

Appendix Test Data

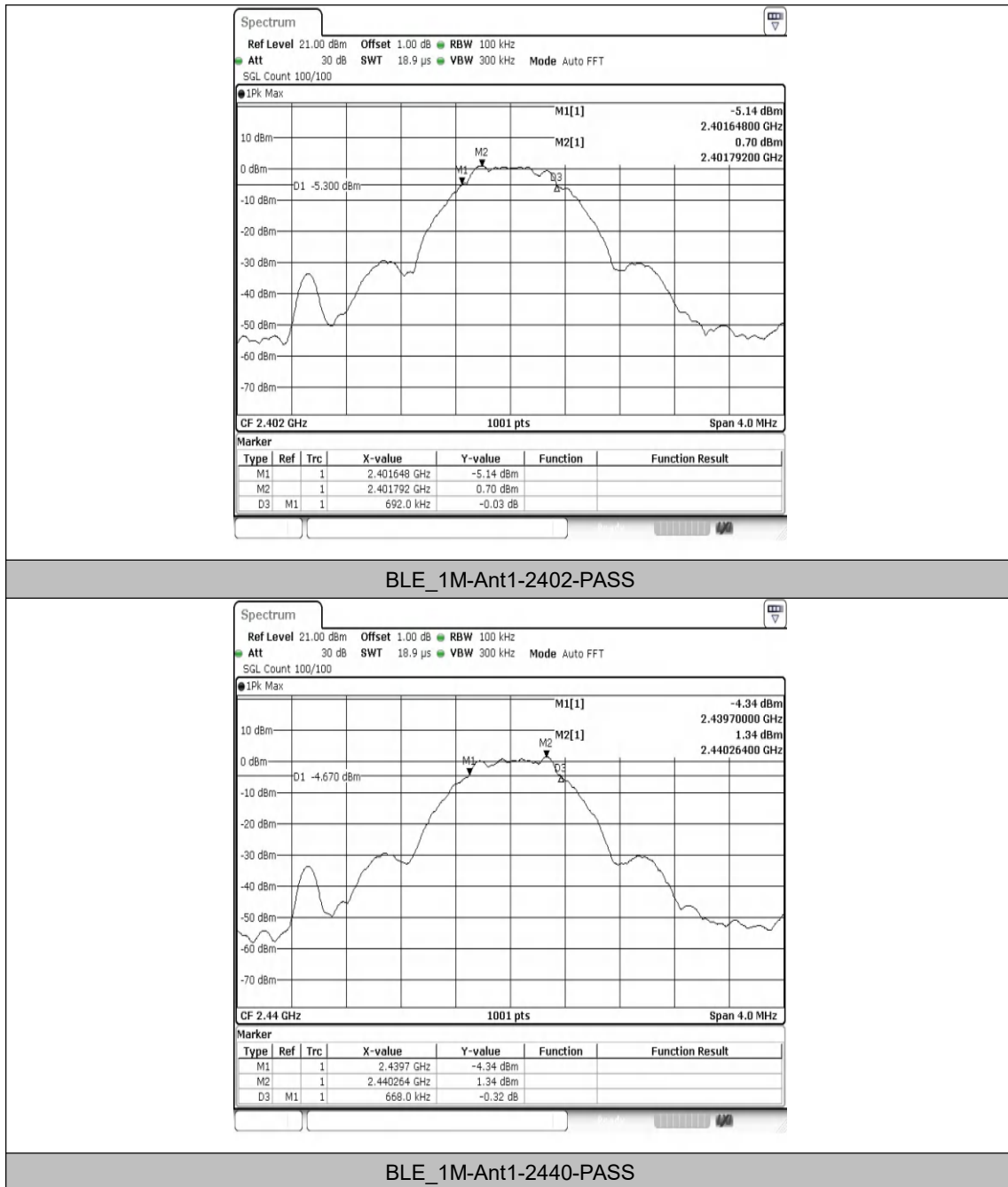
Report No.:	1812C50487912502	Test Sample No.:	1-2-2
Start Test Date:	2025-9-22	Finish Test Date:	2025-9-25
Test Engineer:	<i>dylan. Ma</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.7°C	Relative Humidity:	55%
Pressure:	101kPa		

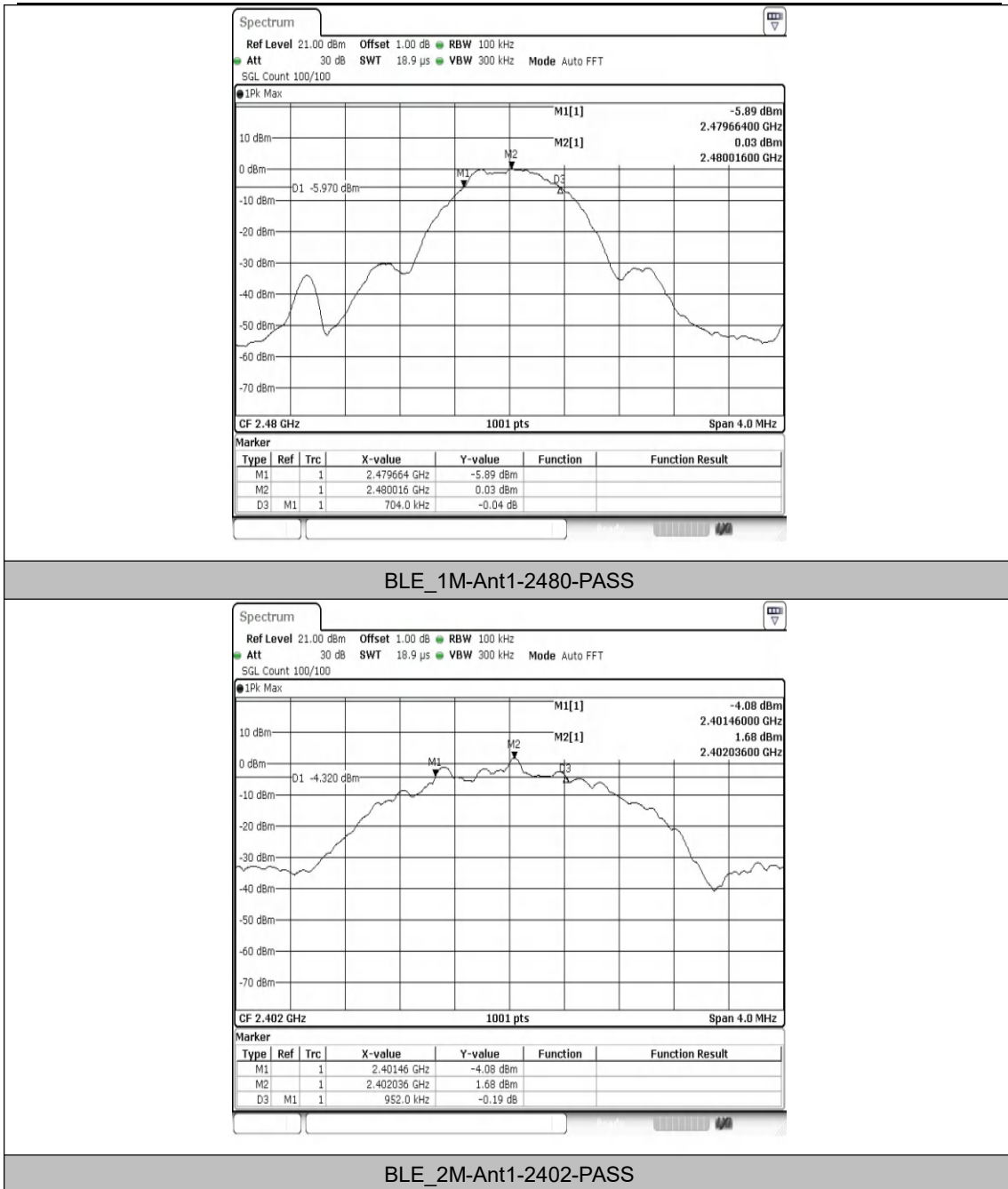
Appendix A: 6dB Bandwidth

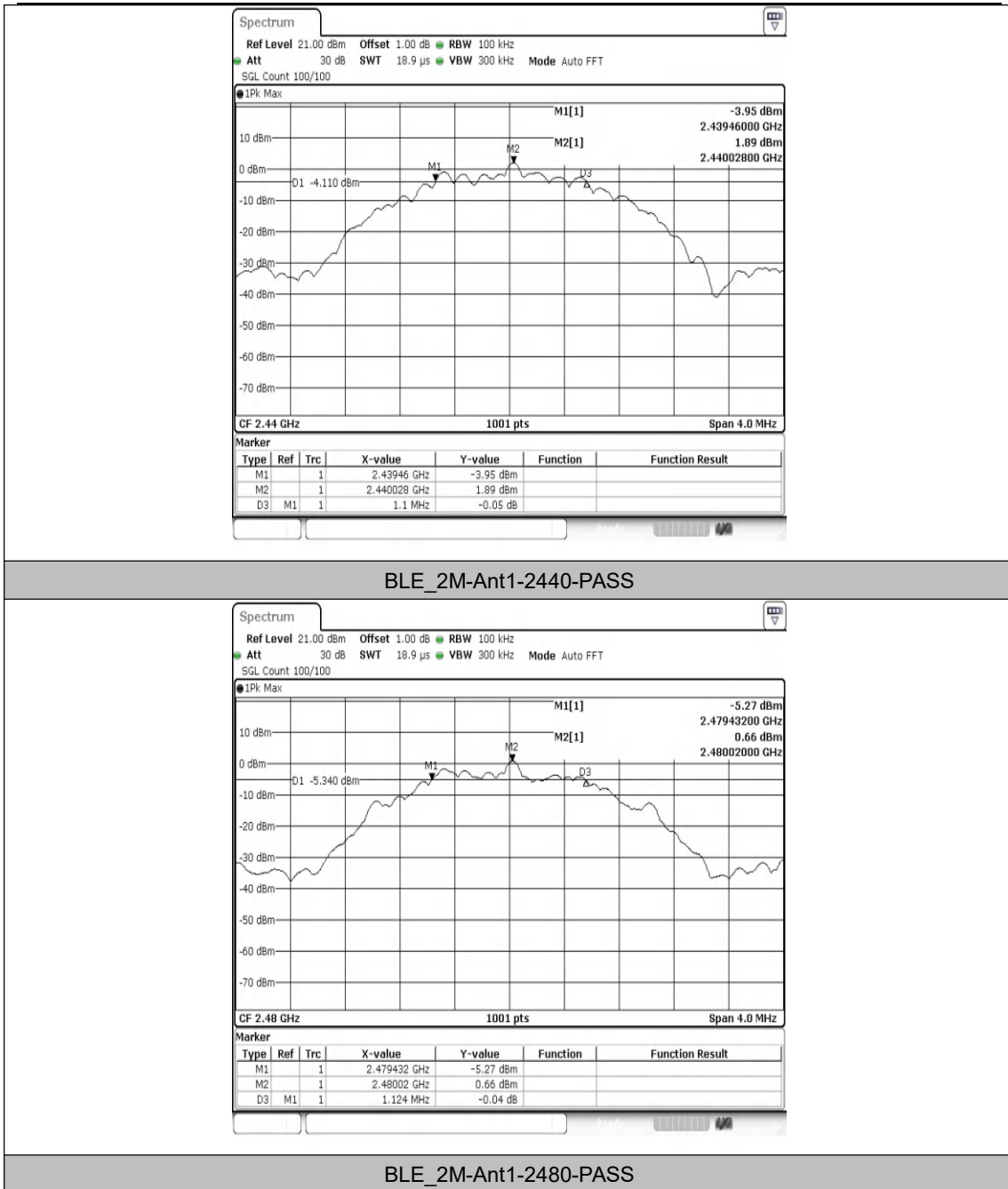
Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.69	2401.65	2402.34	0.5	PASS
BLE_1M	Ant1	2440	0.67	2439.70	2440.37	0.5	PASS
BLE_1M	Ant1	2480	0.70	2479.66	2480.37	0.5	PASS
BLE_2M	Ant1	2402	0.95	2401.46	2402.41	0.5	PASS
BLE_2M	Ant1	2440	1.10	2439.46	2440.56	0.5	PASS
BLE_2M	Ant1	2480	1.12	2479.43	2480.56	0.5	PASS

Test Graphs







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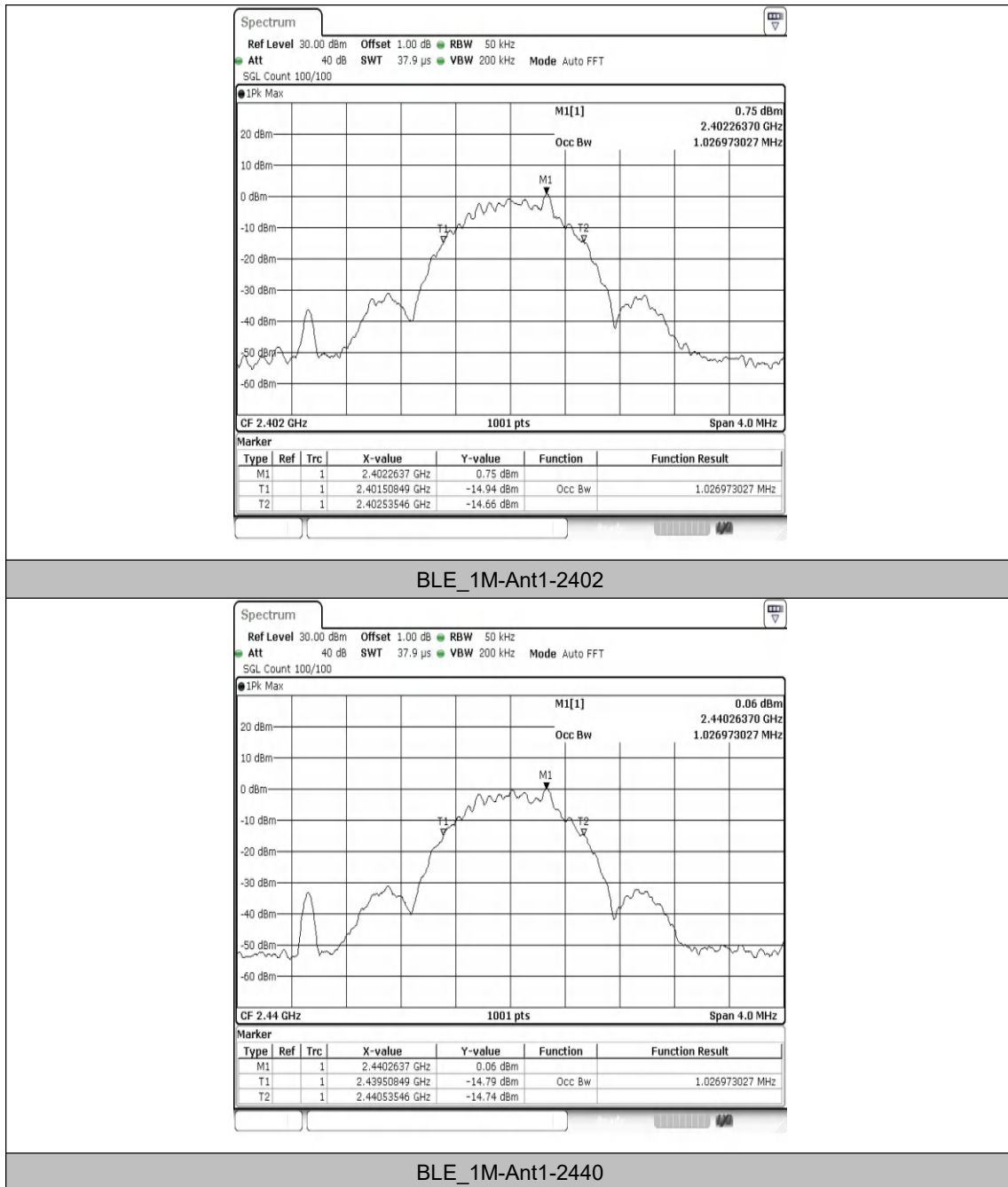
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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0270	2401.5085	2402.5355	---	---
BLE_1M	Ant1	2440	1.0270	2439.5085	2440.5355	---	---
BLE_1M	Ant1	2480	1.0310	2479.5085	2480.5395	---	---
BLE_2M	Ant1	2402	2.0699	2400.9970	2403.0669	---	---
BLE_2M	Ant1	2440	2.0579	2439.0050	2441.0629	---	---
BLE_2M	Ant1	2480	2.0619	2478.9930	2481.0549	---	---

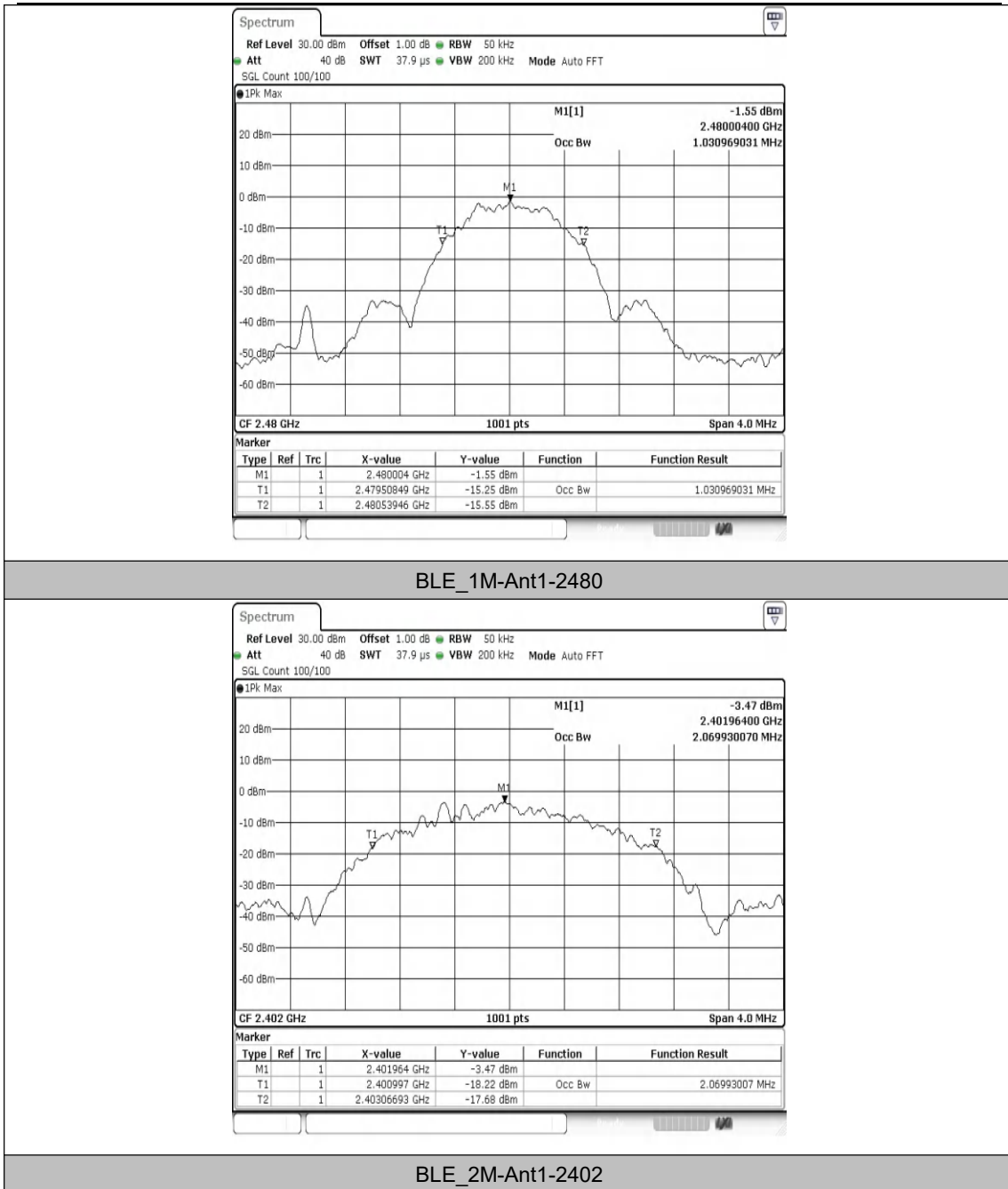
Test Graphs



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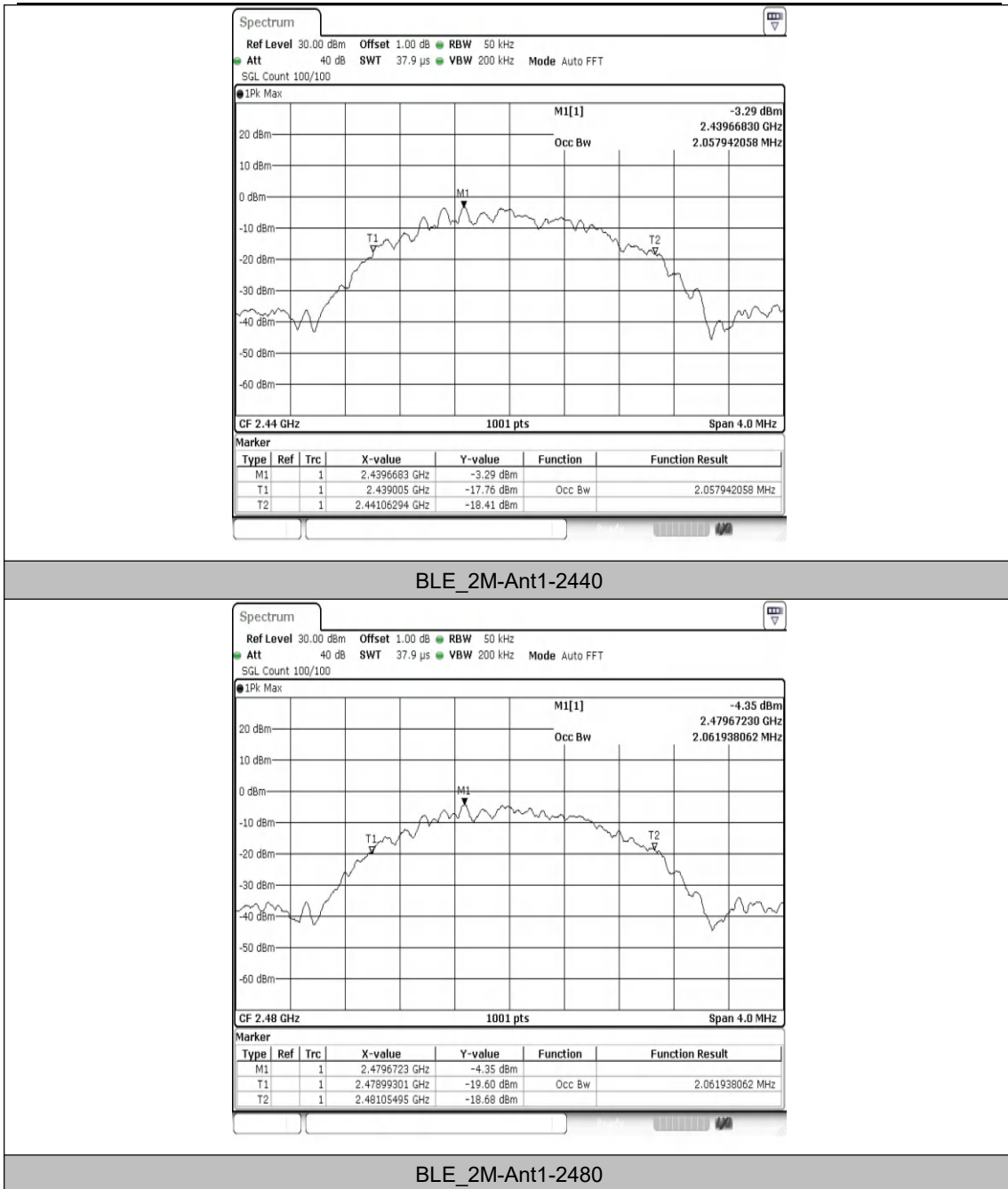
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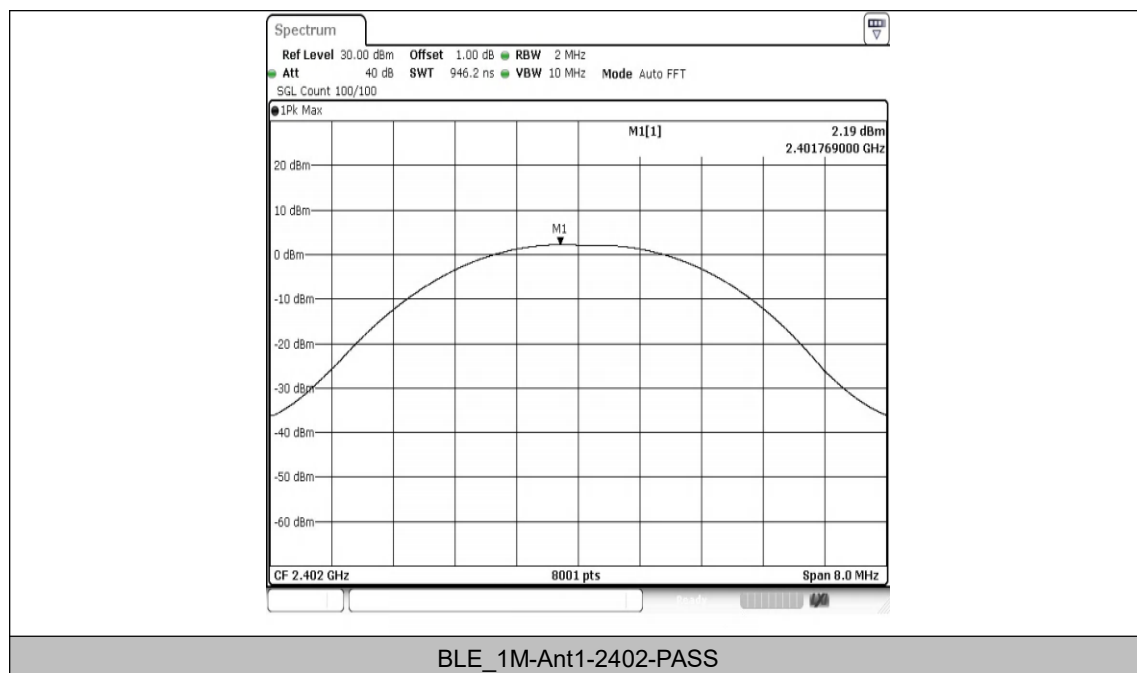


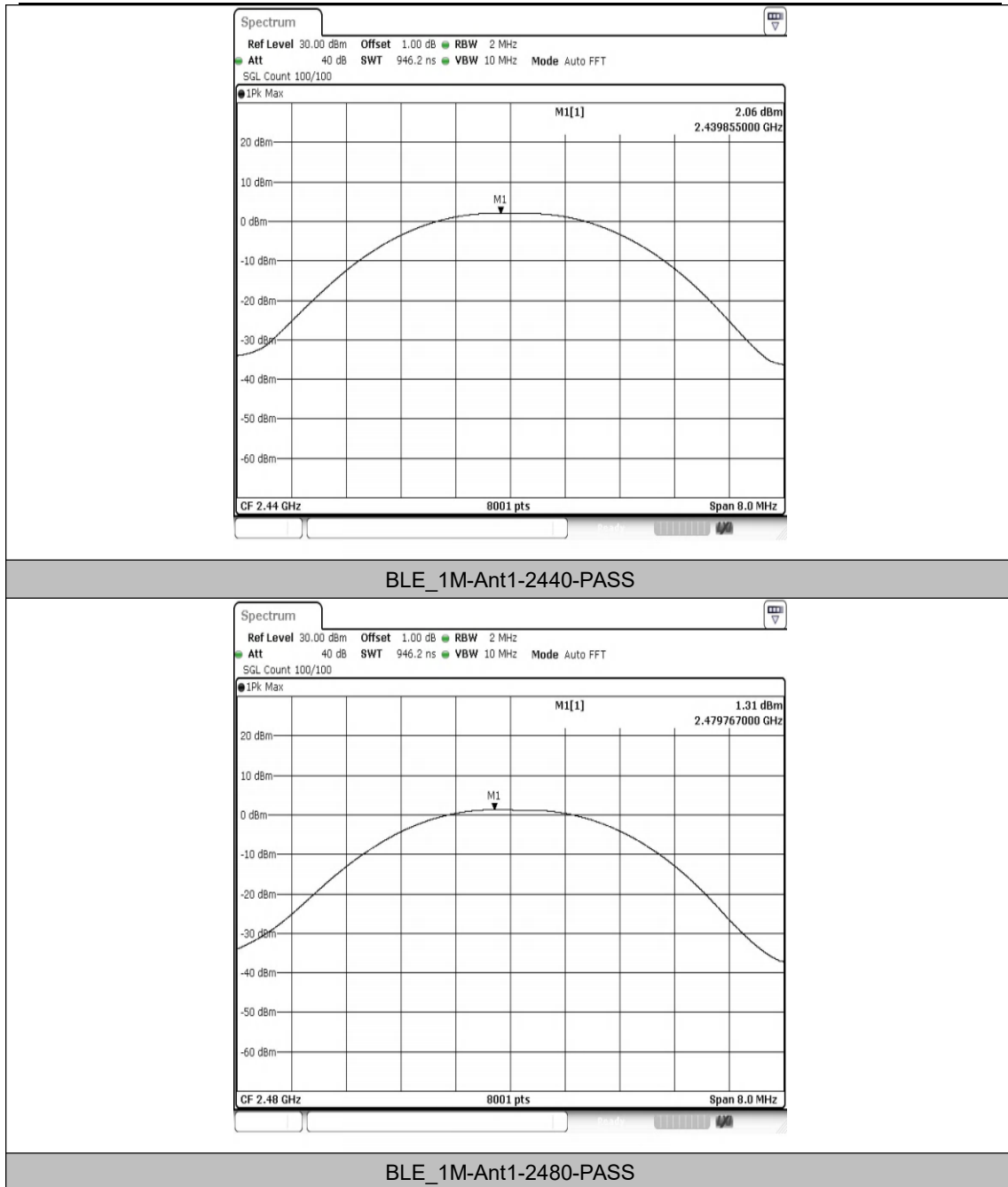
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.19	≤30	PASS
BLE_1M	Ant1	2440	2.06	≤30	PASS
BLE_1M	Ant1	2480	1.31	≤30	PASS
BLE_2M	Ant1	2402	2.27	≤30	PASS
BLE_2M	Ant1	2440	2.25	≤30	PASS
BLE_2M	Ant1	2480	1.51	≤30	PASS

Test Graphs Peak

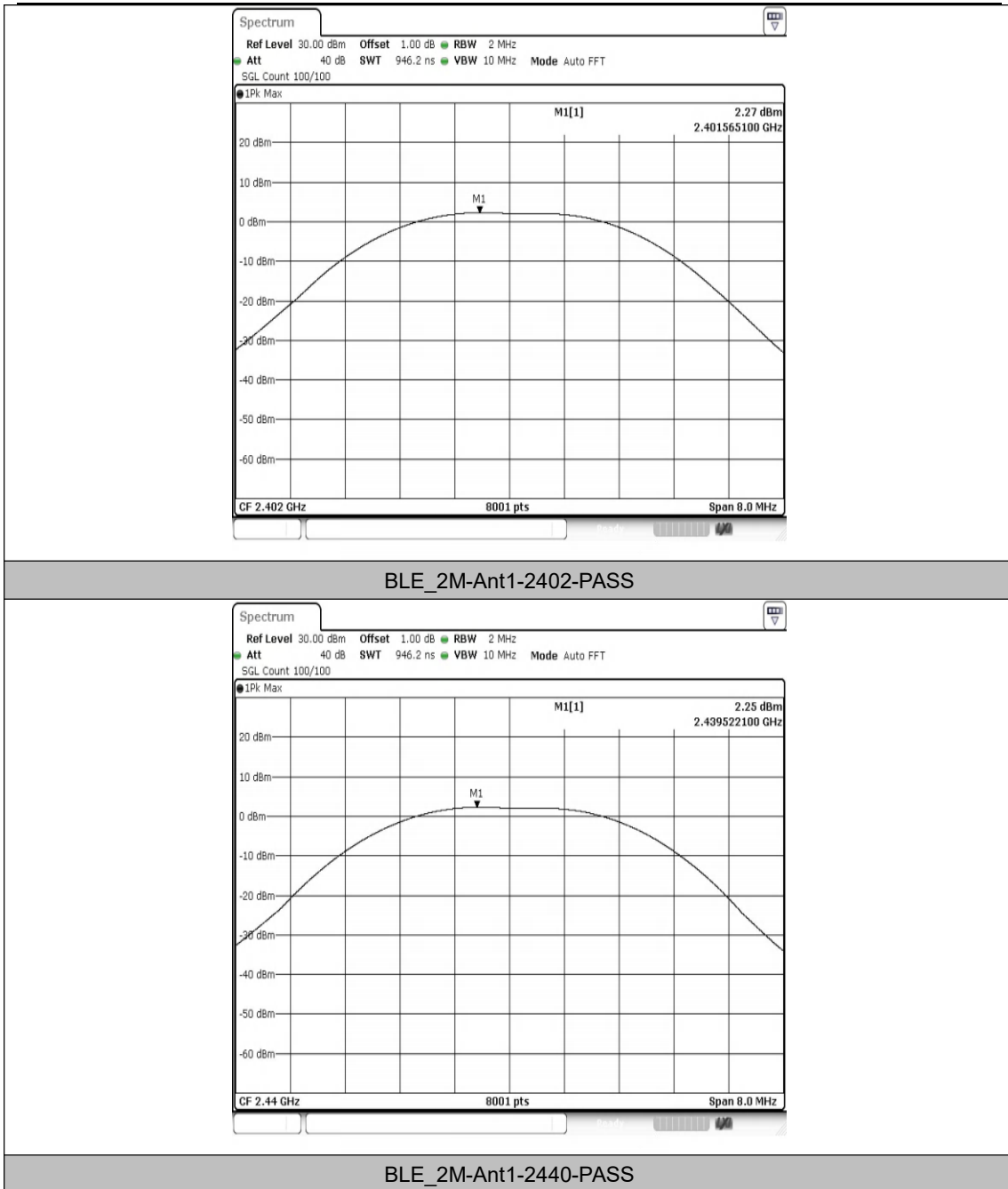




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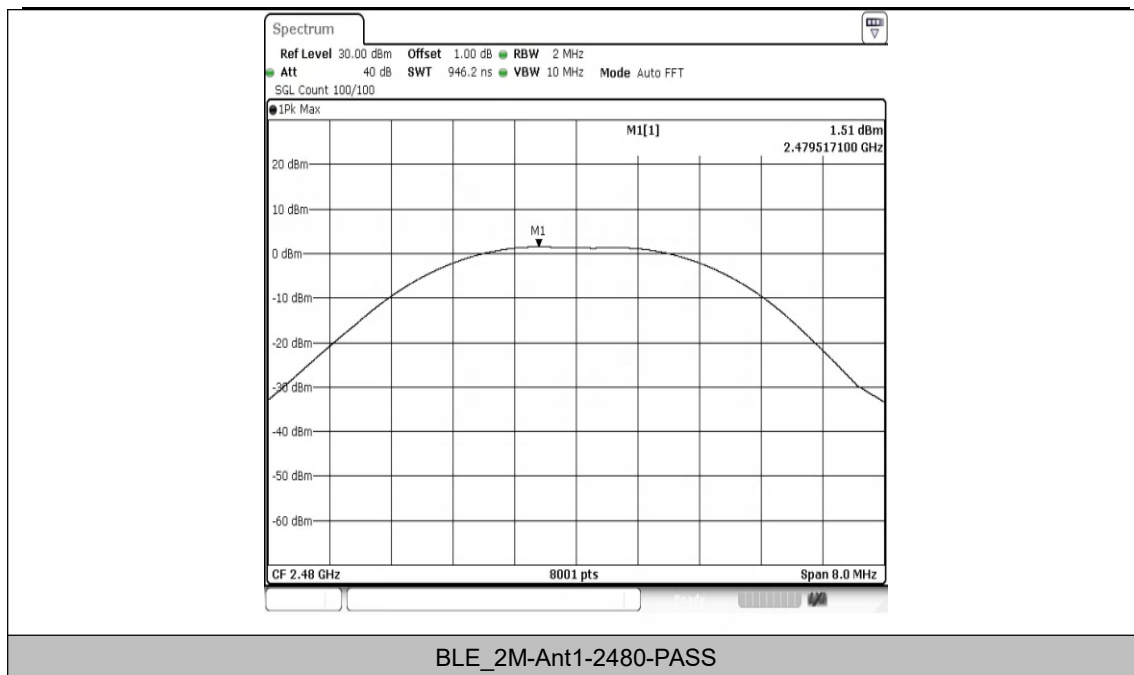
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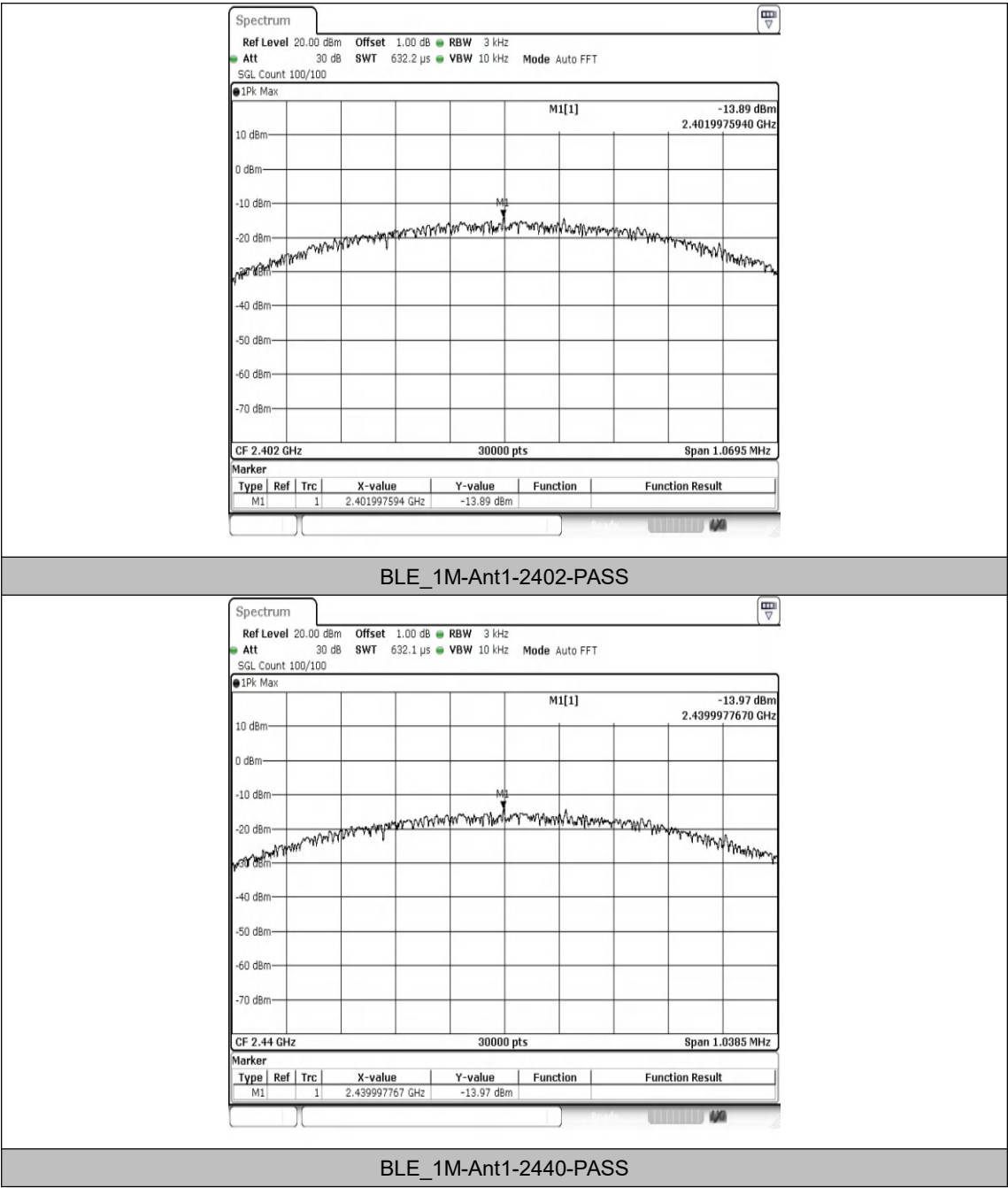
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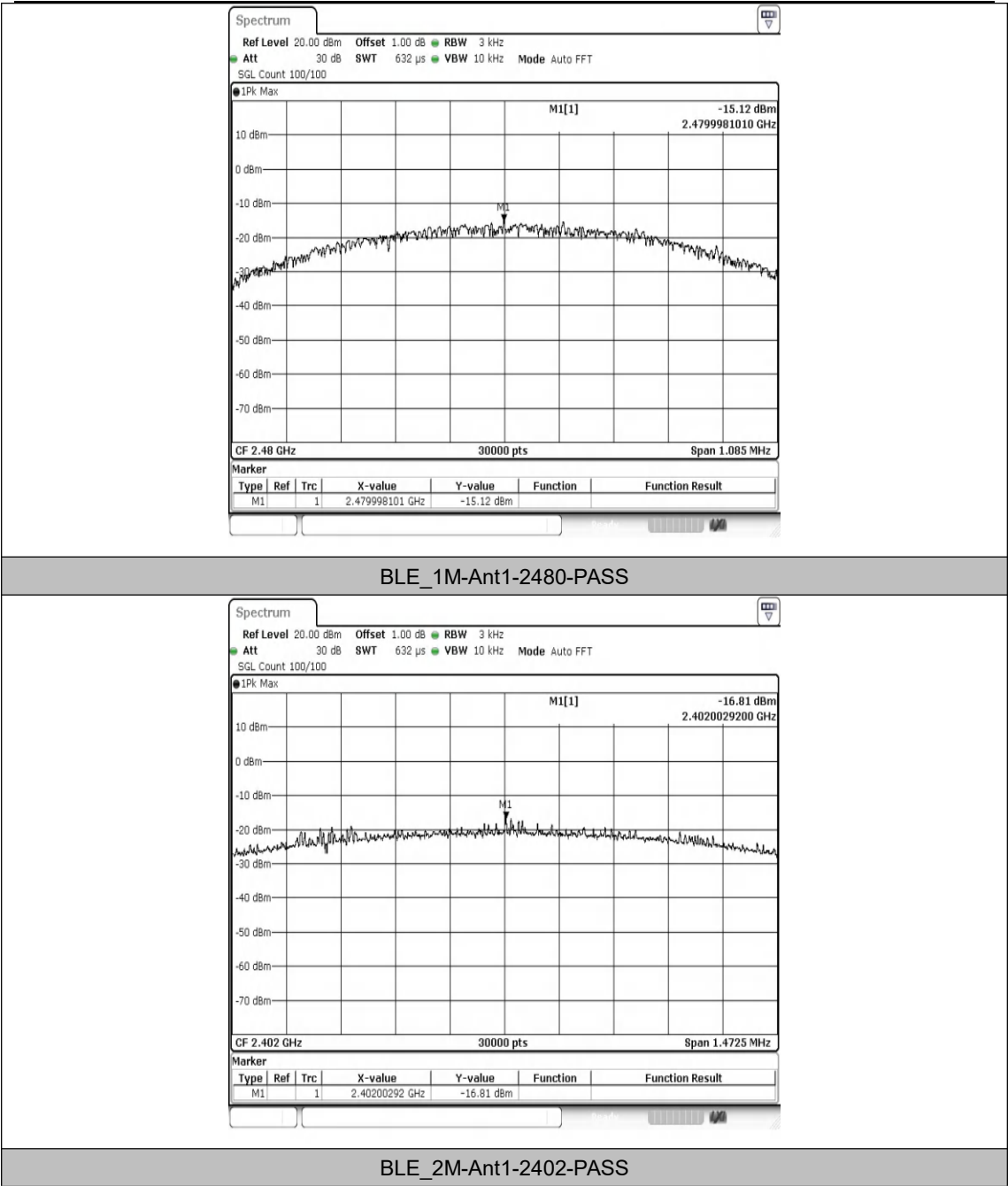
Appendix D: Maximum power spectral density

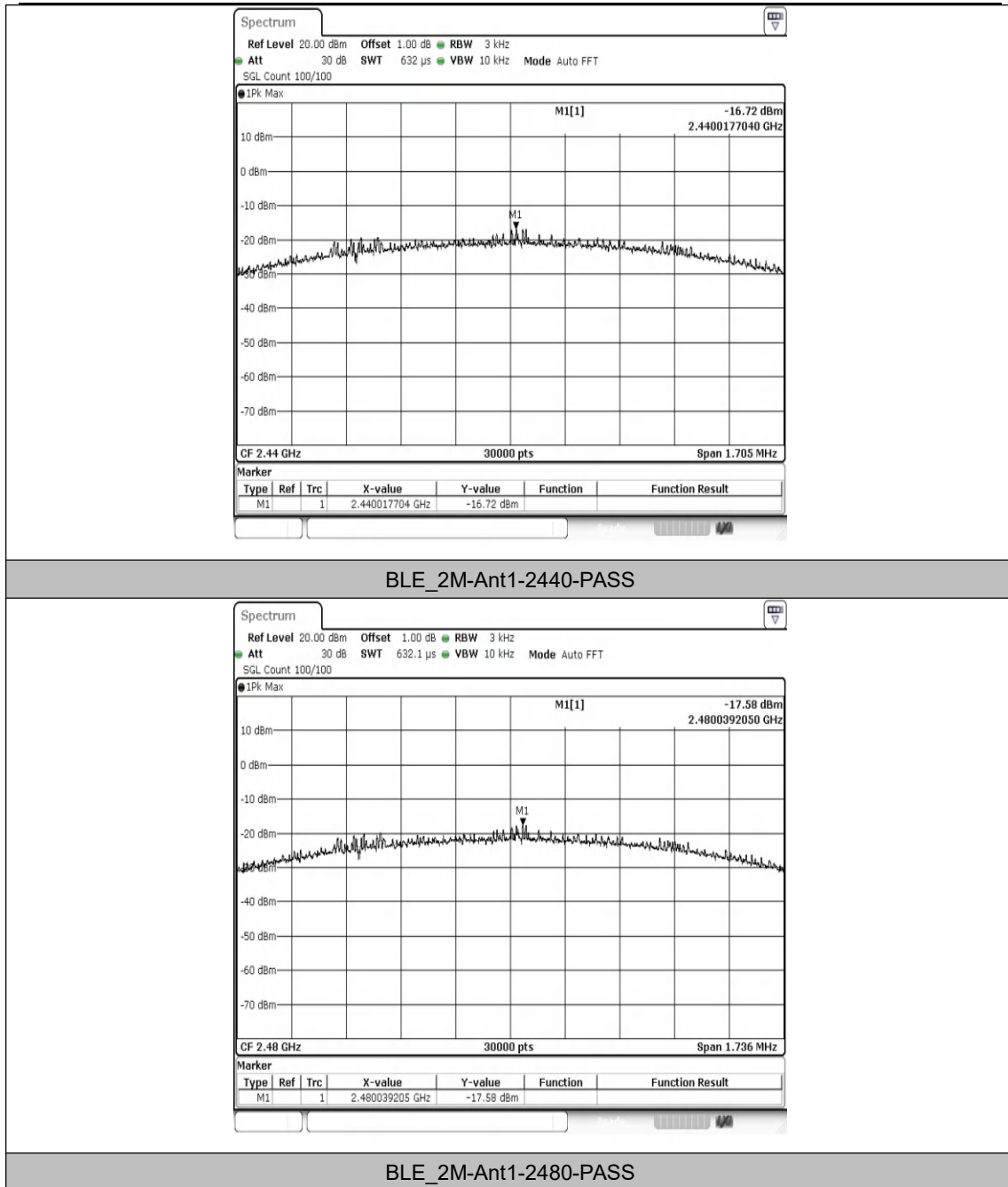
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.89	≤8.00	PASS
BLE_1M	Ant1	2440	-13.97	≤8.00	PASS
BLE_1M	Ant1	2480	-15.12	≤8.00	PASS
BLE_2M	Ant1	2402	-16.81	≤8.00	PASS
BLE_2M	Ant1	2440	-16.72	≤8.00	PASS
BLE_2M	Ant1	2480	-17.58	≤8.00	PASS

Test Graphs







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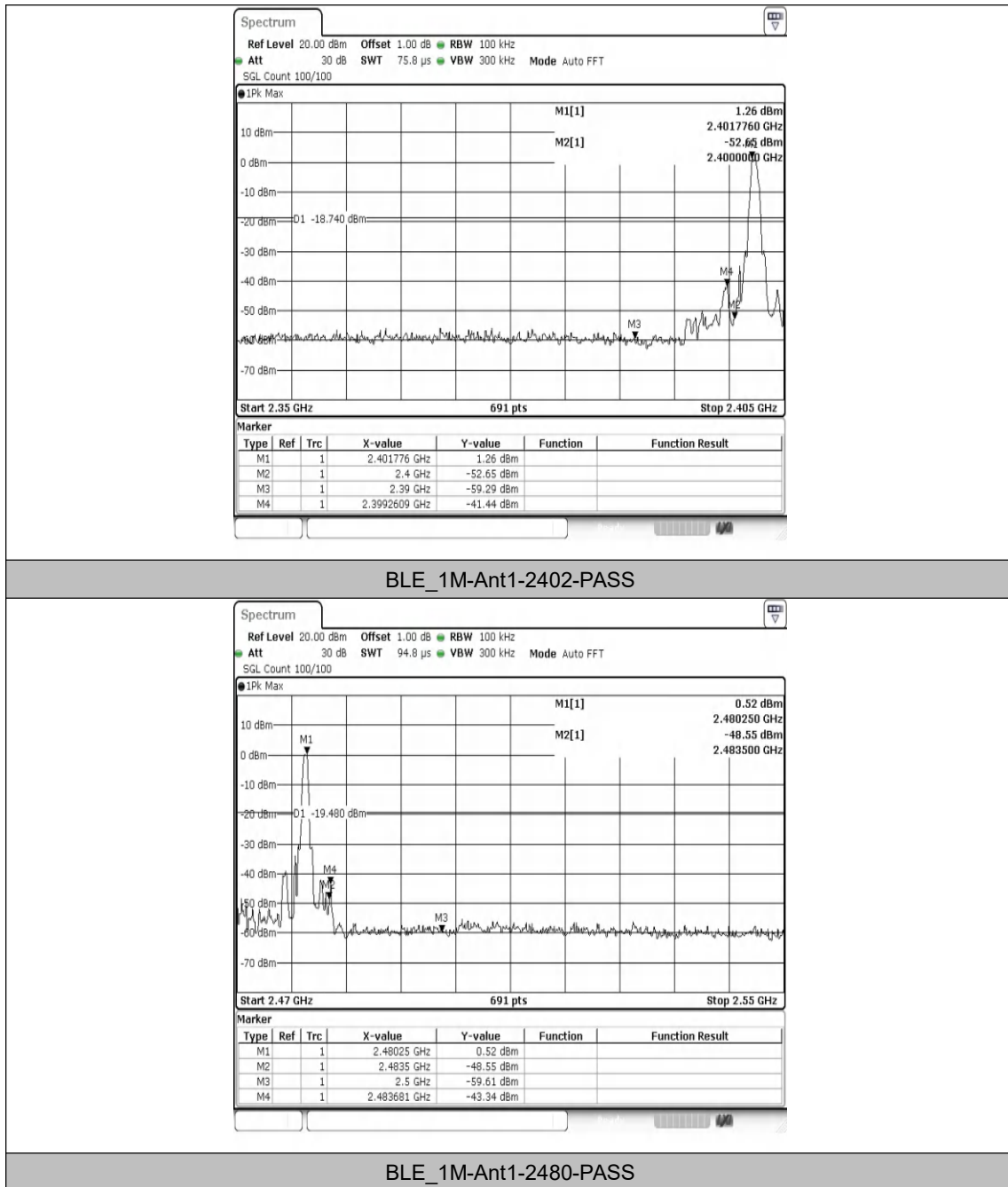
Appendix E: Band edge measurements

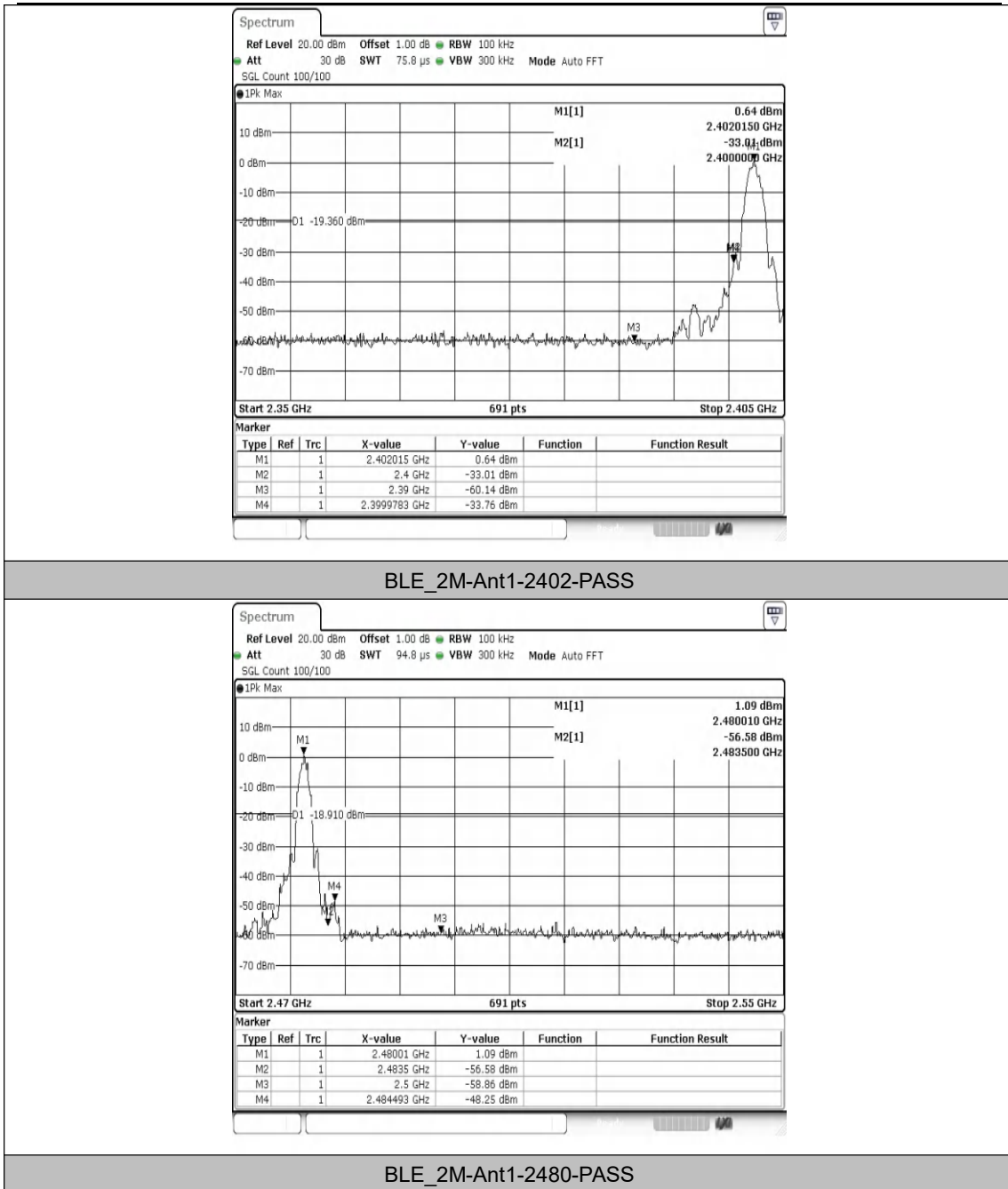
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.26	-41.44	≤-18.74	PASS
BLE_1M	Ant1	High	2480	0.52	-43.34	≤-19.48	PASS
BLE_2M	Ant1	Low	2402	0.64	-33.76	≤-19.36	PASS
BLE_2M	Ant1	High	2480	1.09	-48.25	≤-18.91	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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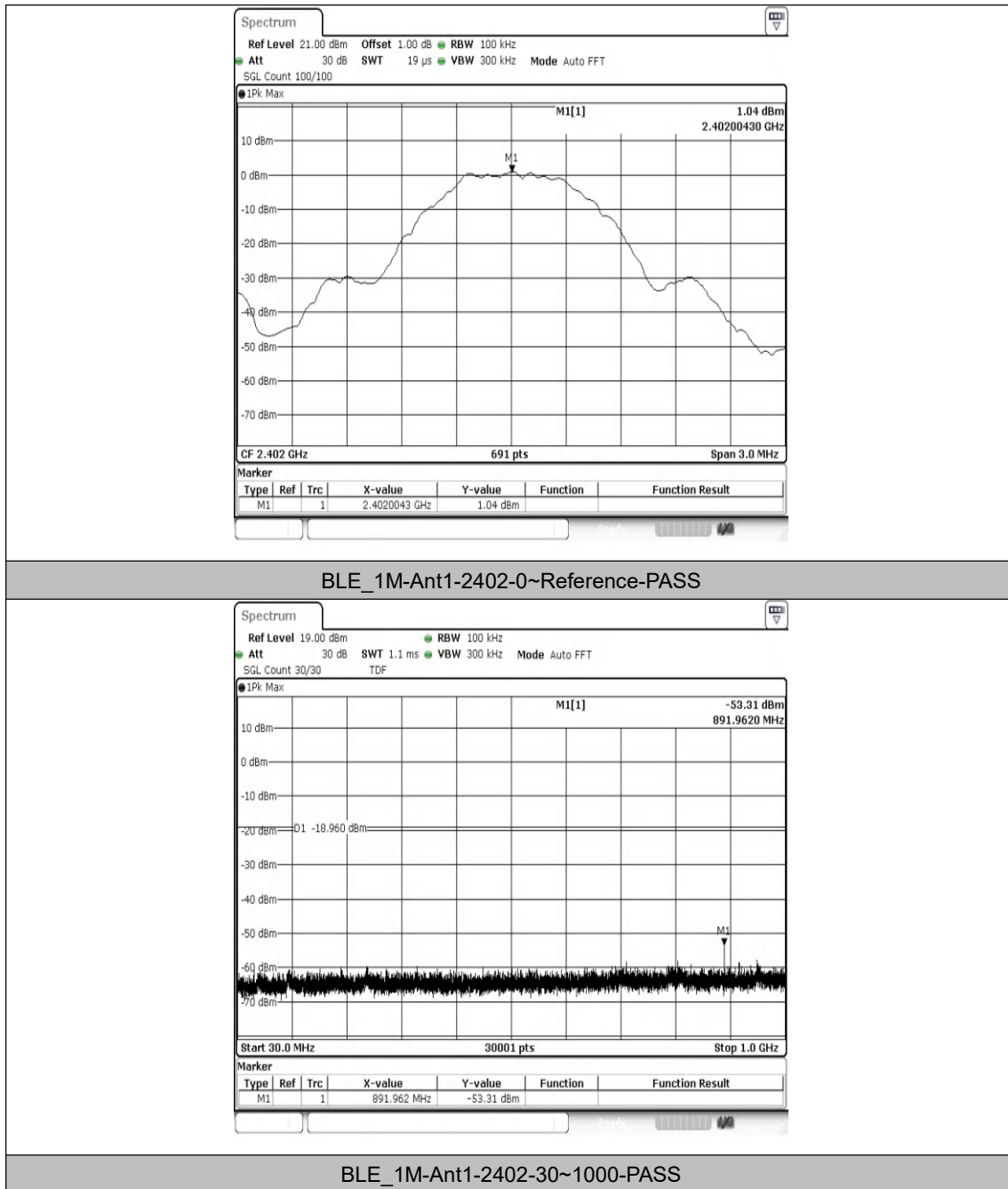
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	1.04	1.04	---	PASS
BLE_1M	Ant1	2402	30~1000	1.04	-53.31	≤-18.96	PASS
BLE_1M	Ant1	2402	1000~26500	1.04	-36.74	≤-18.96	PASS
BLE_1M	Ant1	2440	0~Reference	0.96	0.96	---	PASS
BLE_1M	Ant1	2440	30~1000	0.96	-58.05	≤-19.04	PASS
BLE_1M	Ant1	2440	1000~26500	0.96	-44.52	≤-19.04	PASS
BLE_1M	Ant1	2480	0~Reference	0.85	0.85	---	PASS
BLE_1M	Ant1	2480	30~1000	0.85	-57.59	≤-19.15	PASS
BLE_1M	Ant1	2480	1000~26500	0.85	-44.33	≤-19.15	PASS
BLE_2M	Ant1	2402	0~Reference	1.81	1.81	---	PASS
BLE_2M	Ant1	2402	30~1000	1.81	-56.68	≤-18.19	PASS
BLE_2M	Ant1	2402	1000~26500	1.81	-43.19	≤-18.19	PASS
BLE_2M	Ant1	2440	0~Reference	-0.78	-0.78	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.78	-58.64	≤-20.78	PASS
BLE_2M	Ant1	2440	1000~26500	-0.78	-44.24	≤-20.78	PASS
BLE_2M	Ant1	2480	0~Reference	1.21	1.21	---	PASS
BLE_2M	Ant1	2480	30~1000	1.21	-58.1	≤-18.79	PASS
BLE_2M	Ant1	2480	1000~26500	1.21	-38.53	≤-18.79	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.

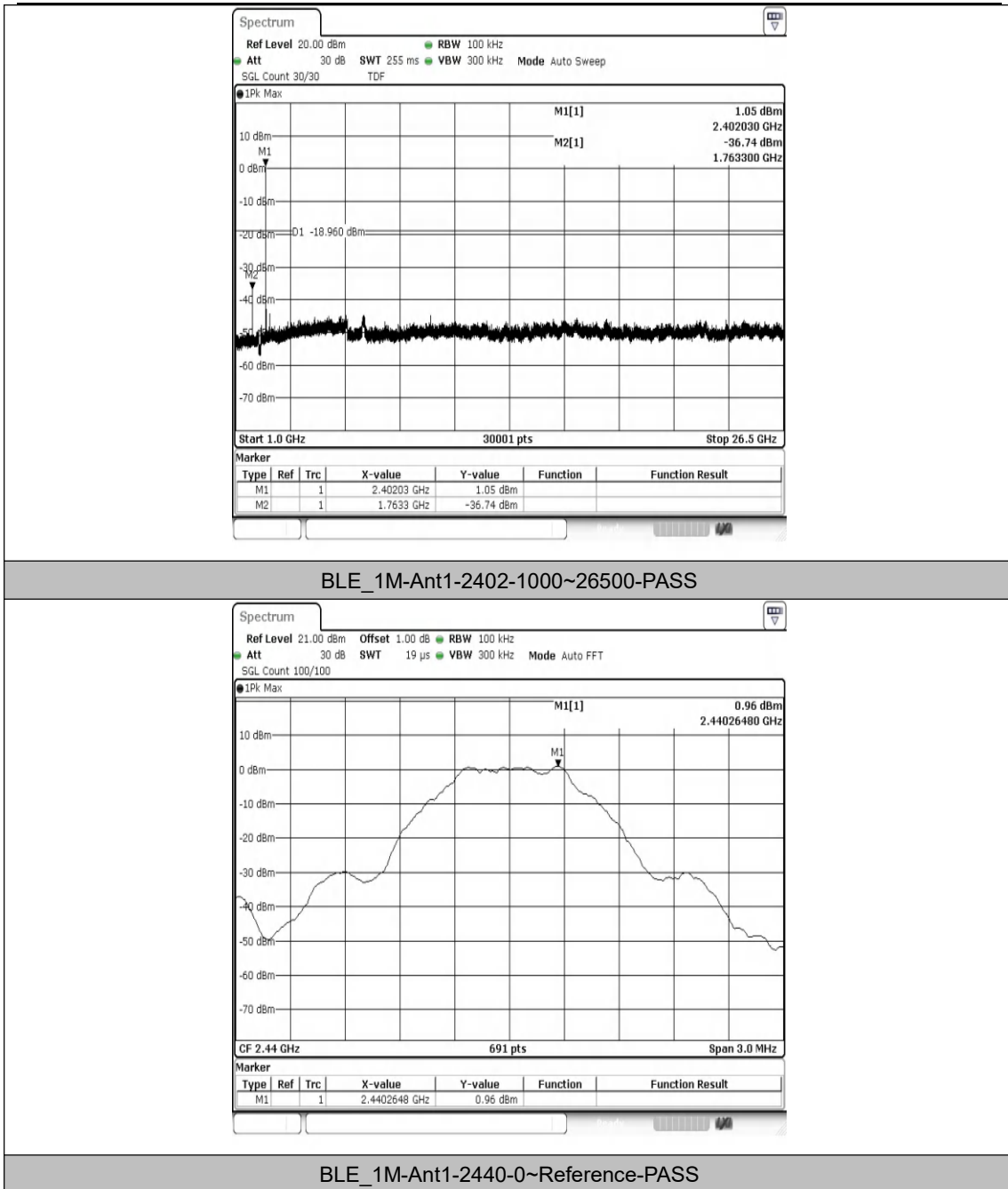
Test Graphs



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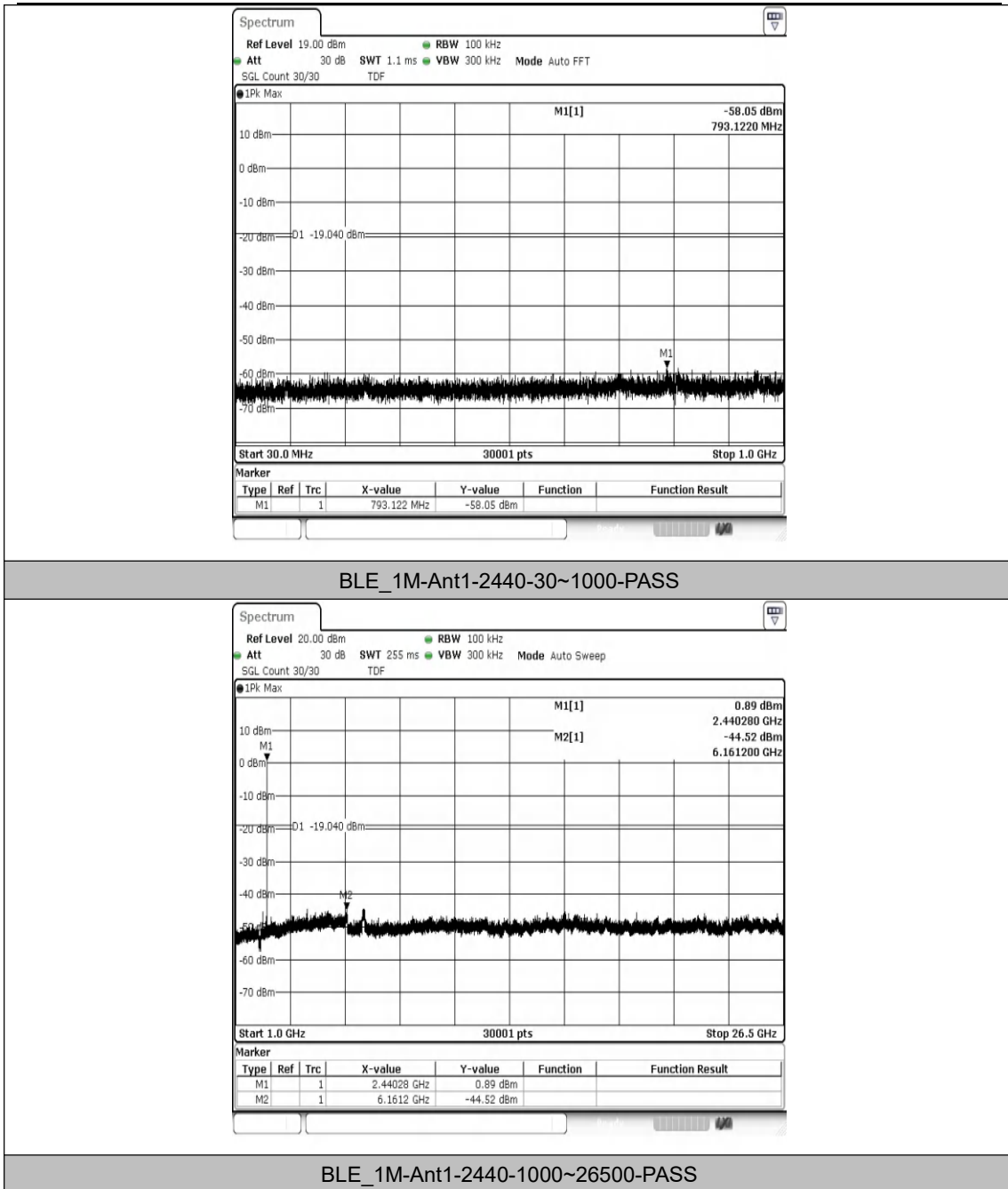
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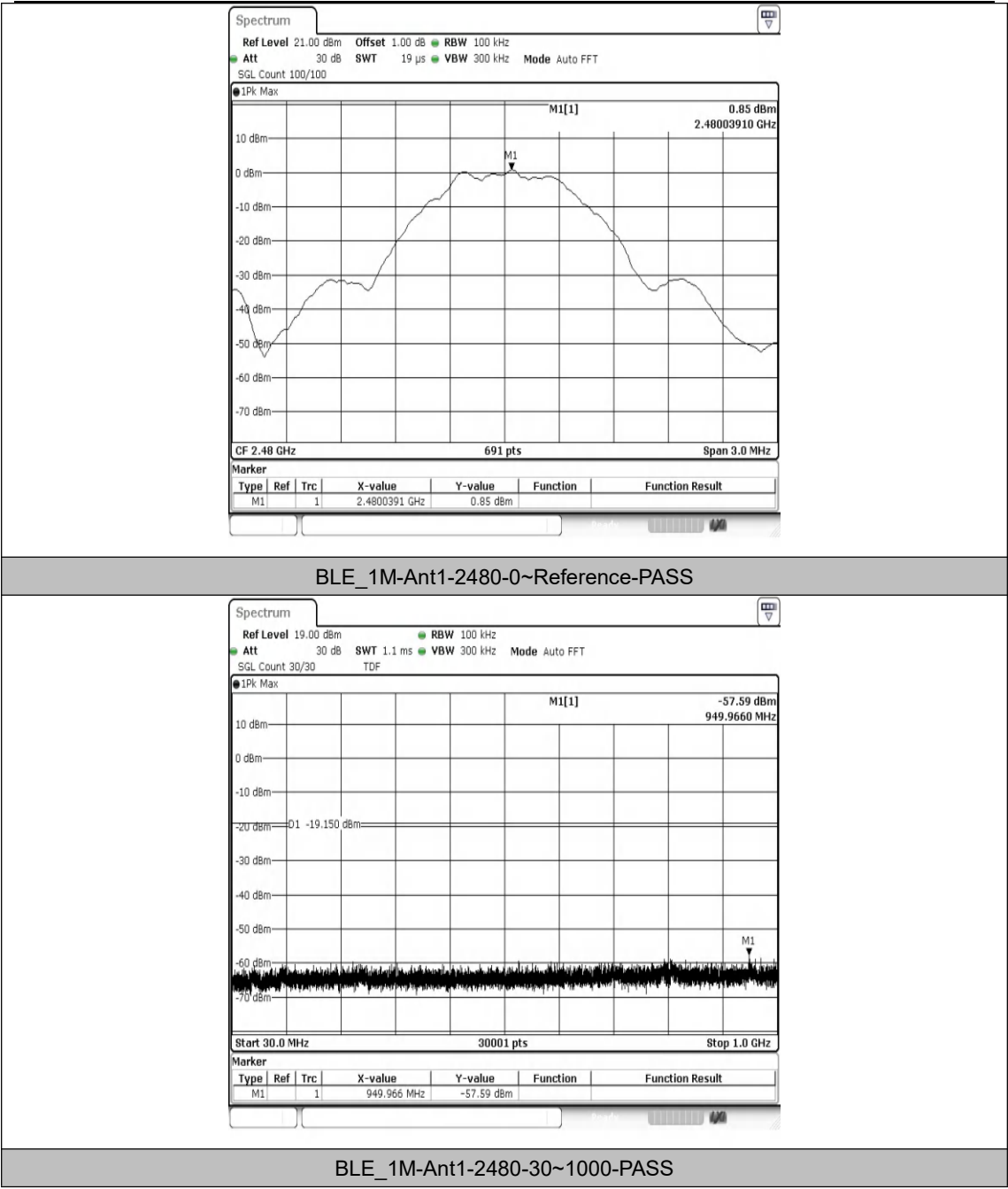
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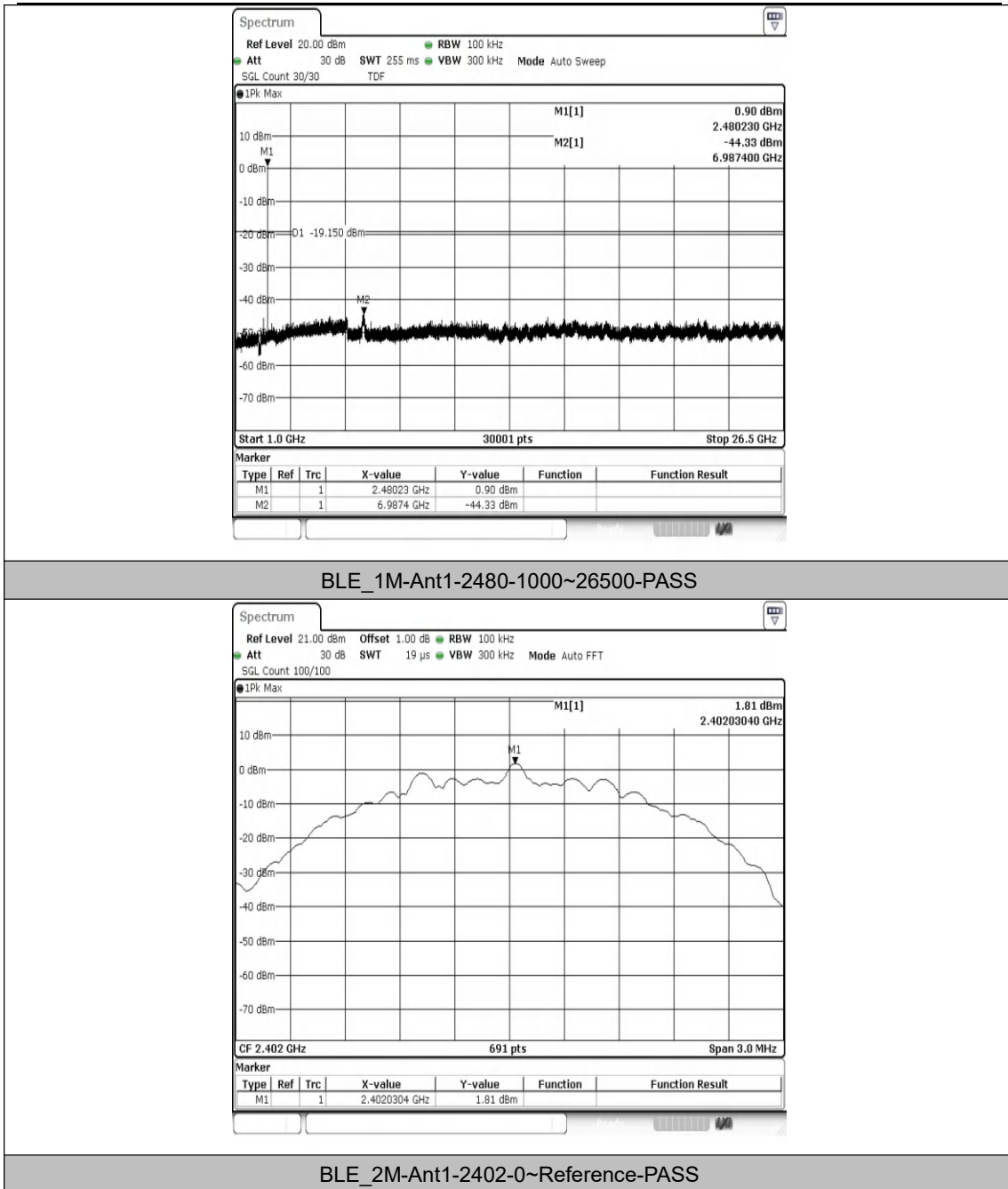


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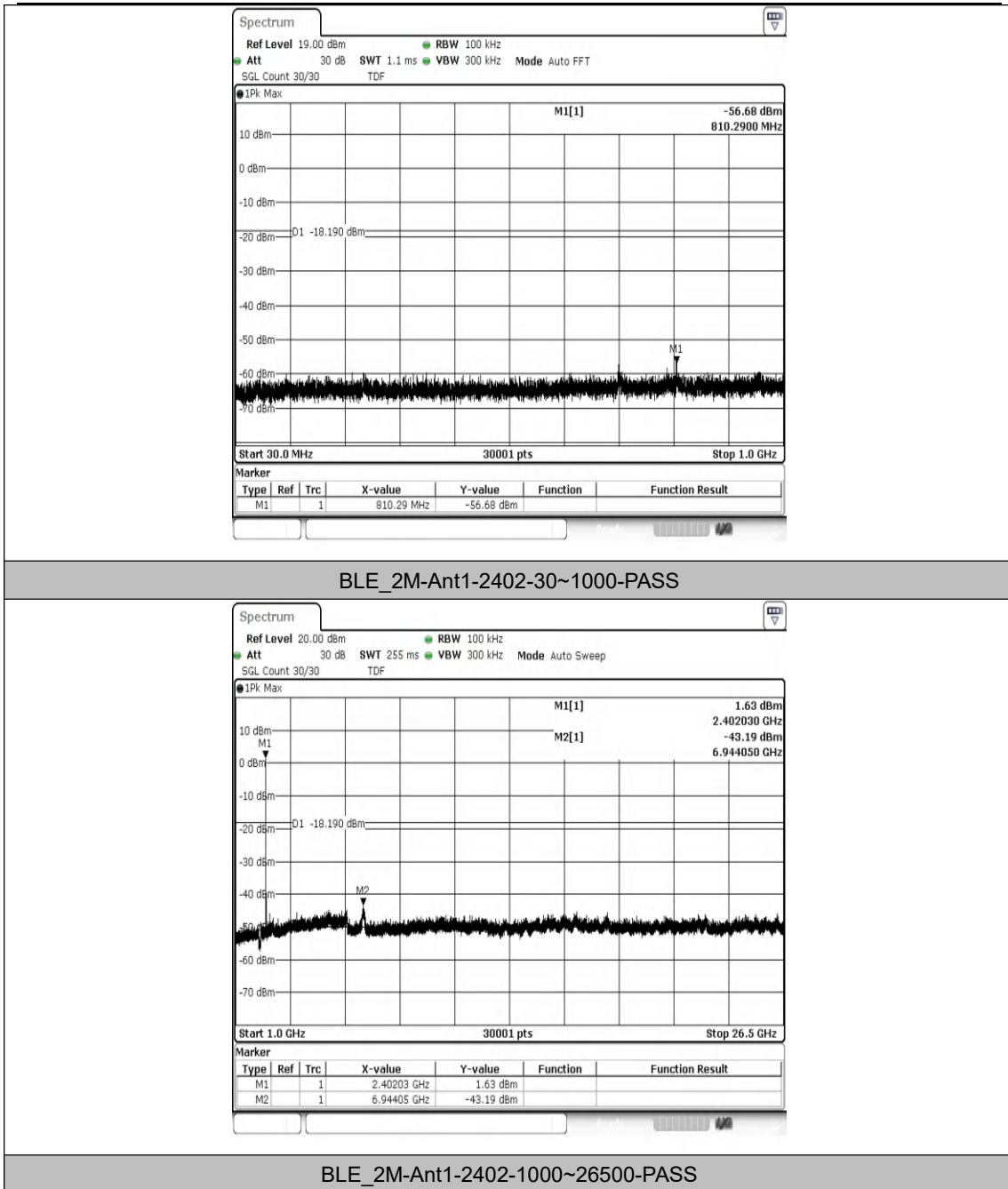




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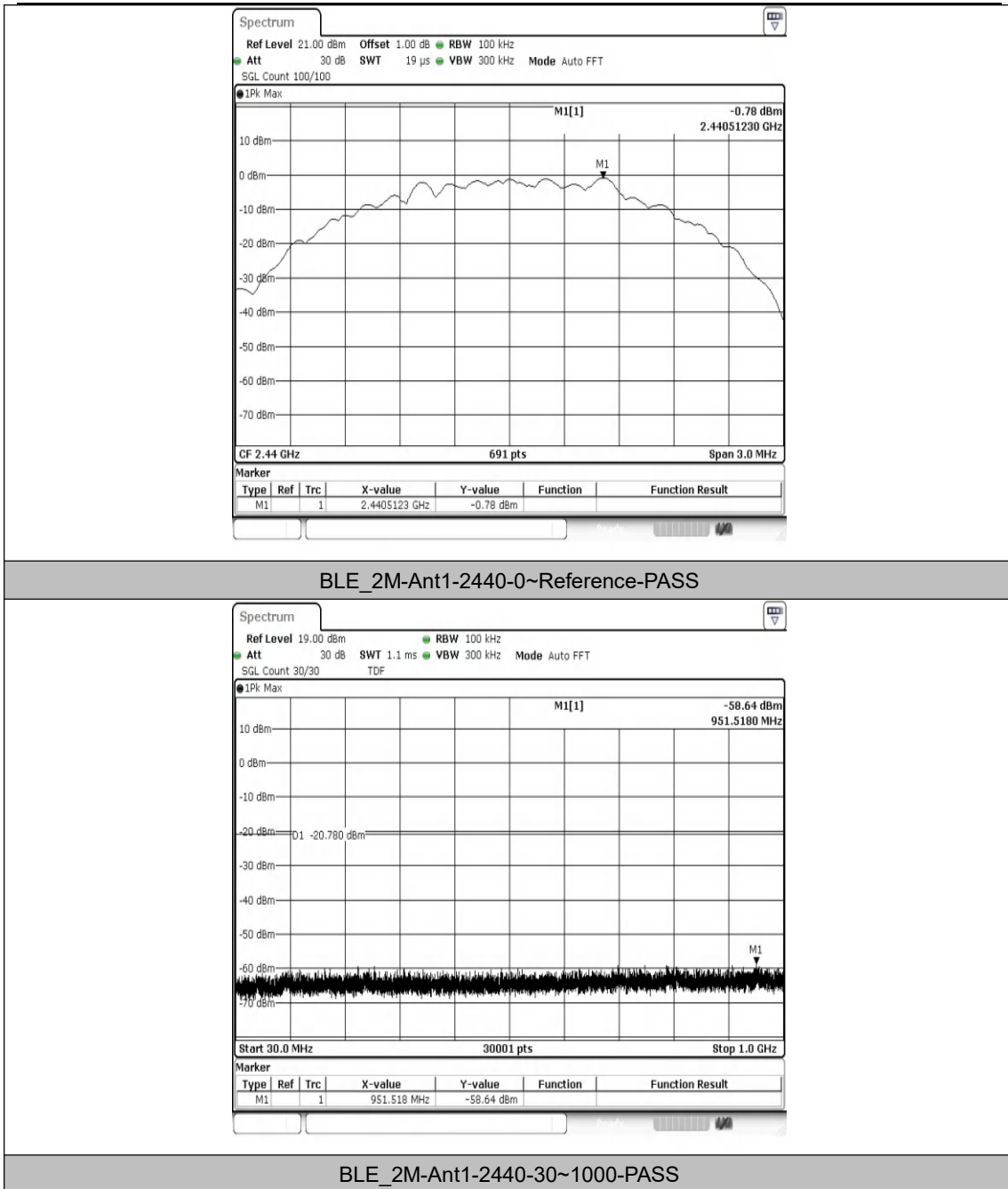
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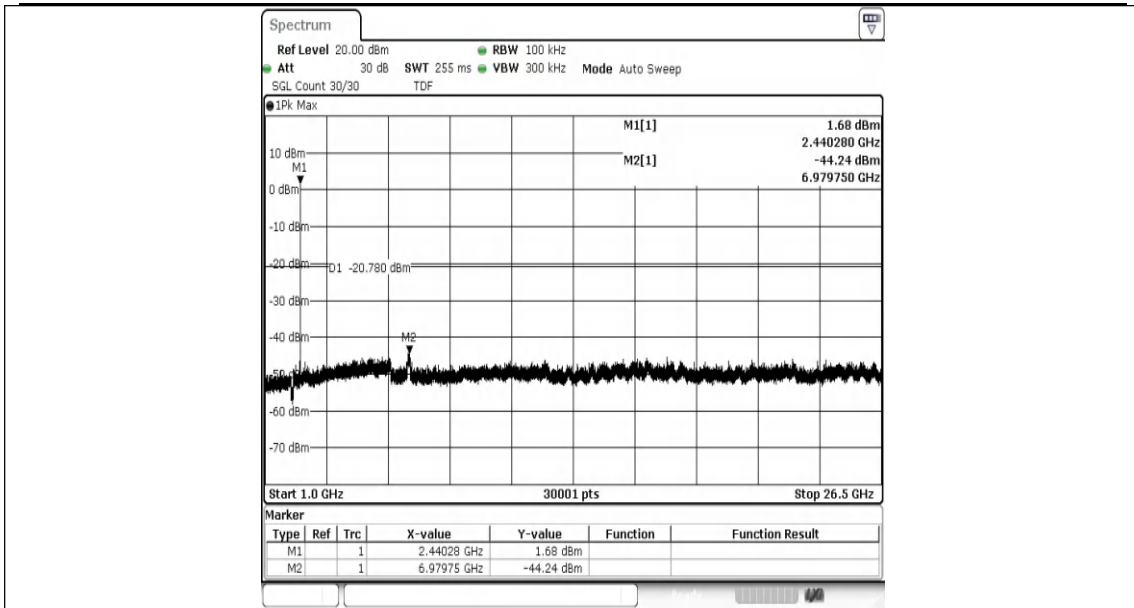
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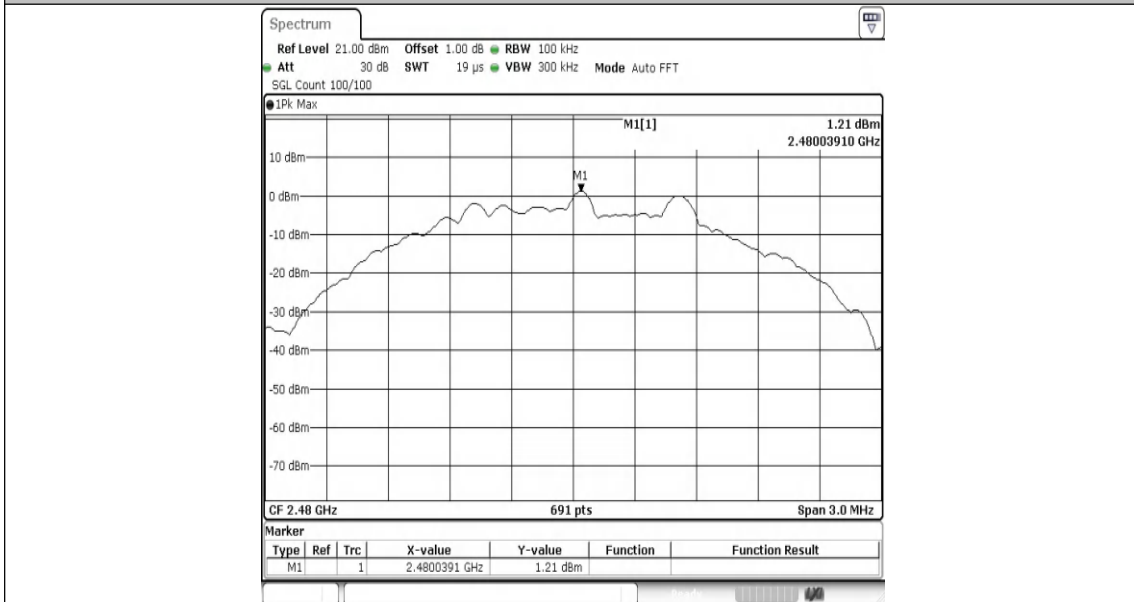
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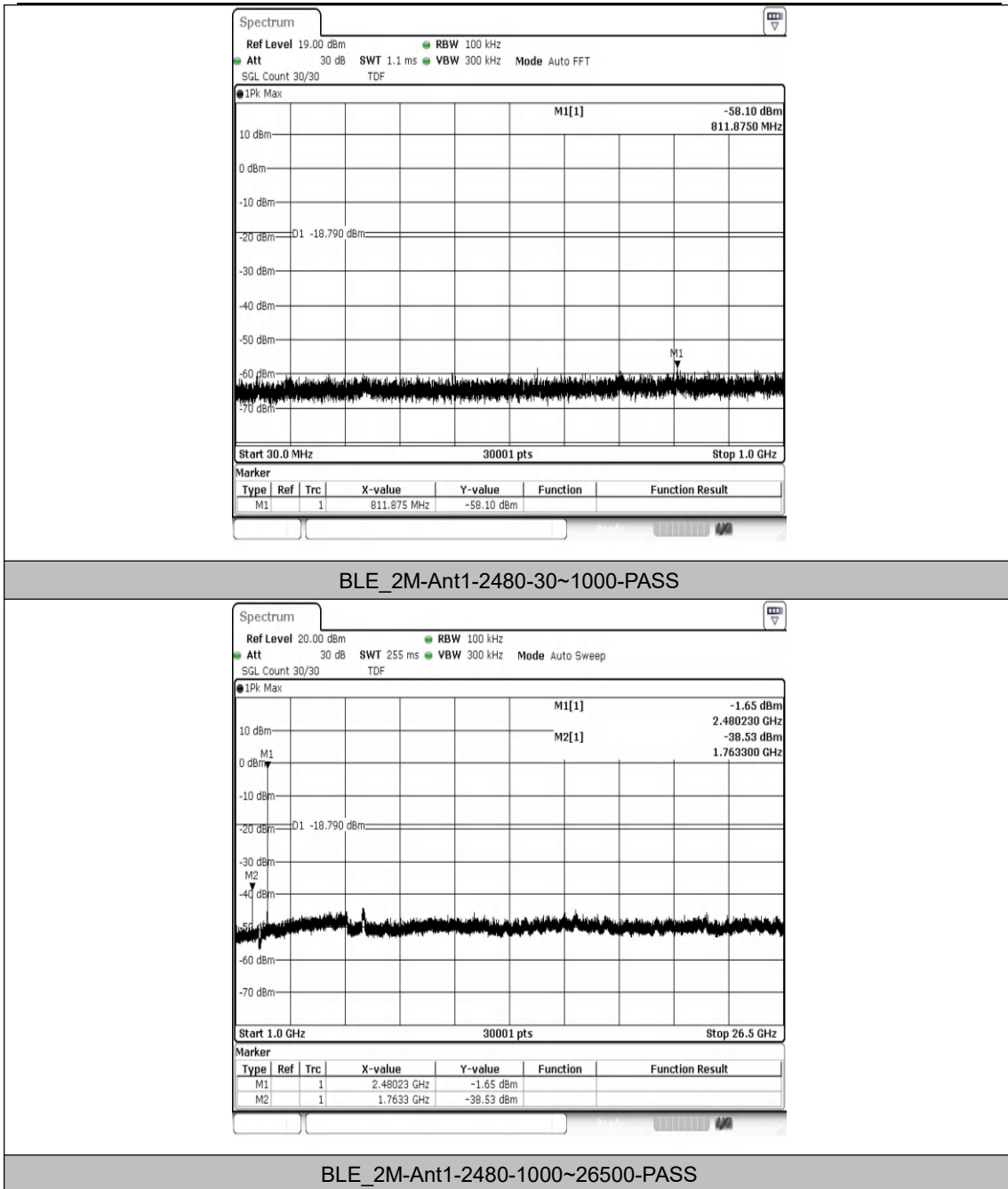
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BLE_2M-Ant1-2440-1000~26500-PASS



BLE_2M-Ant1-2480-0~Reference-PASS



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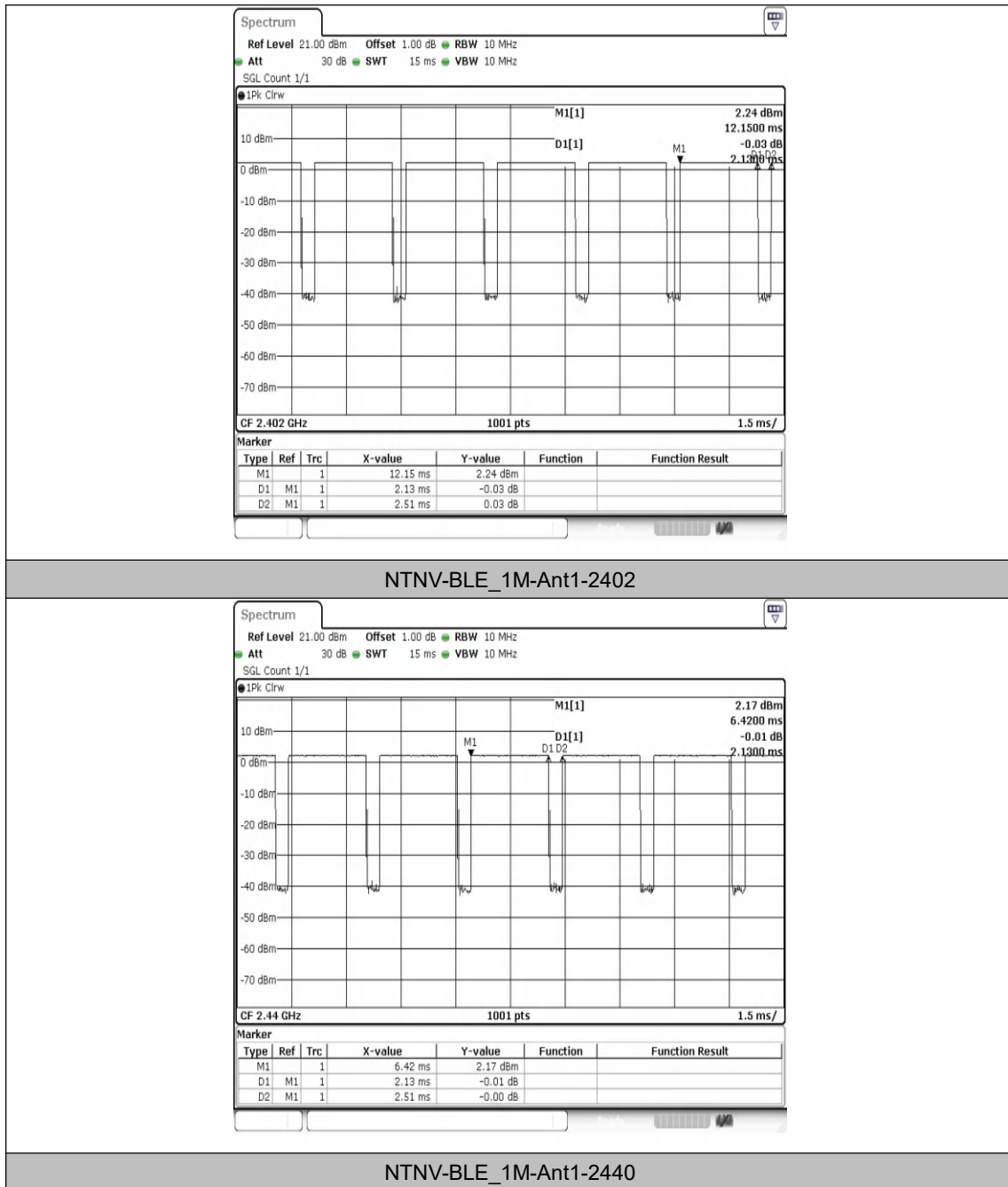
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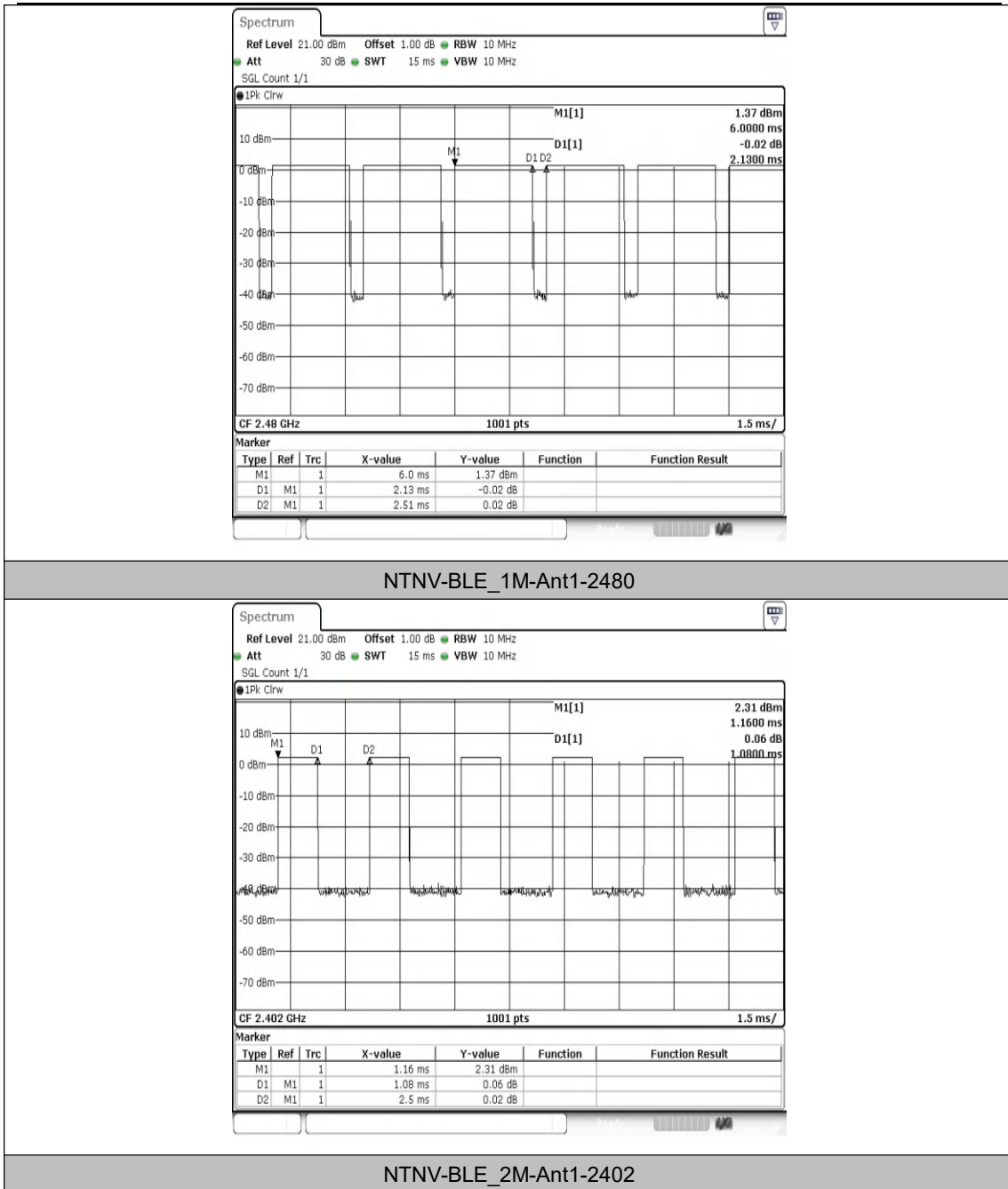
Appendix G: Duty Cycle

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	2.51	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---