

Appendix Test Data

Report No.:	1812C40139212502	Test Sample No.:	1-2-2
Start Test Date:	2024.11.12	Finish Test Date:	2024.11.20
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23°C	Relative Humidity:	54%
Pressure:	101kPa		

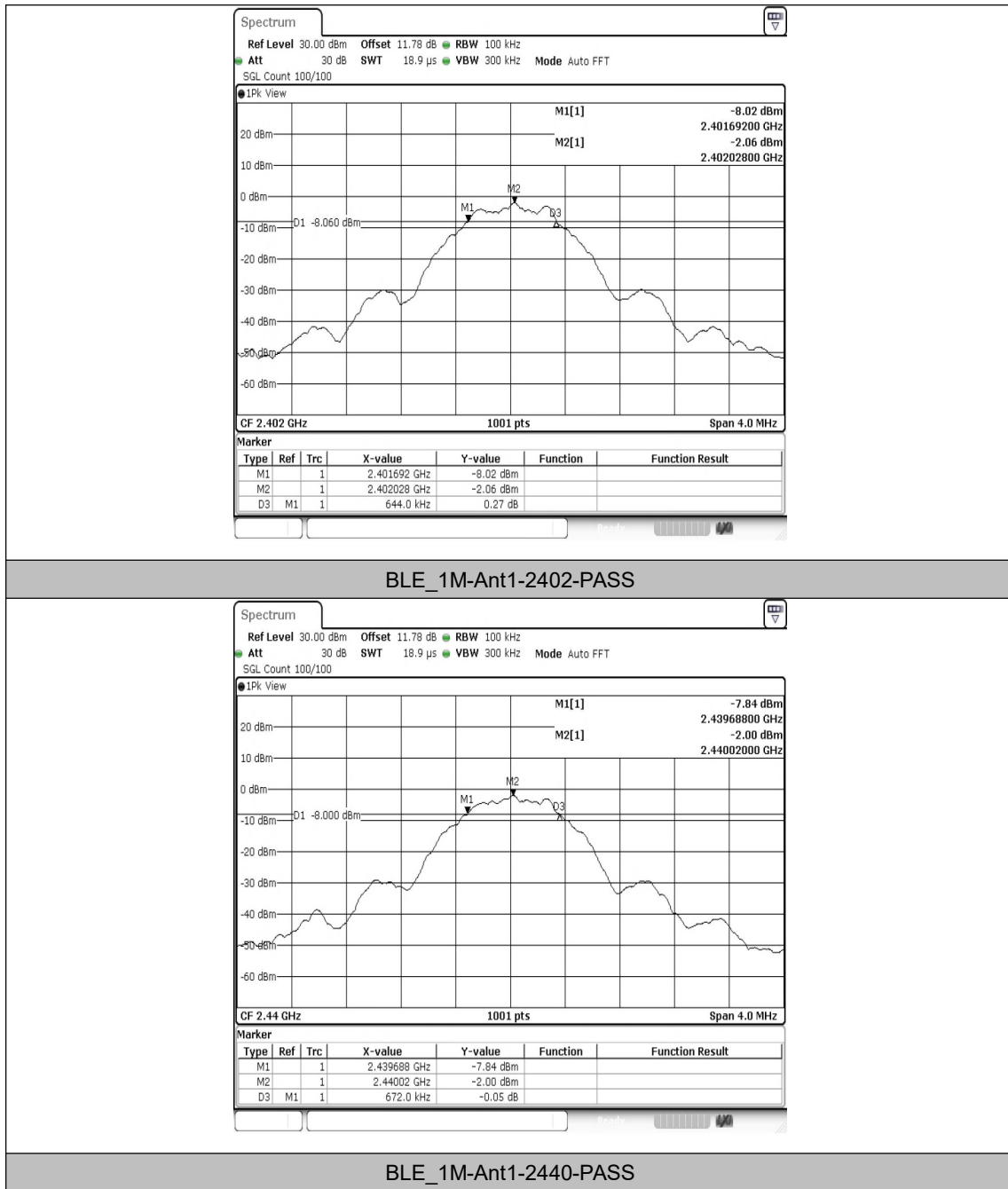
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.64	2401.69	2402.34	0.5	PASS
BLE_1M	Ant1	2440	0.67	2439.69	2440.36	0.5	PASS
BLE_1M	Ant1	2480	0.66	2479.68	2480.34	0.5	PASS
BLE_2M	Ant1	2402	1.36	2401.33	2402.70	0.5	PASS
BLE_2M	Ant1	2440	0.85	2439.44	2440.29	0.5	PASS
BLE_2M	Ant1	2480	0.97	2479.48	2480.45	0.5	PASS



Test Graphs



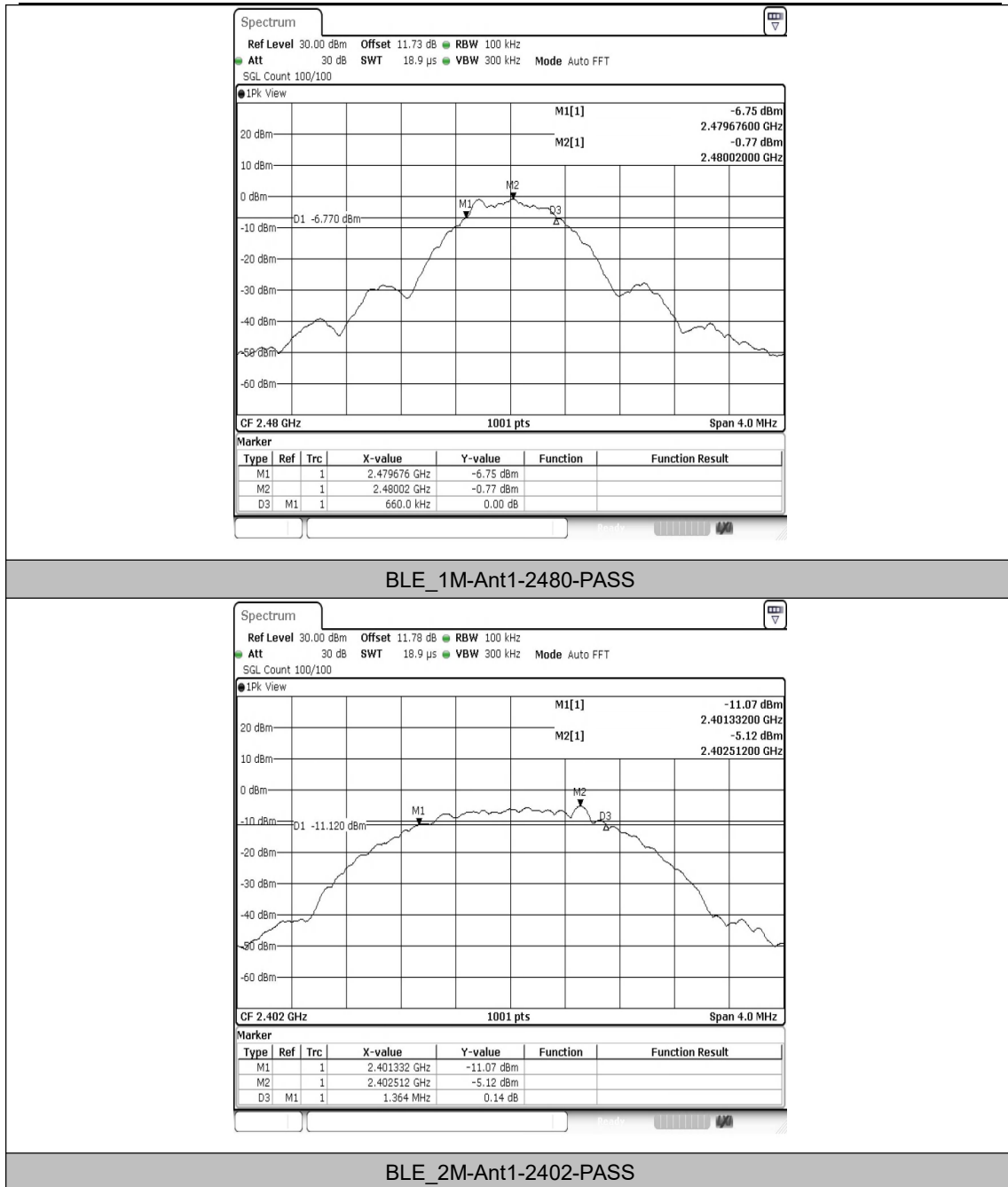
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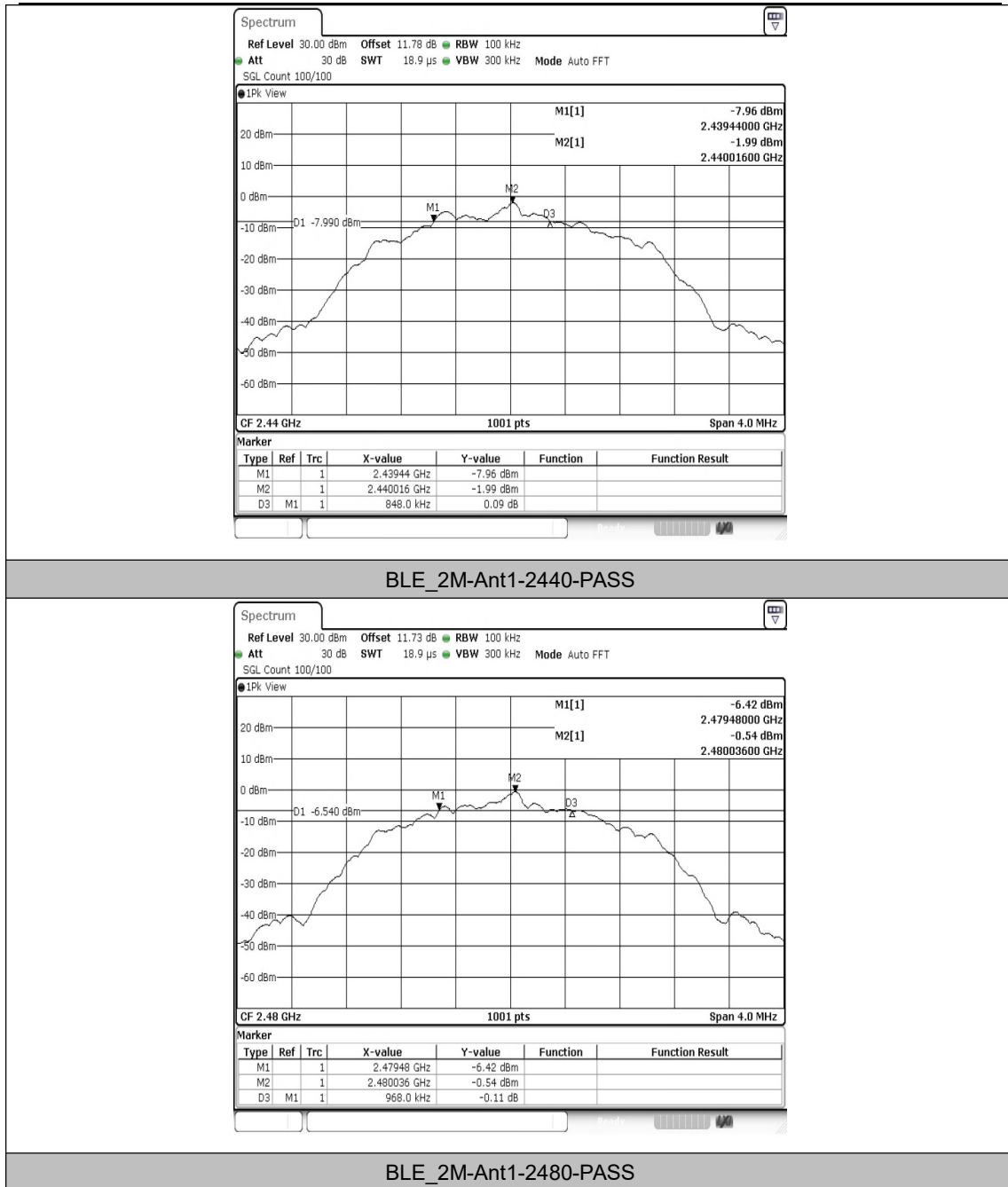
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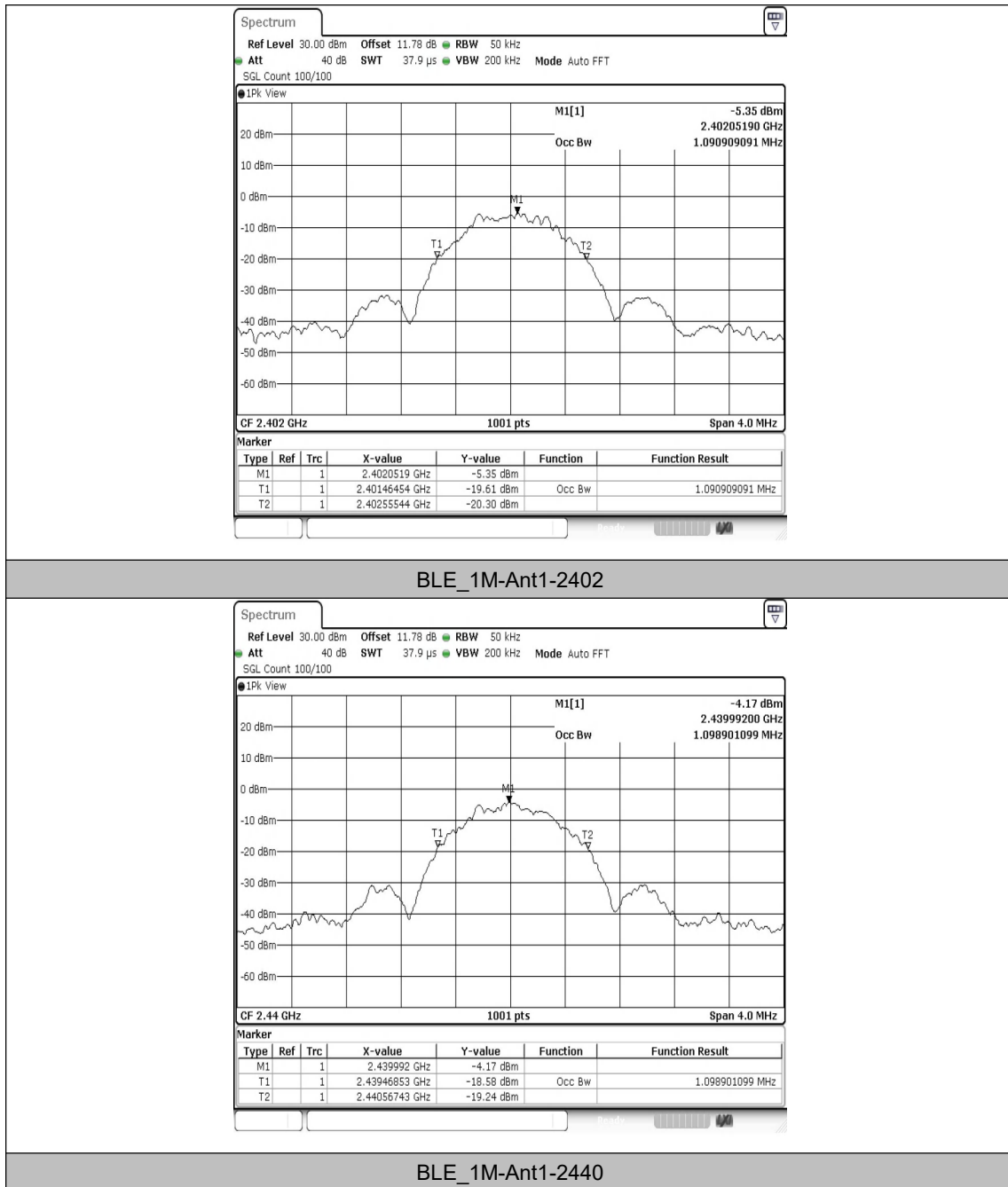
Appendix B: 99% Occupied Bandwidth

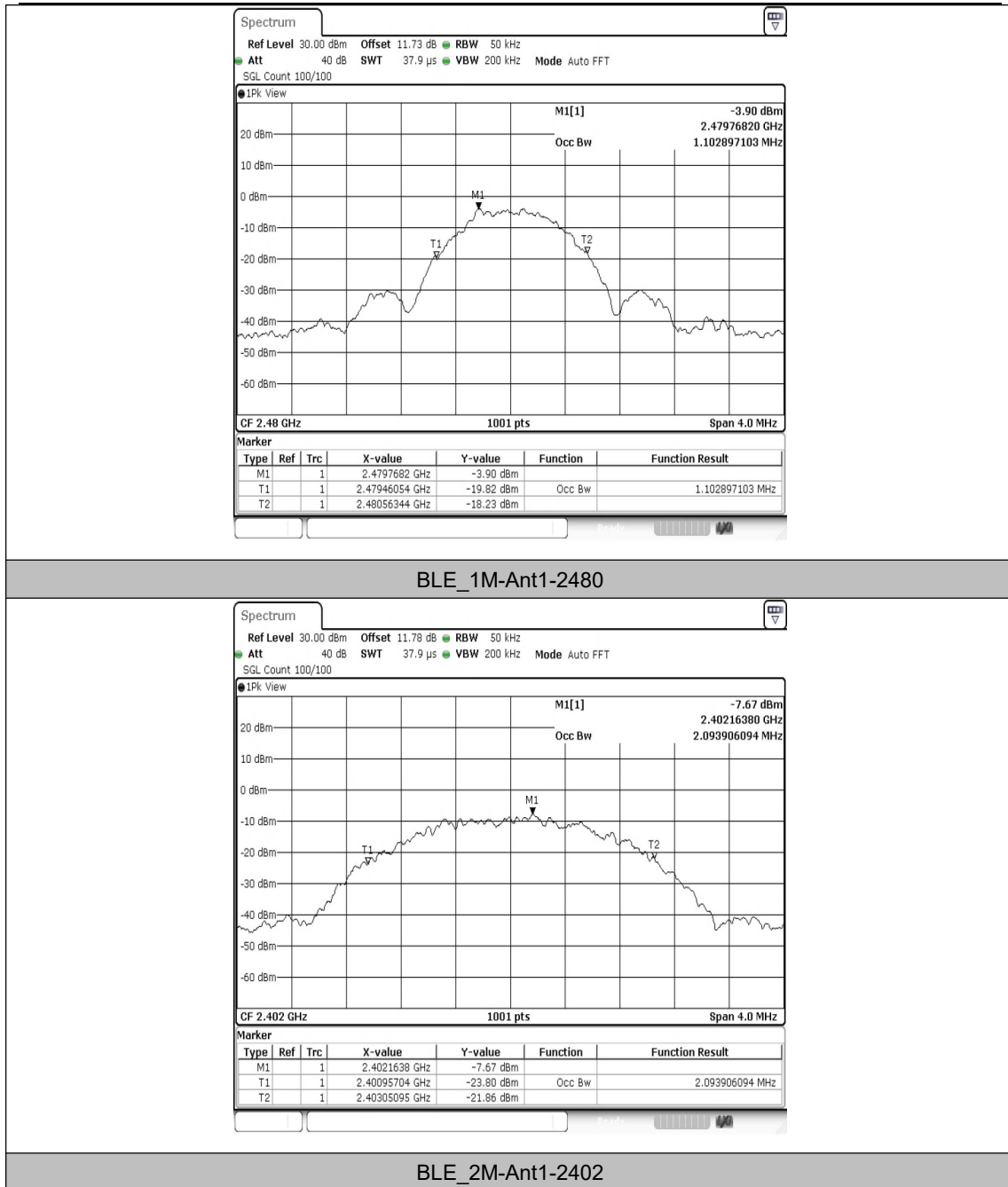
Test Result

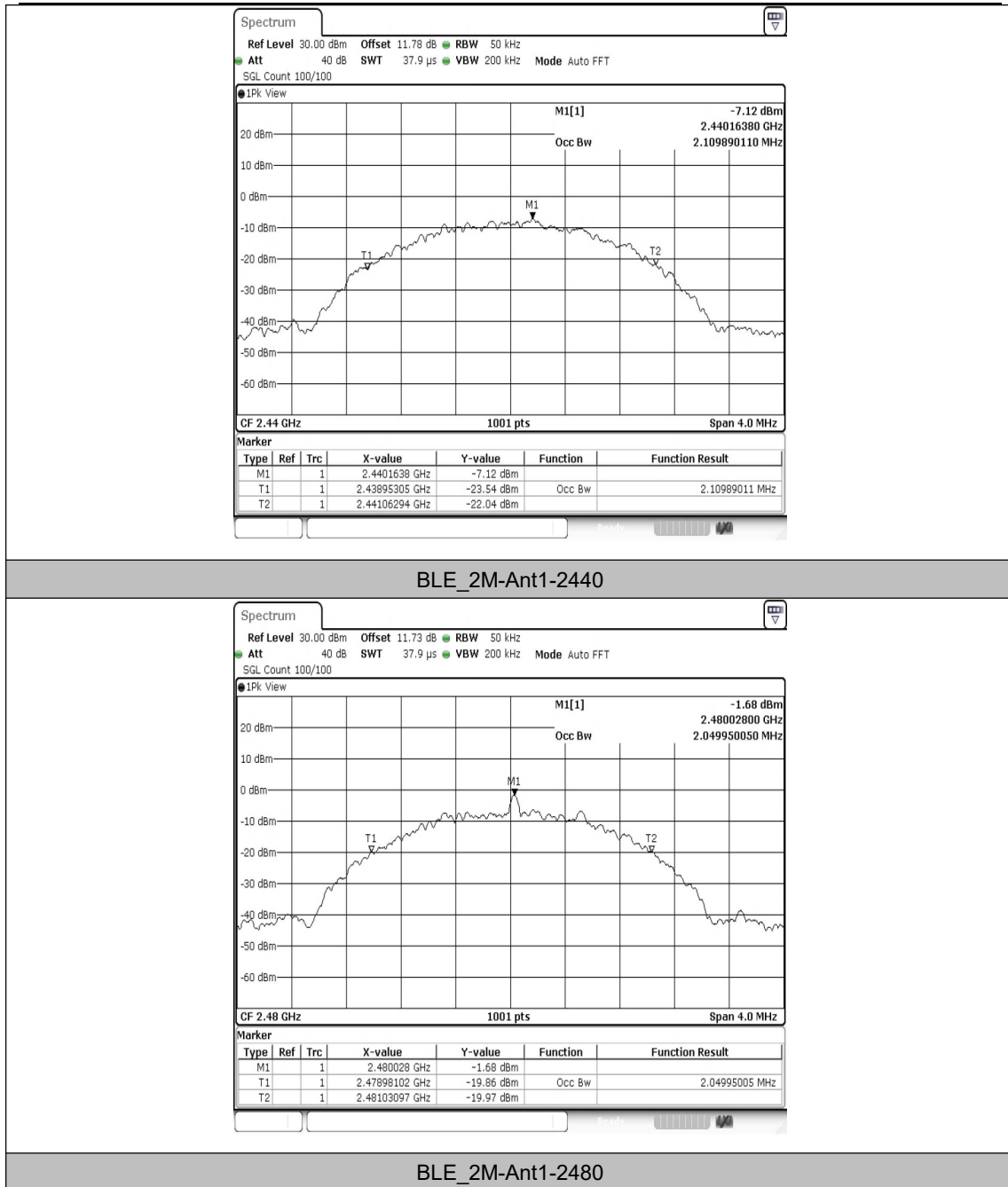
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.091	2401.4645	2402.5554	---	---
BLE_1M	Ant1	2440	1.099	2439.4685	2440.5674	---	---
BLE_1M	Ant1	2480	1.103	2479.4605	2480.5634	---	---
BLE_2M	Ant1	2402	2.094	2400.9570	2403.0509	---	---
BLE_2M	Ant1	2440	2.11	2438.9530	2441.0629	---	---
BLE_2M	Ant1	2480	2.05	2478.9810	2481.0310	---	---



Test Graphs





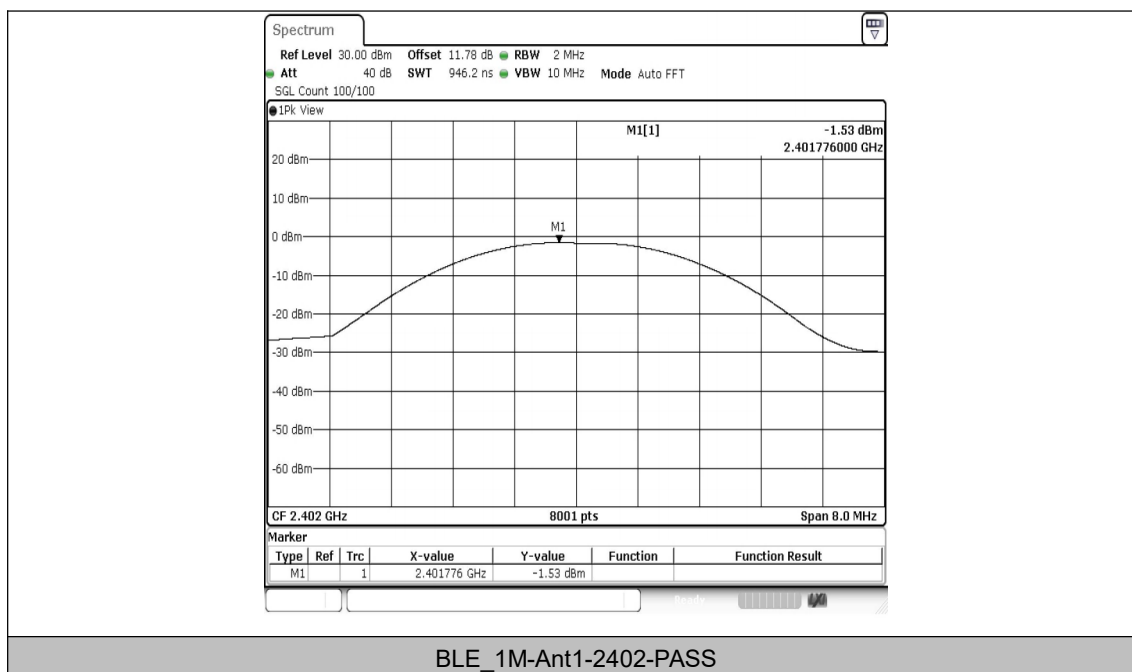


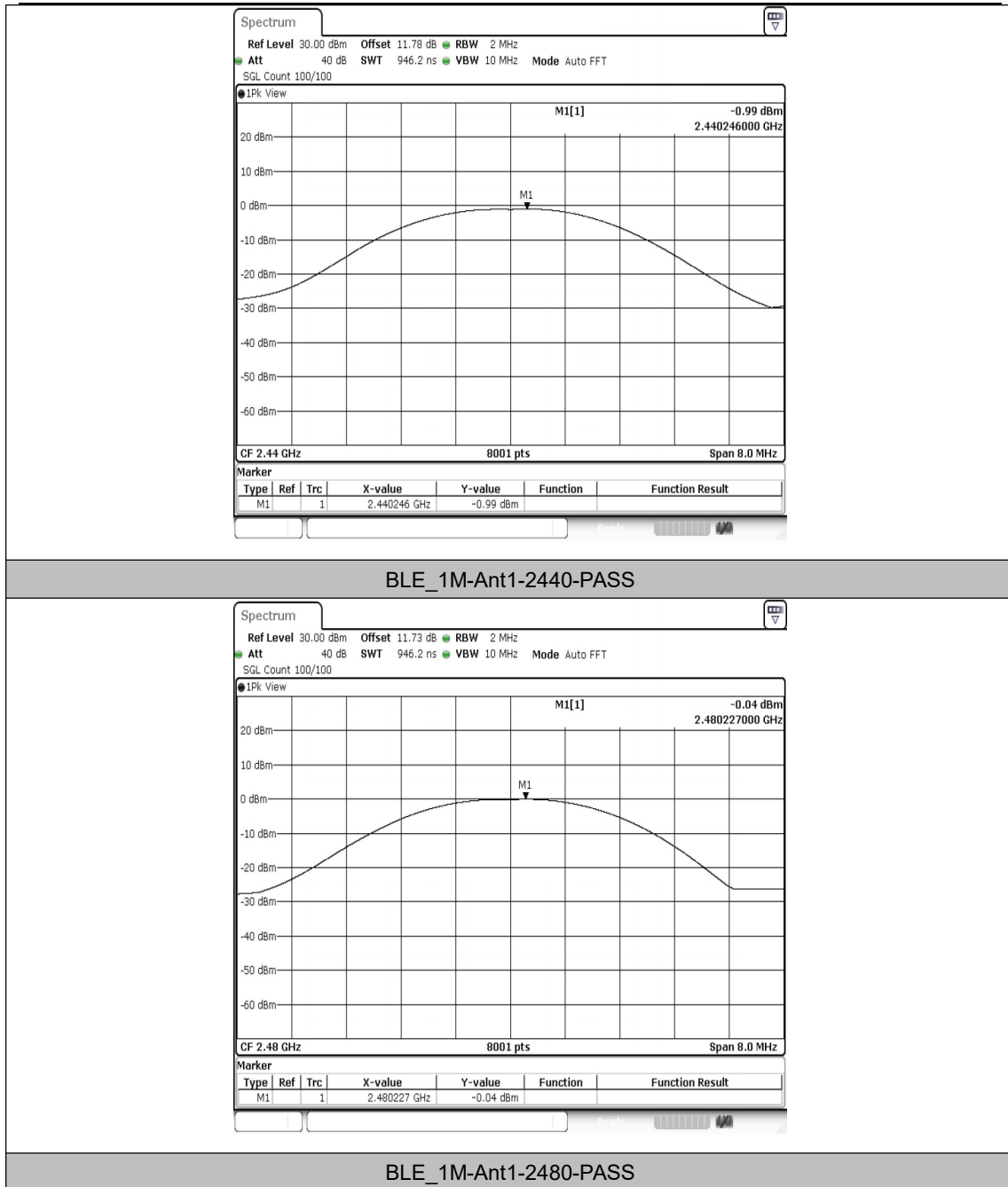
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.53	≤30	PASS
BLE_1M	Ant1	2440	-0.99	≤30	PASS
BLE_1M	Ant1	2480	-0.04	≤30	PASS
BLE_2M	Ant1	2402	-1.56	≤30	PASS
BLE_2M	Ant1	2440	-0.86	≤30	PASS
BLE_2M	Ant1	2480	0.08	≤30	PASS

Test Graphs Peak





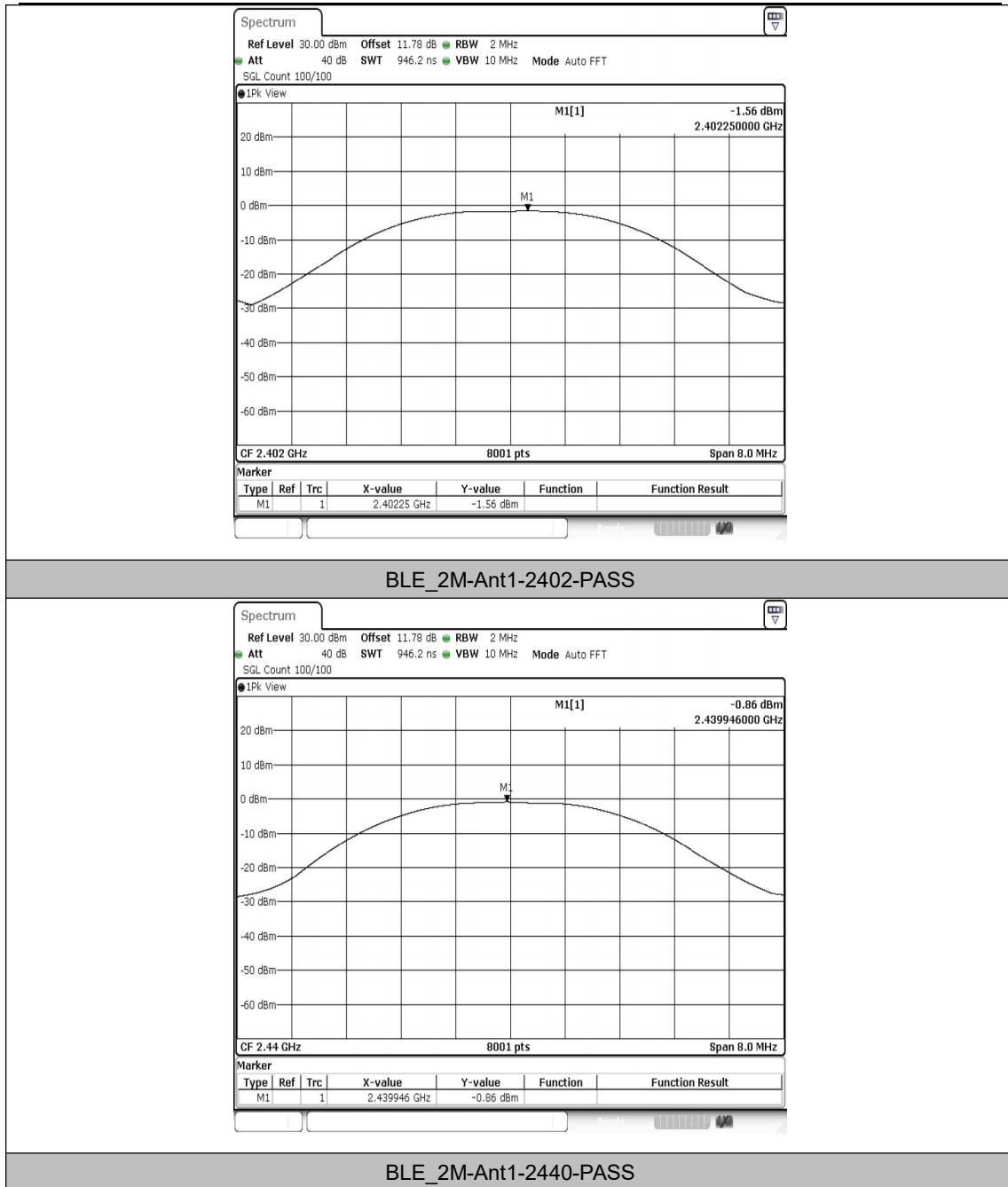
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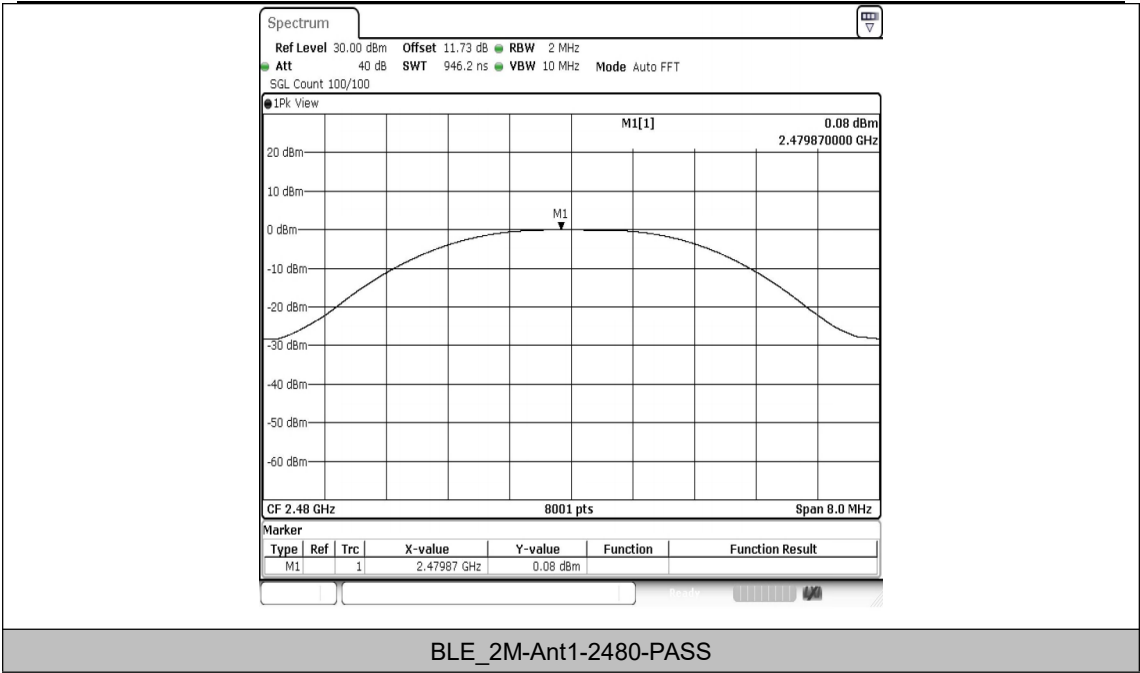


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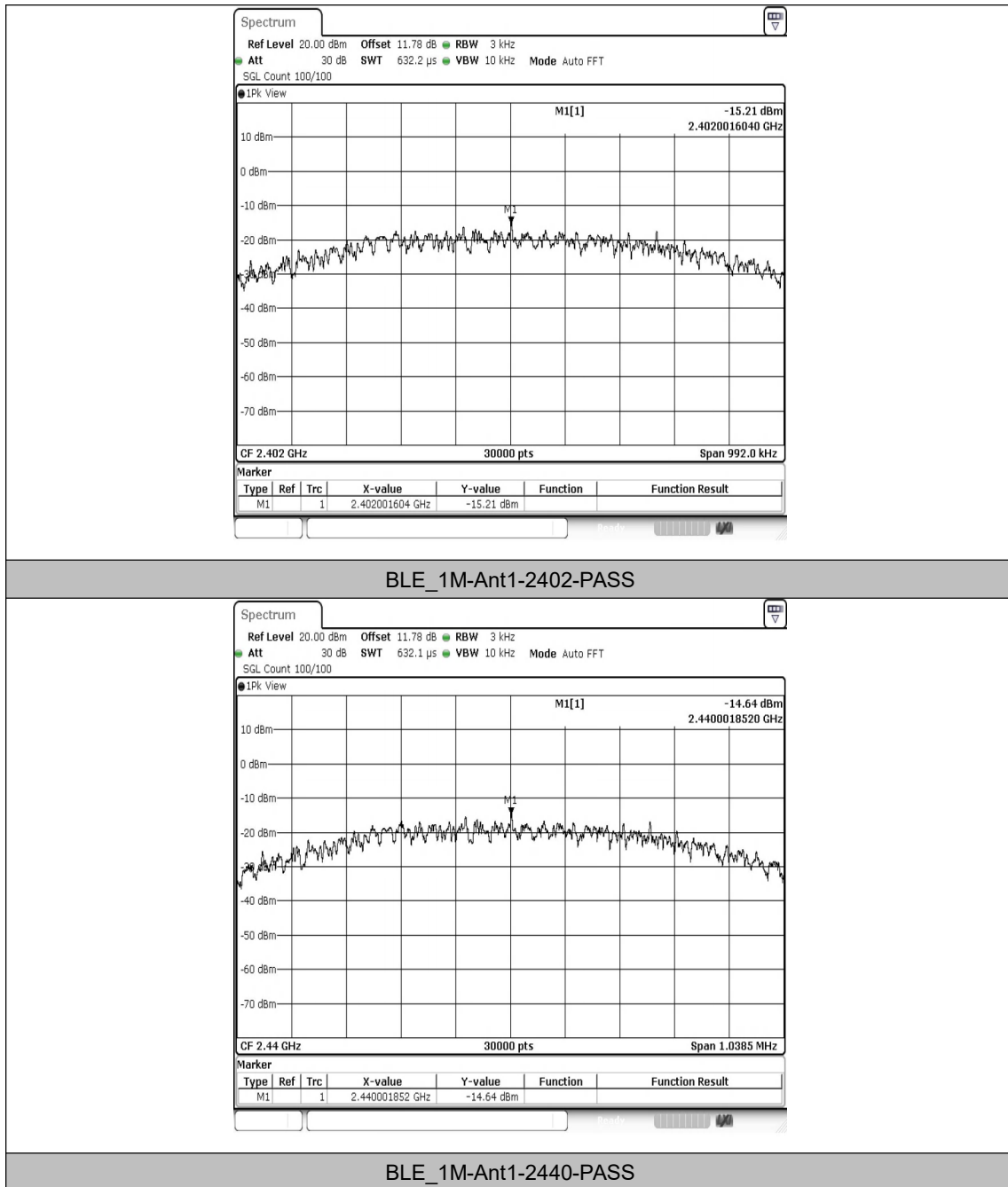
Appendix D: Maximum power spectral density

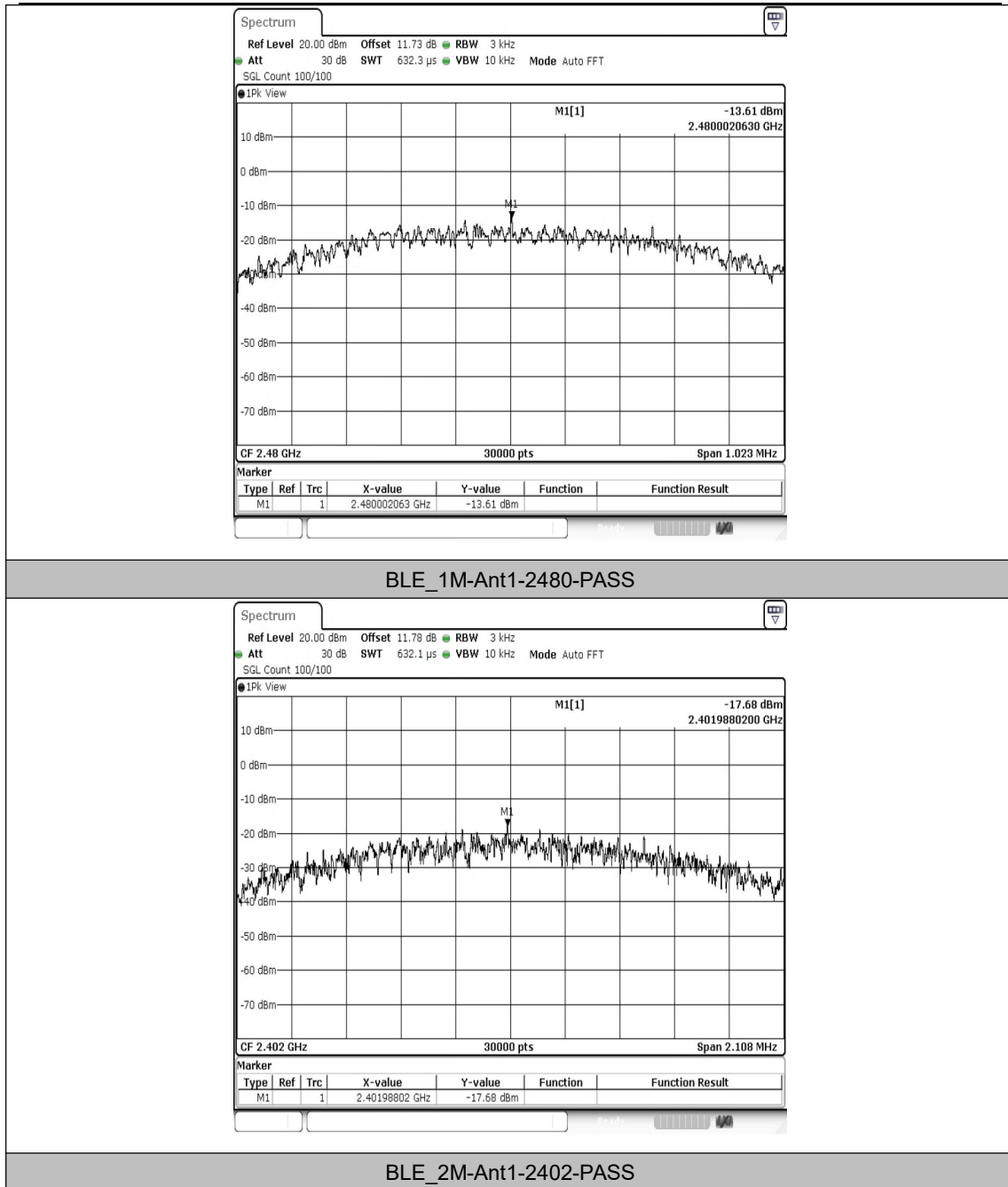
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.21	≤8.00	PASS
BLE_1M	Ant1	2440	-14.64	≤8.00	PASS
BLE_1M	Ant1	2480	-13.61	≤8.00	PASS
BLE_2M	Ant1	2402	-17.68	≤8.00	PASS
BLE_2M	Ant1	2440	-17.13	≤8.00	PASS
BLE_2M	Ant1	2480	-16.19	≤8.00	PASS



Test Graphs





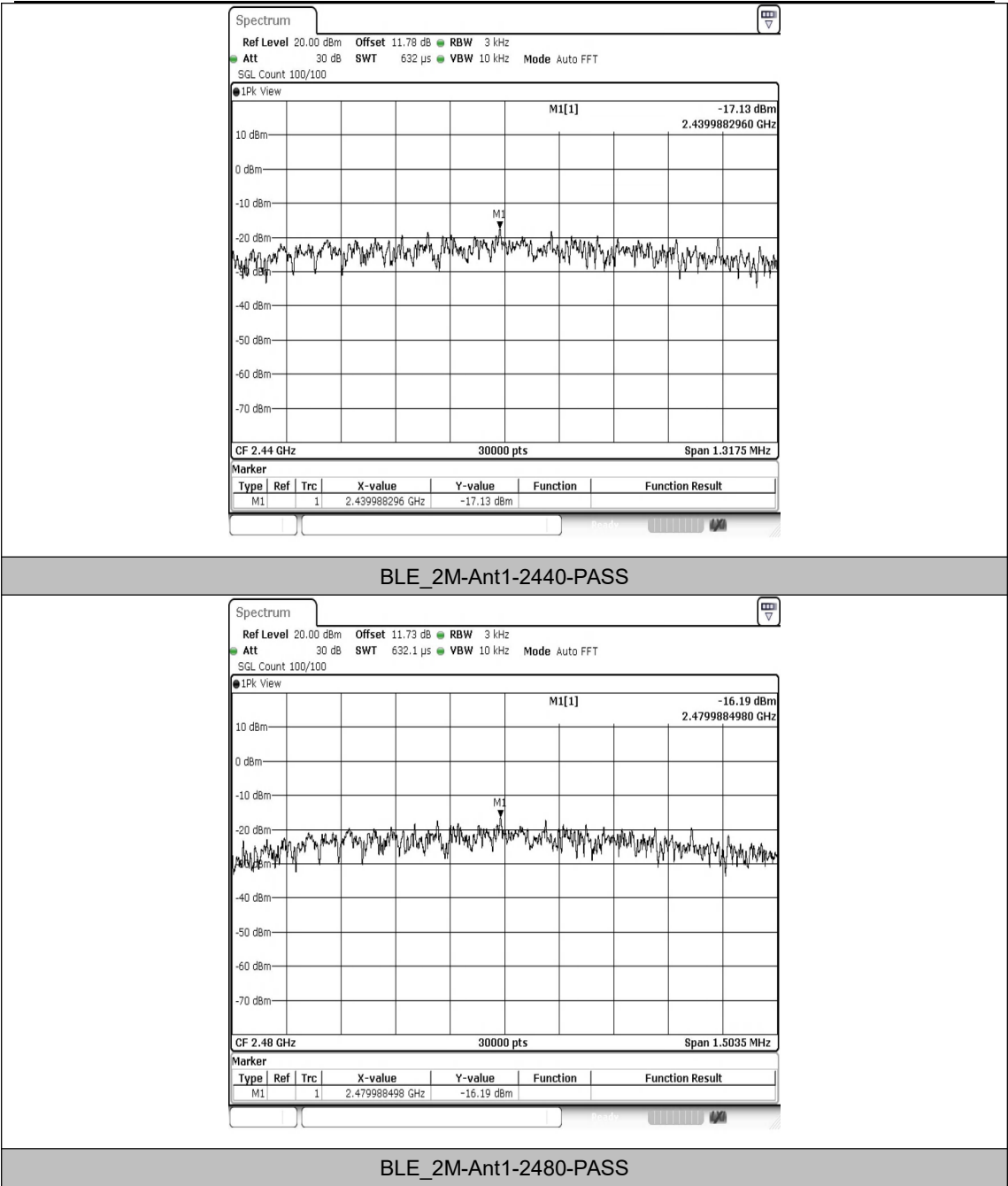
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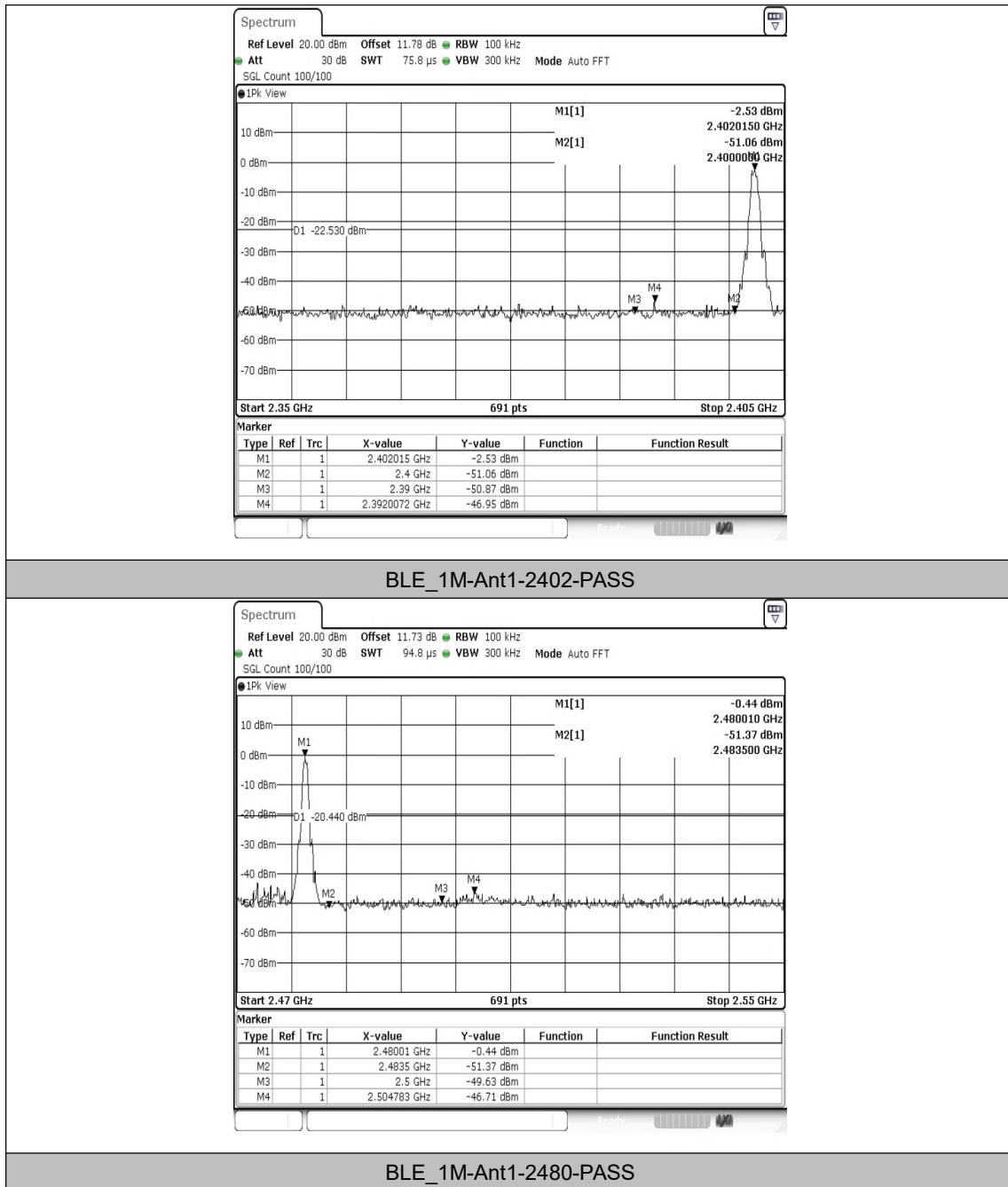
Appendix E: Band edge measurements

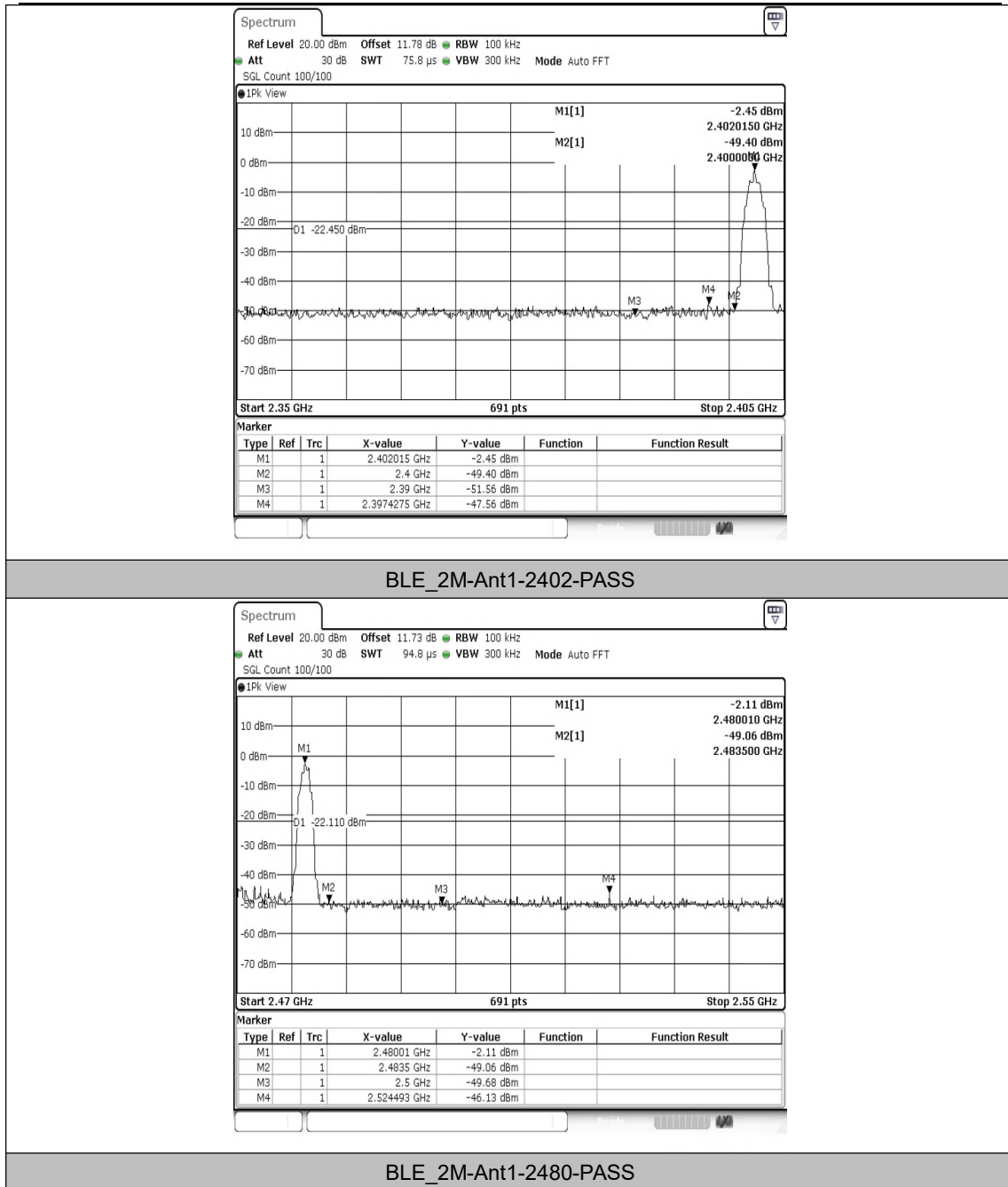
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.53	-46.95	≤-22.53	PASS
BLE_1M	Ant1	High	2480	-0.44	-46.71	≤-20.44	PASS
BLE_2M	Ant1	Low	2402	-2.45	-47.56	≤-22.45	PASS
BLE_2M	Ant1	High	2480	-2.11	-46.13	≤-22.11	PASS



Test Graphs





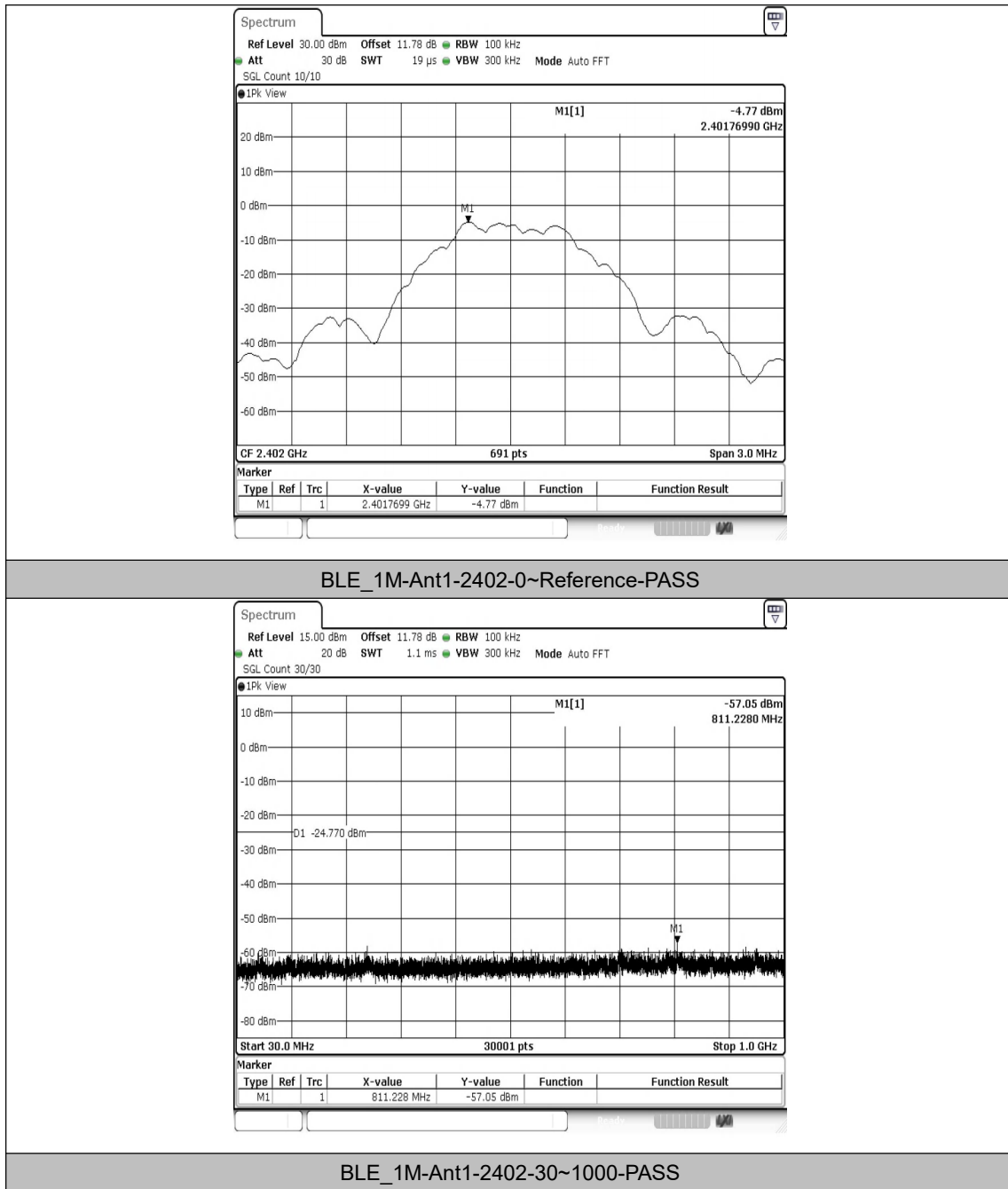
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-4.77	-4.77	---	PASS
BLE_1M	Ant1	2402	30~1000	-4.77	-57.05	≤-24.77	PASS
BLE_1M	Ant1	2402	1000~26500	-4.77	-43.84	≤-24.77	PASS
BLE_1M	Ant1	2440	0~Reference	-3.43	-3.43	---	PASS
BLE_1M	Ant1	2440	30~1000	-3.43	-57.82	≤-23.43	PASS
BLE_1M	Ant1	2440	1000~26500	-3.43	-44.08	≤-23.43	PASS
BLE_1M	Ant1	2480	0~Reference	-0.74	-0.74	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.74	-58.62	≤-20.74	PASS
BLE_1M	Ant1	2480	1000~26500	-0.74	-43.76	≤-20.74	PASS
BLE_2M	Ant1	2402	0~Reference	-6.55	-6.55	---	PASS
BLE_2M	Ant1	2402	30~1000	-6.55	-57.76	≤-26.55	PASS
BLE_2M	Ant1	2402	1000~26500	-6.55	-43.86	≤-26.55	PASS
BLE_2M	Ant1	2440	0~Reference	-4.73	-4.73	---	PASS
BLE_2M	Ant1	2440	30~1000	-4.73	-57.98	≤-24.73	PASS
BLE_2M	Ant1	2440	1000~26500	-4.73	-44.43	≤-24.73	PASS
BLE_2M	Ant1	2480	0~Reference	-0.75	-0.75	---	PASS
BLE_2M	Ant1	2480	30~1000	-0.75	-57.89	≤-20.75	PASS
BLE_2M	Ant1	2480	1000~26500	-0.75	-43.76	≤-20.75	PASS



Test Graphs



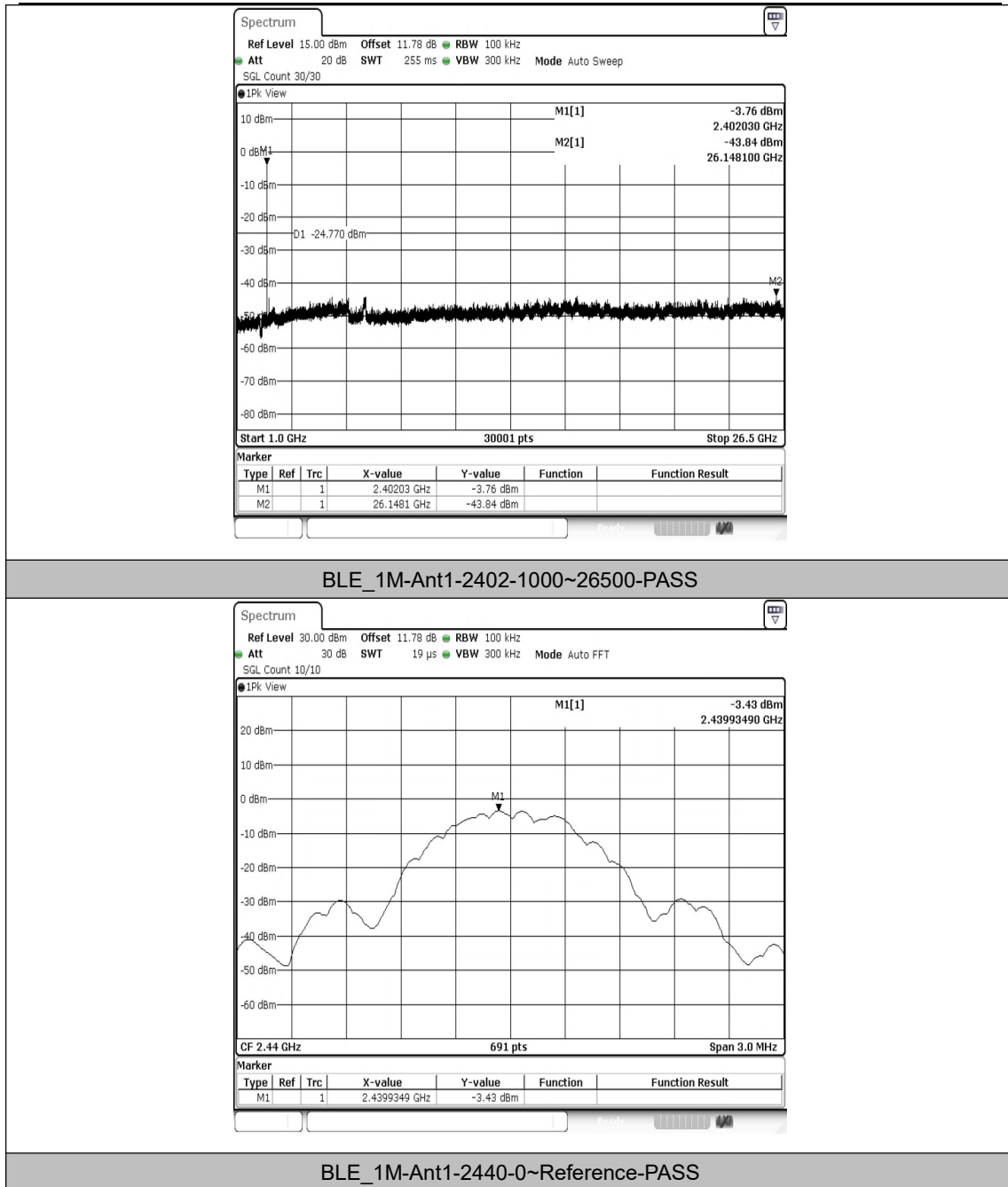
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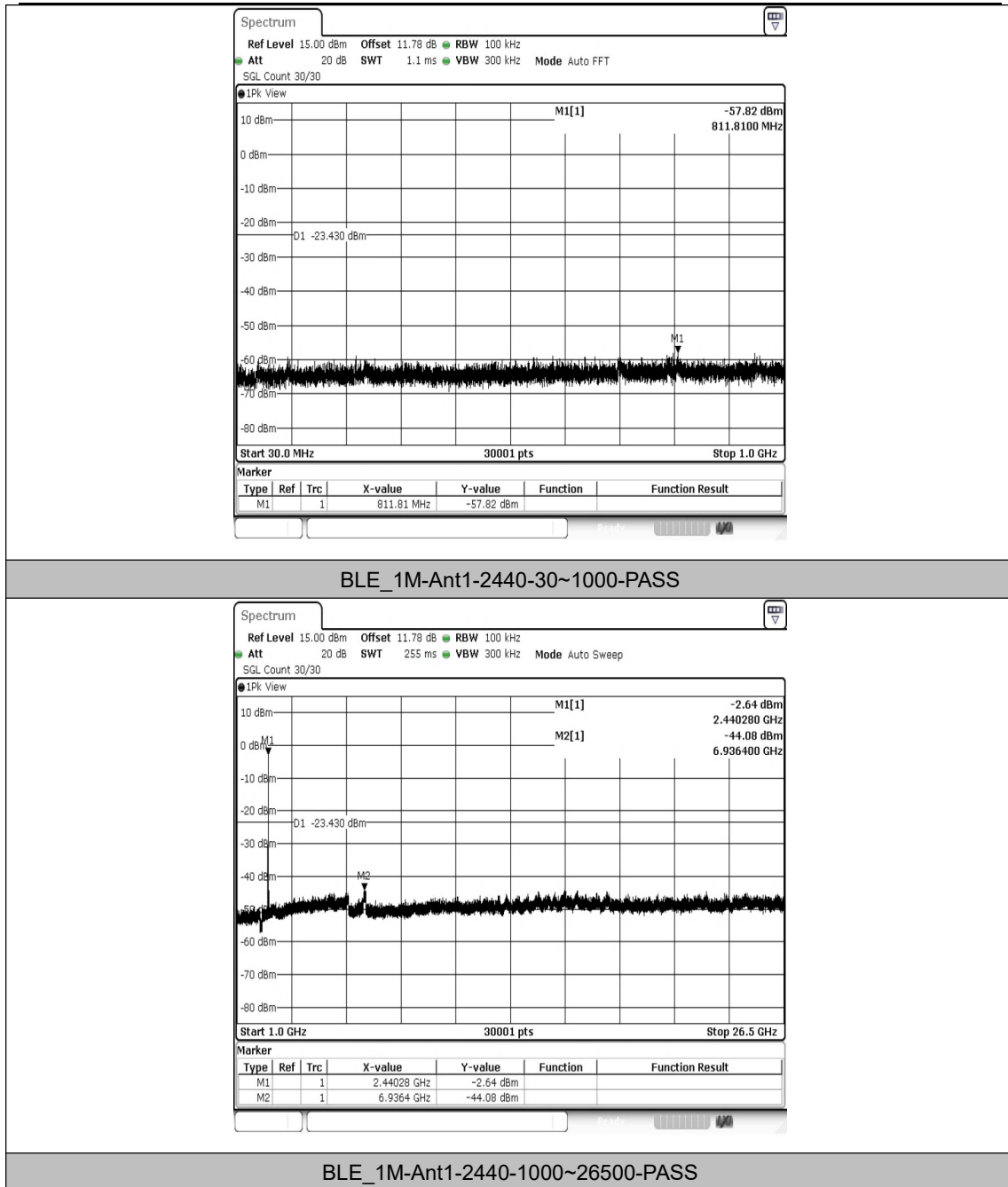
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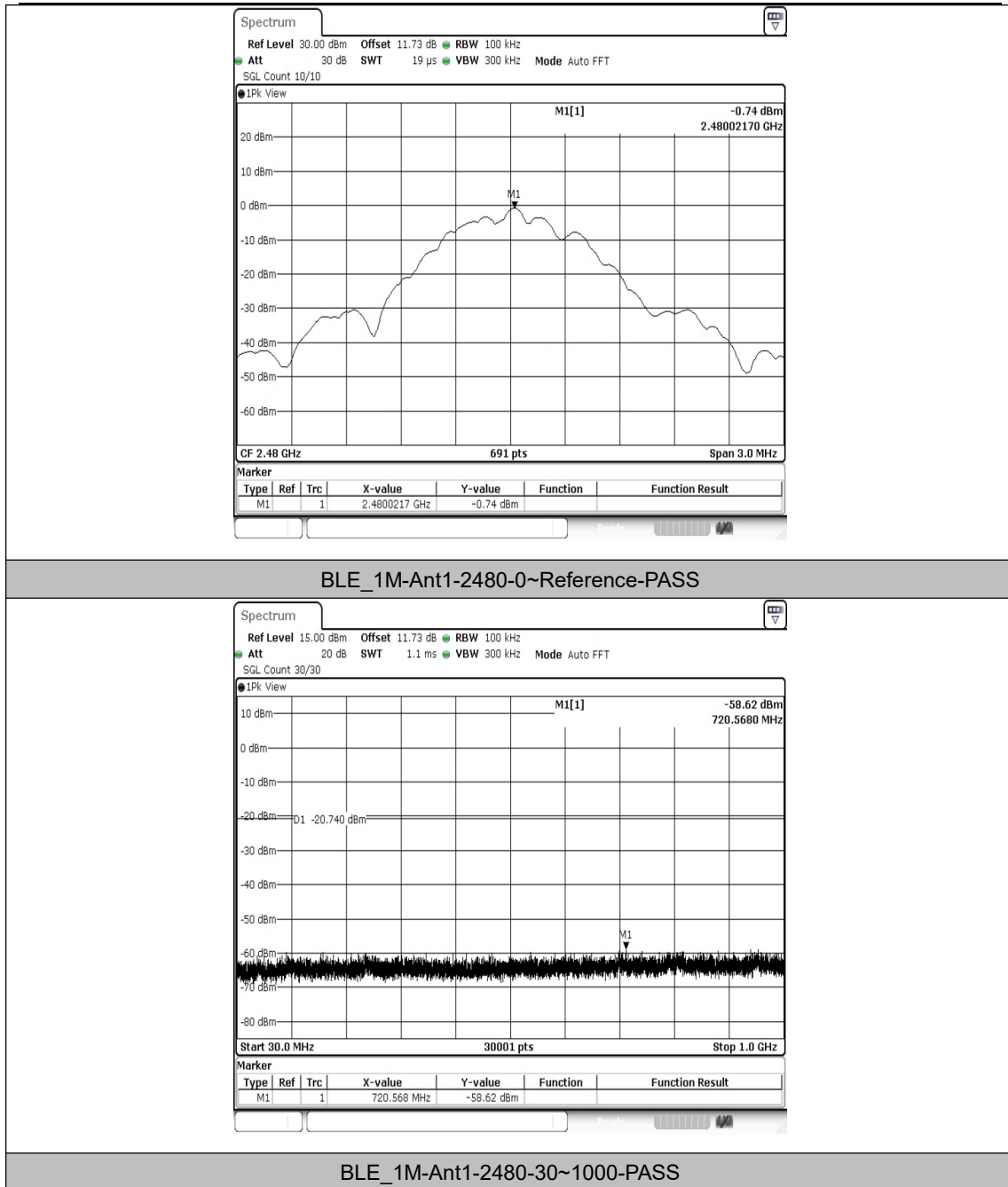


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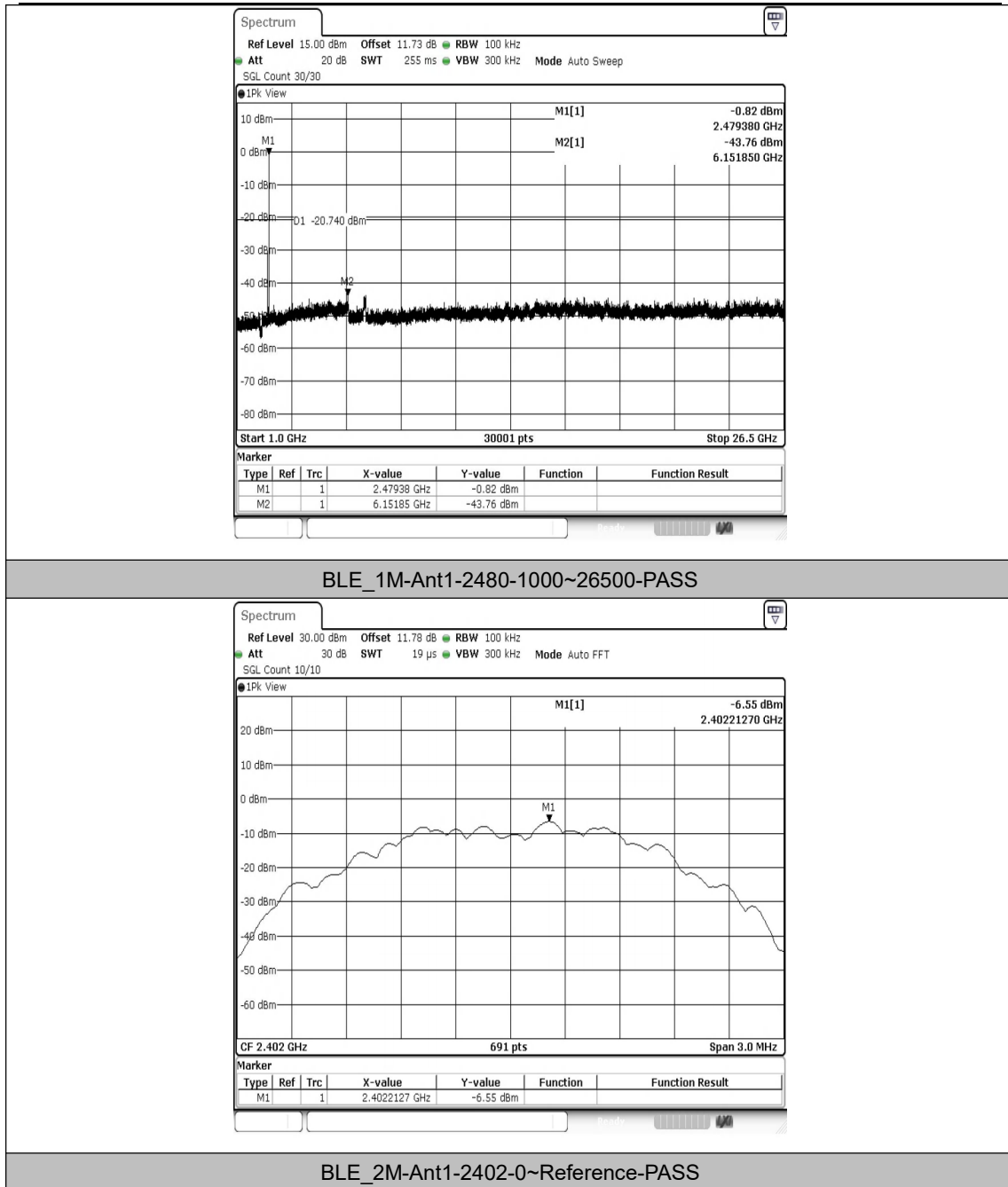
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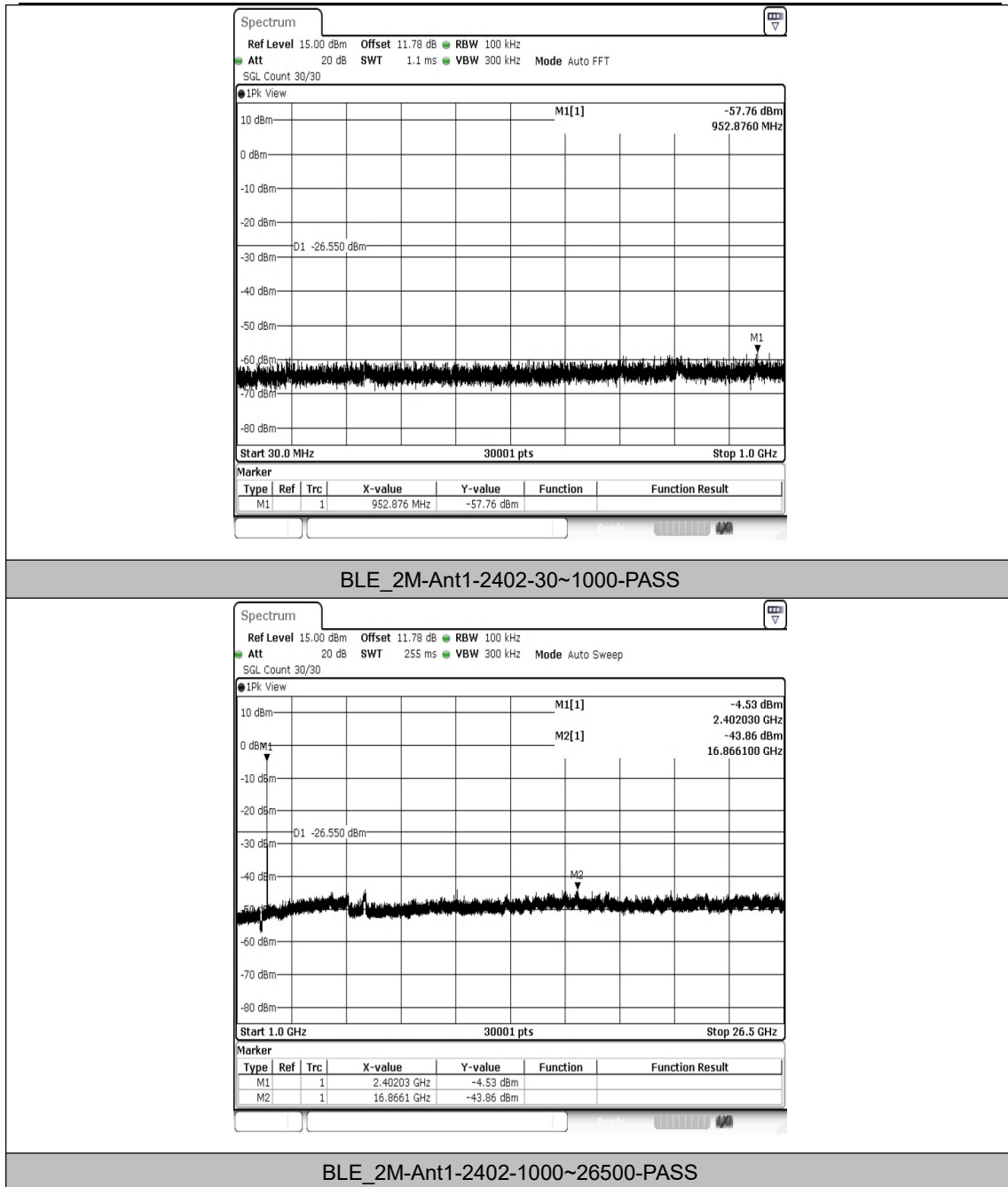
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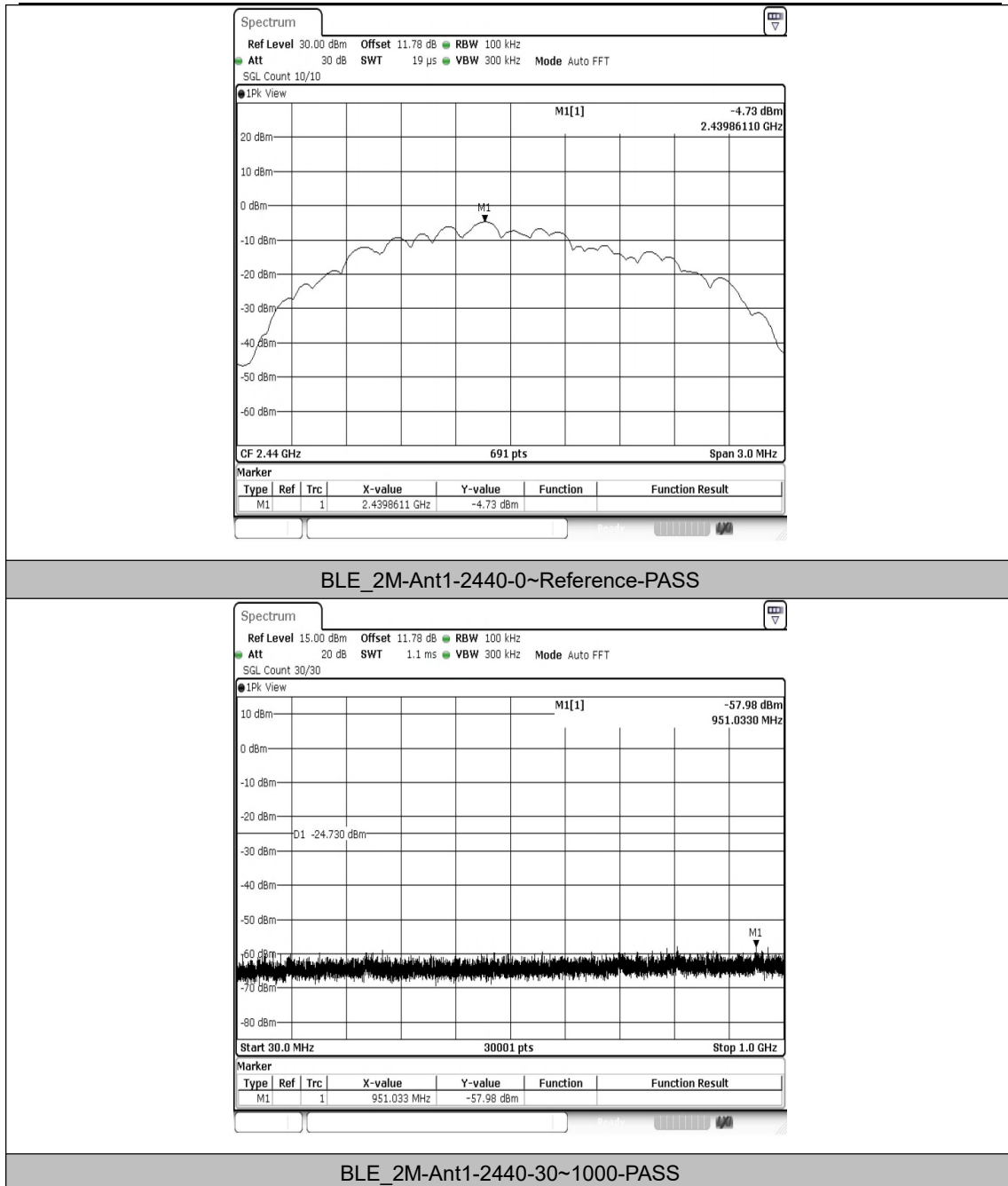
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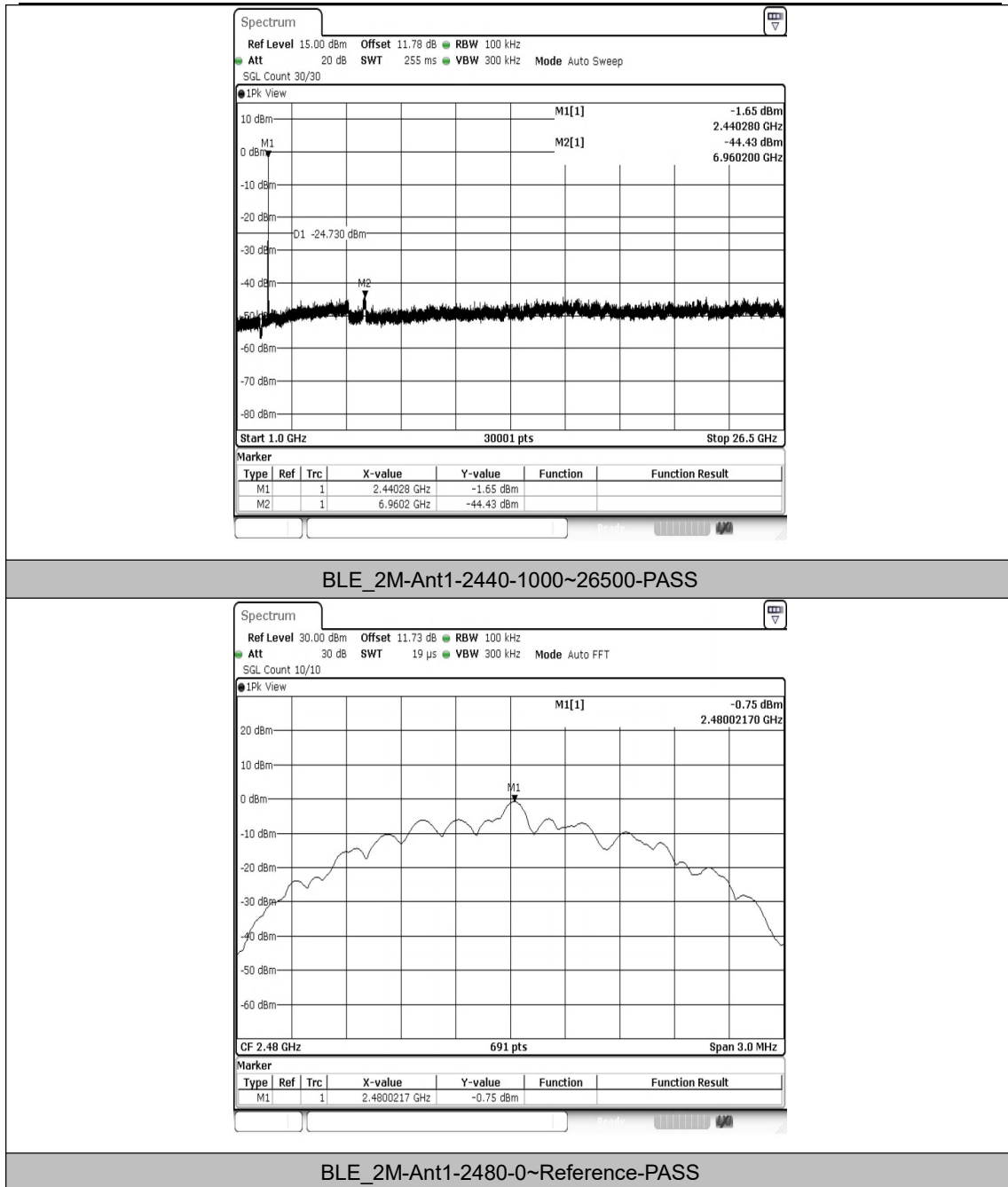


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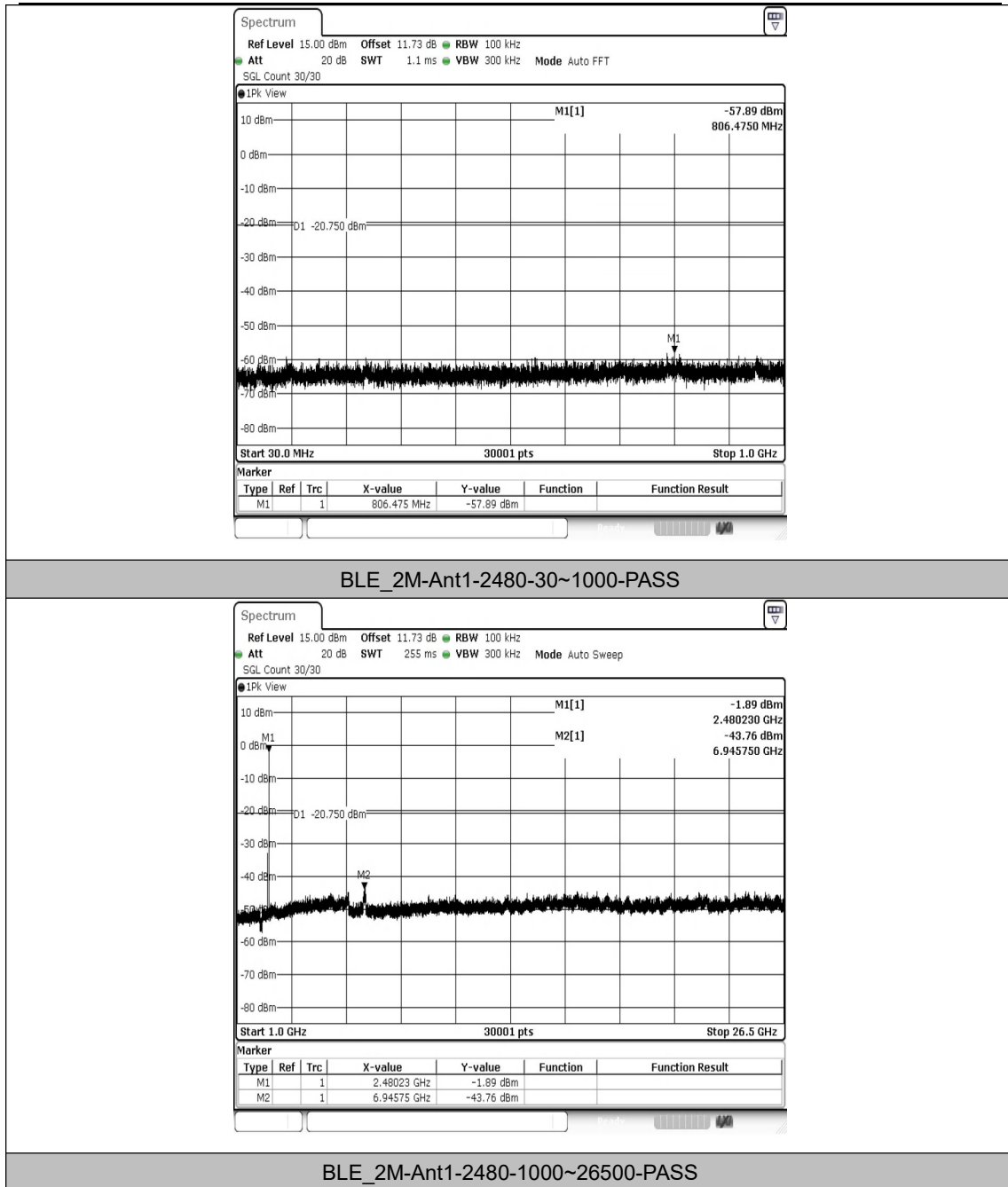
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Appendix G: Duty Cycle

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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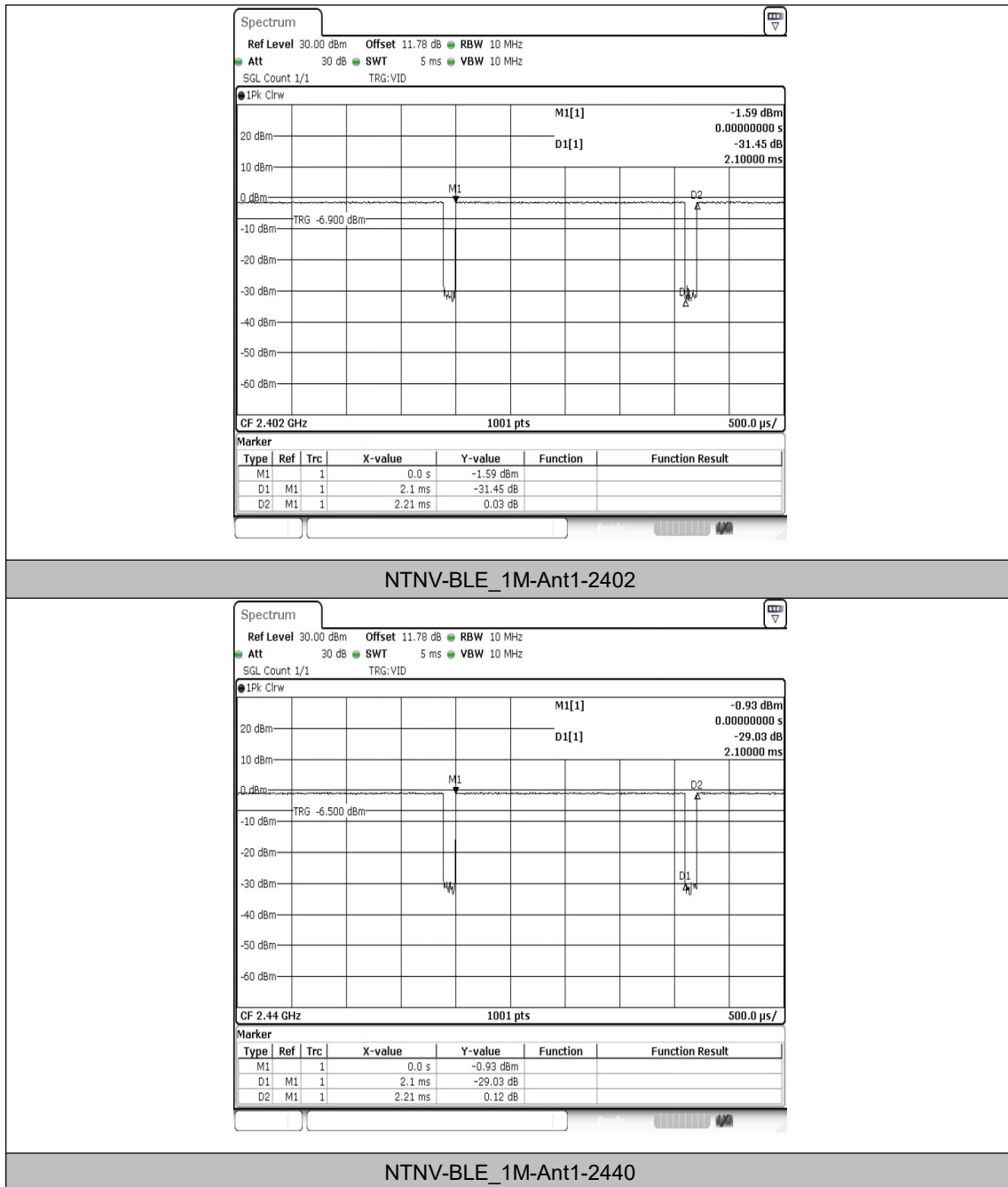
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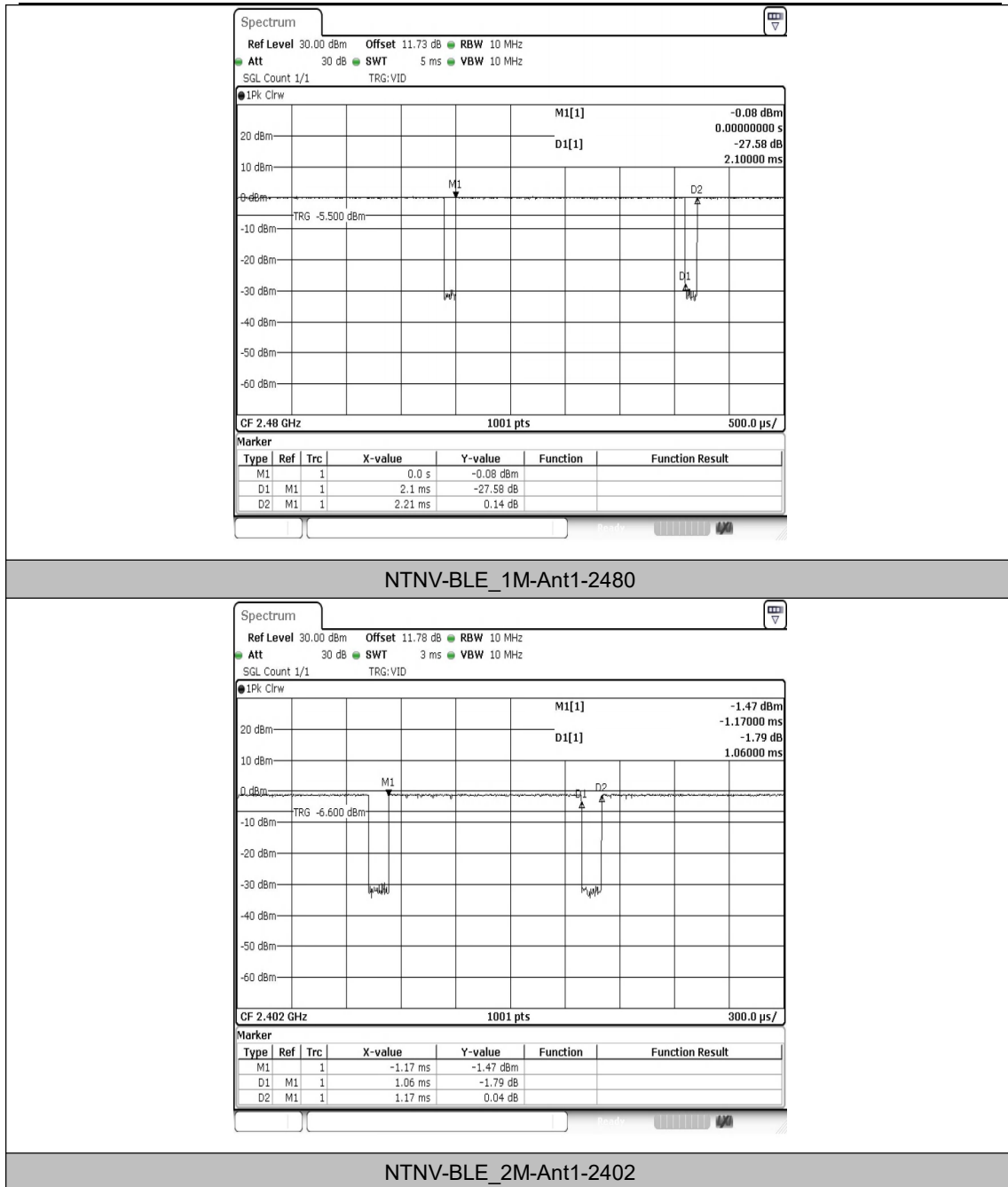


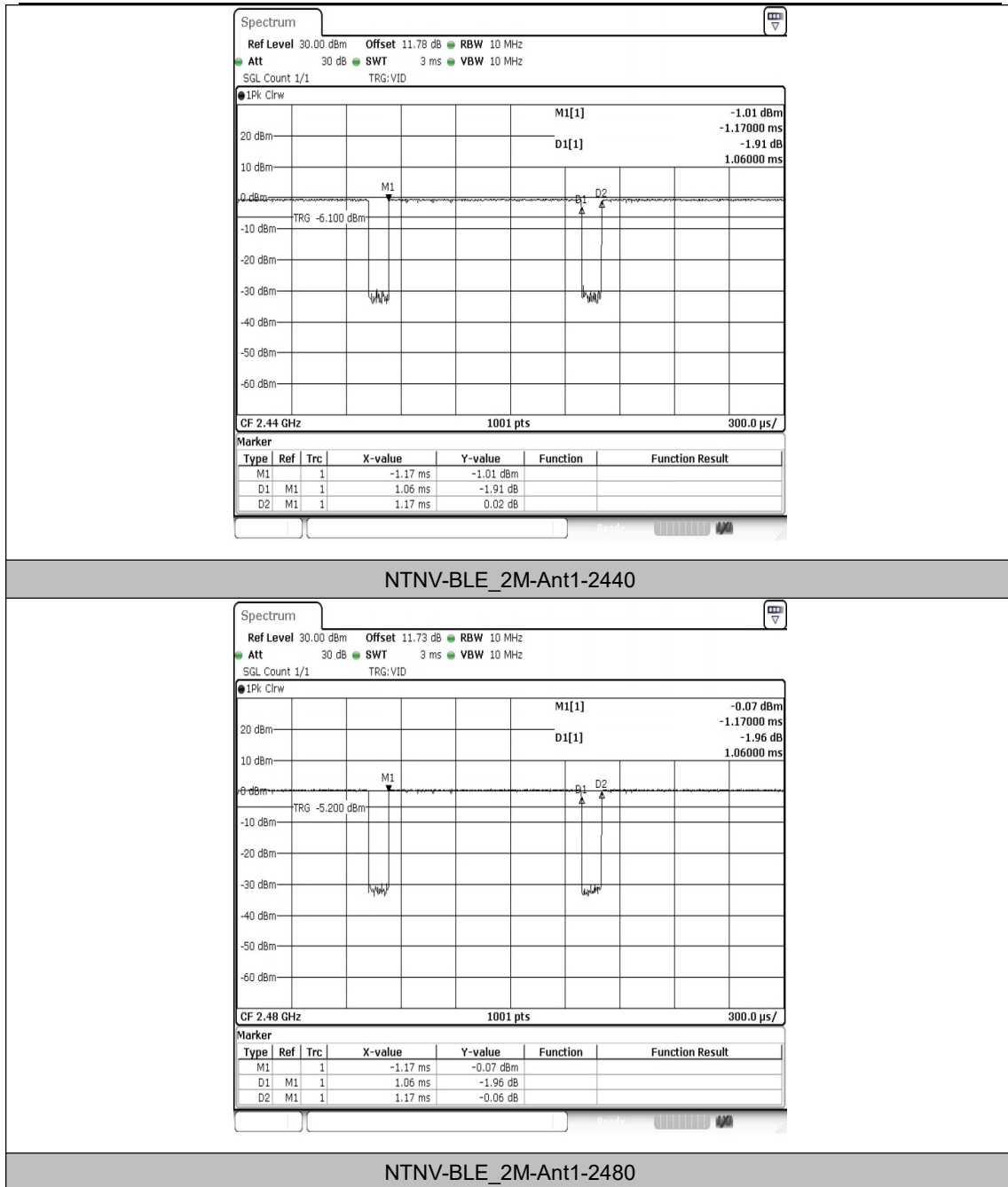
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Test Graphs







---End---

