

Appendix Test Data

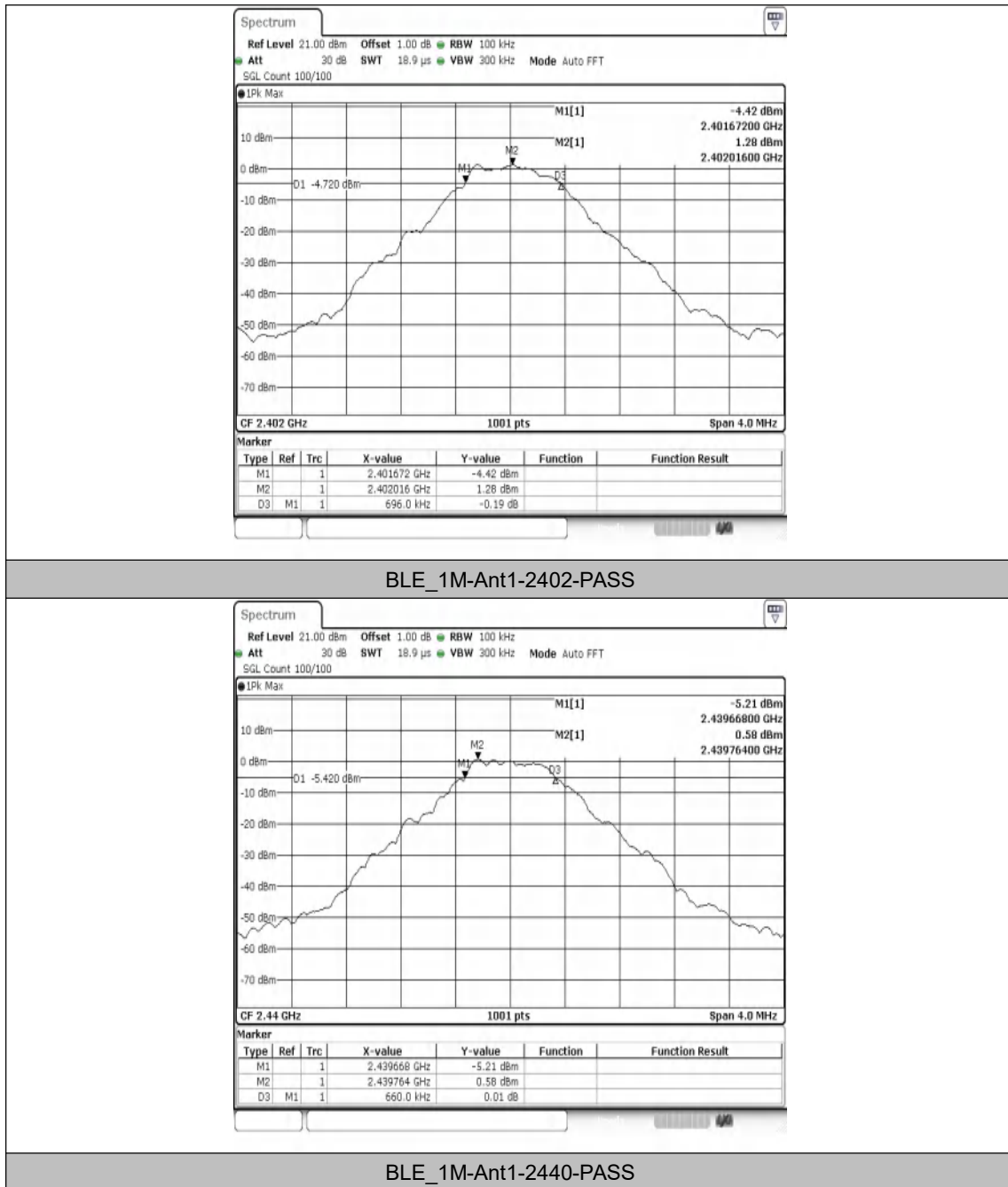
Report No.:	1812C50350412501	Test Sample No.:	1-2-2
Start Test Date:	2025-7-17	Finish Test Date:	2025-7-18
Test Engineer:	<i>dylan. Ma</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.7°C	Relative Humidity:	57%
Pressure:	101kPa		

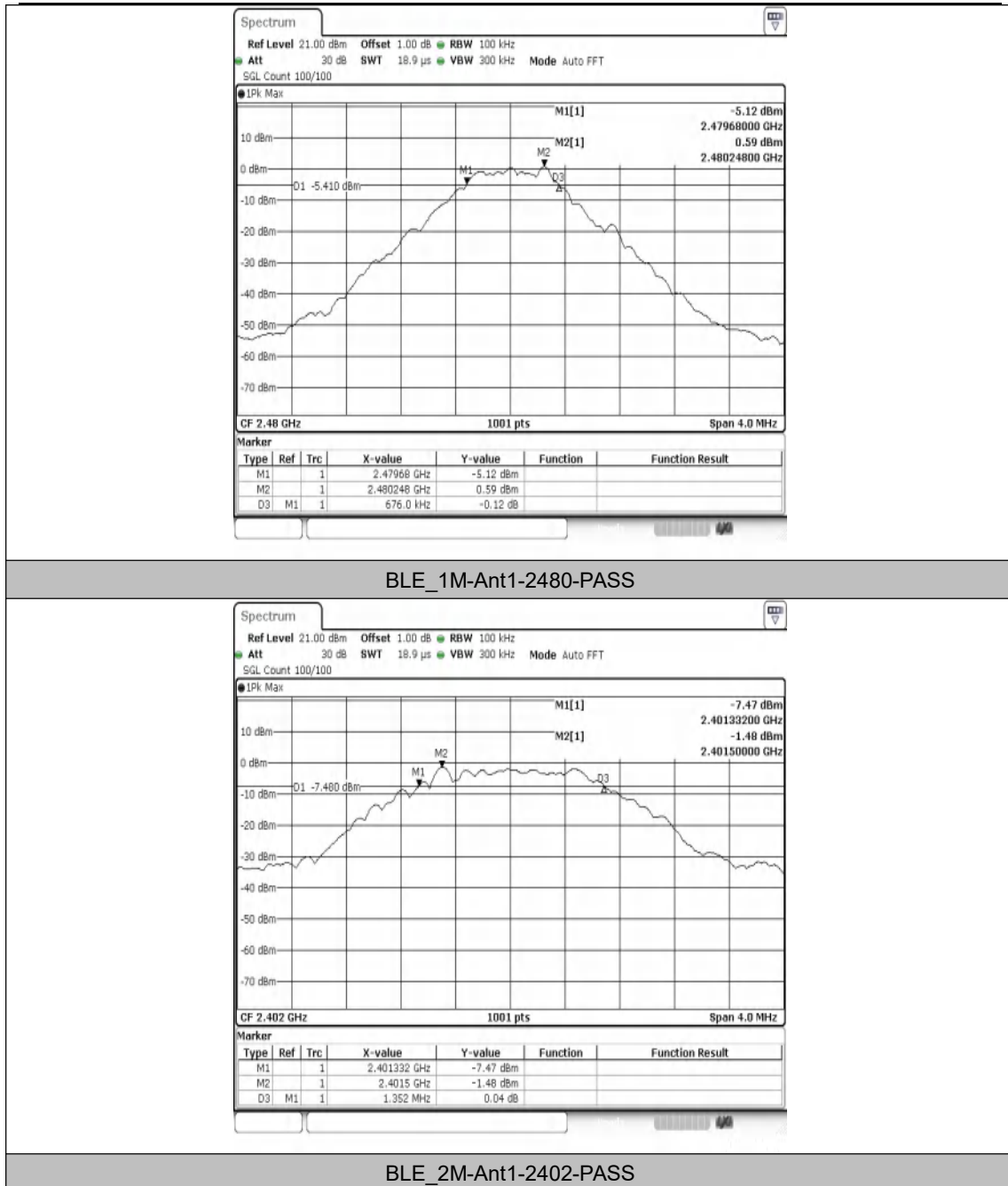
Appendix A: 6dB Bandwidth

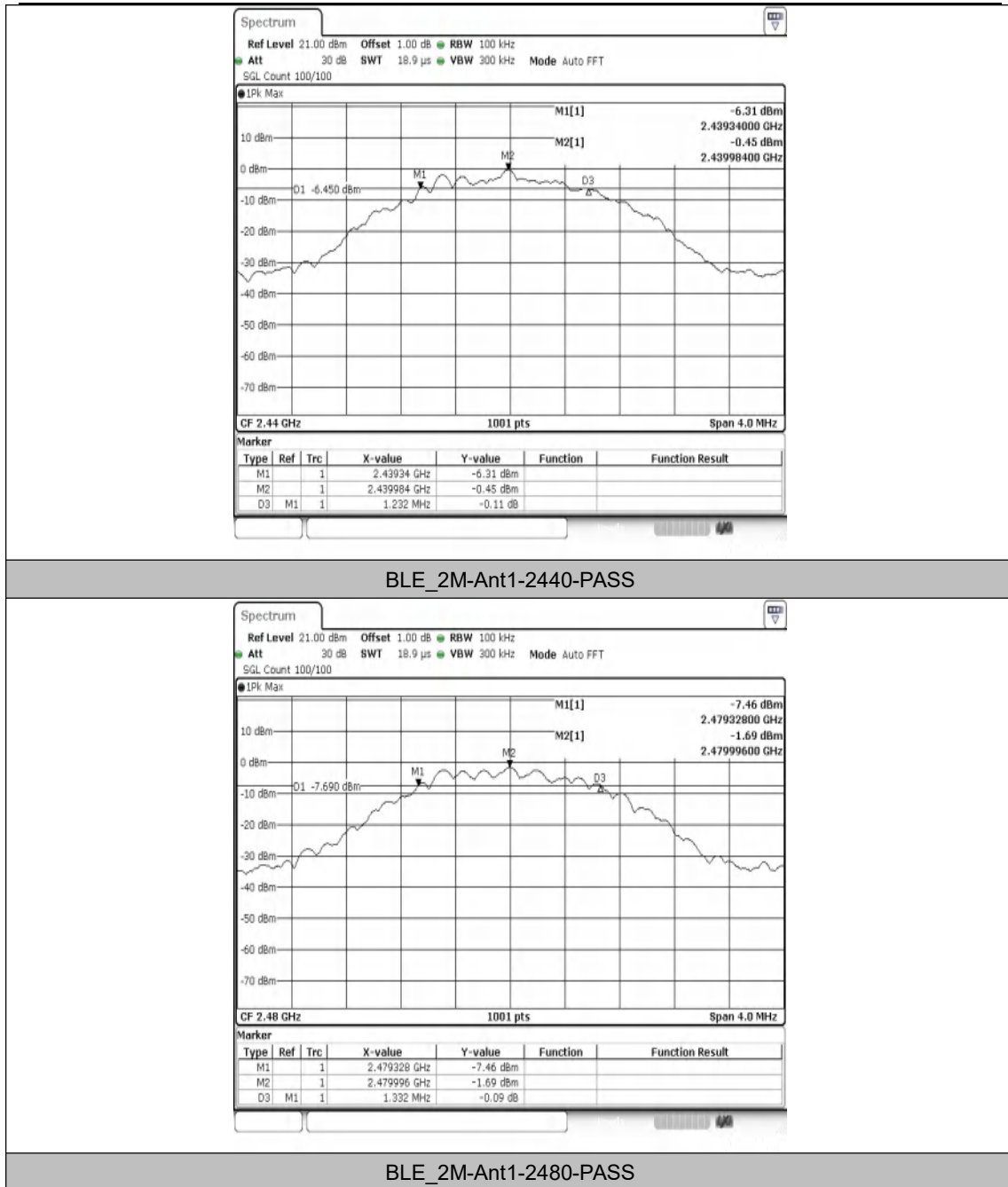
Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.70	2401.67	2402.37	0.5	PASS
BLE_1M	Ant1	2440	0.66	2439.67	2440.33	0.5	PASS
BLE_1M	Ant1	2480	0.68	2479.68	2480.36	0.5	PASS
BLE_2M	Ant1	2402	1.35	2401.33	2402.68	0.5	PASS
BLE_2M	Ant1	2440	1.23	2439.34	2440.57	0.5	PASS
BLE_2M	Ant1	2480	1.33	2479.33	2480.66	0.5	PASS

Test Graphs





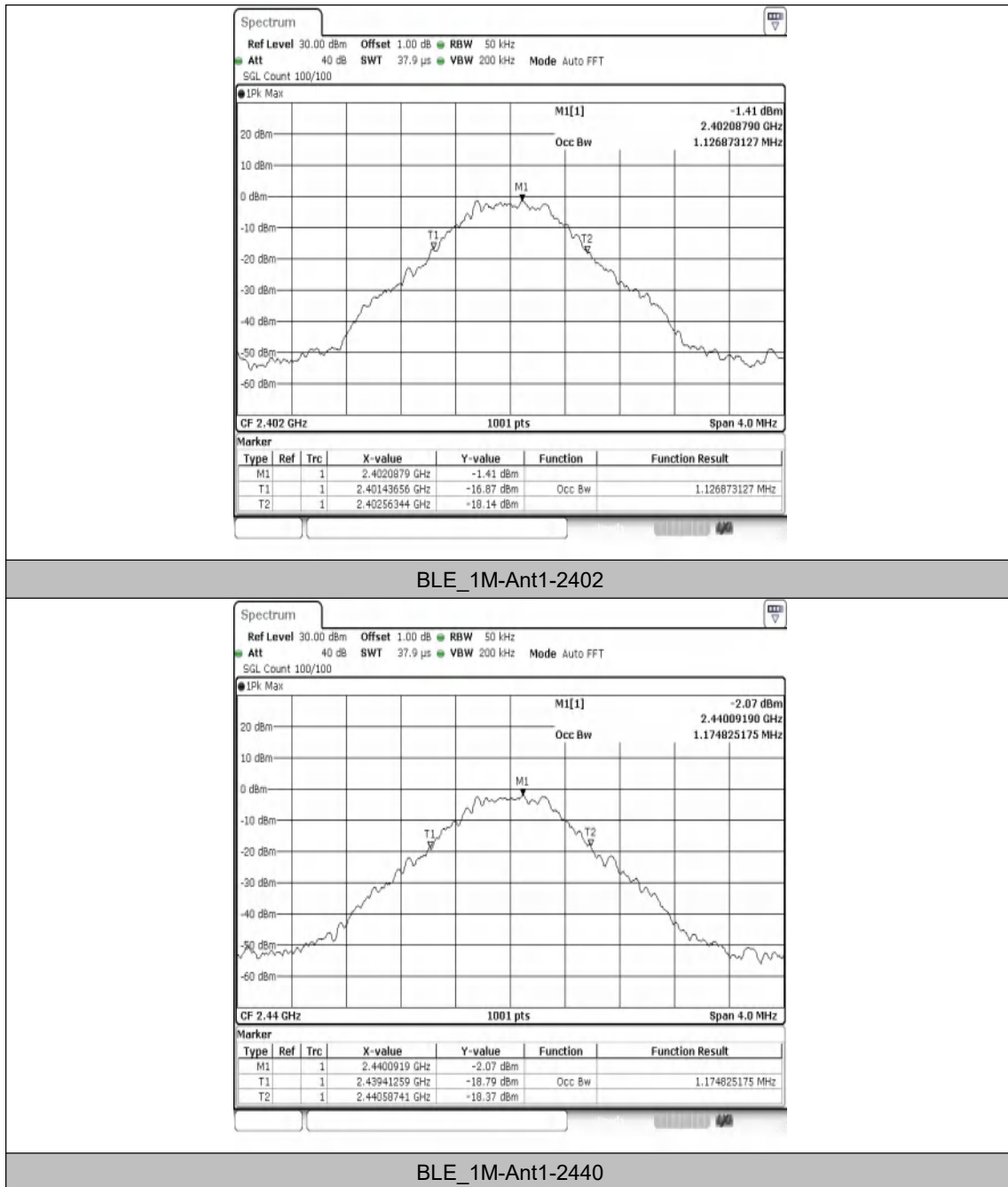


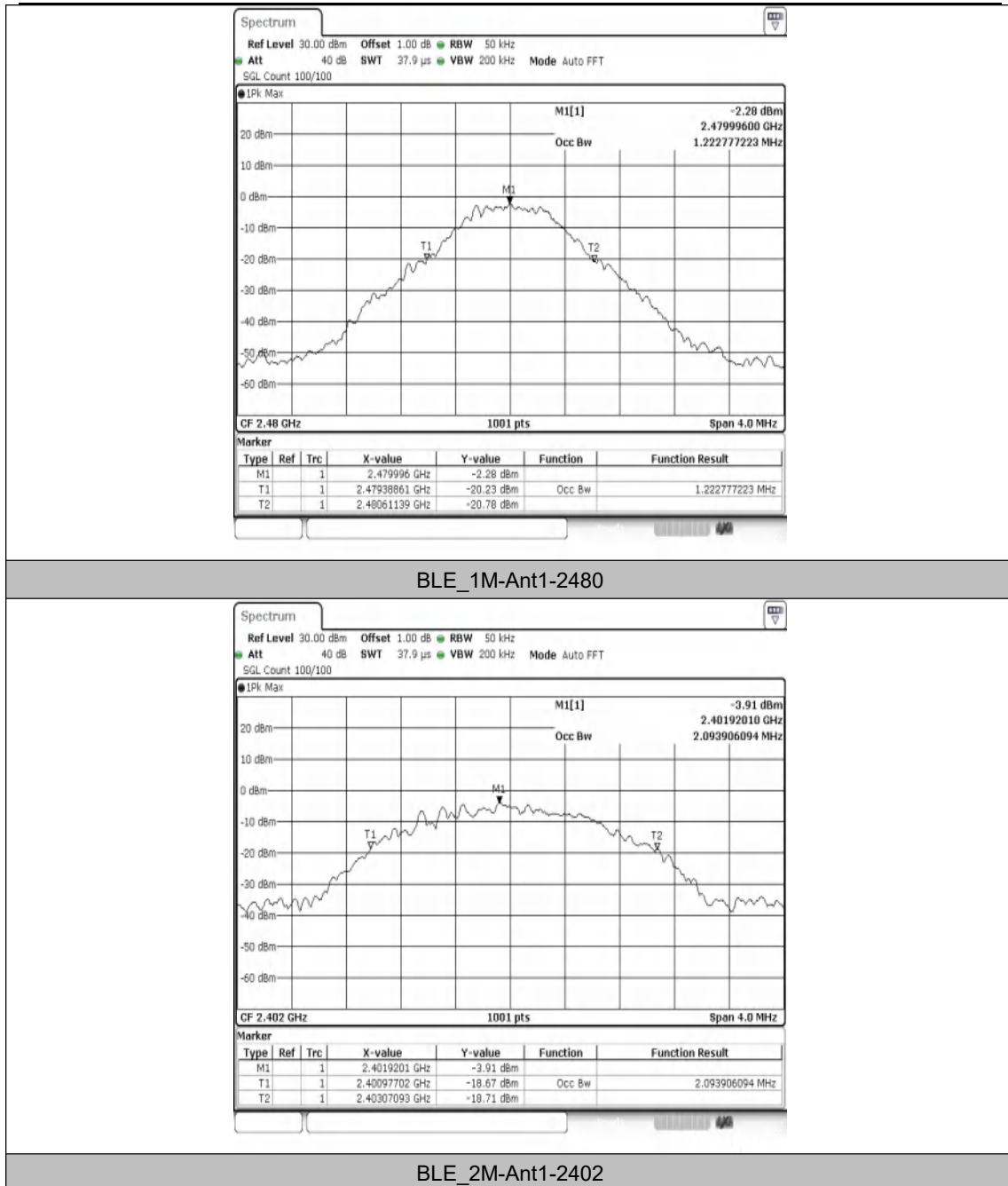
Appendix B: 99% Occupied Bandwidth

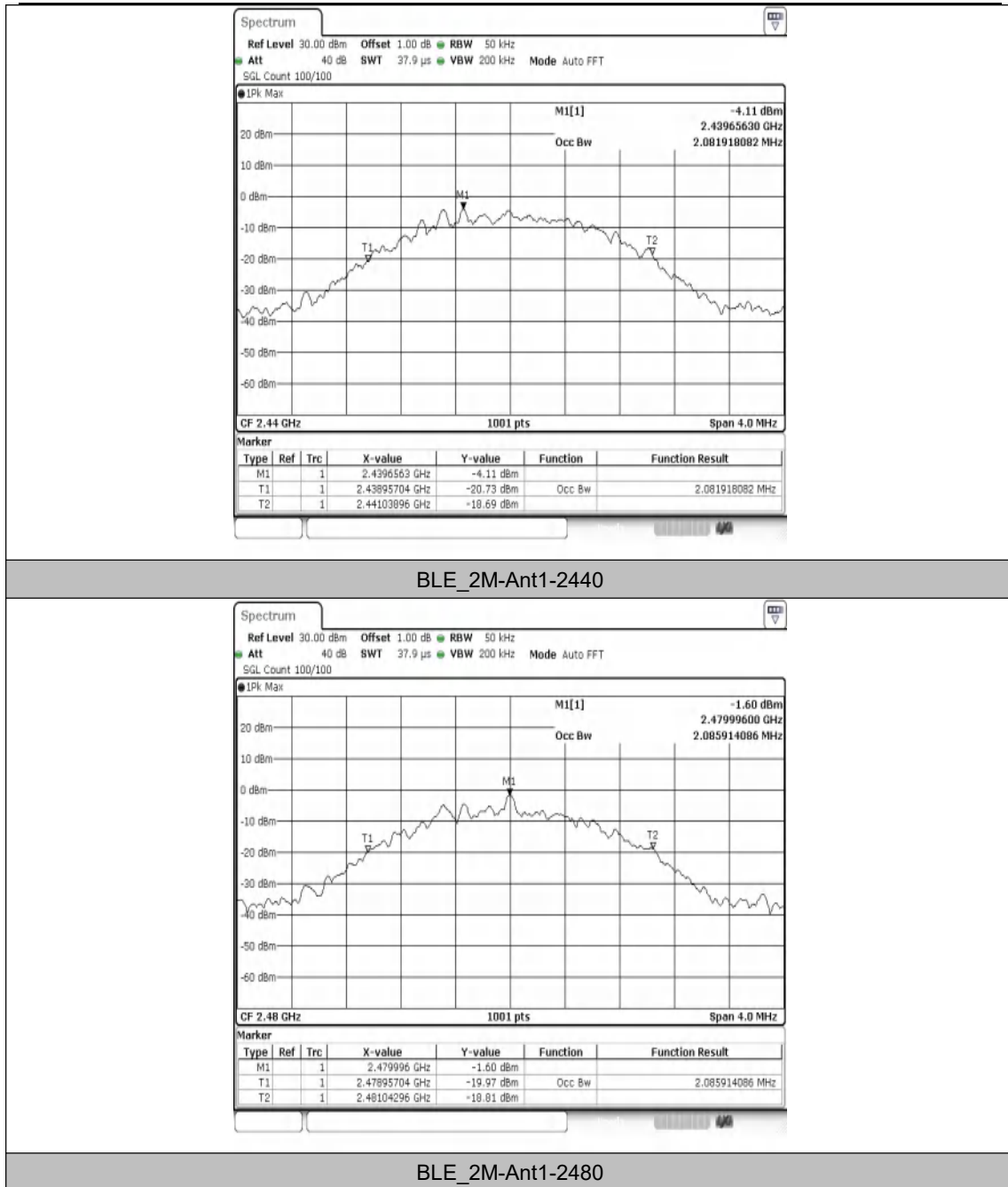
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1269	2401.4366	2402.5634	---	---
BLE_1M	Ant1	2440	1.1748	2439.4126	2440.5874	---	---
BLE_1M	Ant1	2480	1.2228	2479.3886	2480.6114	---	---
BLE_2M	Ant1	2402	2.0939	2400.9770	2403.0709	---	---
BLE_2M	Ant1	2440	2.0819	2438.9570	2441.0390	---	---
BLE_2M	Ant1	2480	2.0859	2478.9570	2481.0430	---	---

Test Graphs





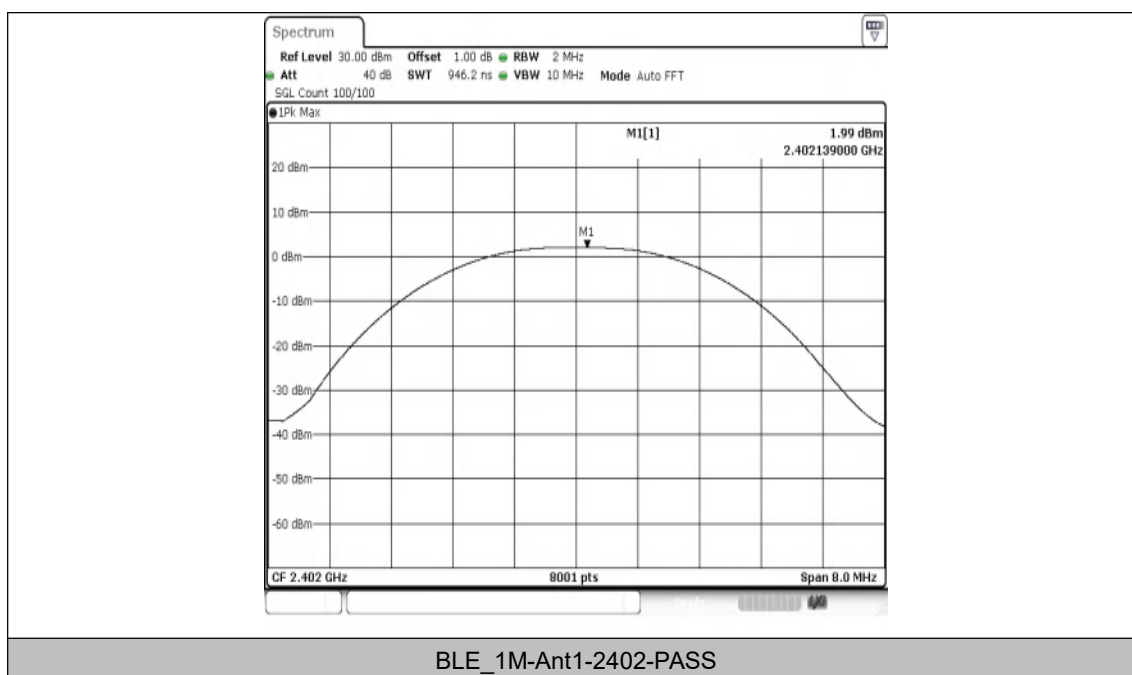


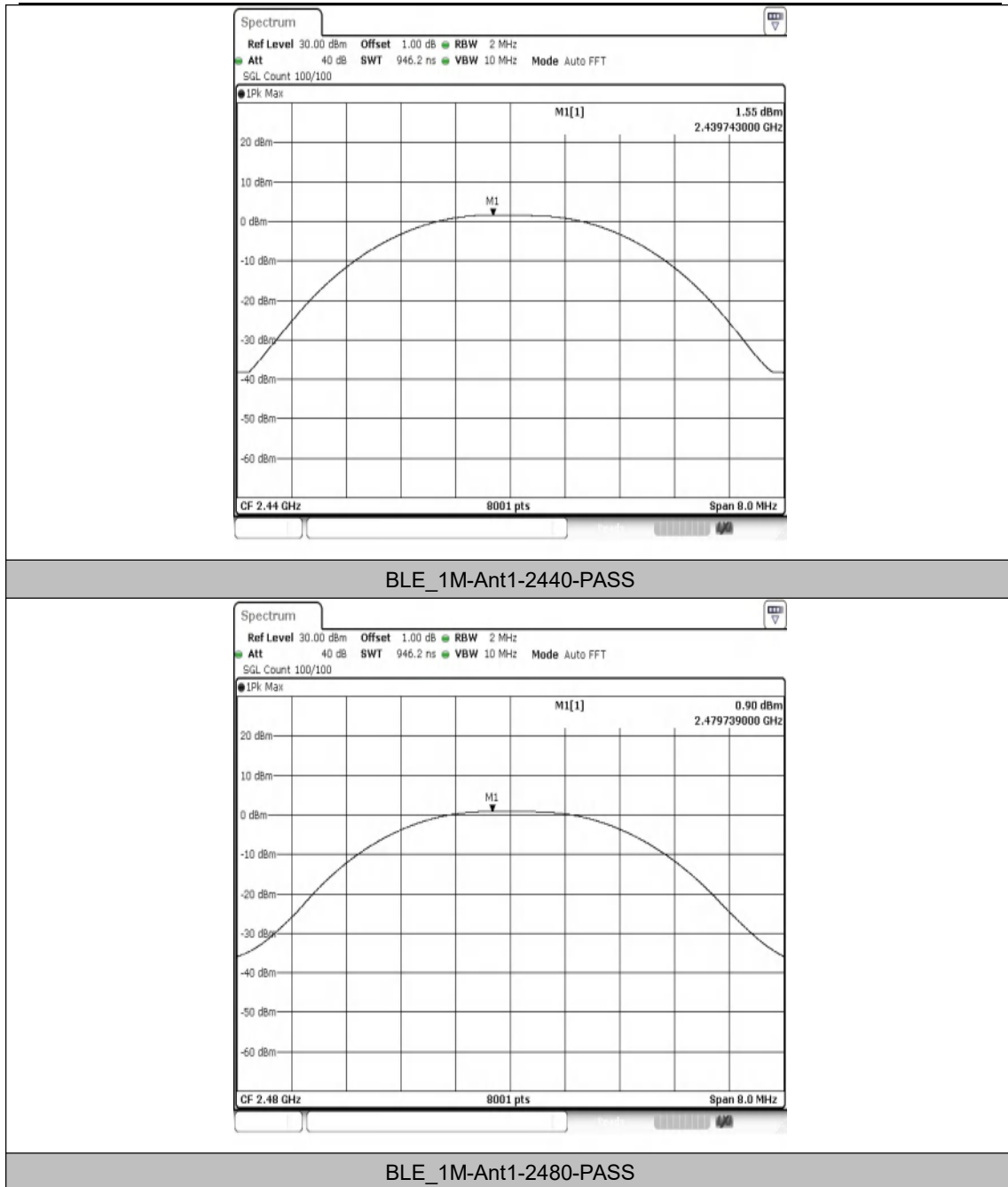
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.99	≤30	PASS
BLE_1M	Ant1	2440	1.55	≤30	PASS
BLE_1M	Ant1	2480	0.90	≤30	PASS
BLE_2M	Ant1	2402	1.94	≤30	PASS
BLE_2M	Ant1	2440	1.51	≤30	PASS
BLE_2M	Ant1	2480	0.94	≤30	PASS

Test Graphs Peak

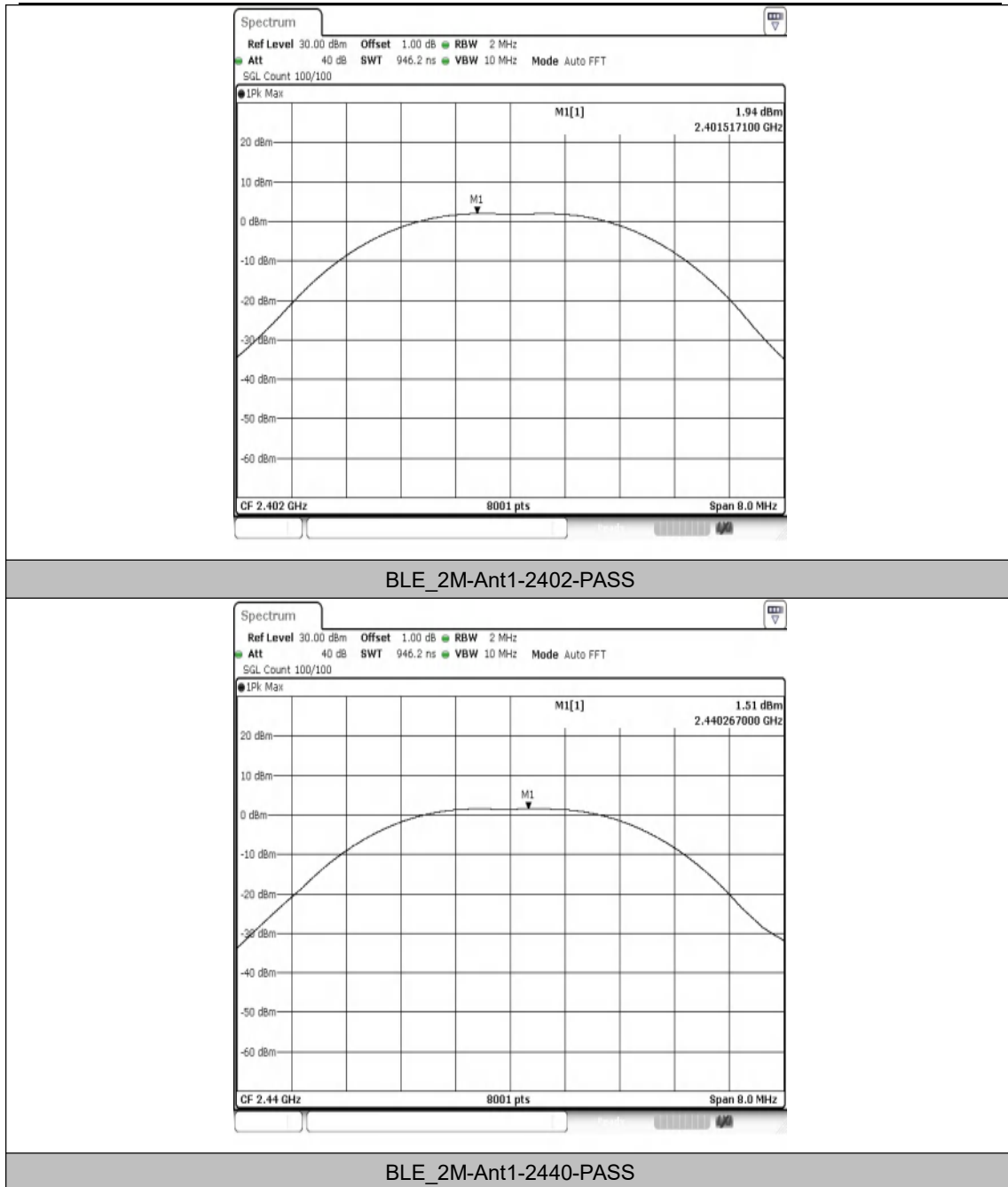




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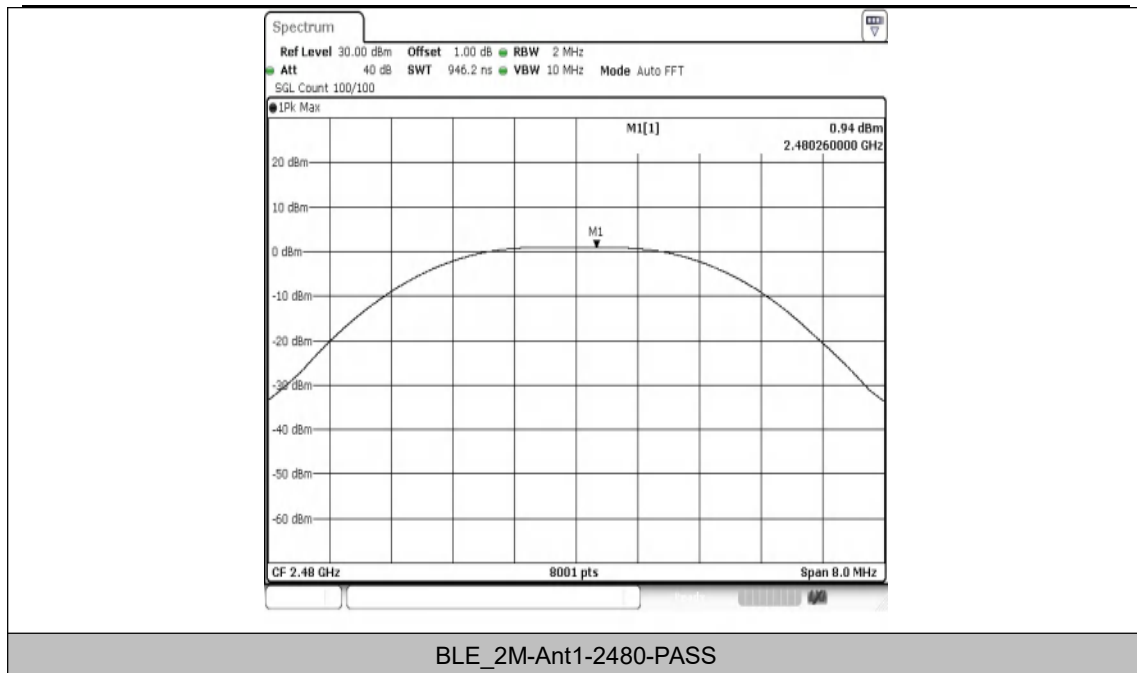
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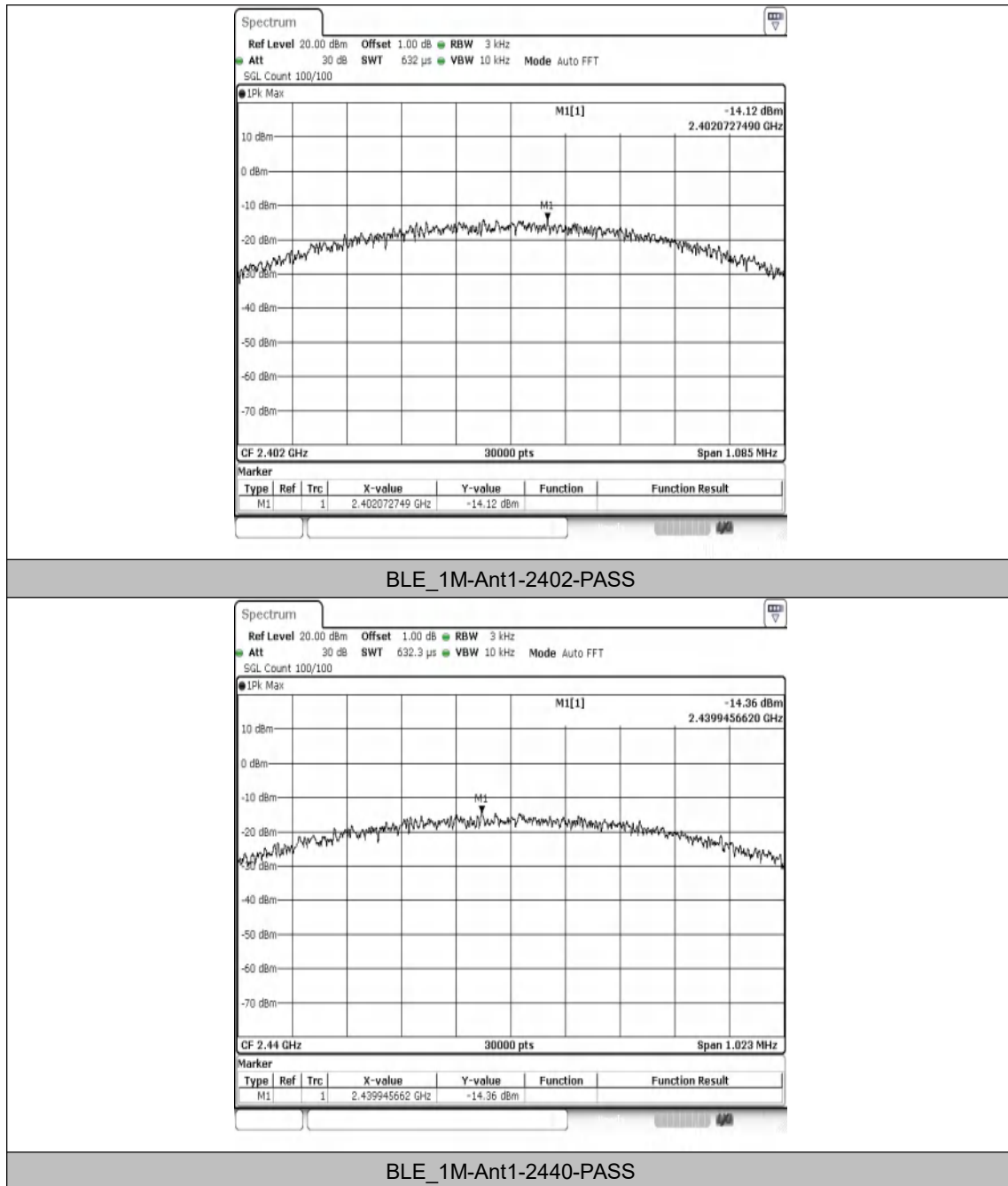
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.12	≤8.00	PASS
BLE_1M	Ant1	2440	-14.36	≤8.00	PASS
BLE_1M	Ant1	2480	-15.42	≤8.00	PASS
BLE_2M	Ant1	2402	-17.53	≤8.00	PASS
BLE_2M	Ant1	2440	-17.47	≤8.00	PASS
BLE_2M	Ant1	2480	-17.94	≤8.00	PASS

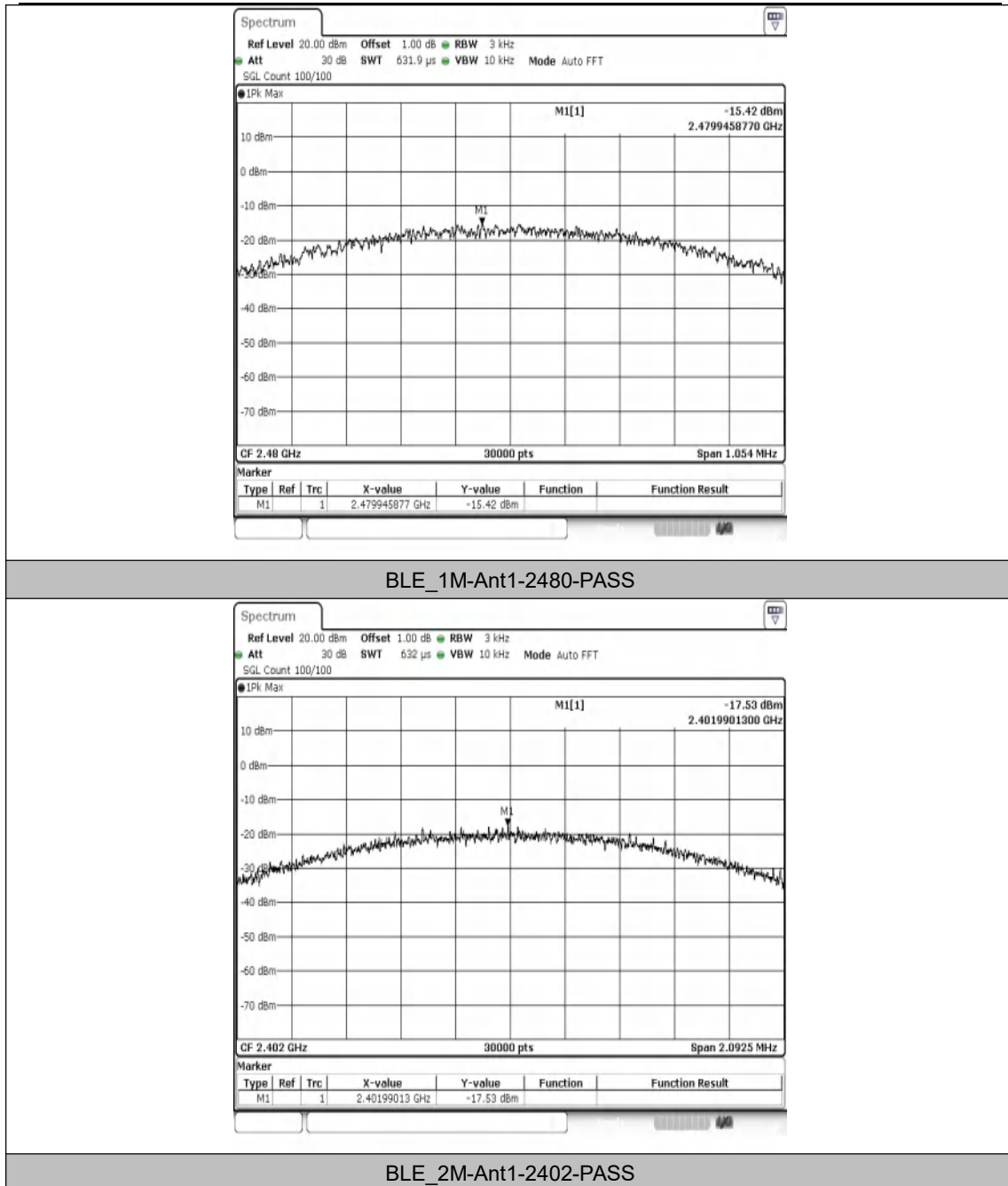
Test Graphs

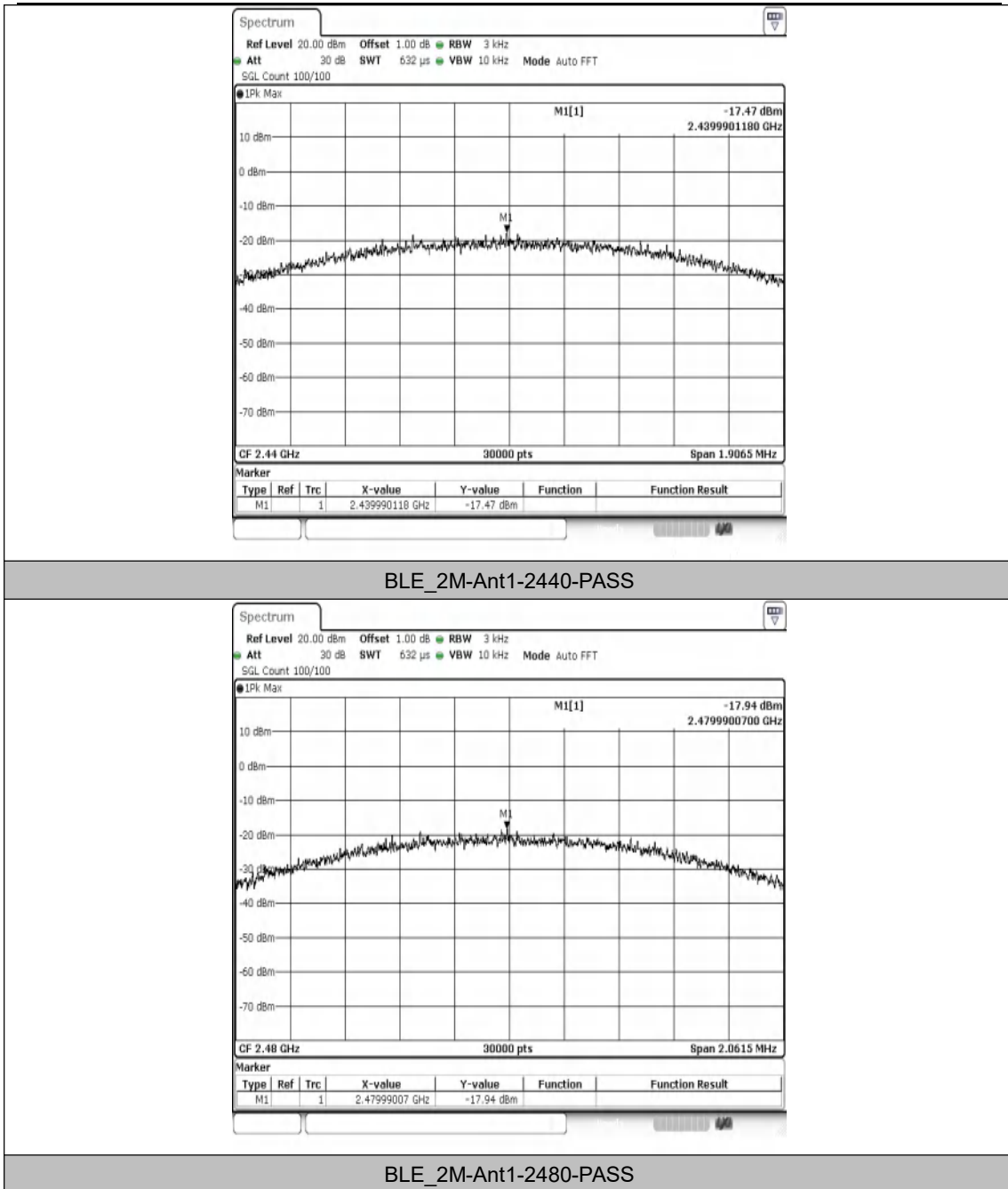


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Appendix E: Band edge measurements

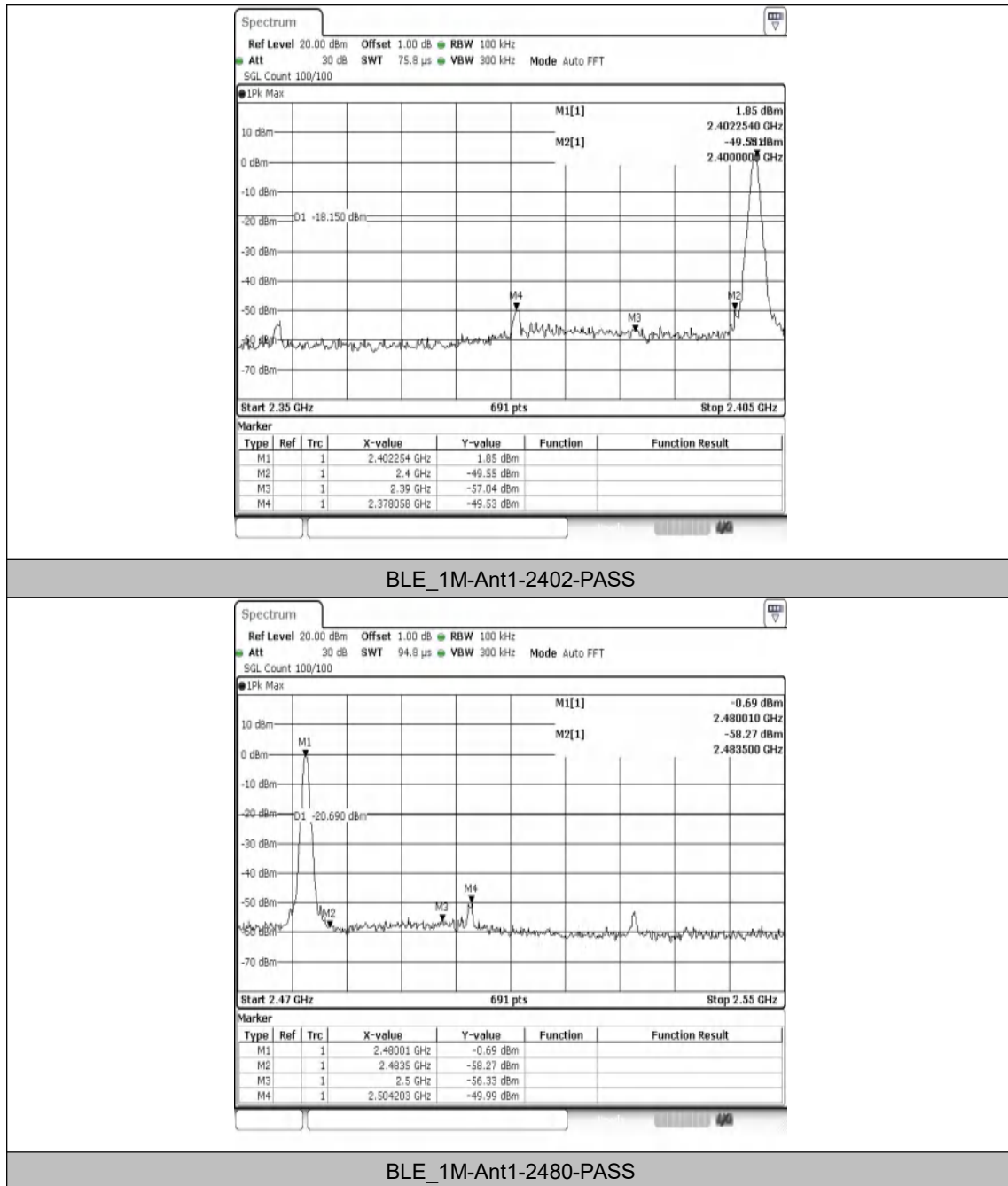
Test Result

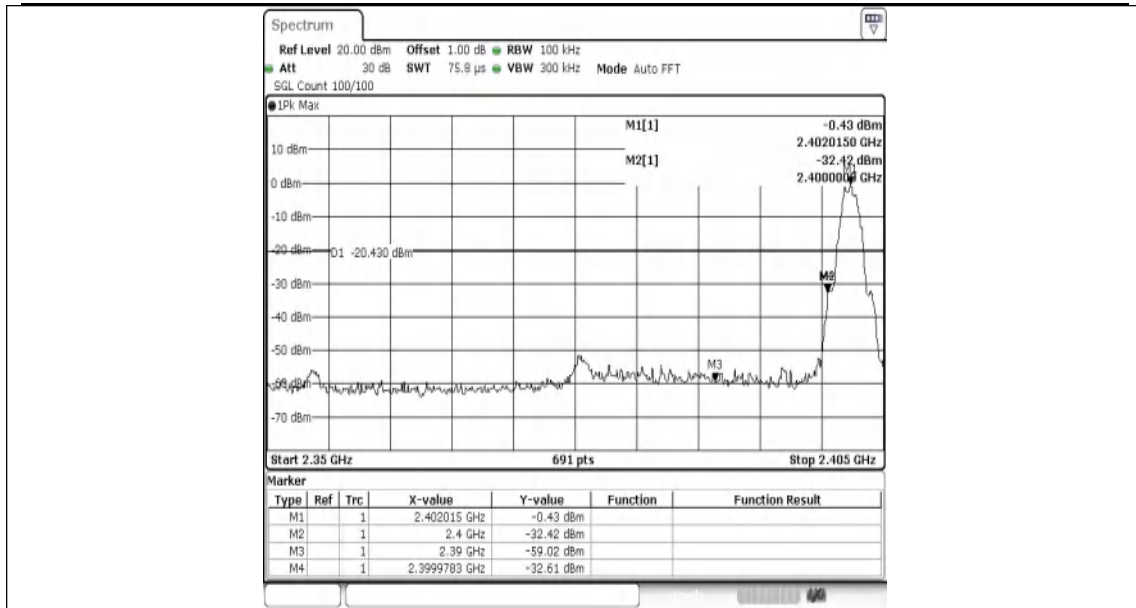
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.85	-49.53	≤-18.15	PASS
BLE_1M	Ant1	High	2480	-0.69	-49.99	≤-20.69	PASS
BLE_2M	Ant1	Low	2402	-0.43	-32.61	≤-20.43	PASS
BLE_2M	Ant1	High	2480	-2.25	-50.96	≤-22.25	PASS

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.

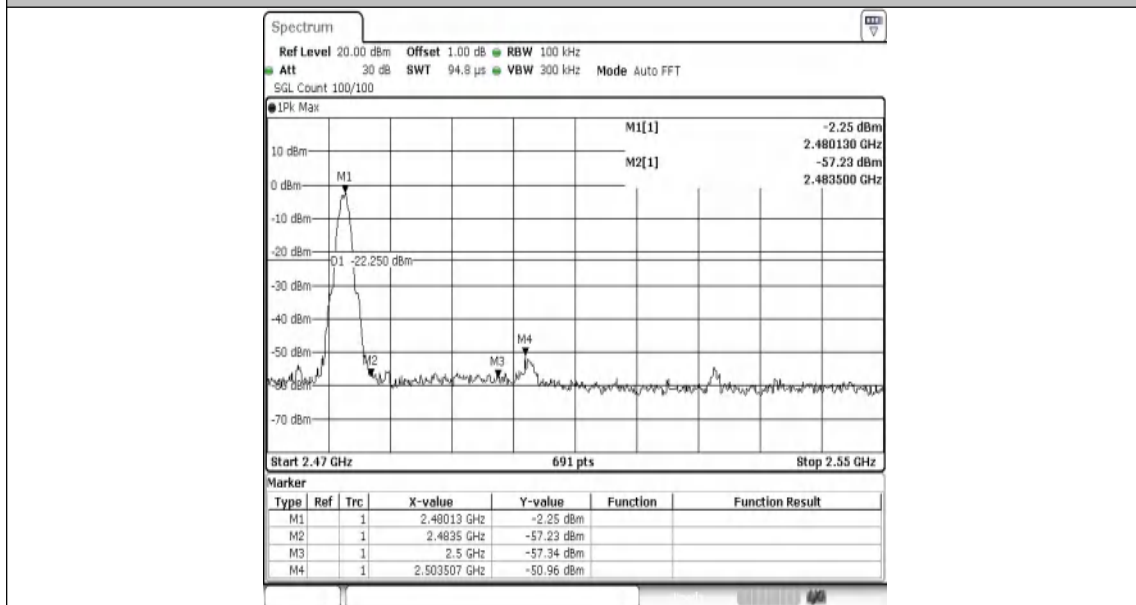


Test Graphs





BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2480-PASS

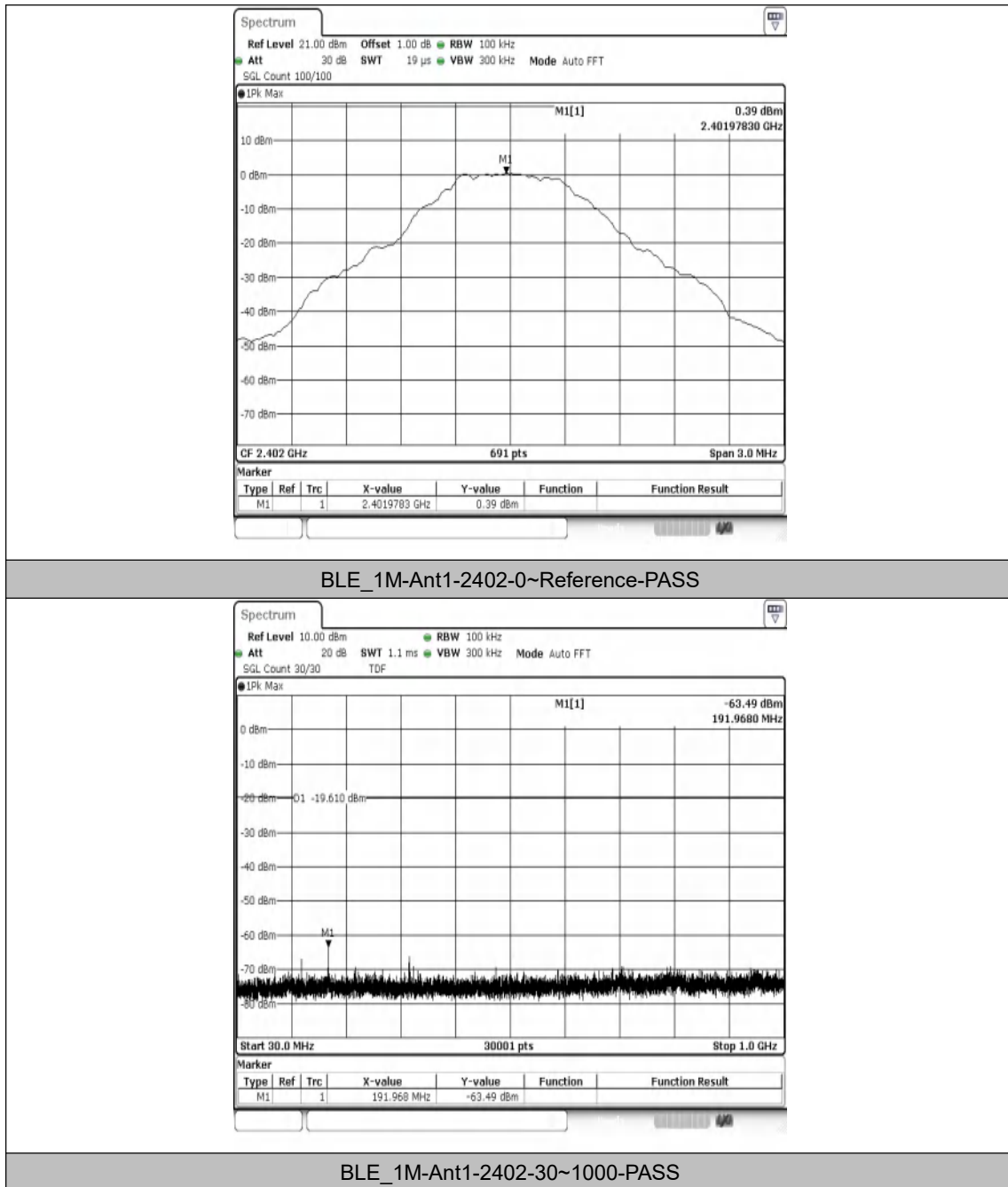
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.39	0.39	---	PASS
BLE_1M	Ant1	2402	30~1000	0.39	-63.49	≤-19.61	PASS
BLE_1M	Ant1	2402	1000~26500	0.39	-39.84	≤-19.61	PASS
BLE_1M	Ant1	2440	0~Reference	0.89	0.89	---	PASS
BLE_1M	Ant1	2440	30~1000	0.89	-65.41	≤-19.11	PASS
BLE_1M	Ant1	2440	1000~26500	0.89	-38.99	≤-19.11	PASS
BLE_1M	Ant1	2480	0~Reference	0.24	0.24	---	PASS
BLE_1M	Ant1	2480	30~1000	0.24	-58.37	≤-19.76	PASS
BLE_1M	Ant1	2480	1000~26500	0.24	-36.35	≤-19.76	PASS
BLE_2M	Ant1	2402	0~Reference	-1.71	-1.71	---	PASS
BLE_2M	Ant1	2402	30~1000	-1.71	-62.48	≤-21.71	PASS
BLE_2M	Ant1	2402	1000~26500	-1.71	-41.74	≤-21.71	PASS
BLE_2M	Ant1	2440	0~Reference	0.03	0.03	---	PASS
BLE_2M	Ant1	2440	30~1000	0.03	-64.53	≤-19.97	PASS
BLE_2M	Ant1	2440	1000~26500	0.03	-40.87	≤-19.97	PASS
BLE_2M	Ant1	2480	0~Reference	-2.08	-2.08	---	PASS
BLE_2M	Ant1	2480	30~1000	-2.08	-60.77	≤-22.08	PASS
BLE_2M	Ant1	2480	1000~26500	-2.08	-38	≤-22.08	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.

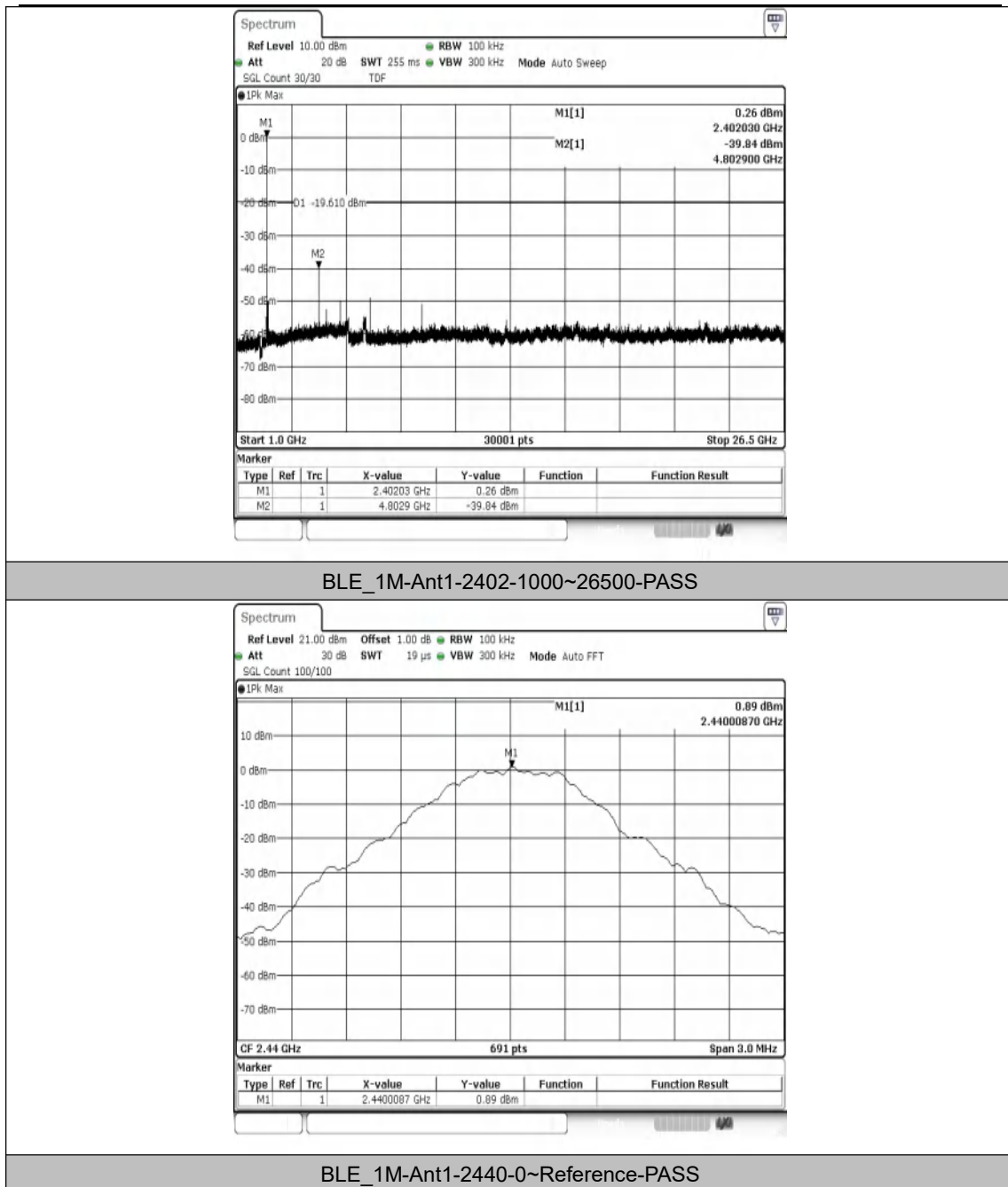
Test Graphs



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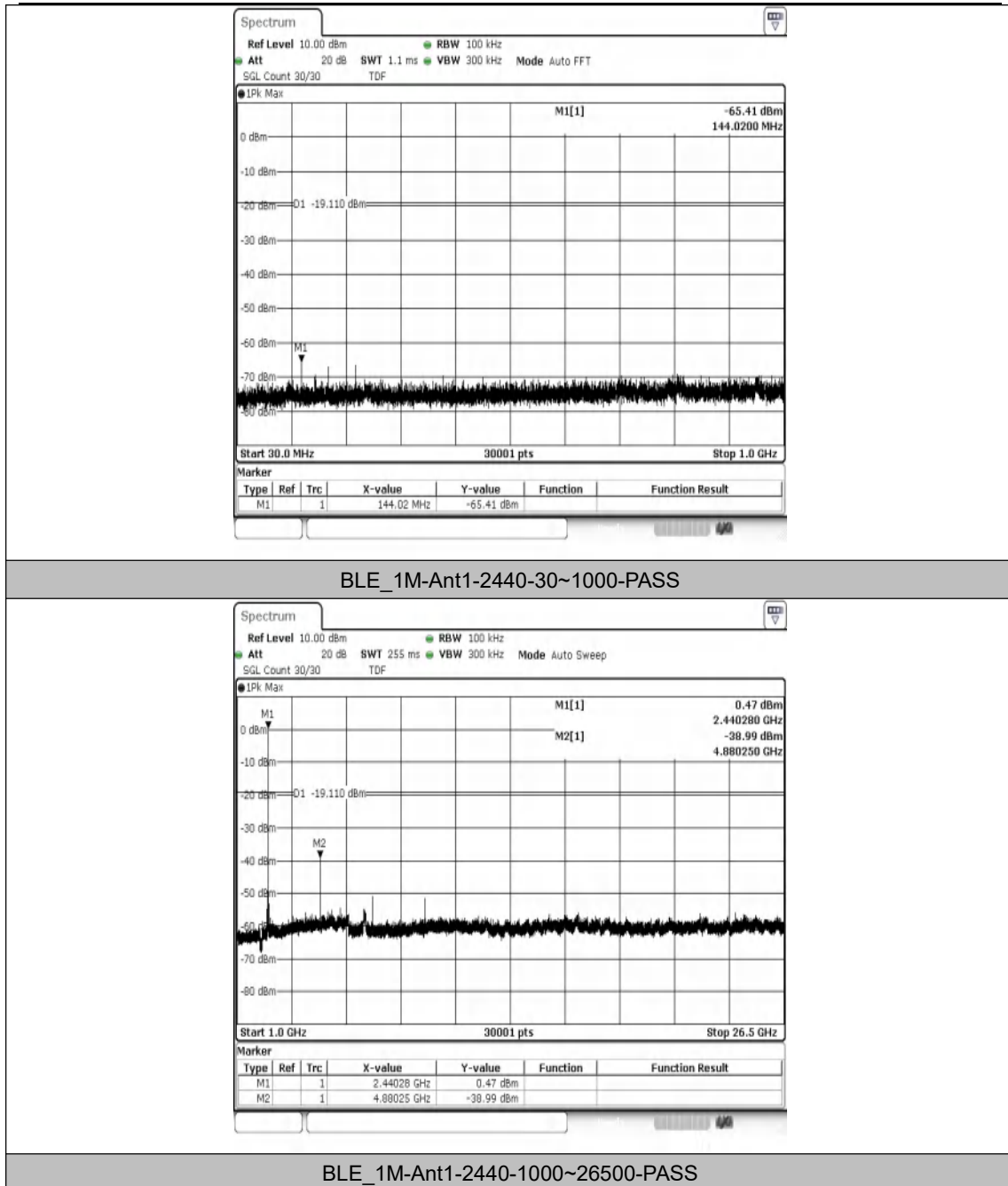
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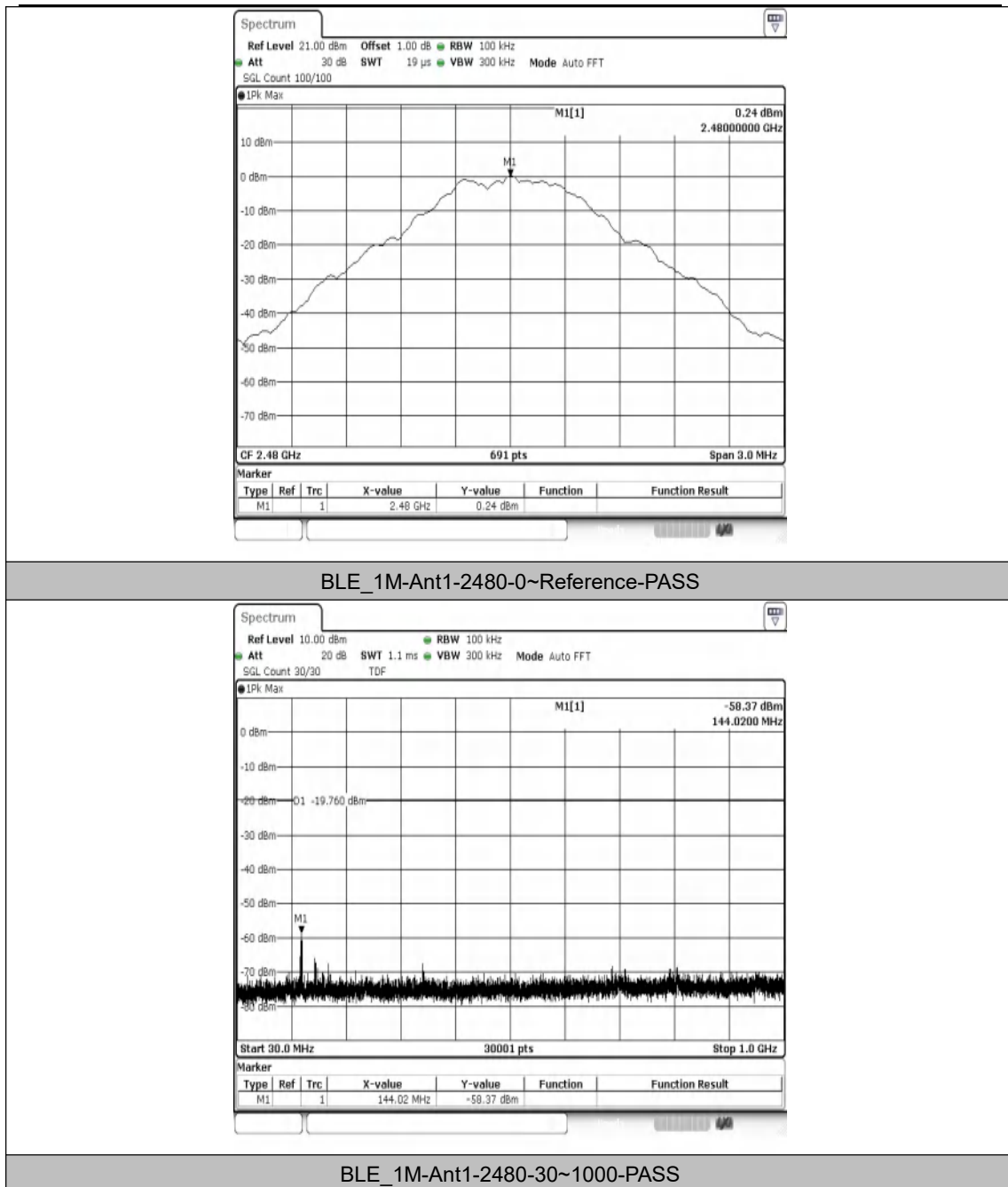


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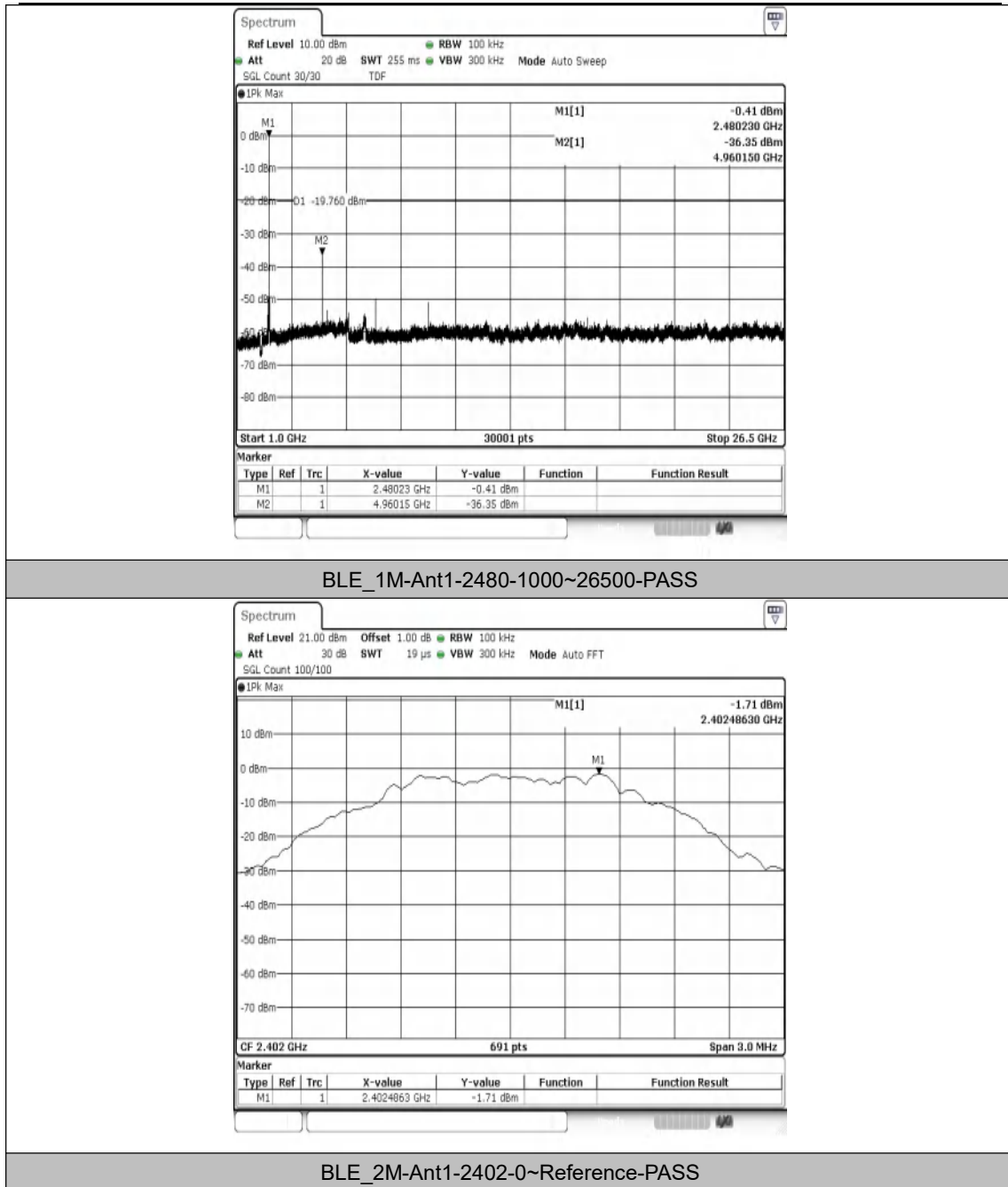


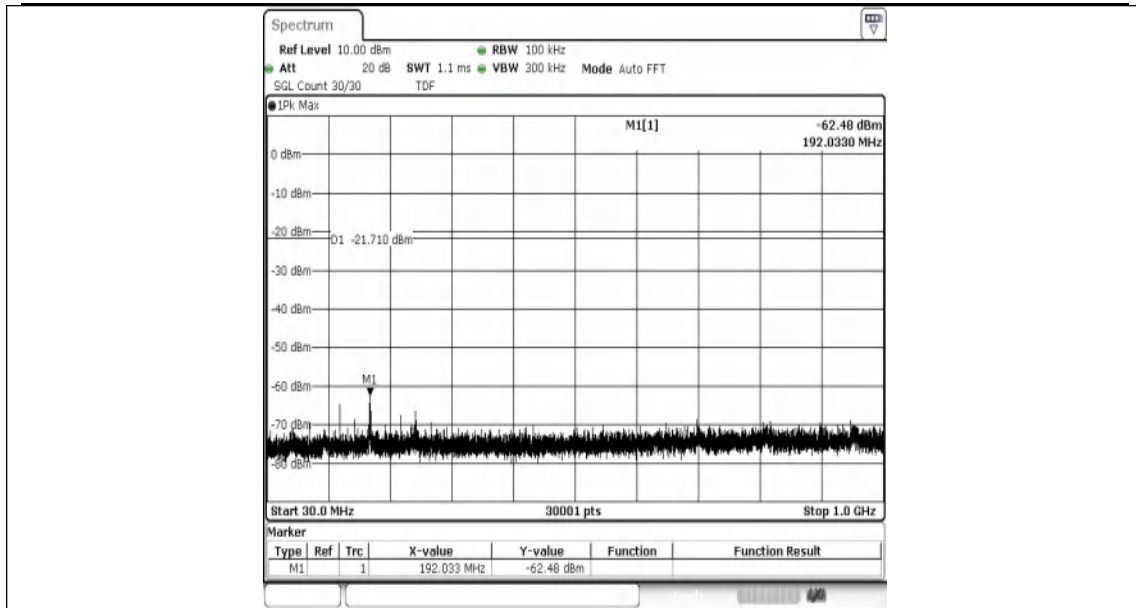


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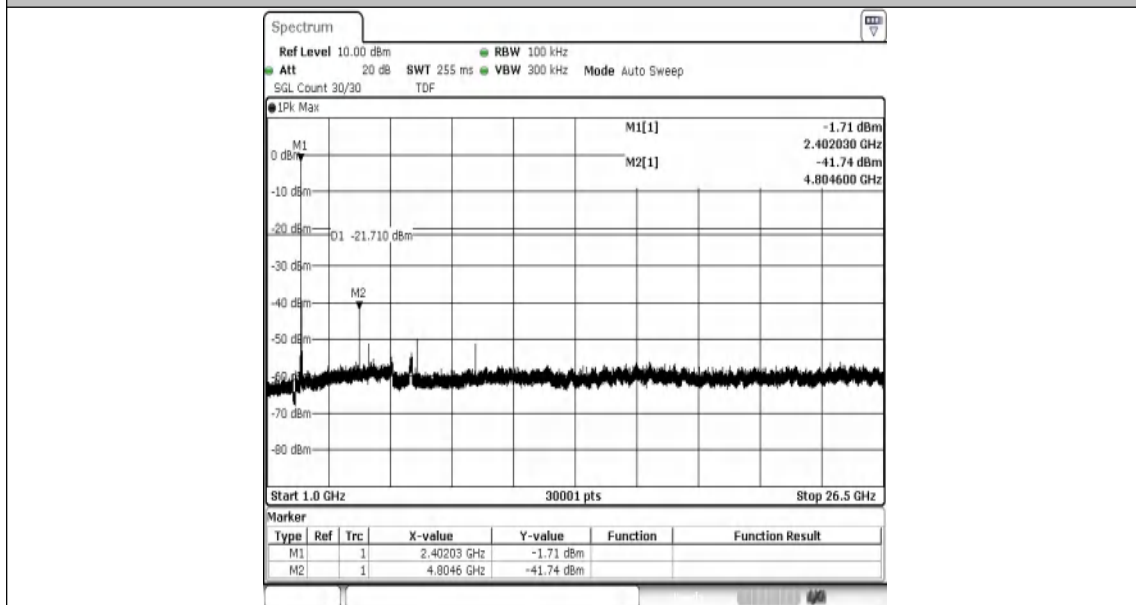
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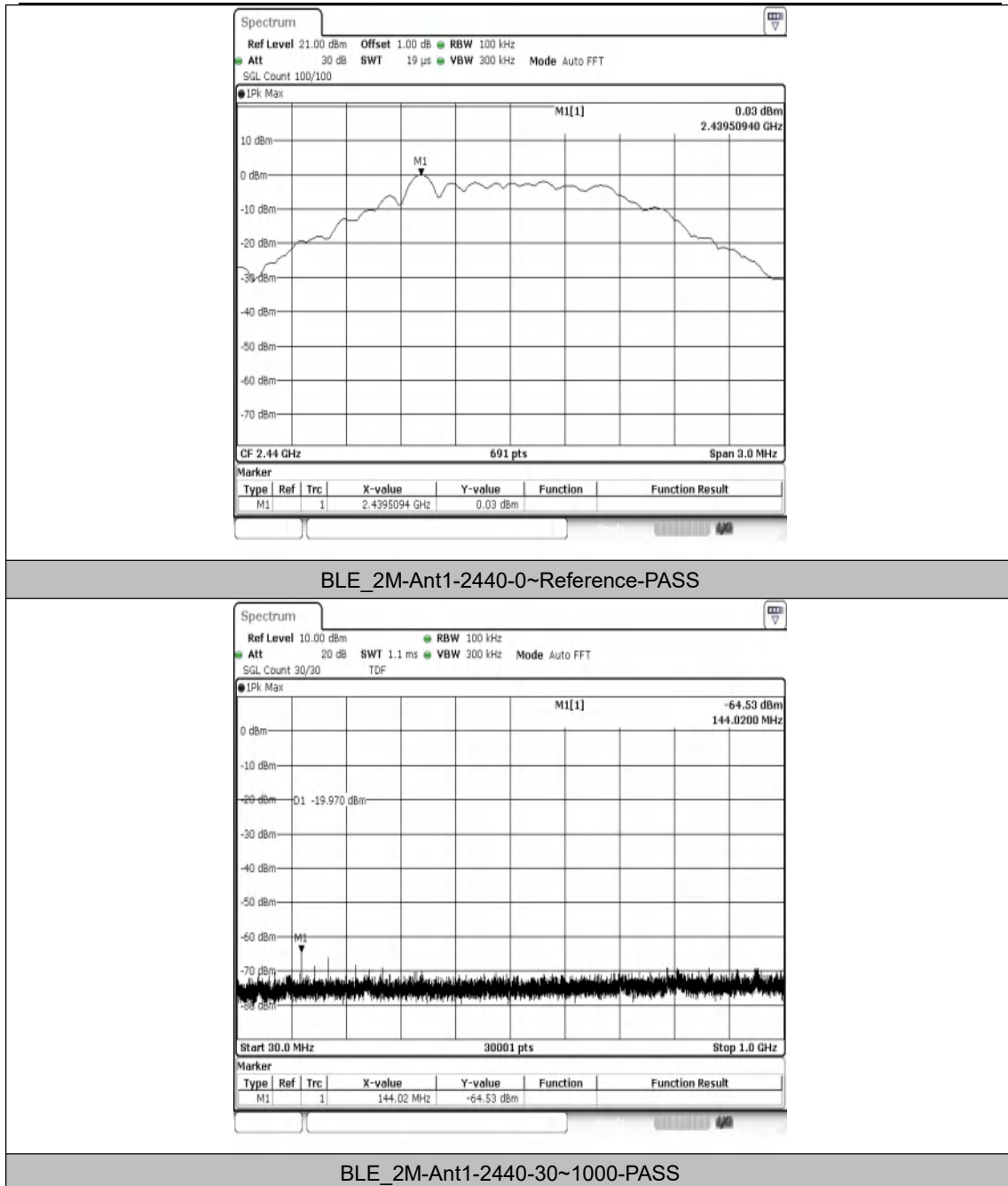


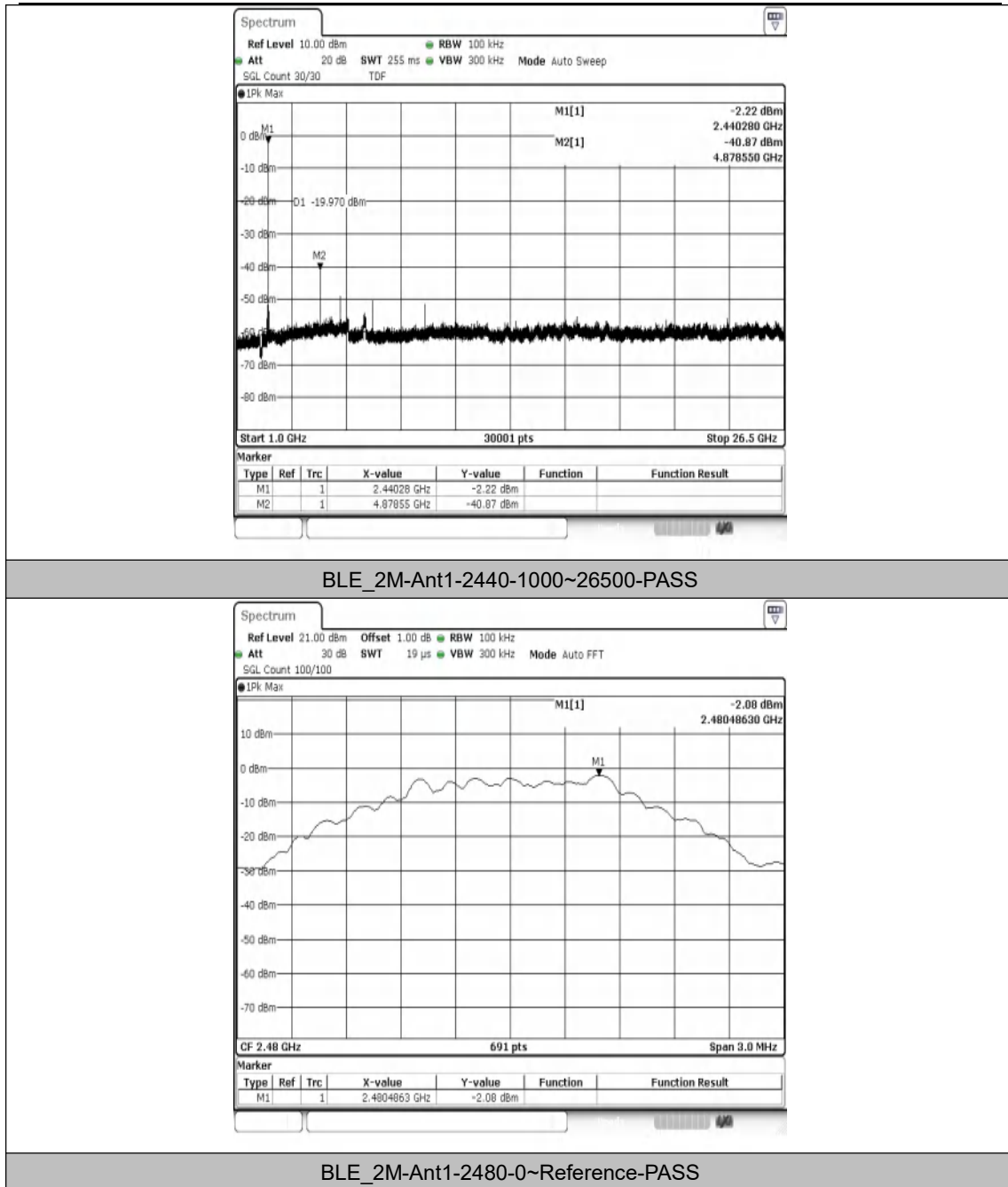


BLE_2M-Ant1-2402-30~1000-PASS



BLE_2M-Ant1-2402-1000~26500-PASS

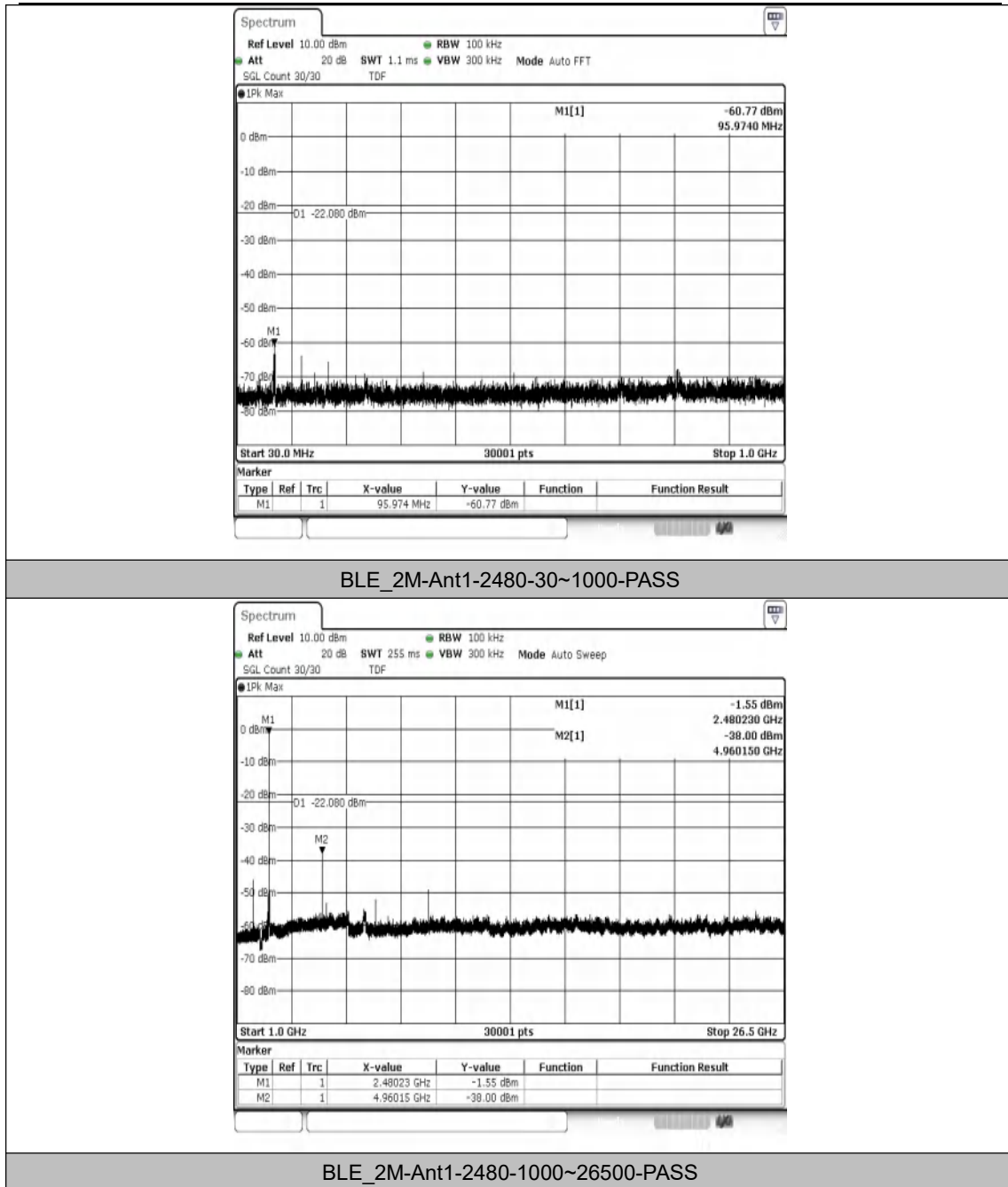




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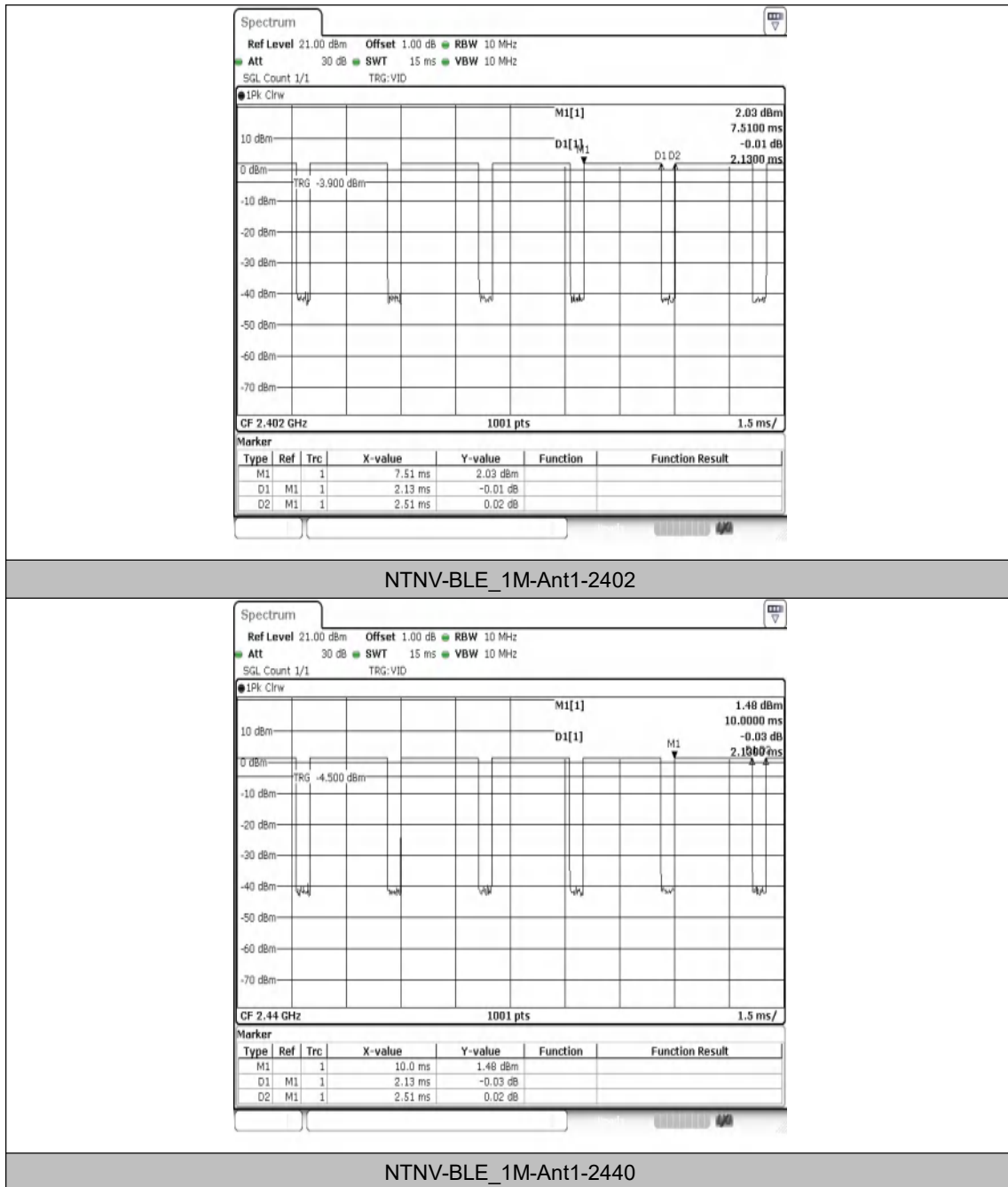


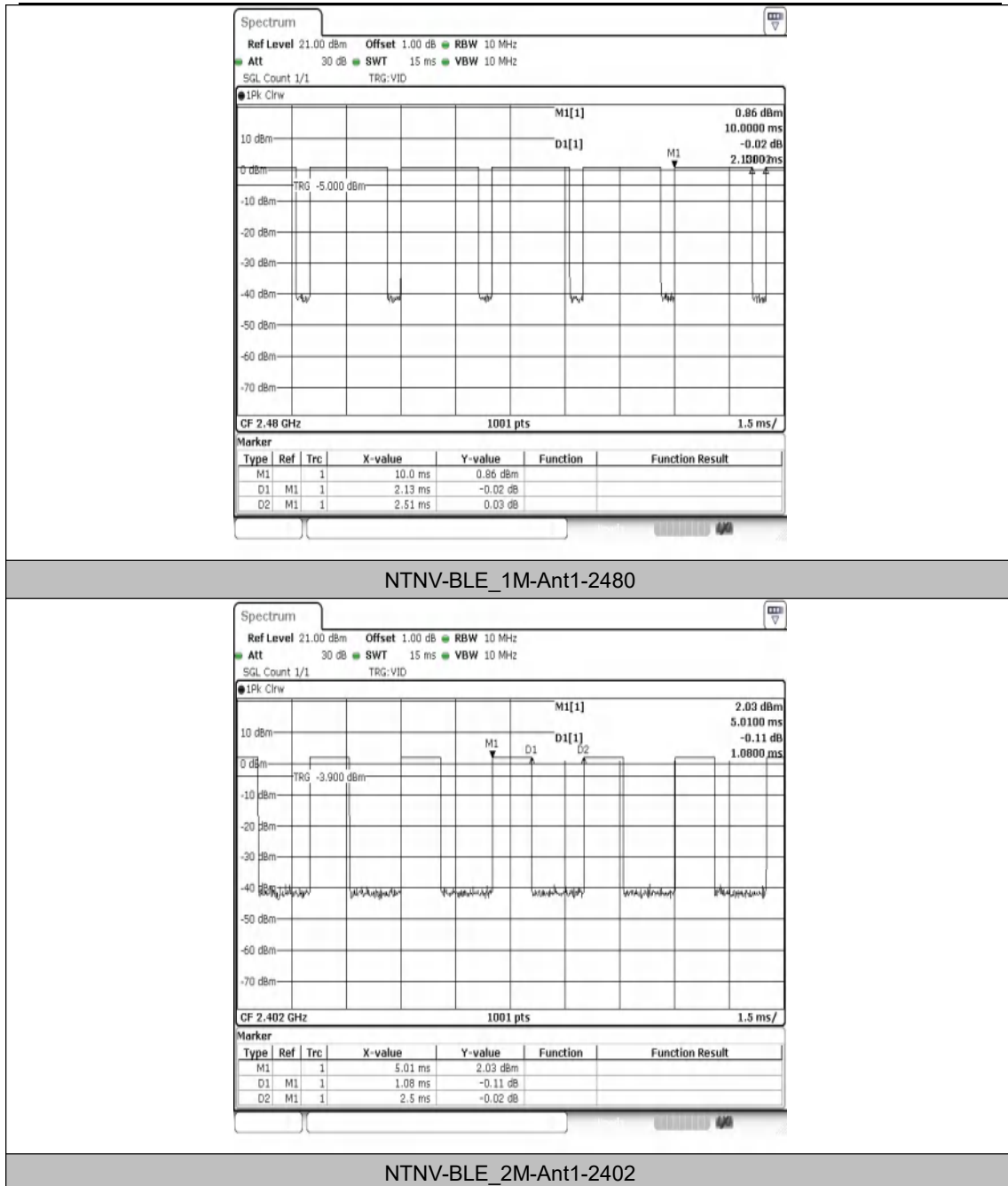
Appendix G: Duty Cycle

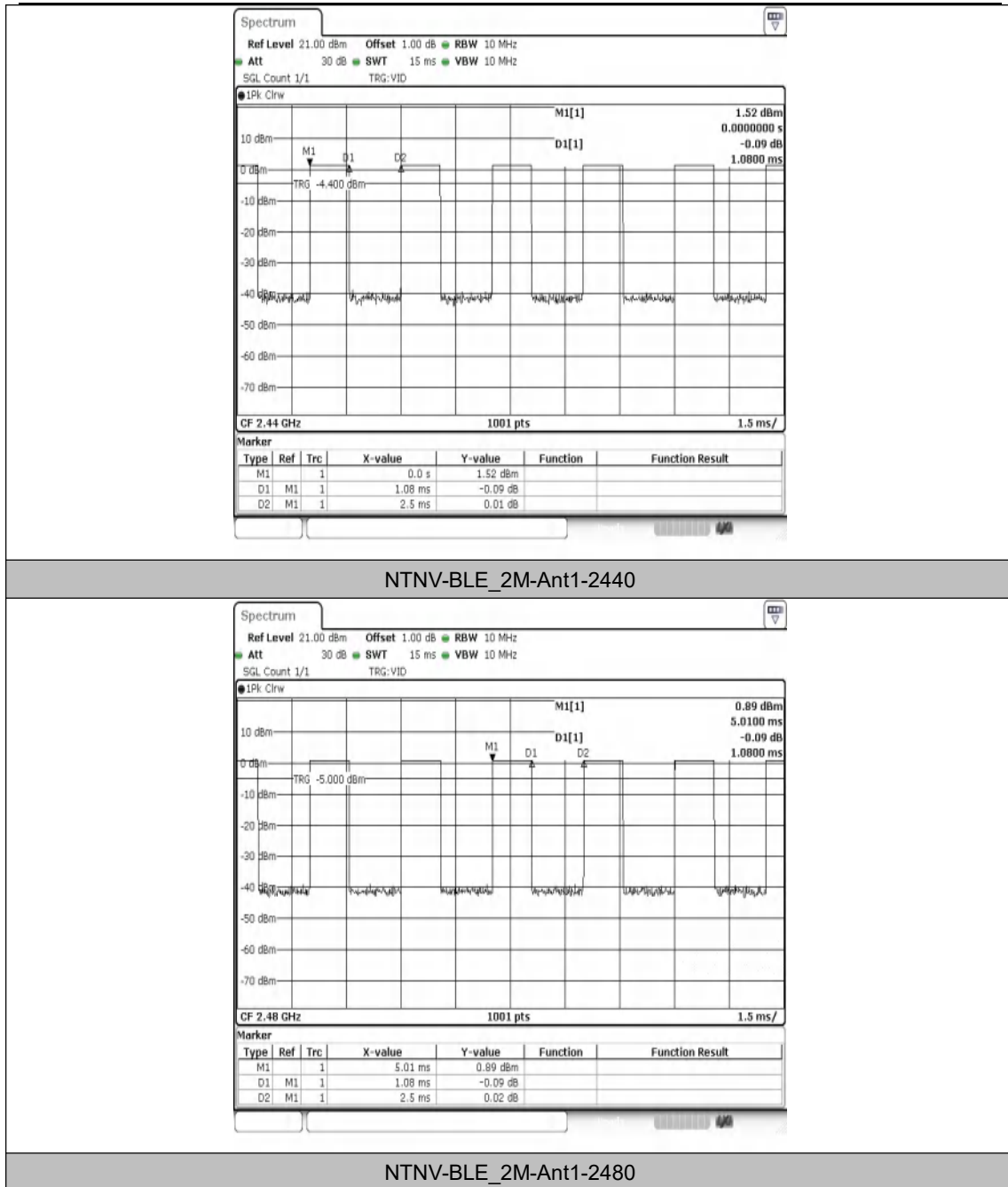
Test Result

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	2.51	84.86	0.71
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---