

Appendix Test Data

Report No.:	1812C40136512502	Test Sample No.:	1-2-2
Start Test Date:	2024.11.12	Finish Test Date:	2024.11.19
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.3℃	Relative Humidity:	49%
Pressure:	101kPa		

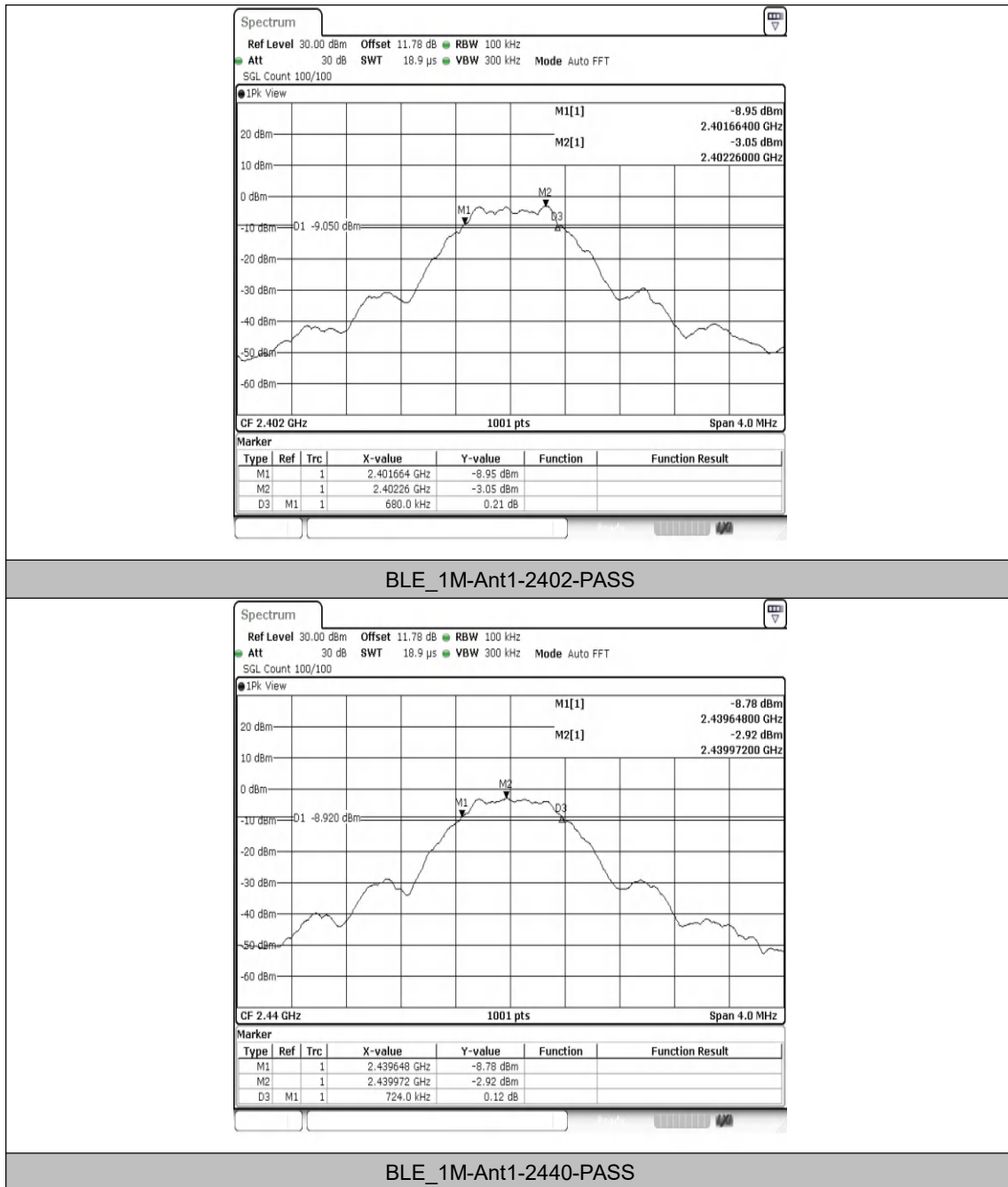
Appendix A: 6dB Bandwidth

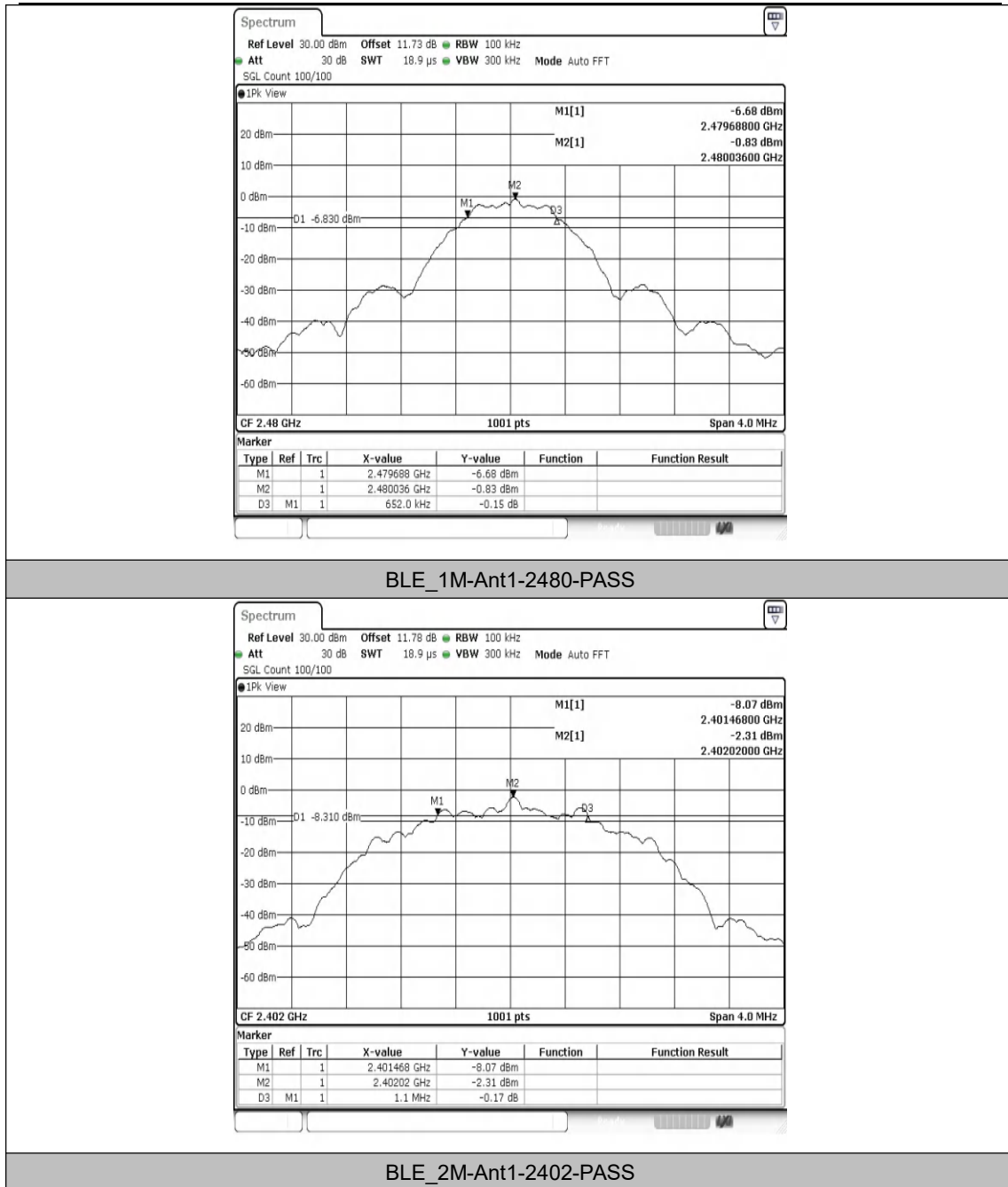
Test Result

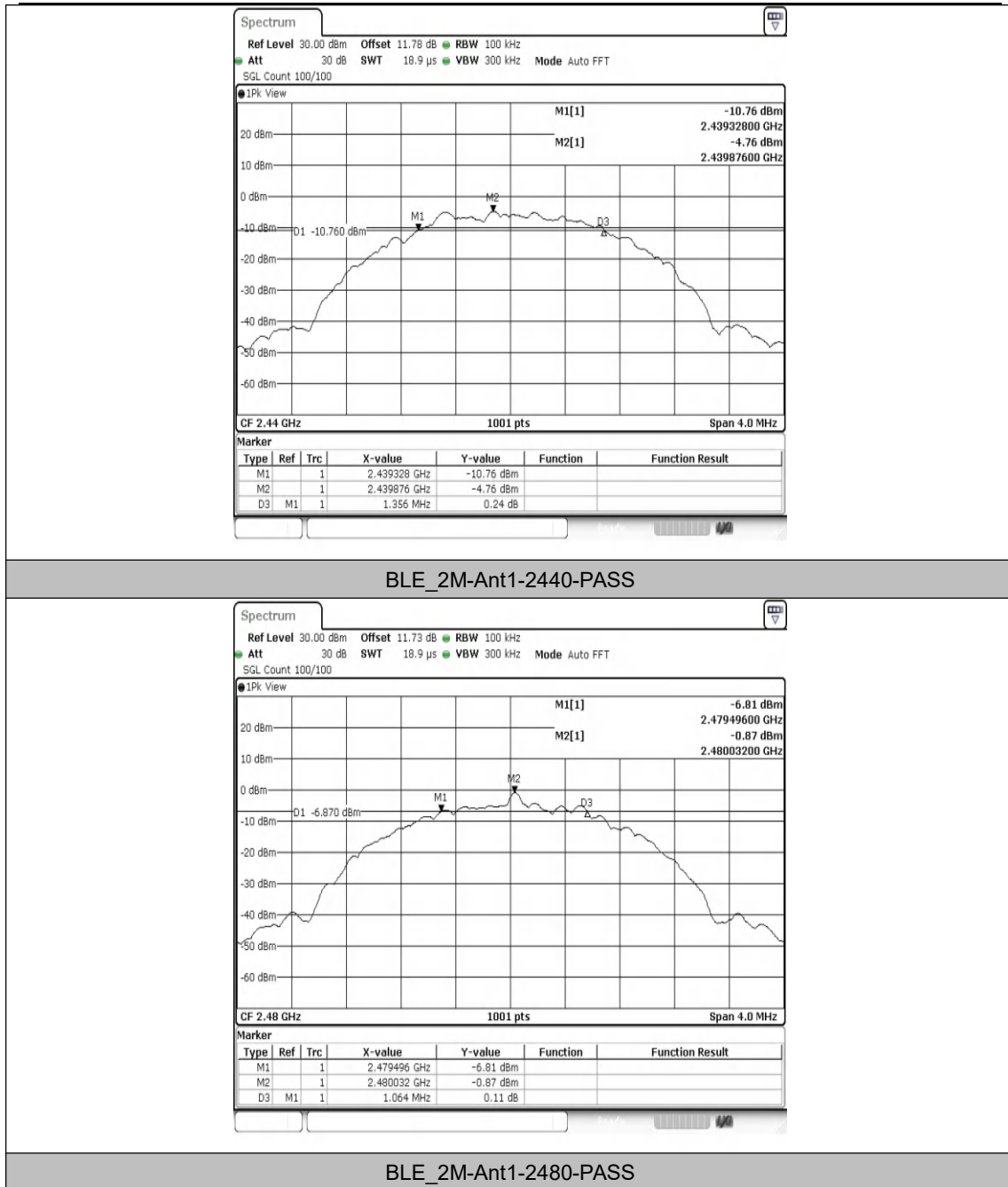
Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.68	2401.66	2402.34	0.5	PASS
BLE_1M	Ant1	2440	0.72	2439.65	2440.37	0.5	PASS
BLE_1M	Ant1	2480	0.65	2479.69	2480.34	0.5	PASS
BLE_2M	Ant1	2402	1.10	2401.47	2402.57	0.5	PASS
BLE_2M	Ant1	2440	1.36	2439.33	2440.68	0.5	PASS
BLE_2M	Ant1	2480	1.06	2479.50	2480.56	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	1.091	2401.4725	2402.5634	---	---
BLE_1M	Ant1	2440	1.103	2439.4645	2440.5674	---	---
BLE_1M	Ant1	2480	1.083	2479.4805	2480.5634	---	---
BLE_2M	Ant1	2402	2.066	2400.9730	2403.0390	---	---
BLE_2M	Ant1	2440	2.074	2438.9770	2441.0509	---	---
BLE_2M	Ant1	2480	2.078	2478.9810	2481.0589	---	---

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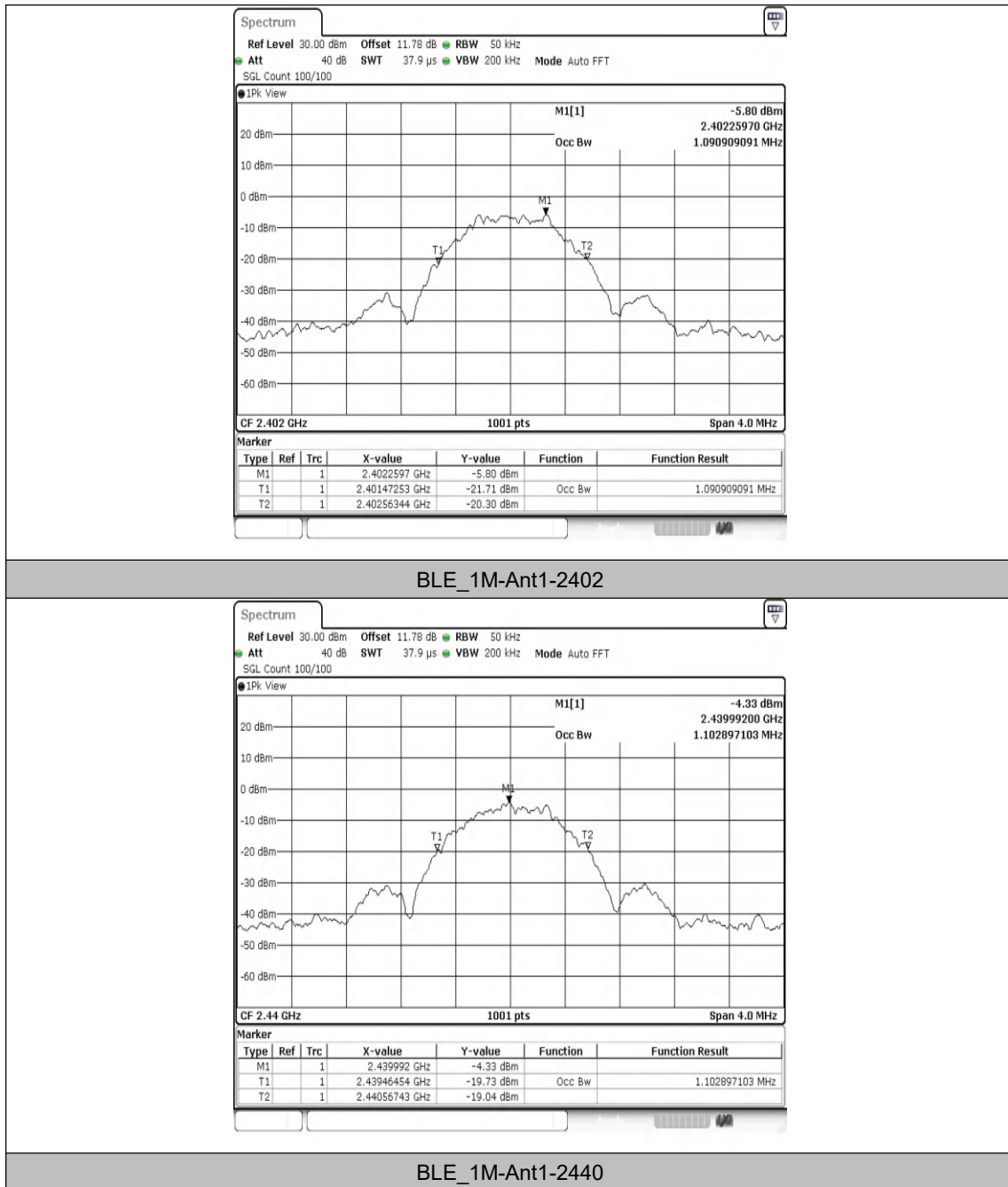
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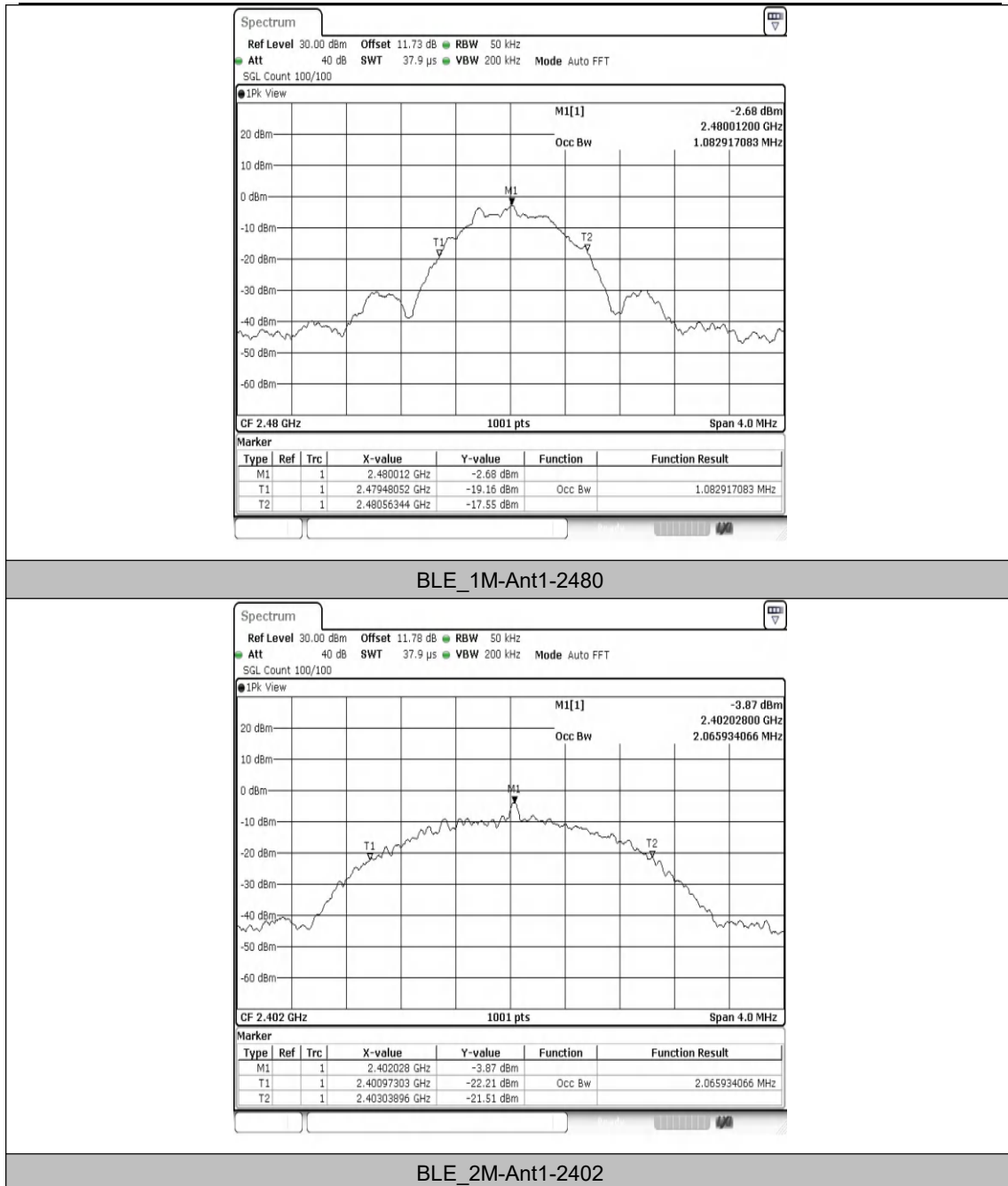


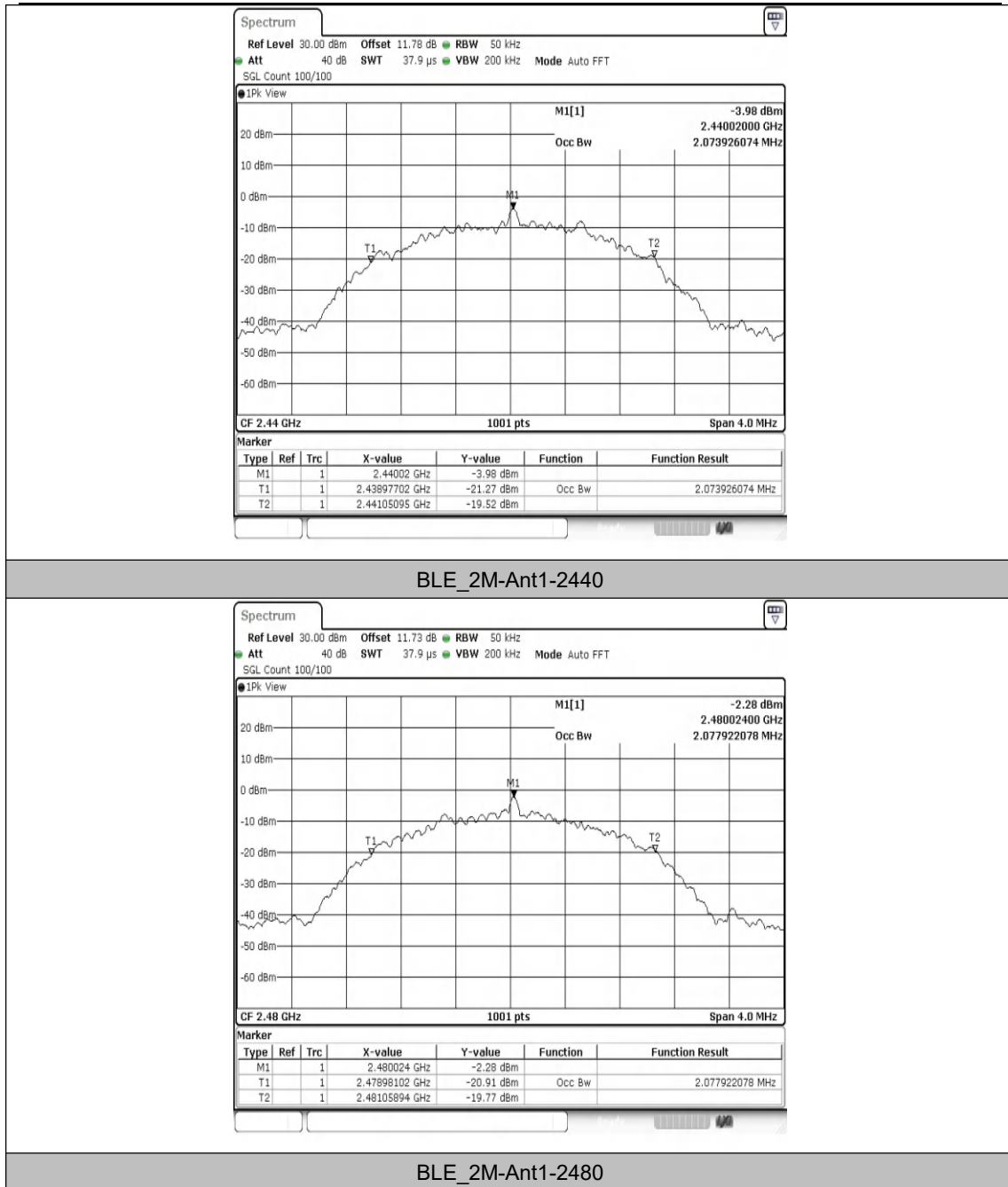
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Test Graphs







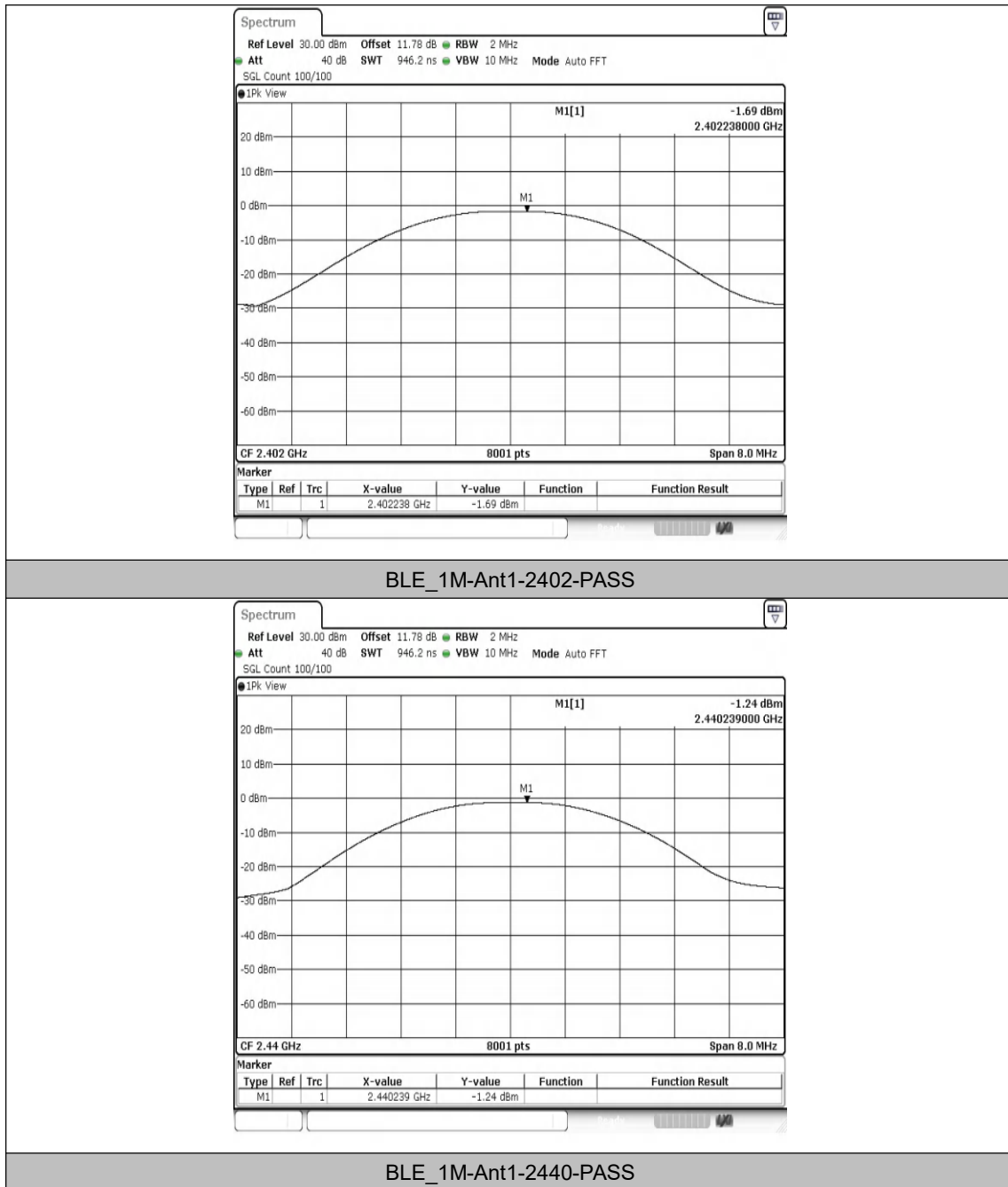
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.69	≤30	PASS
BLE_1M	Ant1	2440	-1.24	≤30	PASS
BLE_1M	Ant1	2480	-0.18	≤30	PASS
BLE_2M	Ant1	2402	-1.71	≤30	PASS
BLE_2M	Ant1	2440	-1.23	≤30	PASS
BLE_2M	Ant1	2480	-0.32	≤30	PASS



Test Graphs Peak

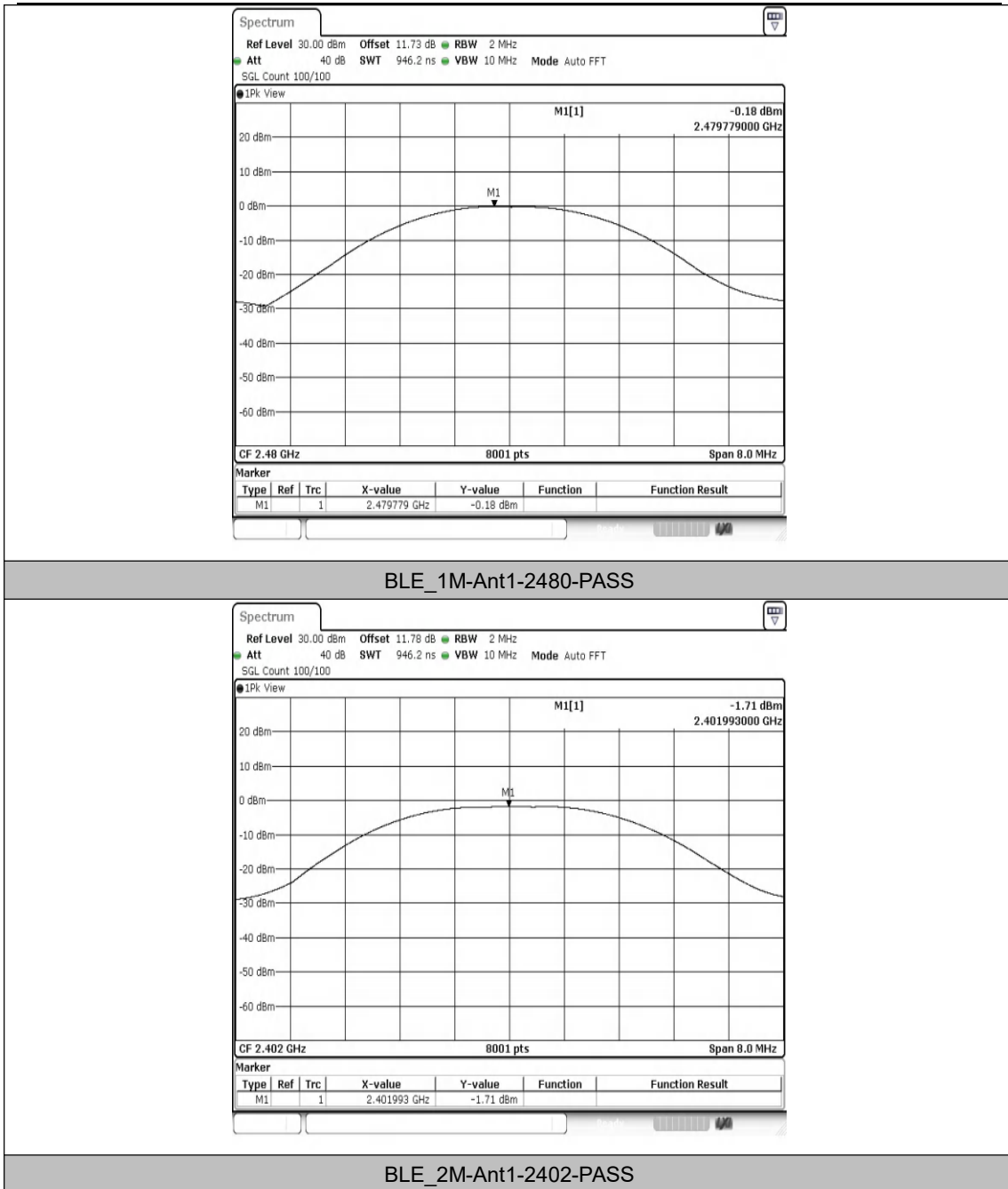


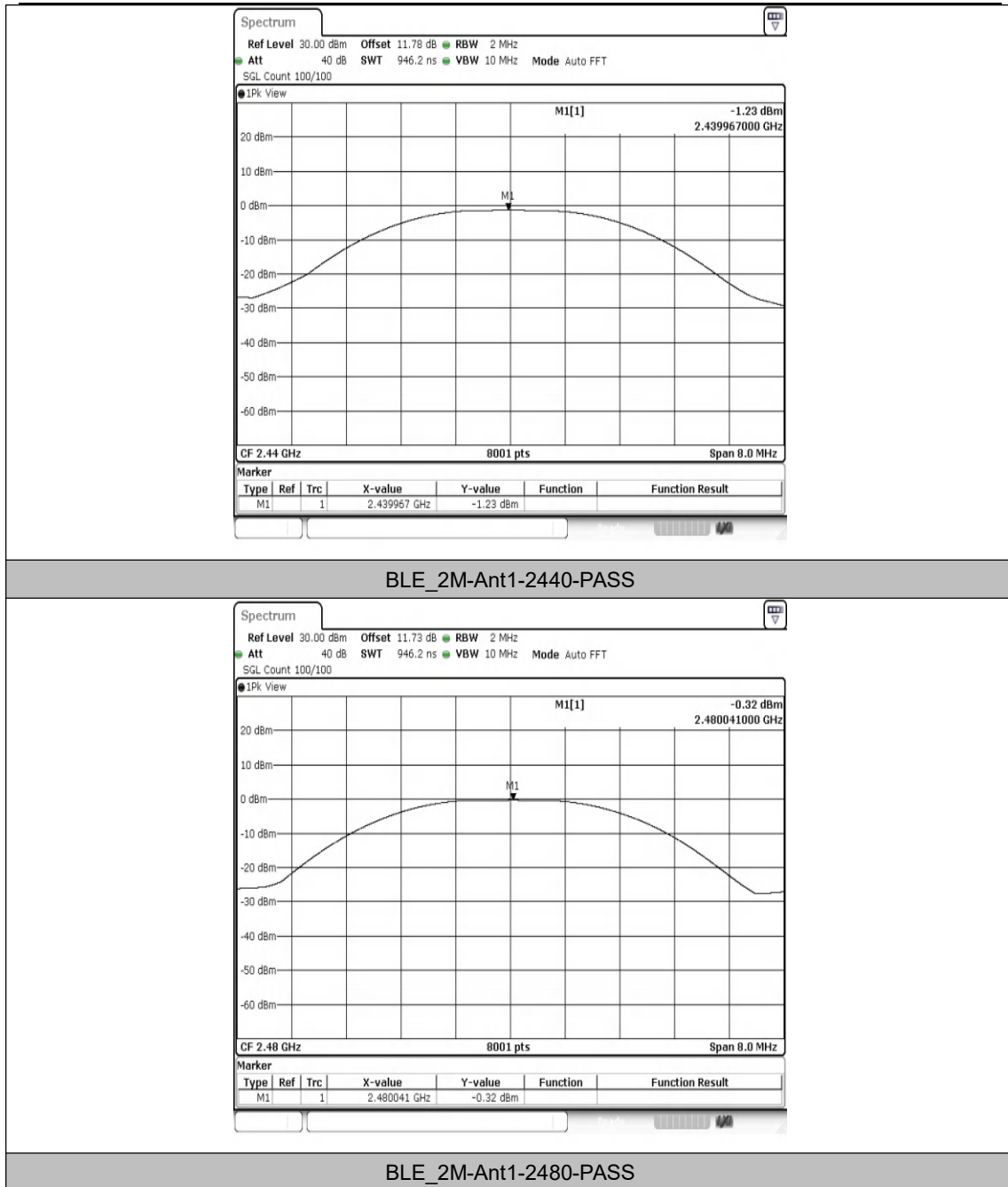
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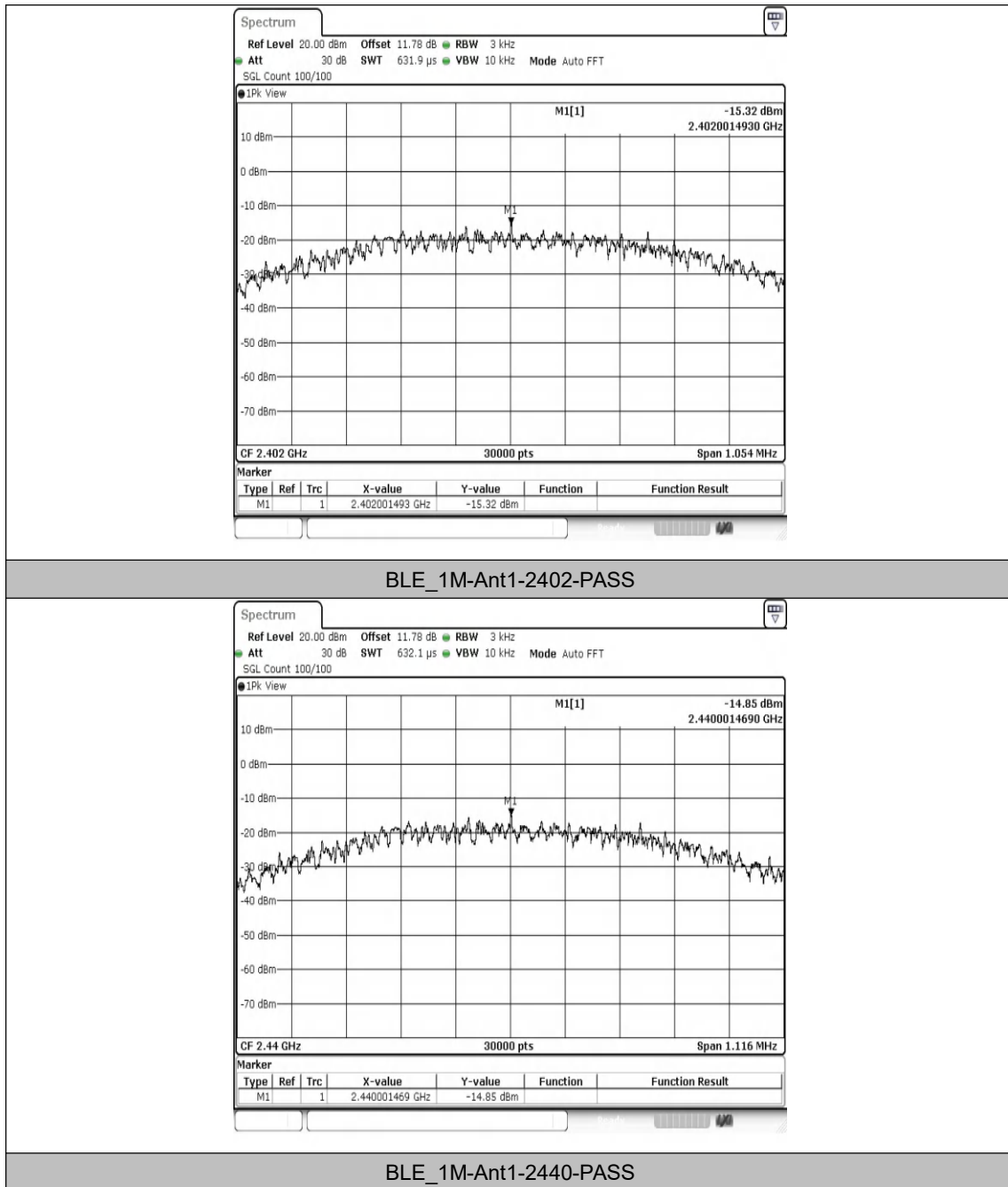
Appendix D: Maximum power spectral density

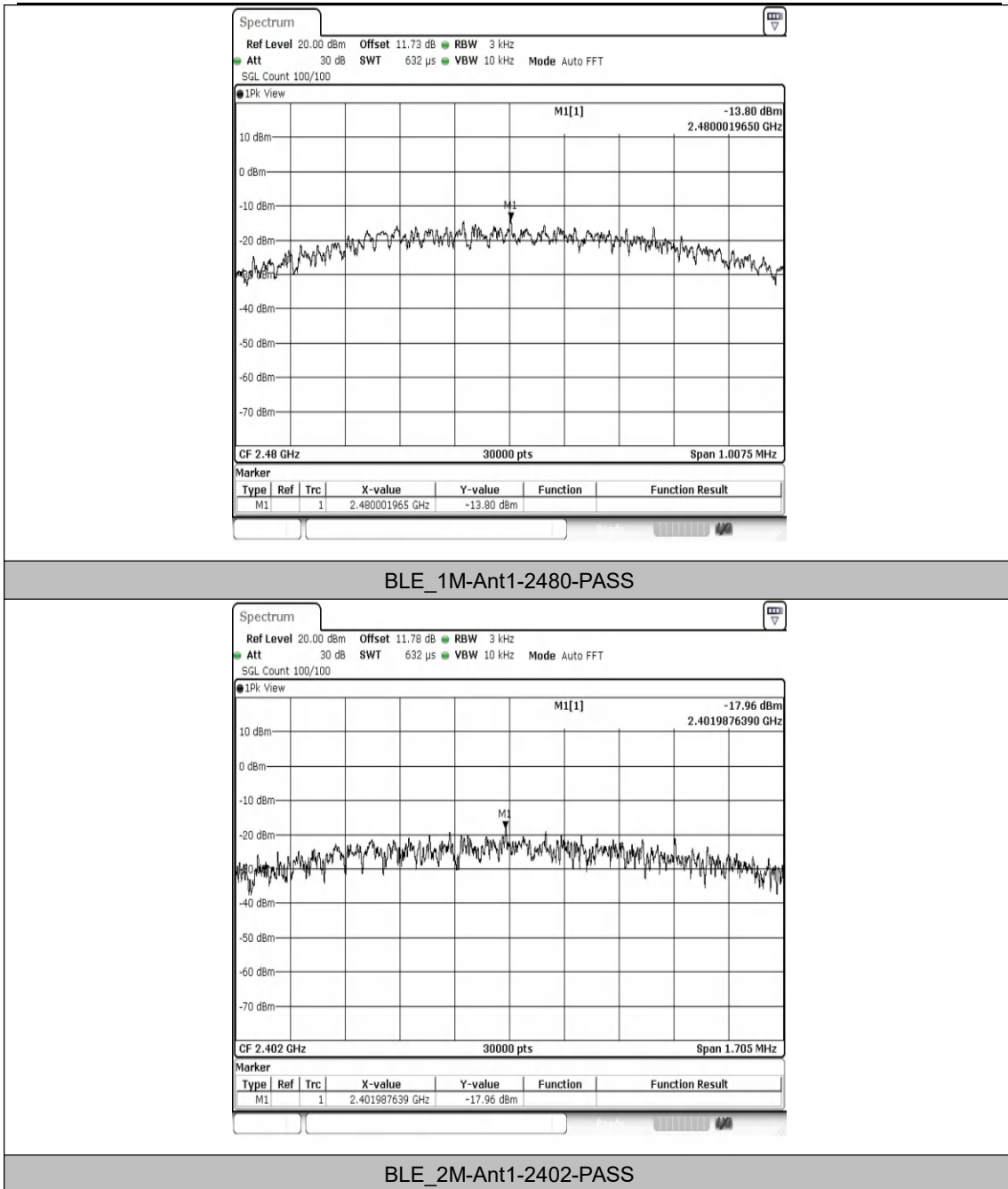
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.32	≤8.00	PASS
BLE_1M	Ant1	2440	-14.85	≤8.00	PASS
BLE_1M	Ant1	2480	-13.80	≤8.00	PASS
BLE_2M	Ant1	2402	-17.96	≤8.00	PASS
BLE_2M	Ant1	2440	-17.38	≤8.00	PASS
BLE_2M	Ant1	2480	-16.45	≤8.00	PASS



Test Graphs





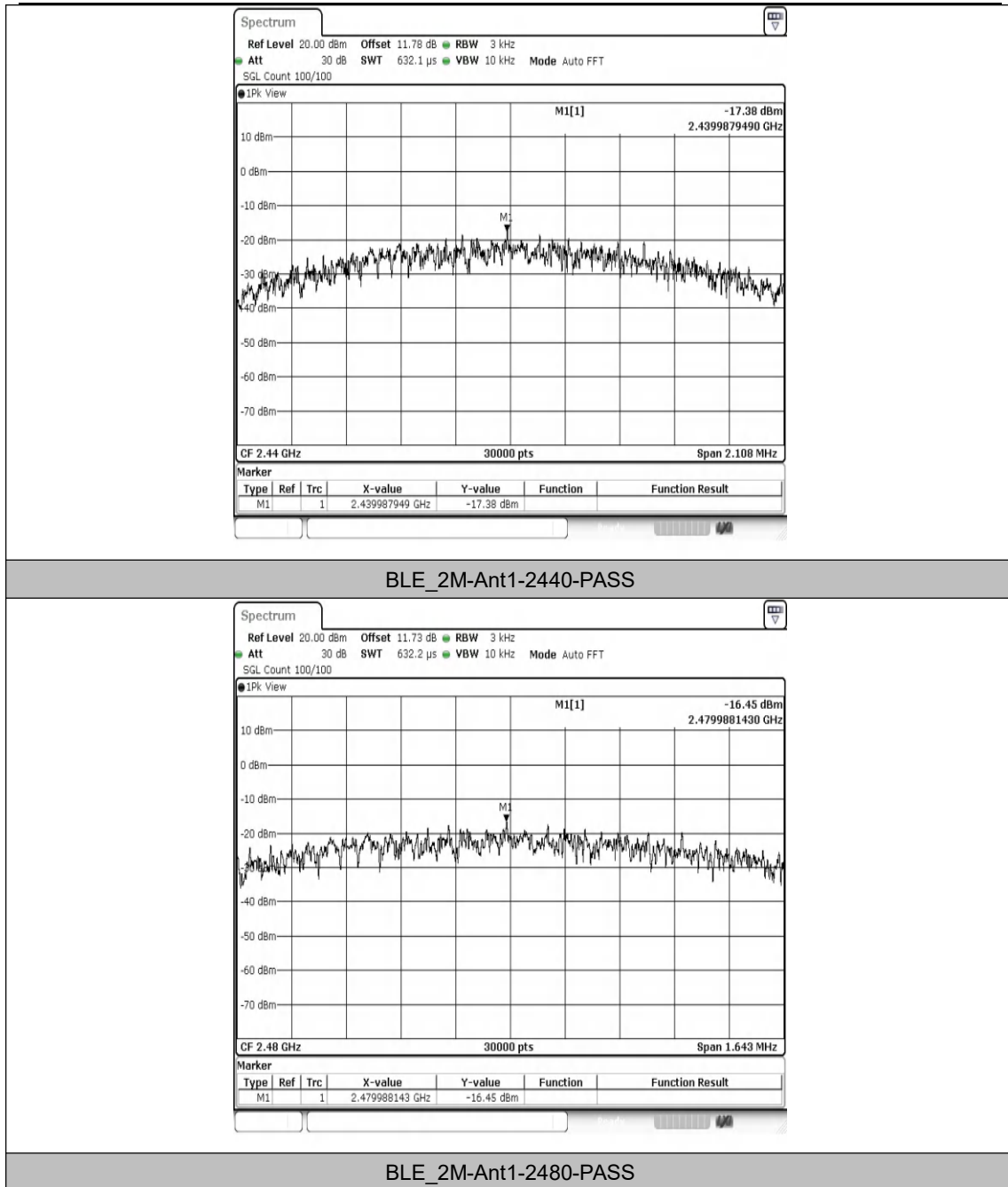
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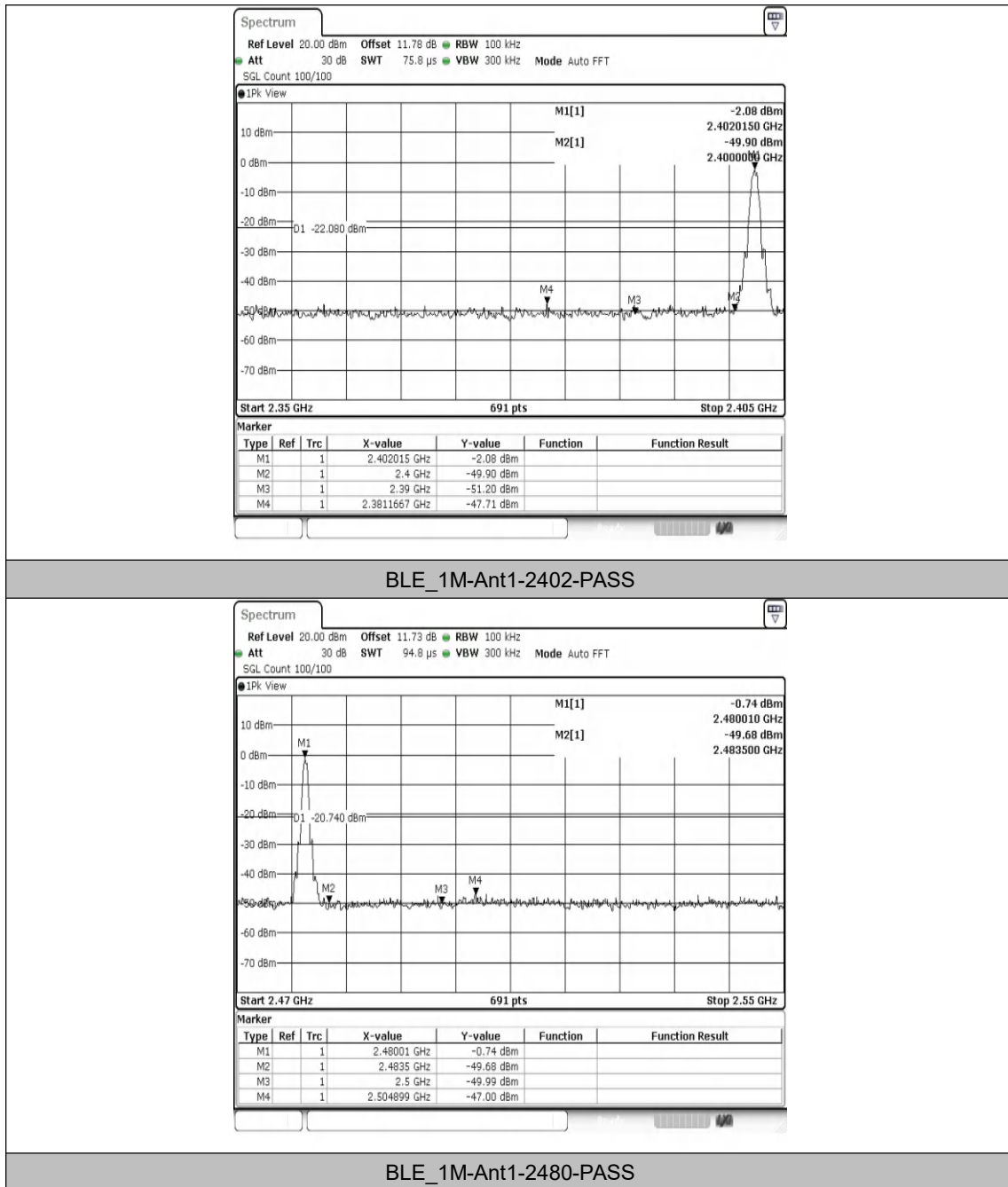
Appendix E: Band edge measurements

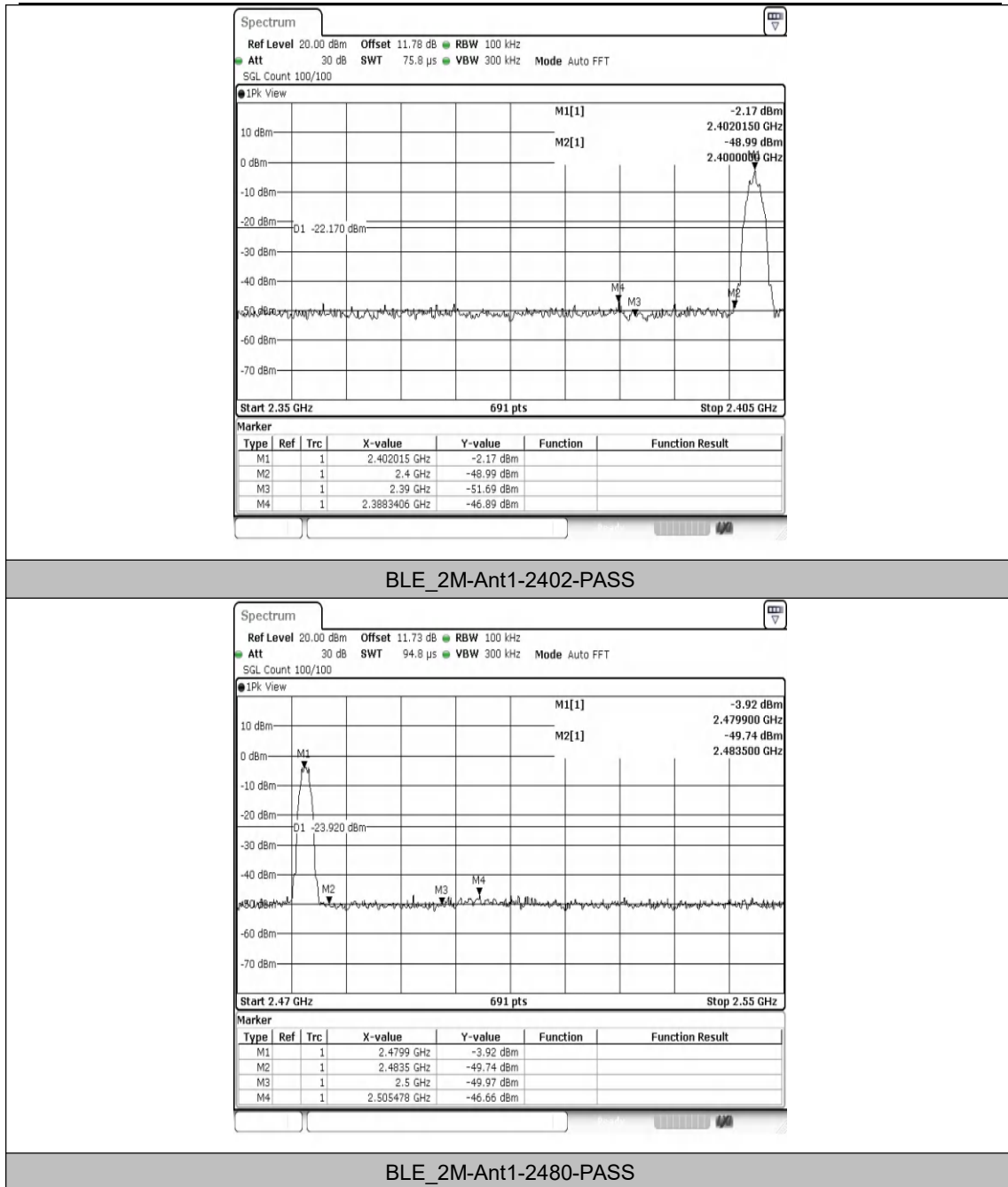
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.08	-47.71	≤-22.08	PASS
BLE_1M	Ant1	High	2480	-0.74	-47	≤-20.74	PASS
BLE_2M	Ant1	Low	2402	-2.17	-46.89	≤-22.17	PASS
BLE_2M	Ant1	High	2480	-3.92	-46.66	≤-23.92	PASS



Test Graphs





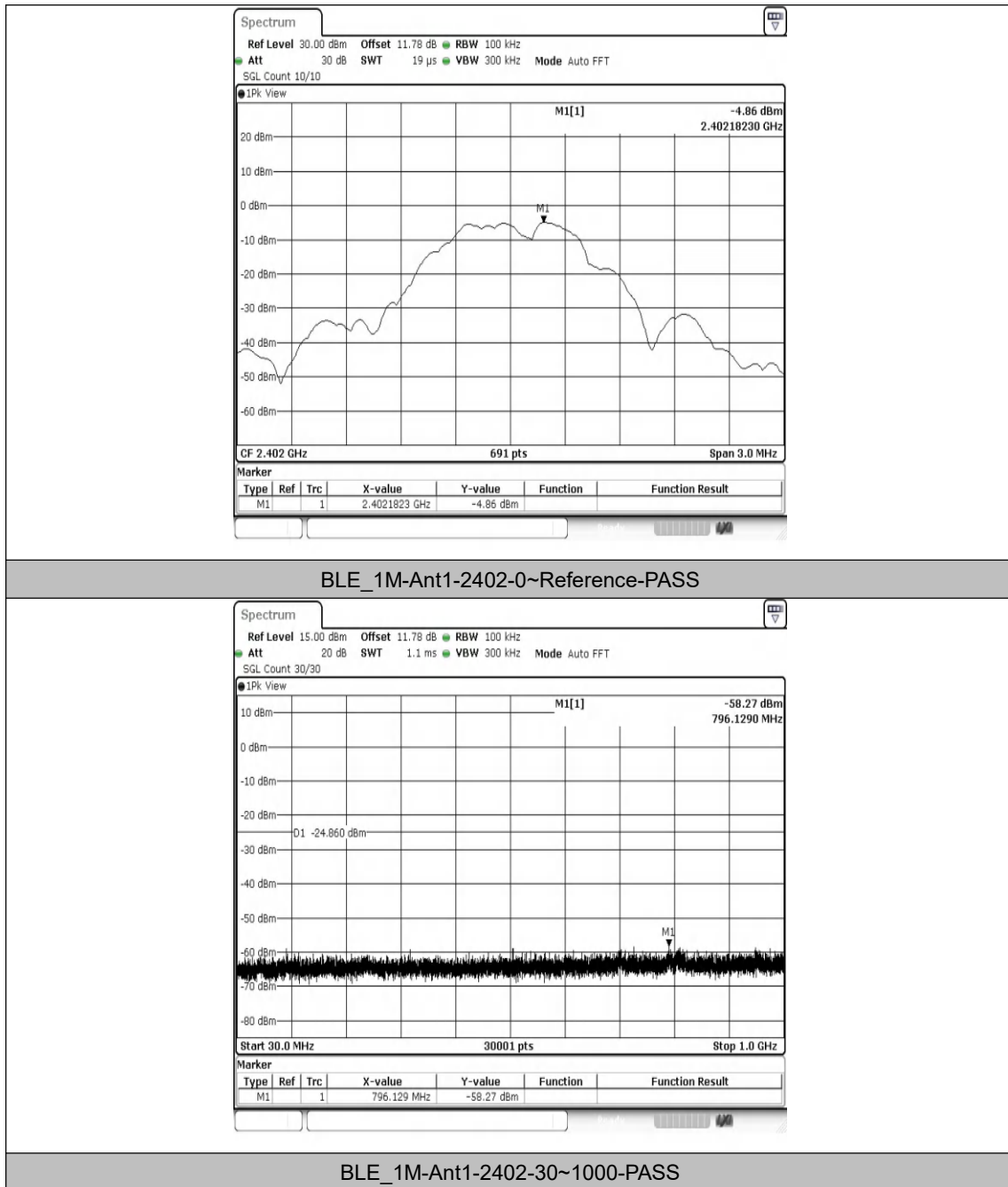
Appendix F: Conducted Spurious Emission

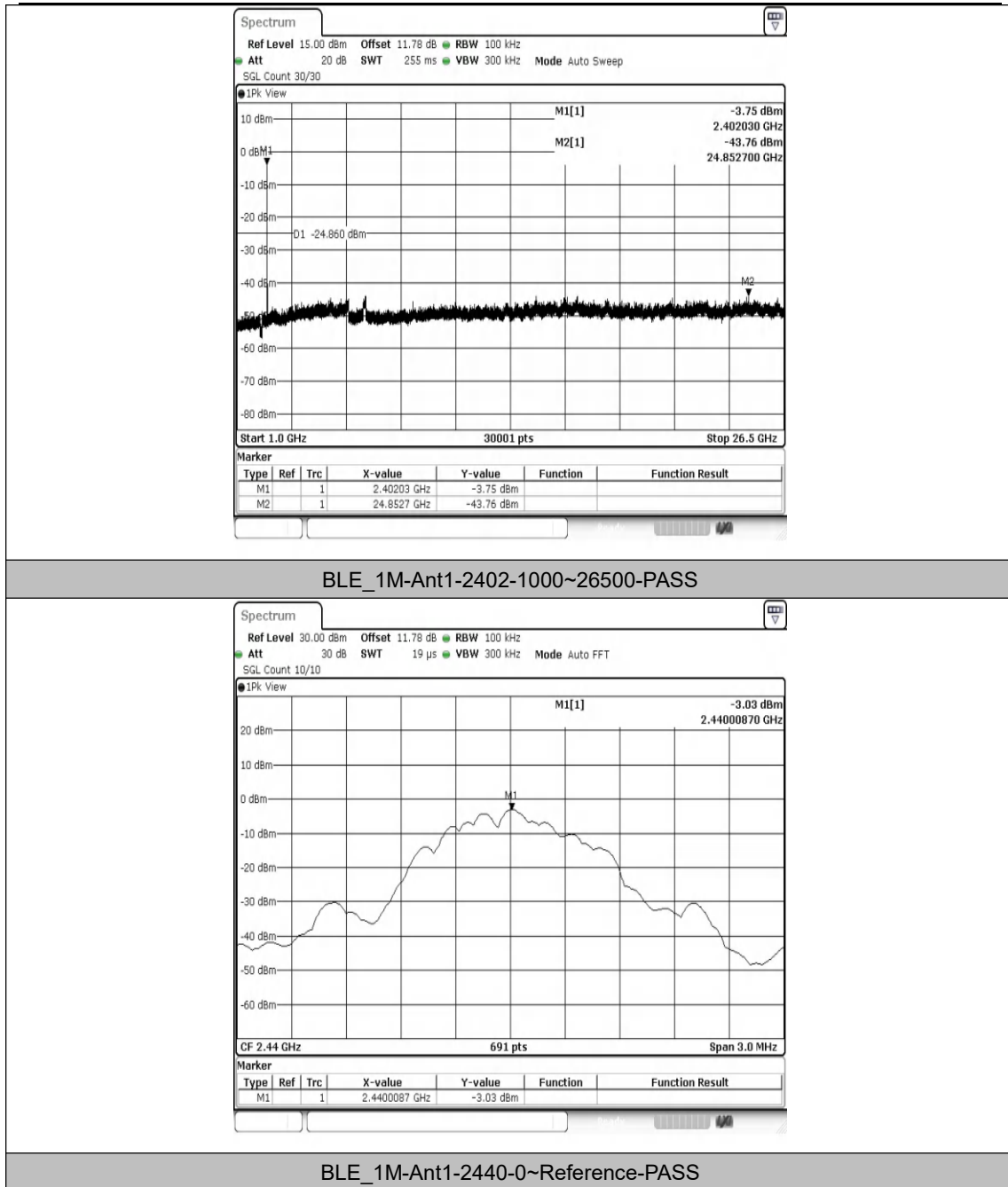
Test Result

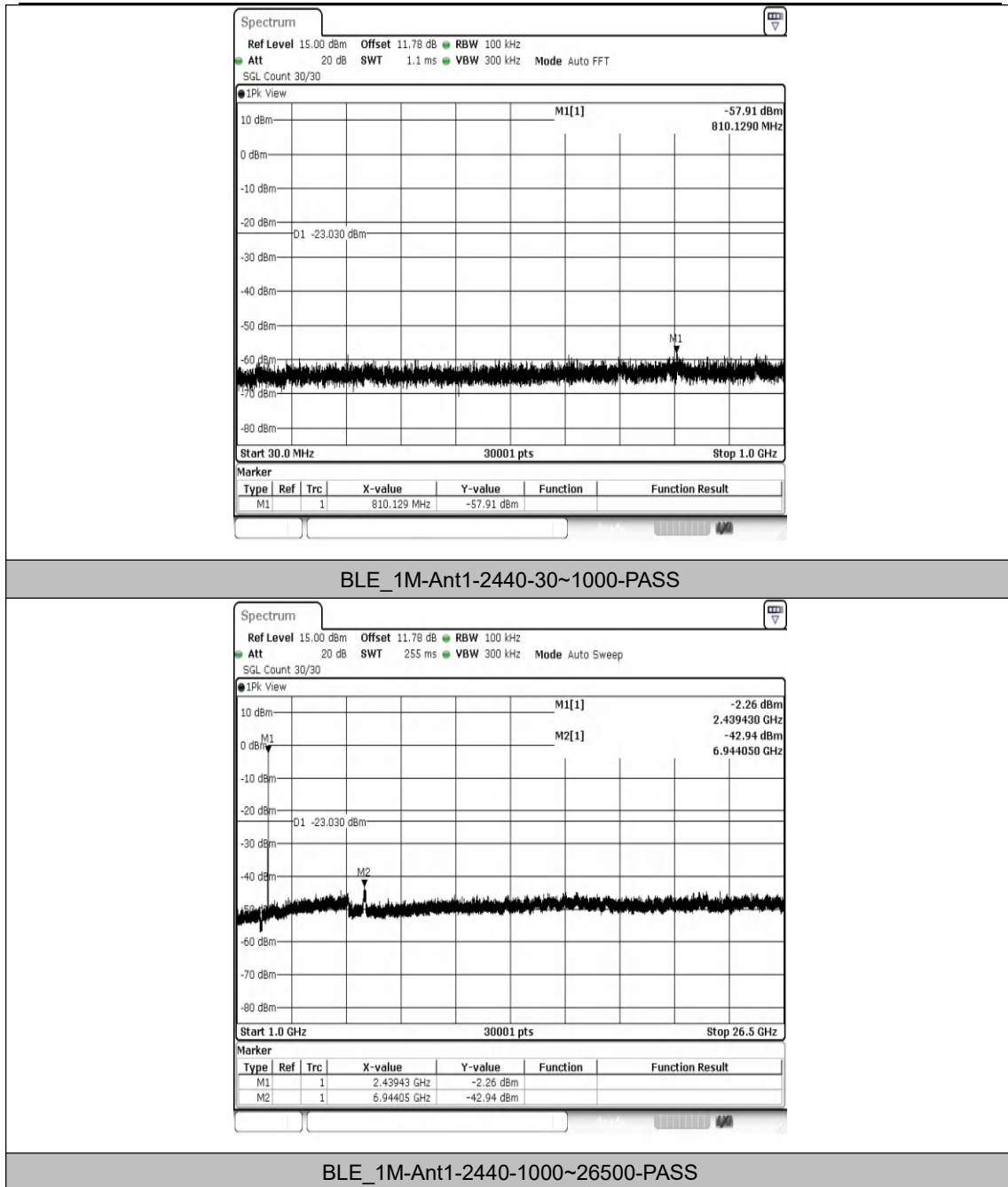
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-4.86	-4.86	---	PASS
BLE_1M	Ant1	2402	30~1000	-4.86	-58.27	≤-24.86	PASS
BLE_1M	Ant1	2402	1000~26500	-4.86	-43.76	≤-24.86	PASS
BLE_1M	Ant1	2440	0~Reference	-3.03	-3.03	---	PASS
BLE_1M	Ant1	2440	30~1000	-3.03	-57.91	≤-23.03	PASS
BLE_1M	Ant1	2440	1000~26500	-3.03	-42.94	≤-23.03	PASS
BLE_1M	Ant1	2480	0~Reference	-2.09	-2.09	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.09	-56.92	≤-22.09	PASS
BLE_1M	Ant1	2480	1000~26500	-2.09	-39.3	≤-22.09	PASS
BLE_2M	Ant1	2402	0~Reference	-6.12	-6.12	---	PASS
BLE_2M	Ant1	2402	30~1000	-6.12	-57.98	≤-26.12	PASS
BLE_2M	Ant1	2402	1000~26500	-6.12	-43.74	≤-26.12	PASS
BLE_2M	Ant1	2440	0~Reference	-4.94	-4.94	---	PASS
BLE_2M	Ant1	2440	30~1000	-4.94	-56.81	≤-24.94	PASS
BLE_2M	Ant1	2440	1000~26500	-4.94	-43.86	≤-24.94	PASS
BLE_2M	Ant1	2480	0~Reference	-4.74	-4.74	---	PASS
BLE_2M	Ant1	2480	30~1000	-4.74	-57.35	≤-24.74	PASS
BLE_2M	Ant1	2480	1000~26500	-4.74	-40.92	≤-24.74	PASS



Test Graphs







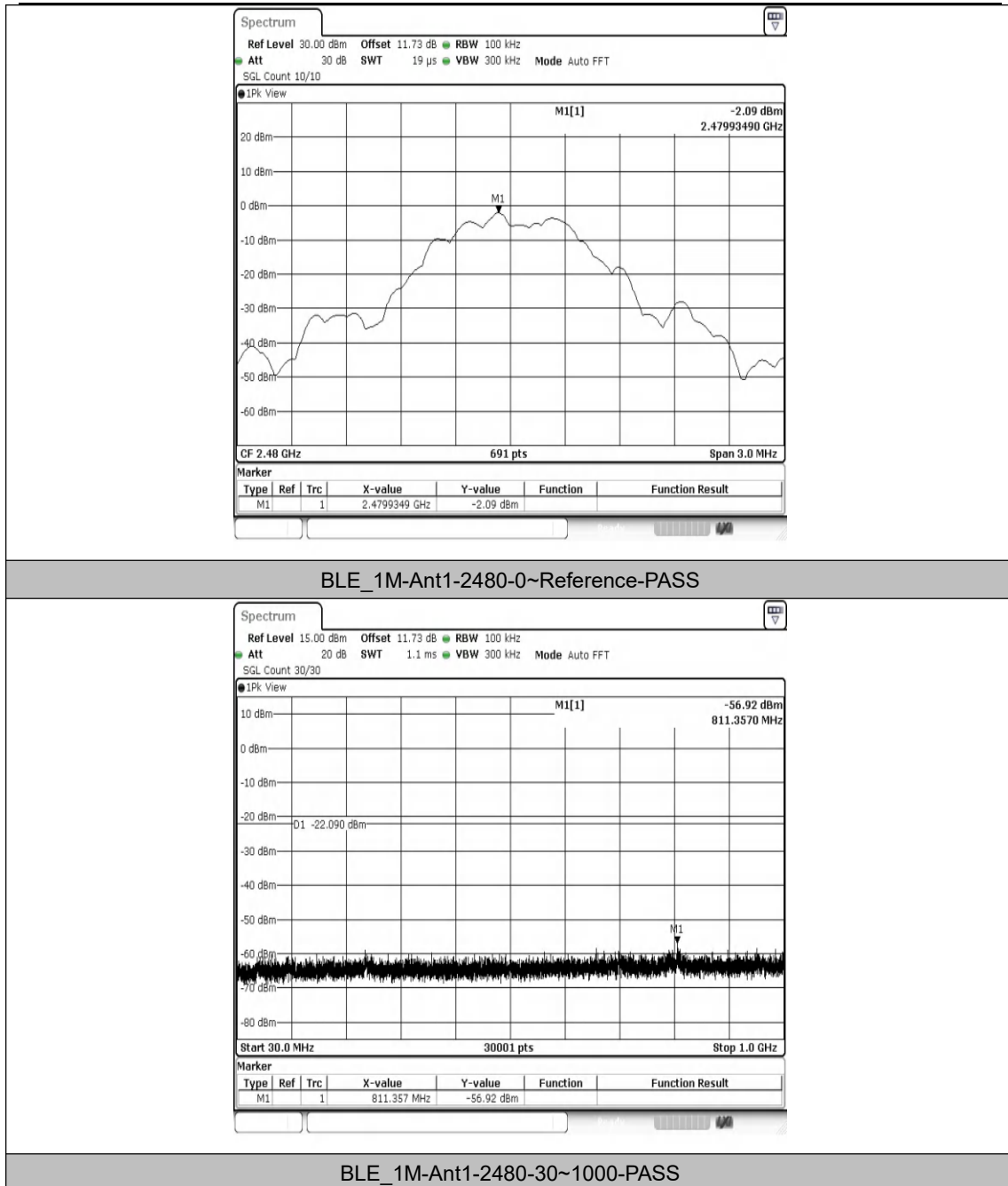
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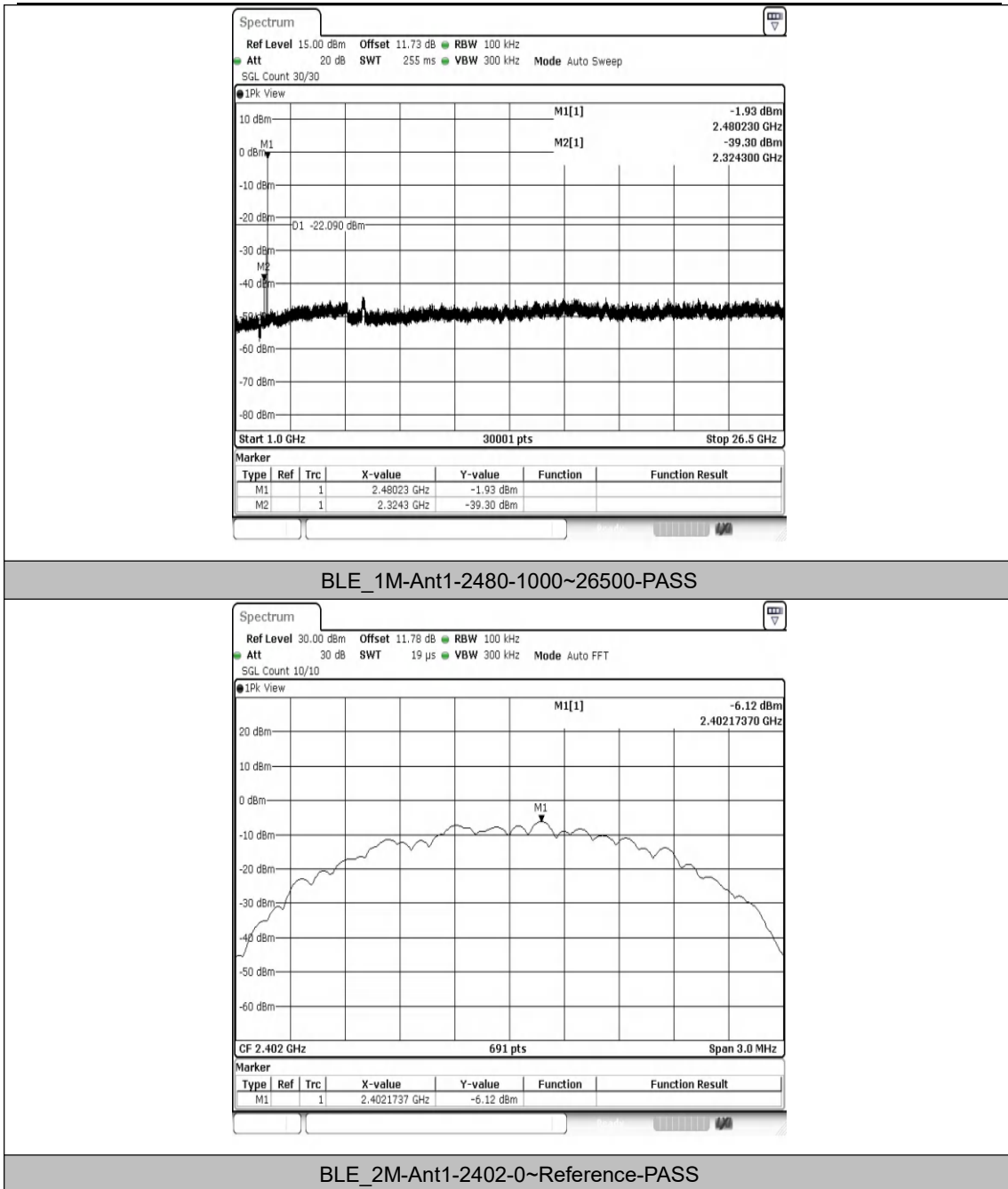
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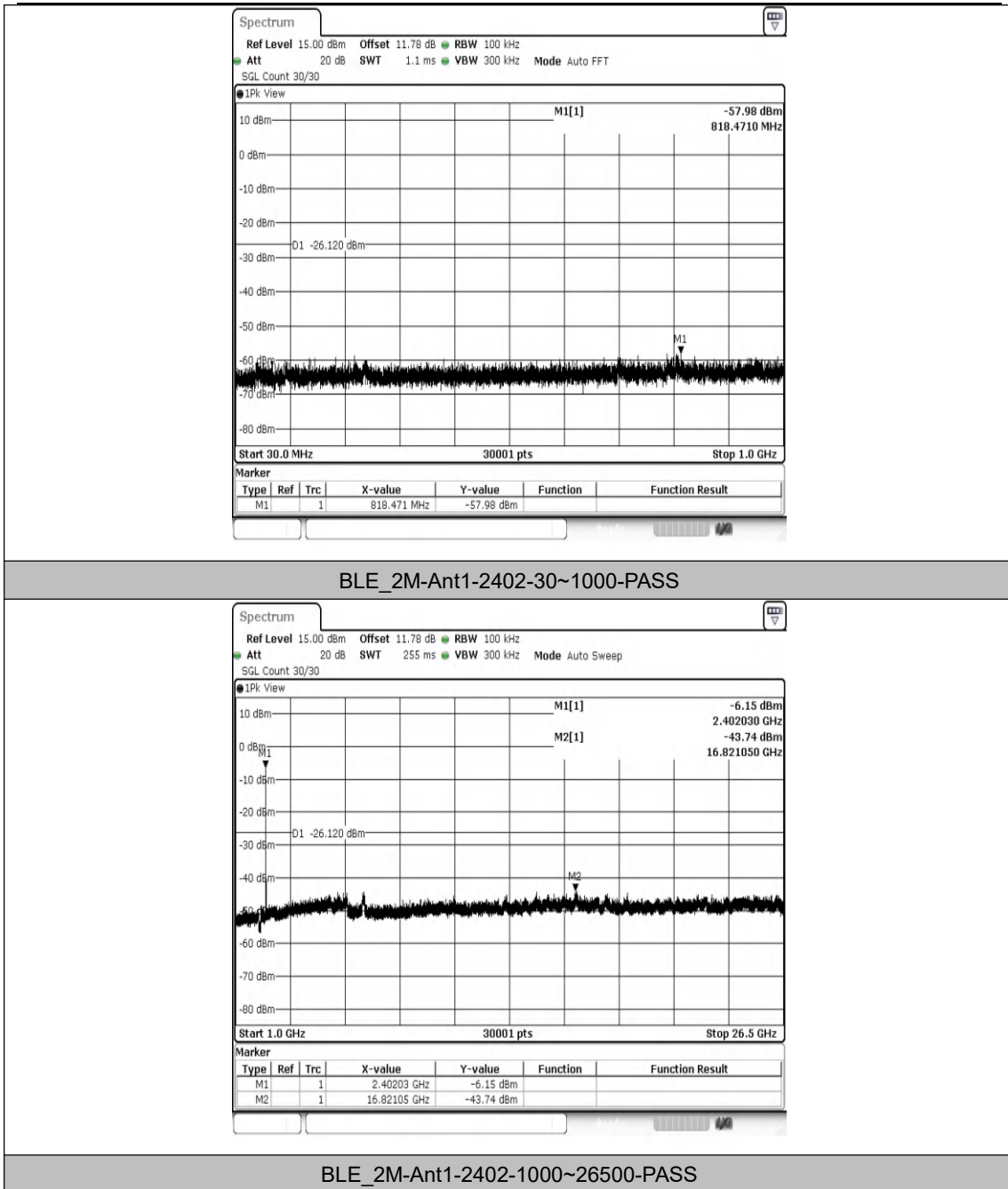


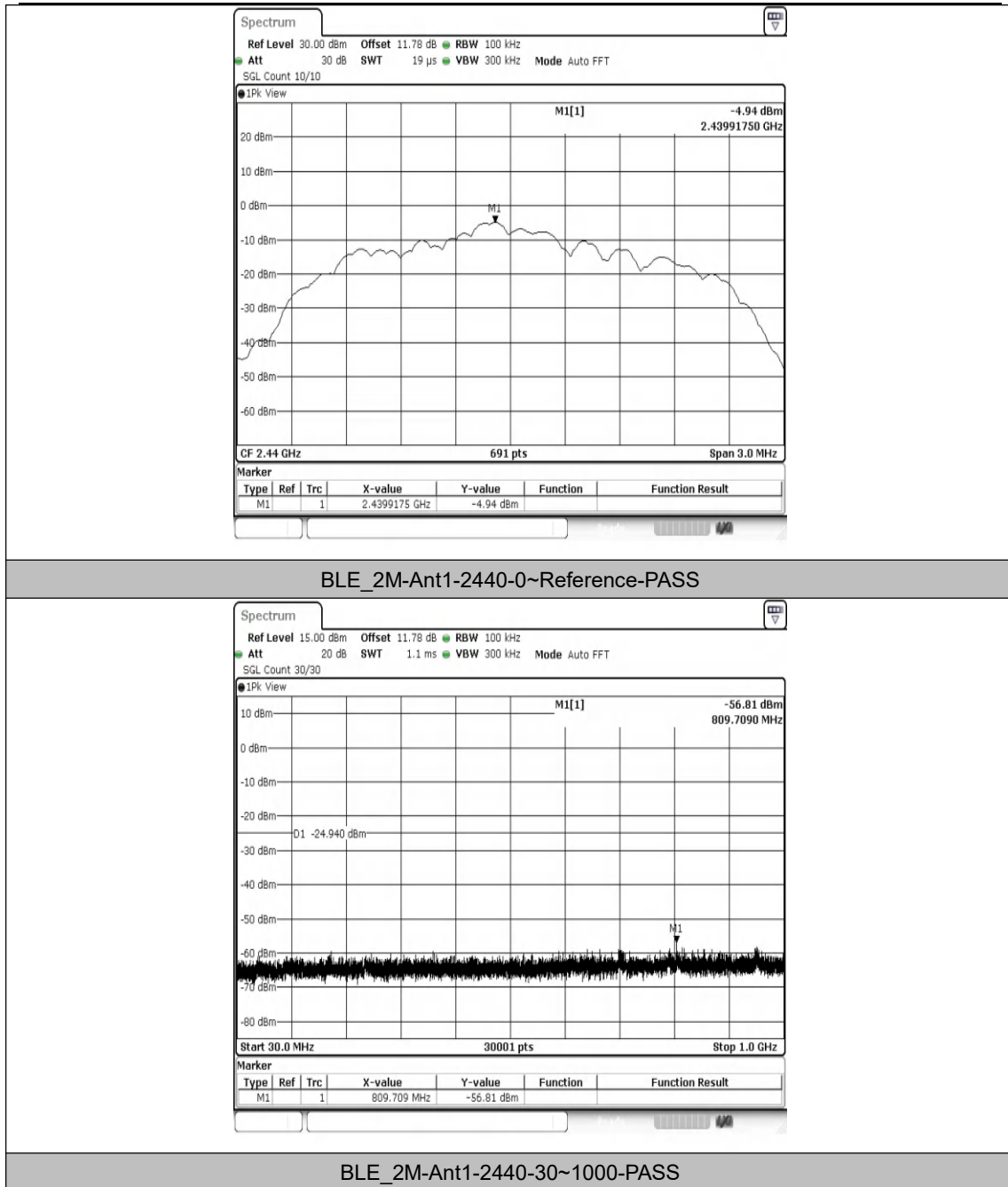
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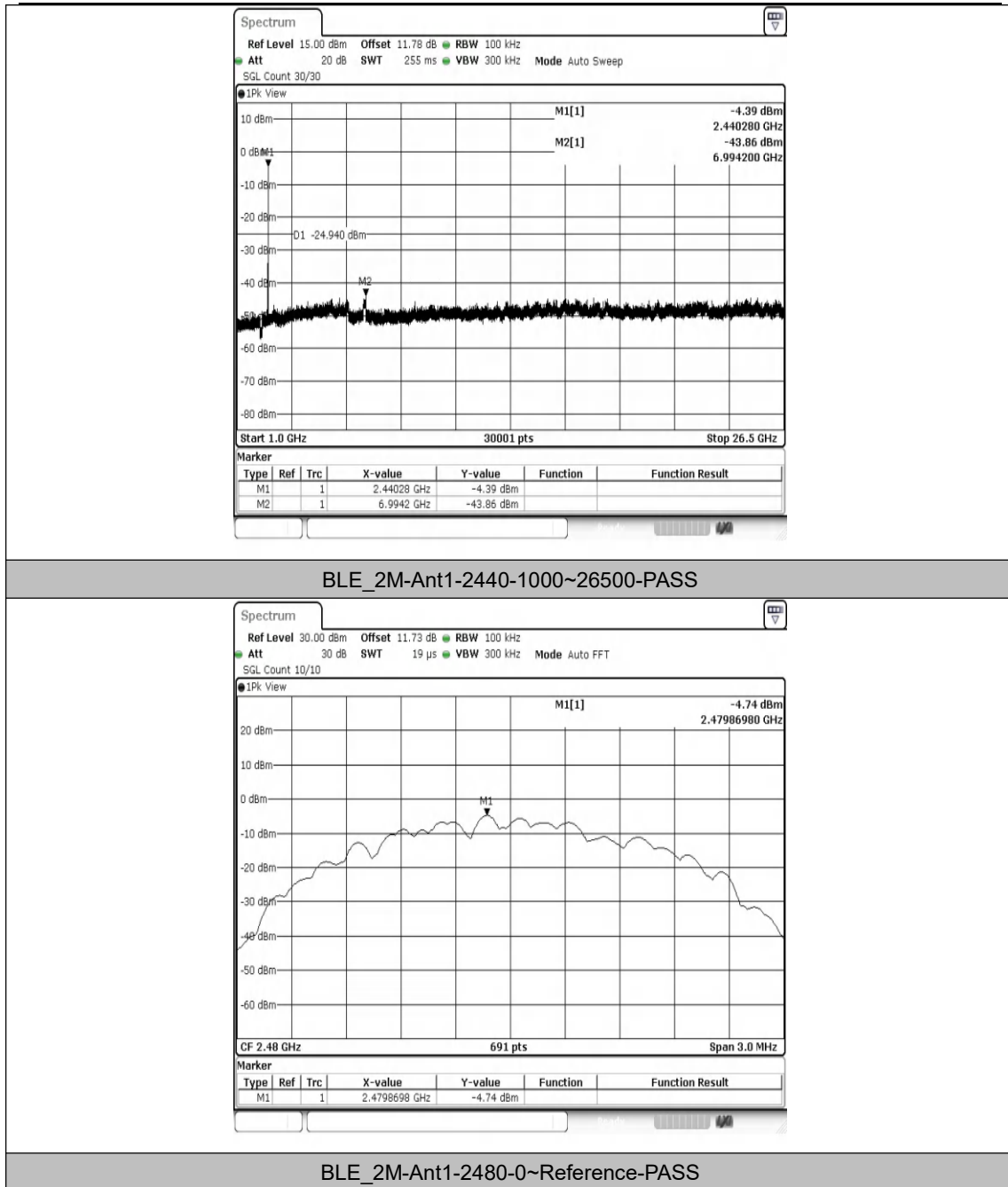


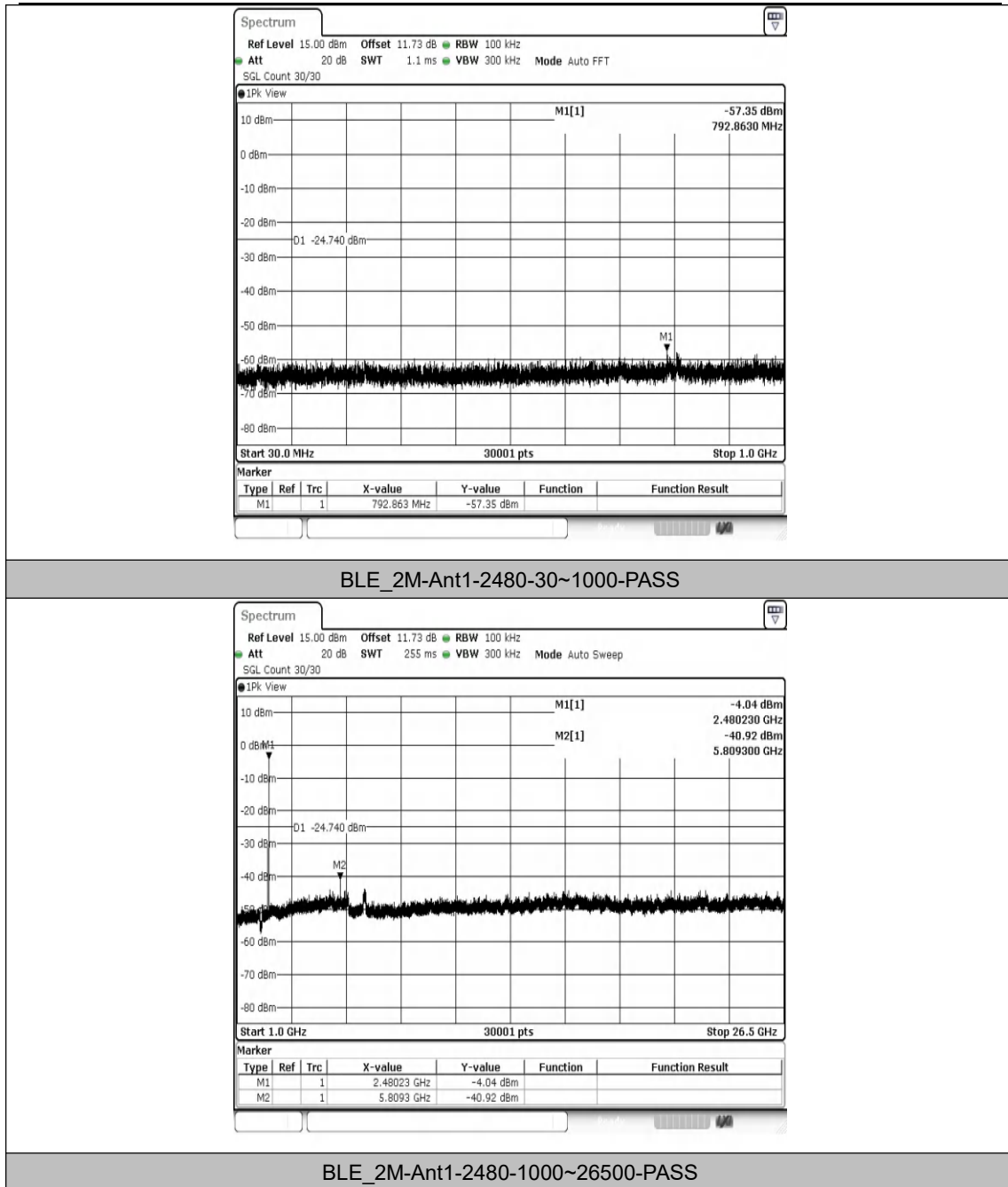












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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.10	2.21	95.02	0.22
BLE_1M	Ant1	2440	2.10	2.21	95.02	0.22
BLE_1M	Ant1	2480	2.10	2.21	95.02	0.22
BLE_2M	Ant1	2402	1.06	1.17	90.60	0.43
BLE_2M	Ant1	2440	1.06	1.17	90.60	0.43
BLE_2M	Ant1	2480	1.06	1.17	90.60	0.43

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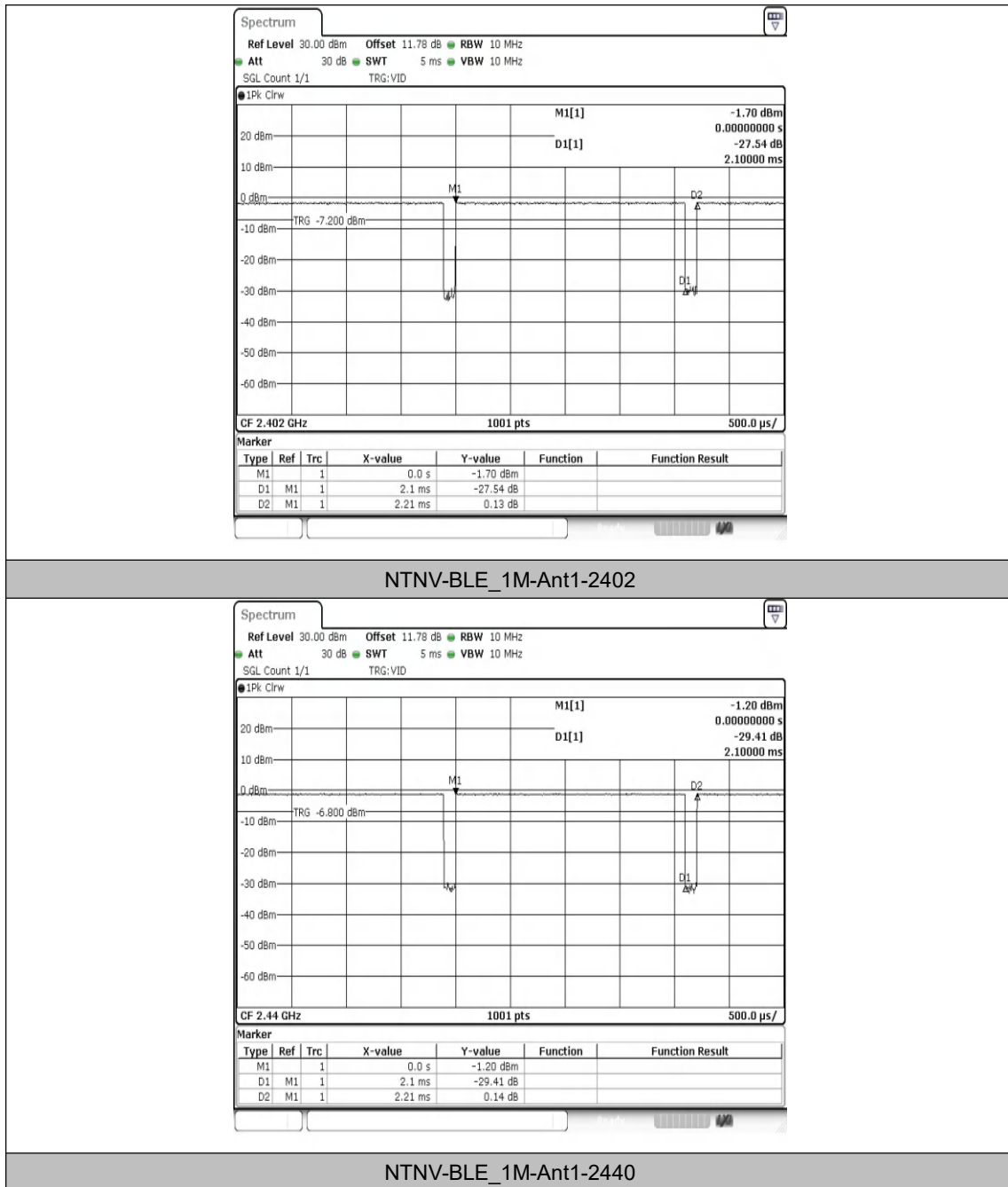
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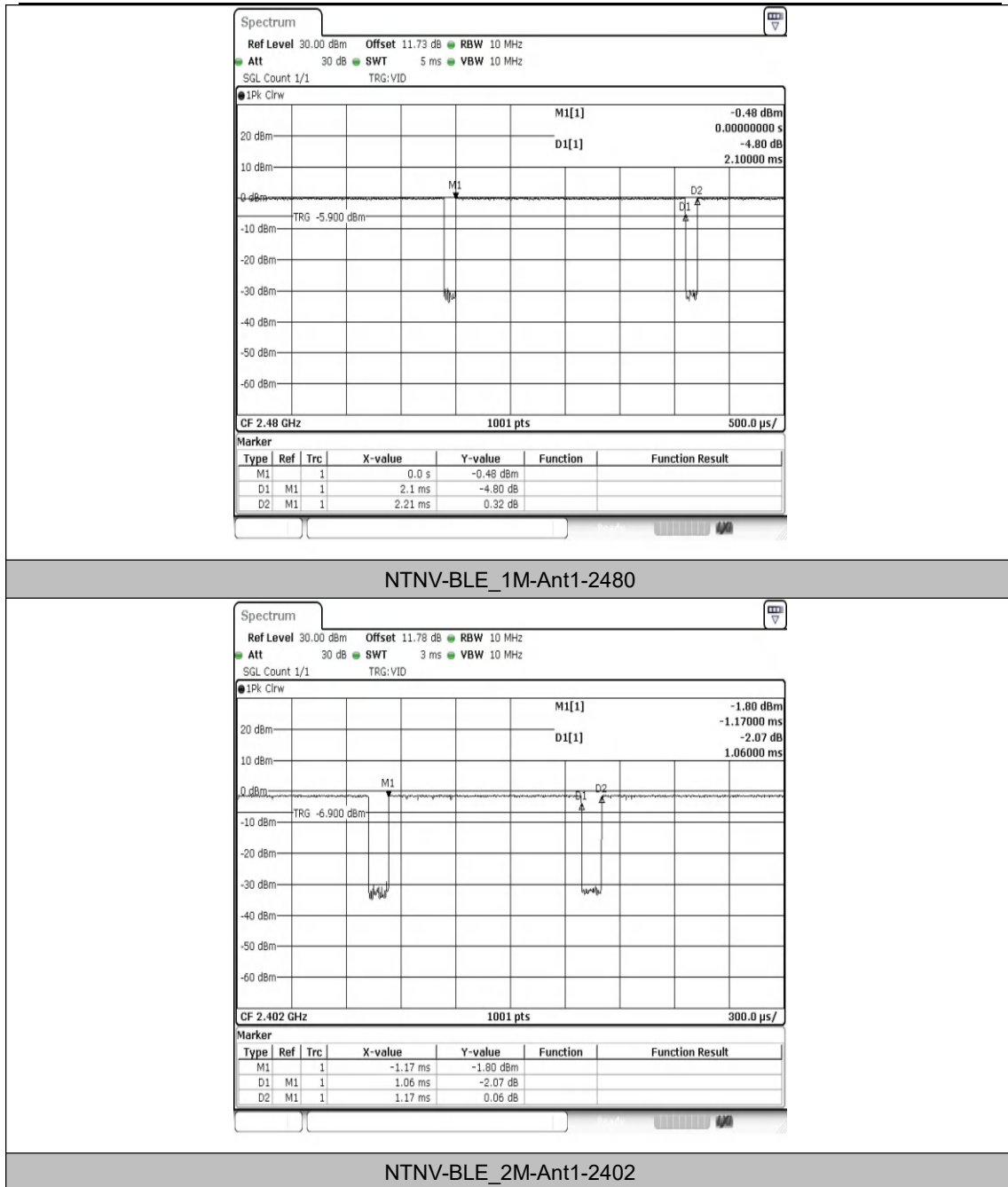


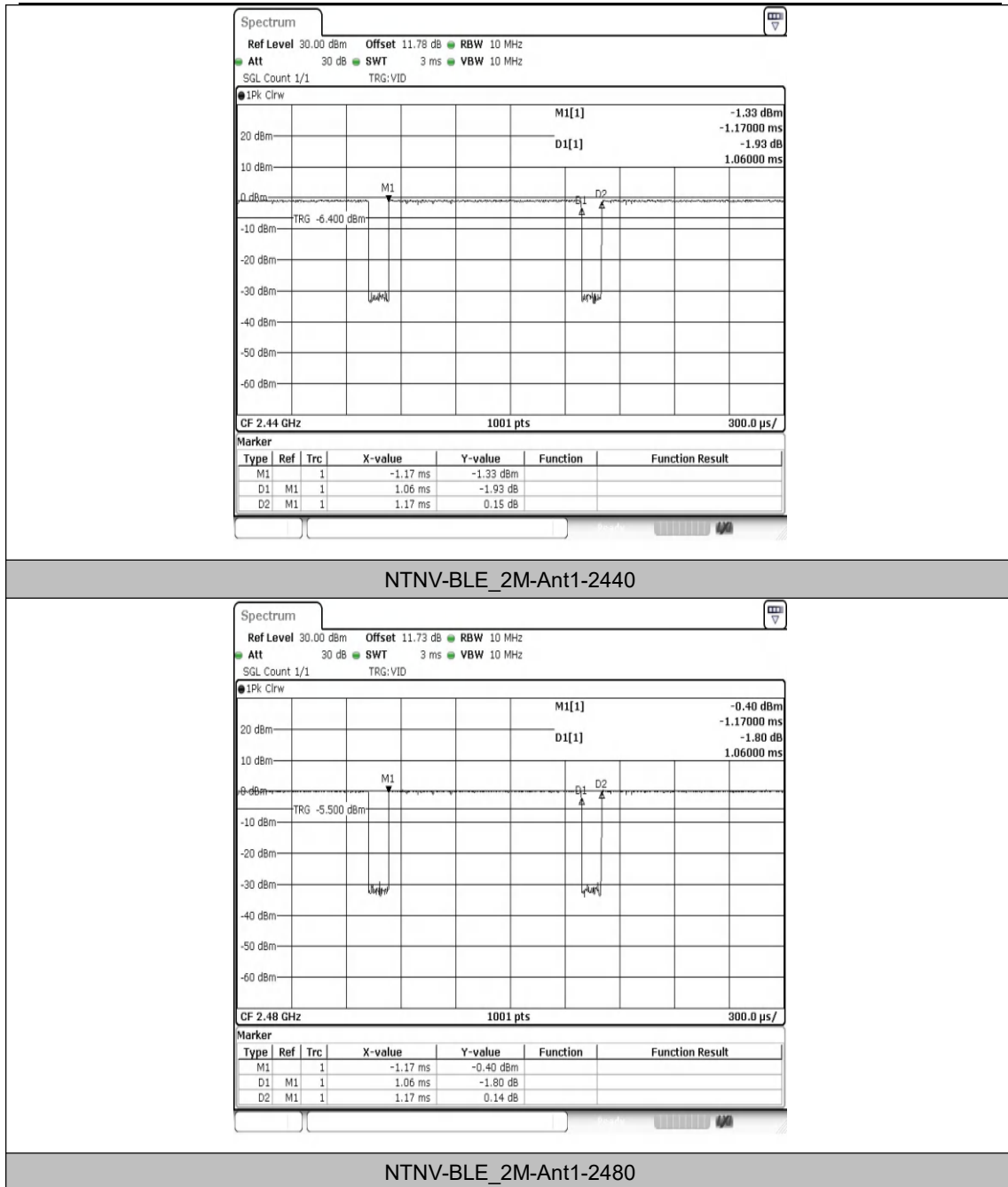
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Test Graphs







---End---

