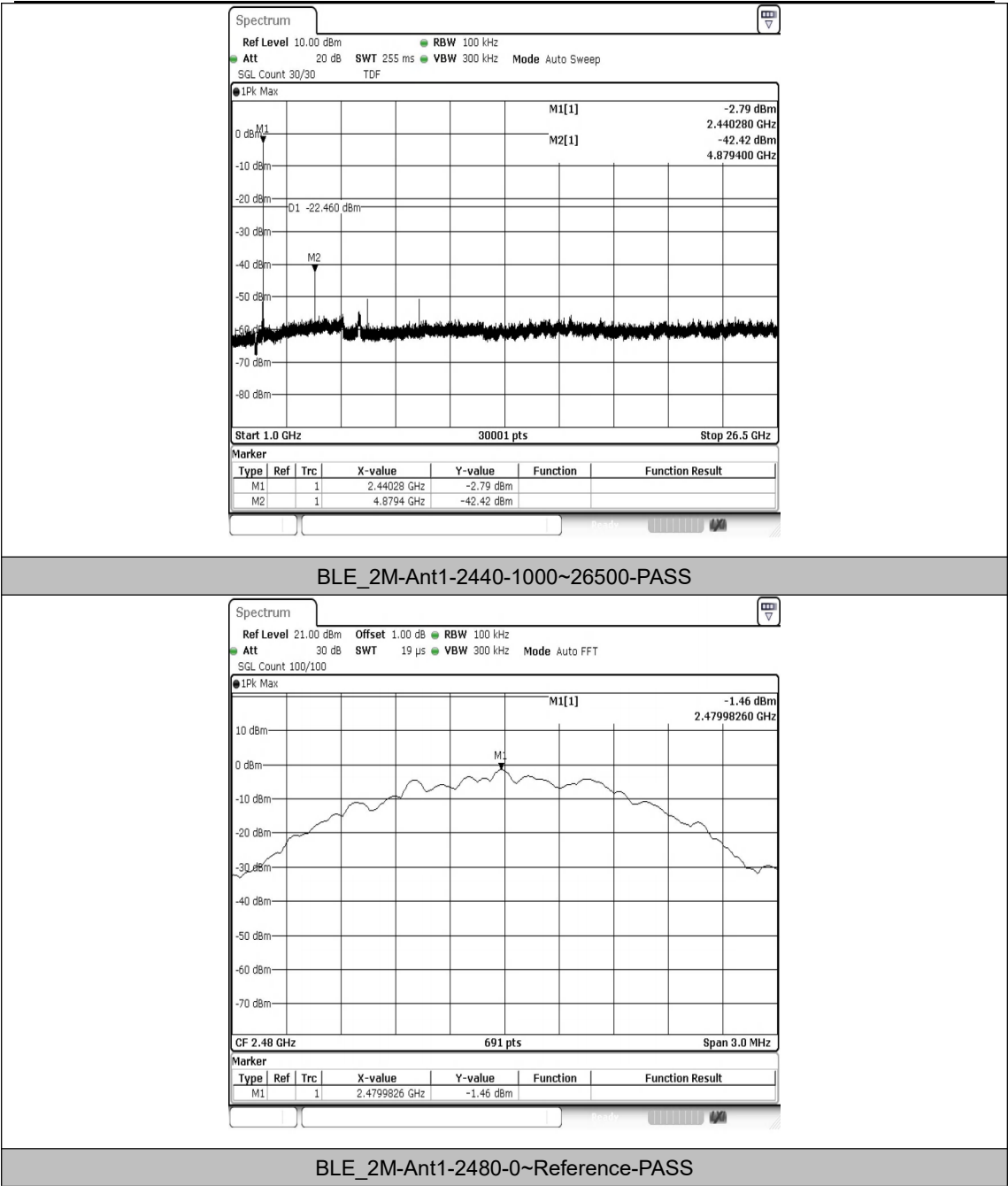
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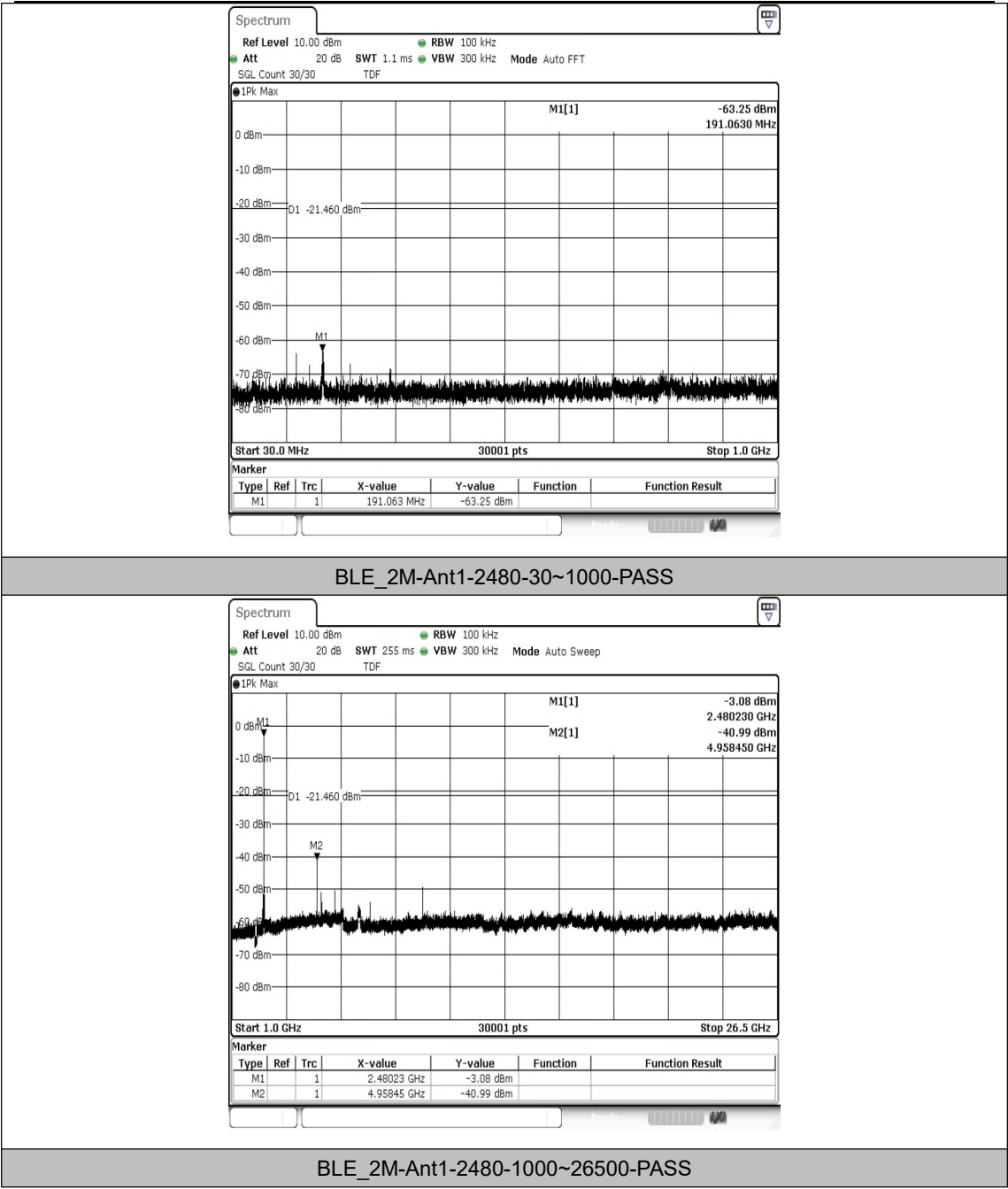
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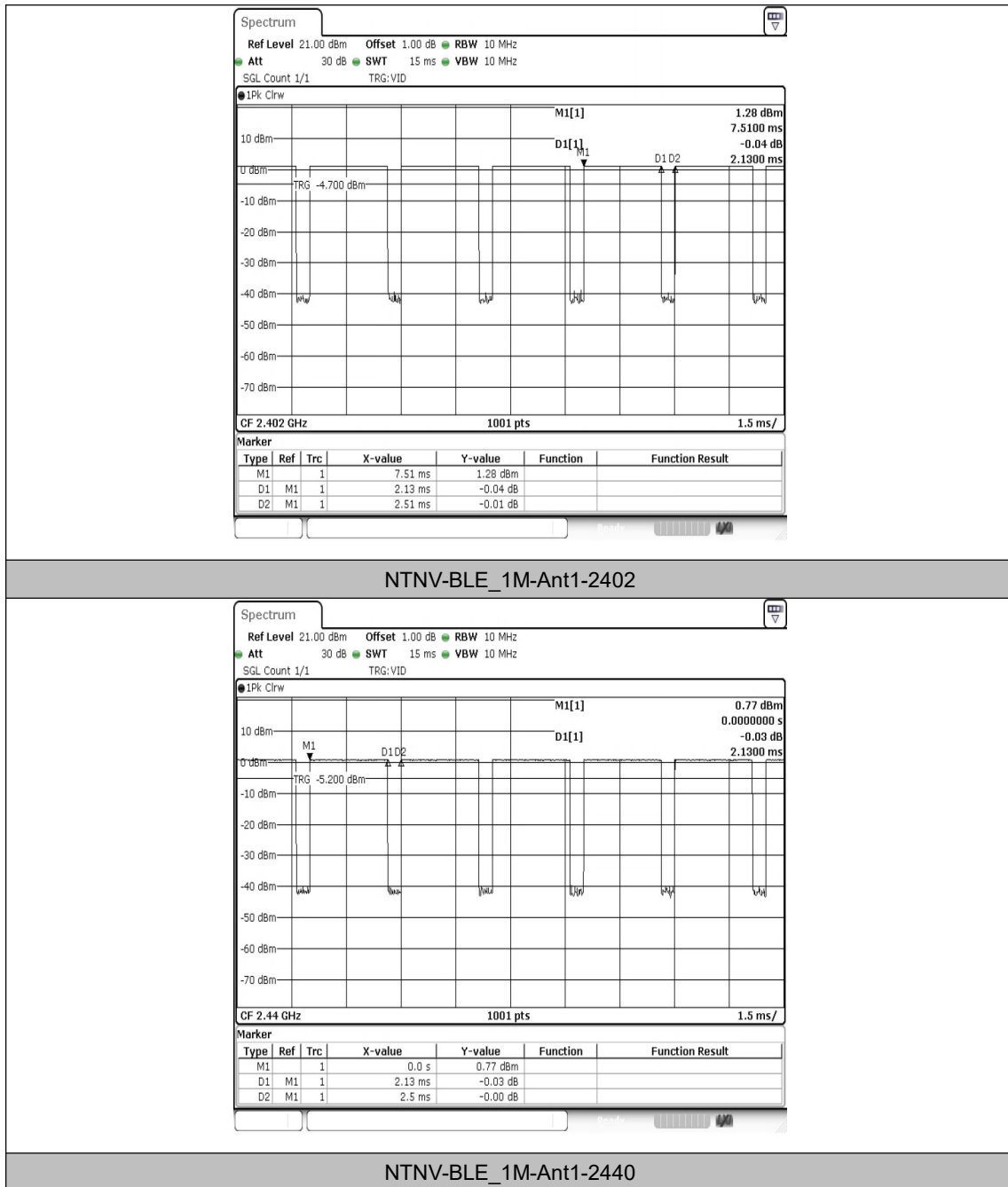
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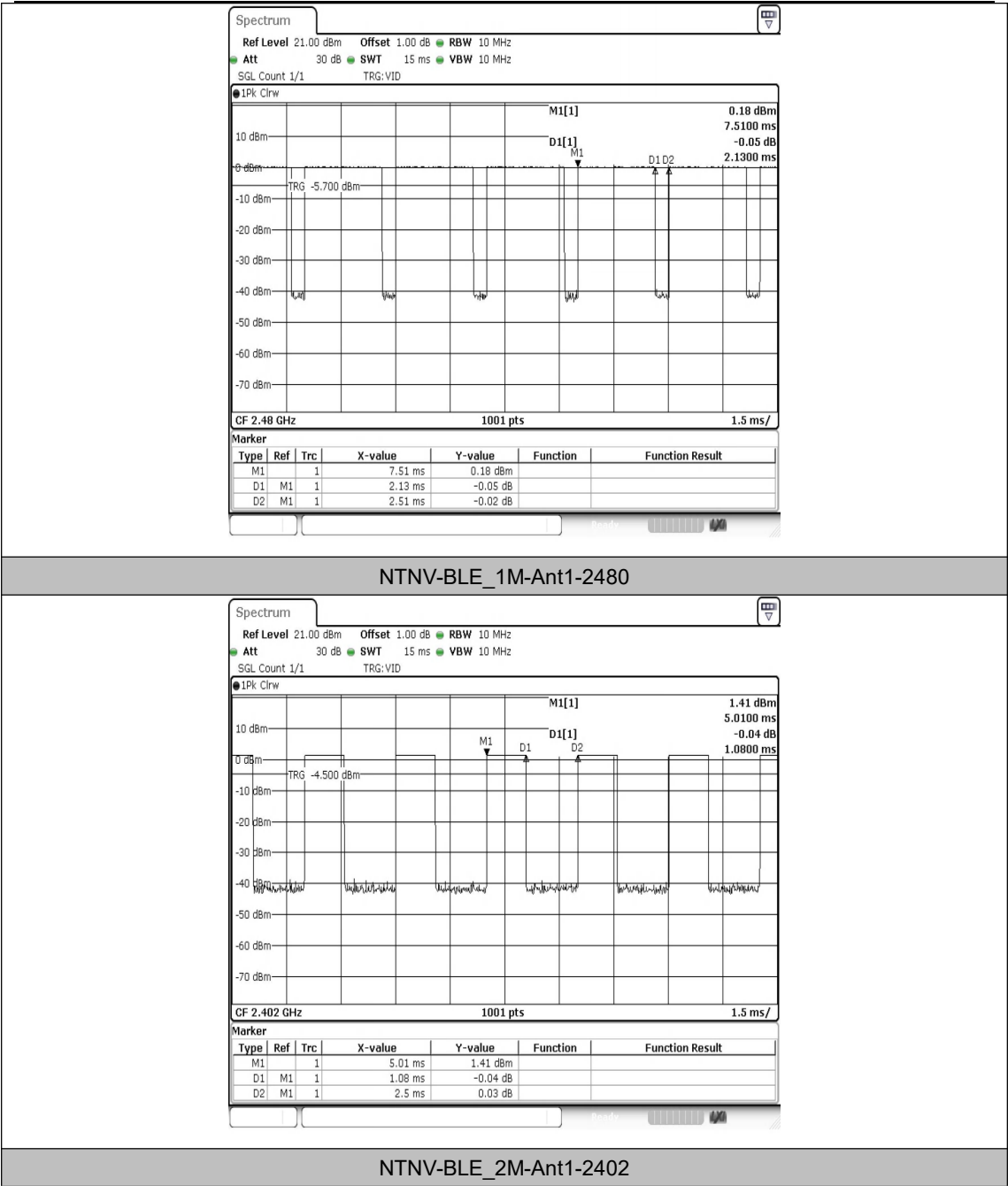
Appendix G: Duty Cycle

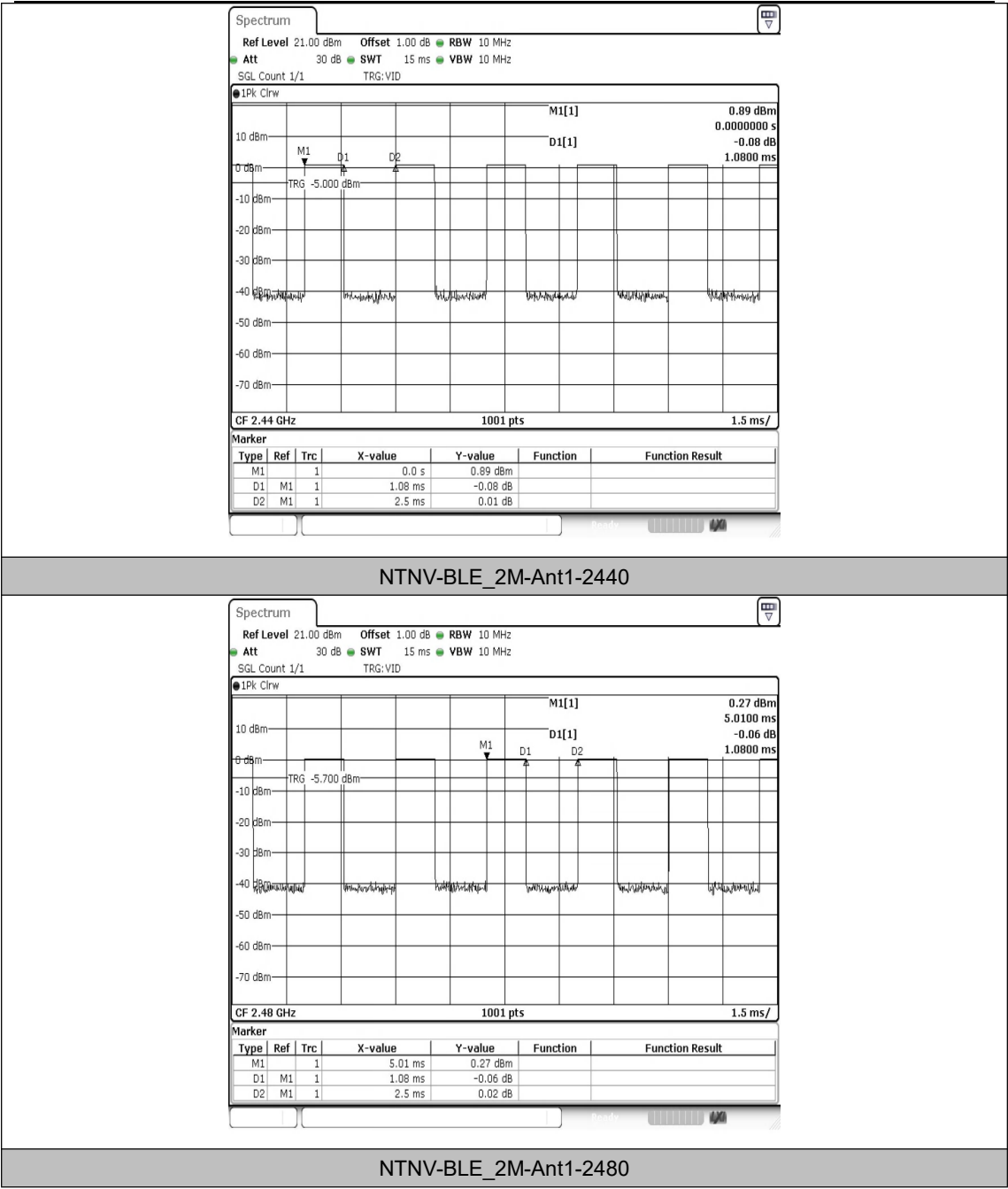
Test Result

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