

Appendix Test Data

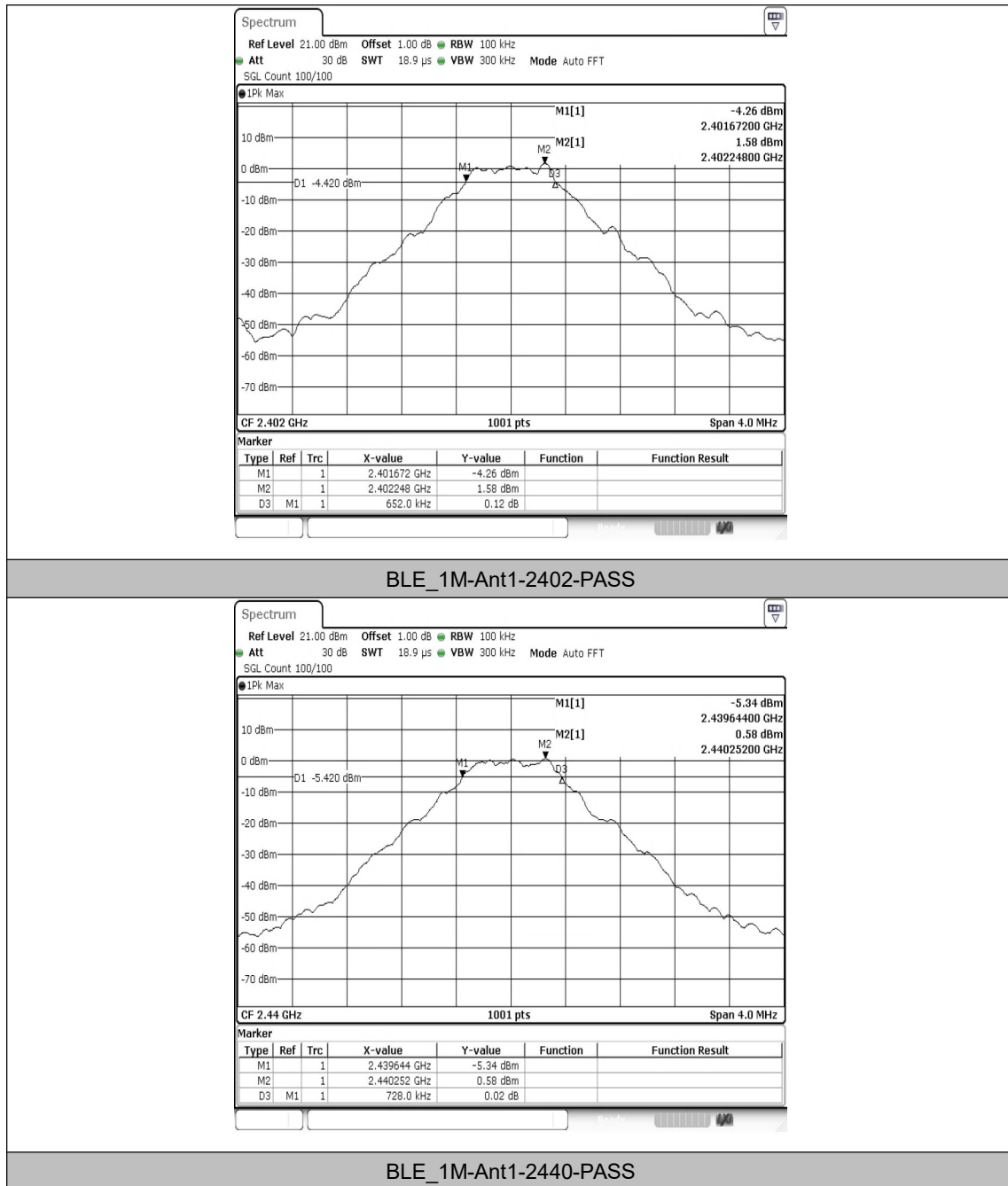
Report No.:	1812C50252412502	Test Sample No.:	1-2-2
Start Test Date:	2025-5-27	Finish Test Date:	2025-6-6
Test Engineer:	Hansen Guan	Auditor:	Justin Feng
Temperature:	25°C	Relative Humidity:	50%
Pressure:	101kPa		

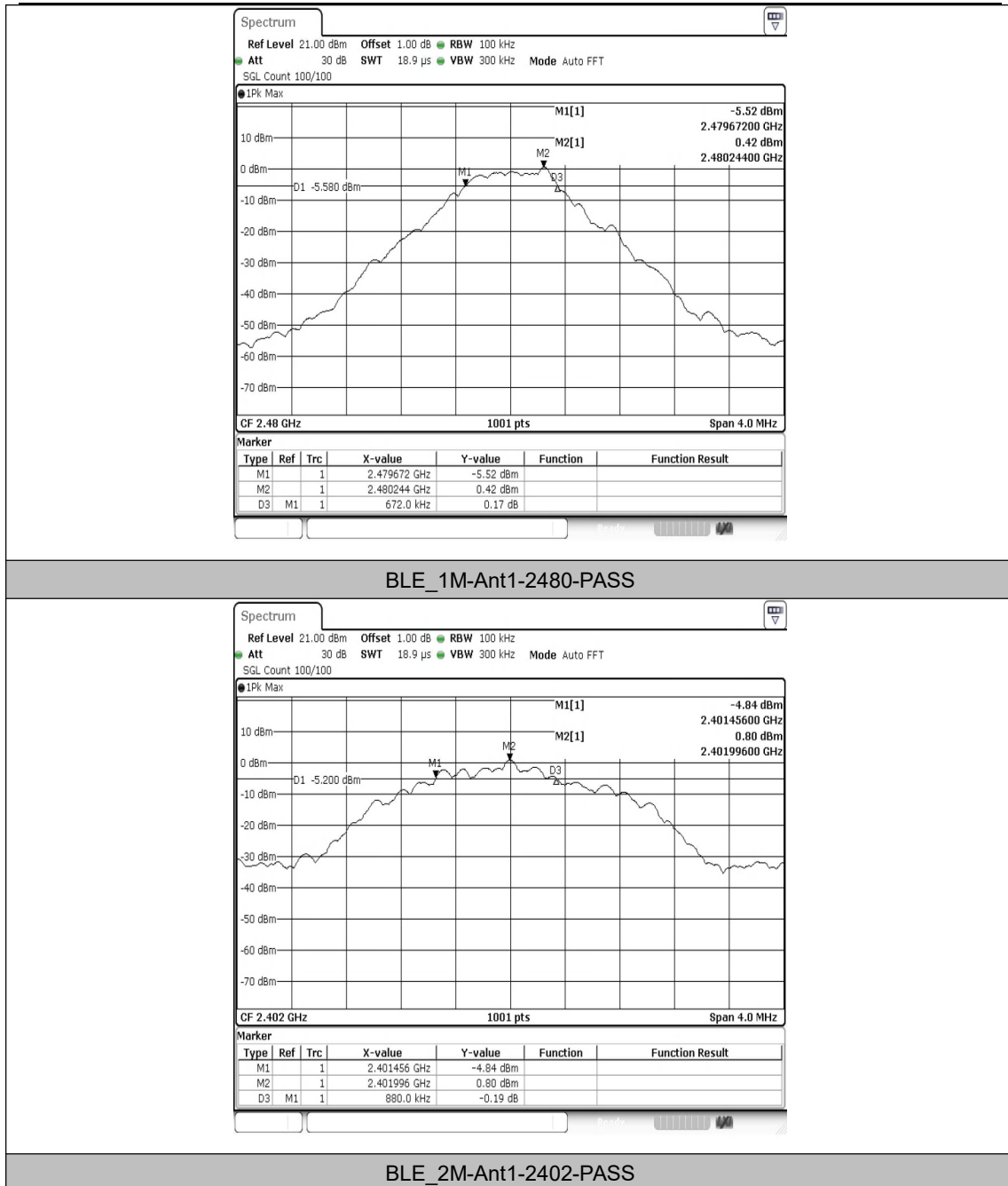
Appendix A: 6dB Bandwidth

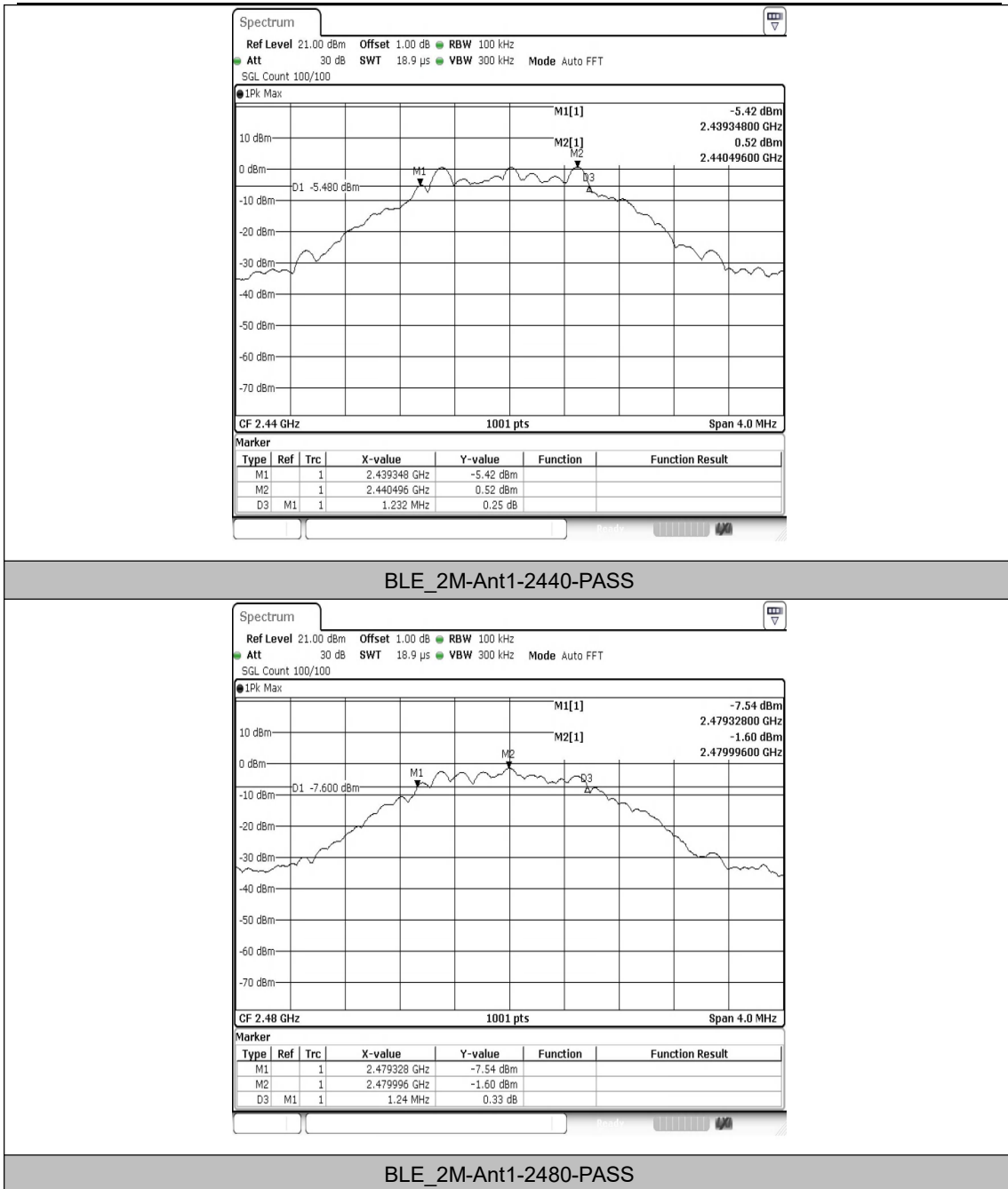
Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.65	2401.67	2402.32	0.5	PASS
BLE_1M	Ant1	2440	0.73	2439.64	2440.37	0.5	PASS
BLE_1M	Ant1	2480	0.67	2479.67	2480.34	0.5	PASS
BLE_2M	Ant1	2402	0.88	2401.46	2402.34	0.5	PASS
BLE_2M	Ant1	2440	1.23	2439.35	2440.58	0.5	PASS
BLE_2M	Ant1	2480	1.24	2479.33	2480.57	0.5	PASS

Test Graphs





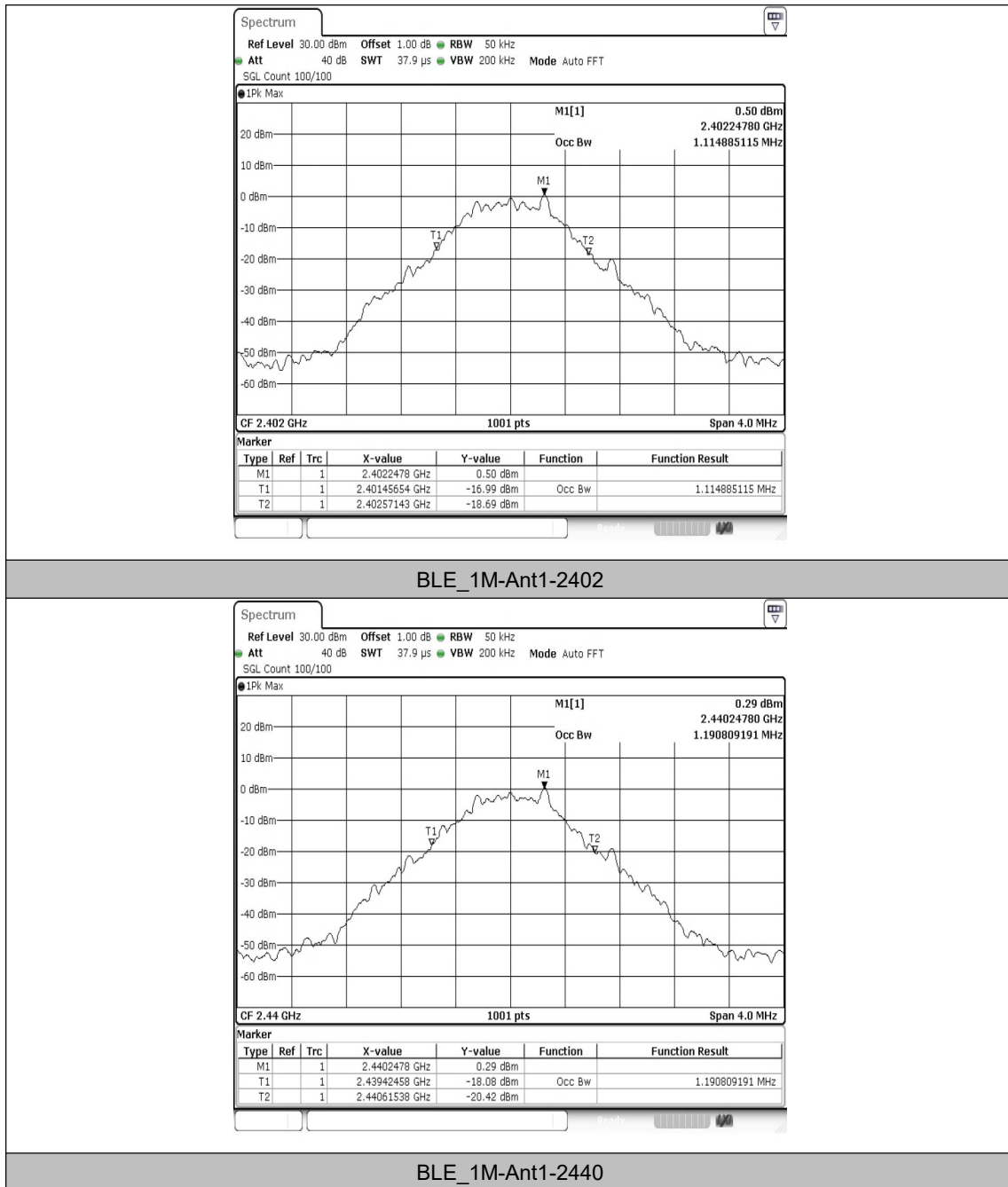


Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1149	2401.4565	2402.5714	---	---
BLE_1M	Ant1	2440	1.1908	2439.4246	2440.6154	---	---
BLE_1M	Ant1	2480	1.2188	2479.4086	2480.6274	---	---
BLE_2M	Ant1	2402	2.0579	2400.9970	2403.0549	---	---
BLE_2M	Ant1	2440	2.0939	2438.9690	2441.0629	---	---
BLE_2M	Ant1	2480	2.0979	2478.9690	2481.0669	---	---

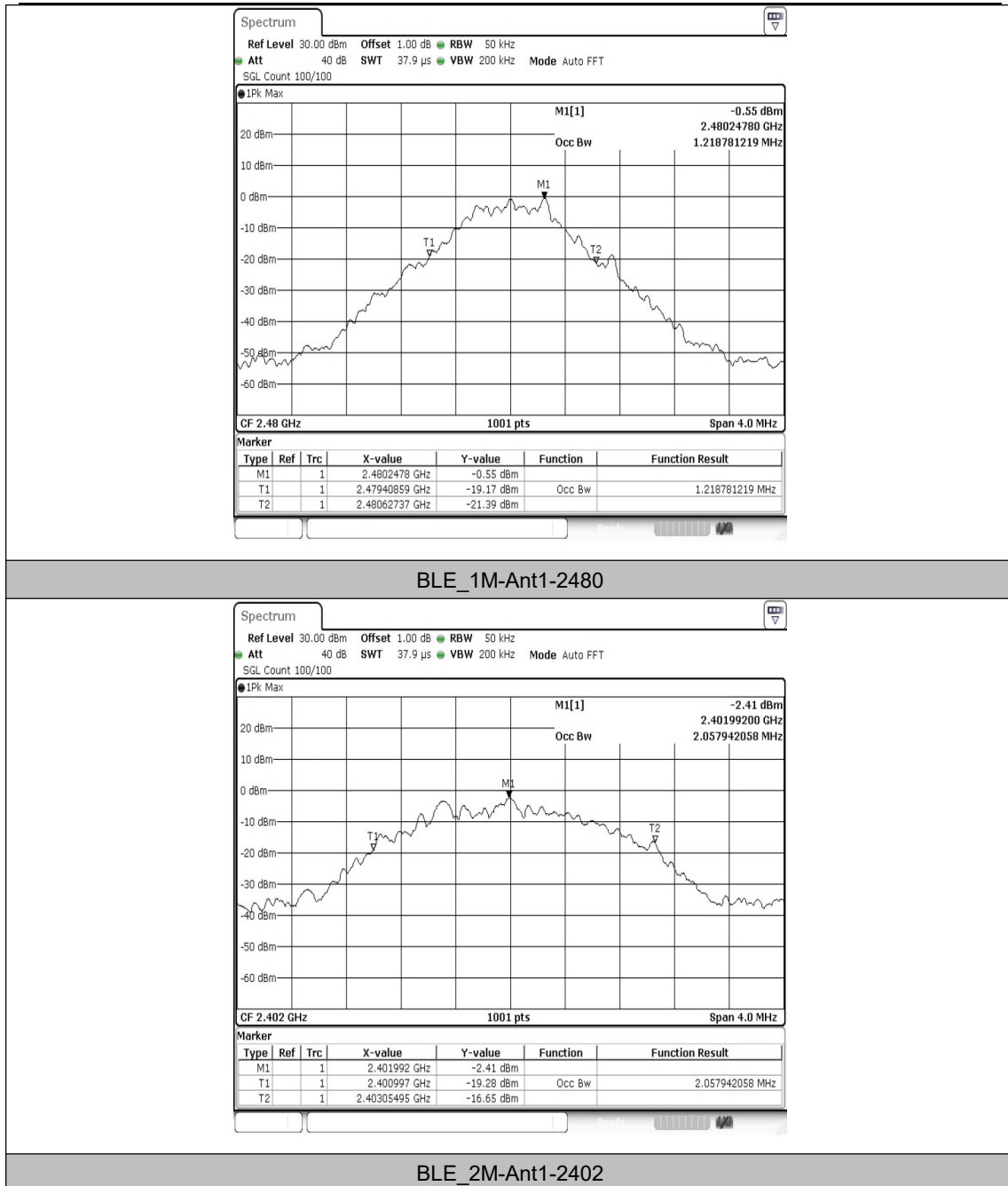
Test Graphs

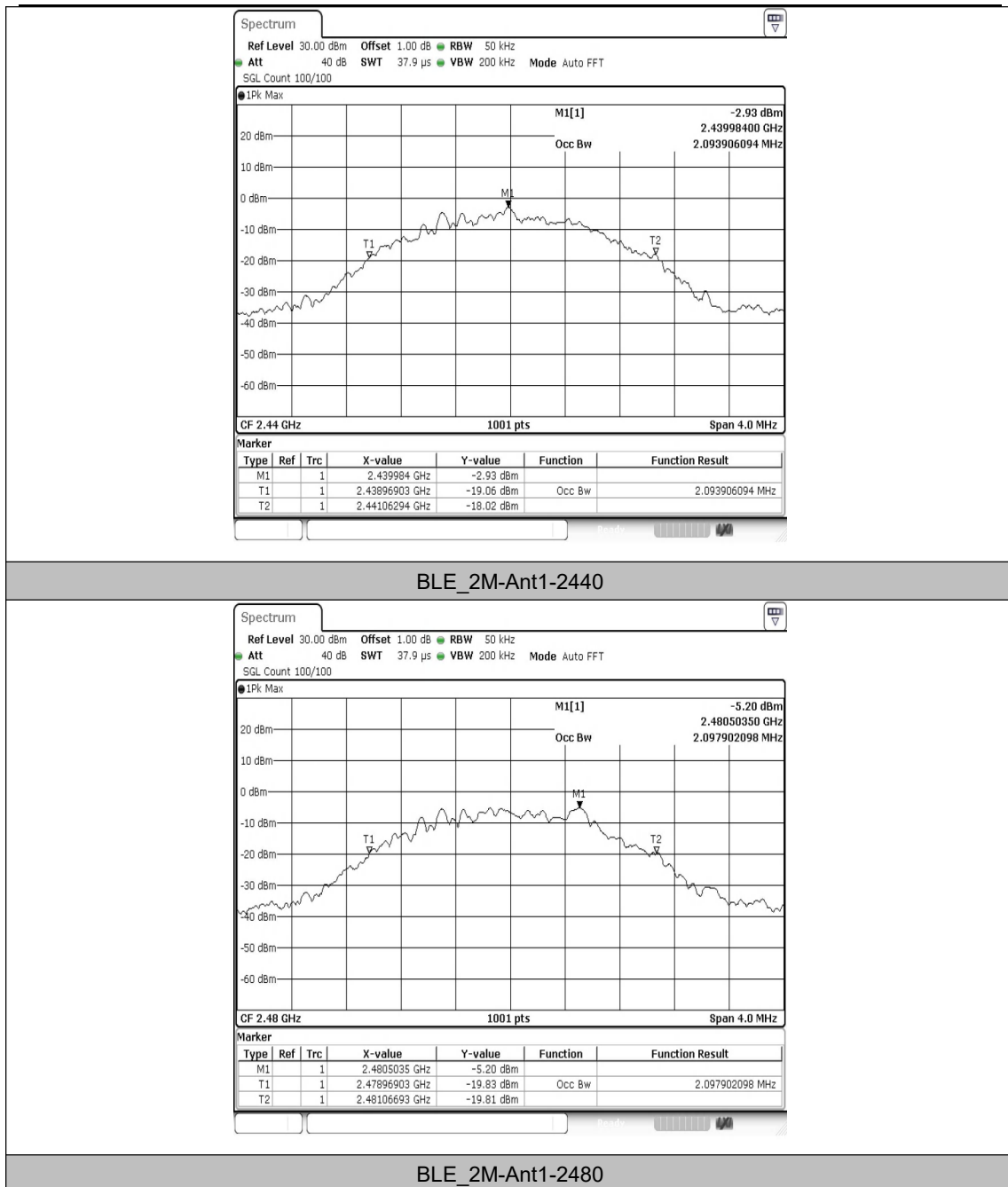


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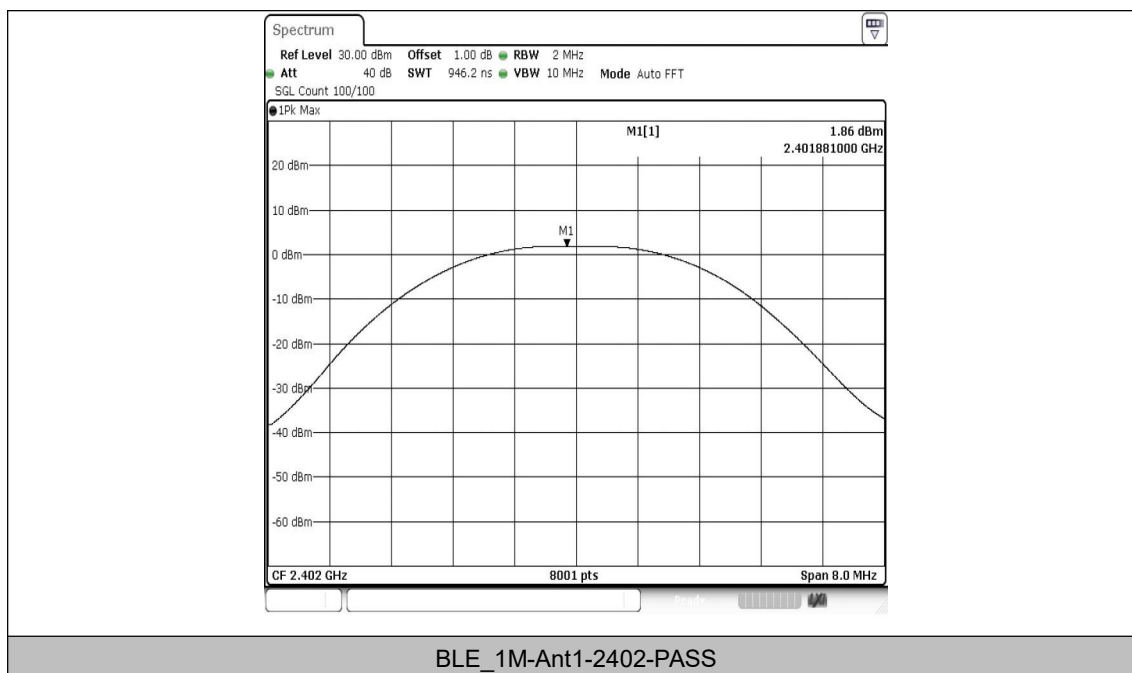


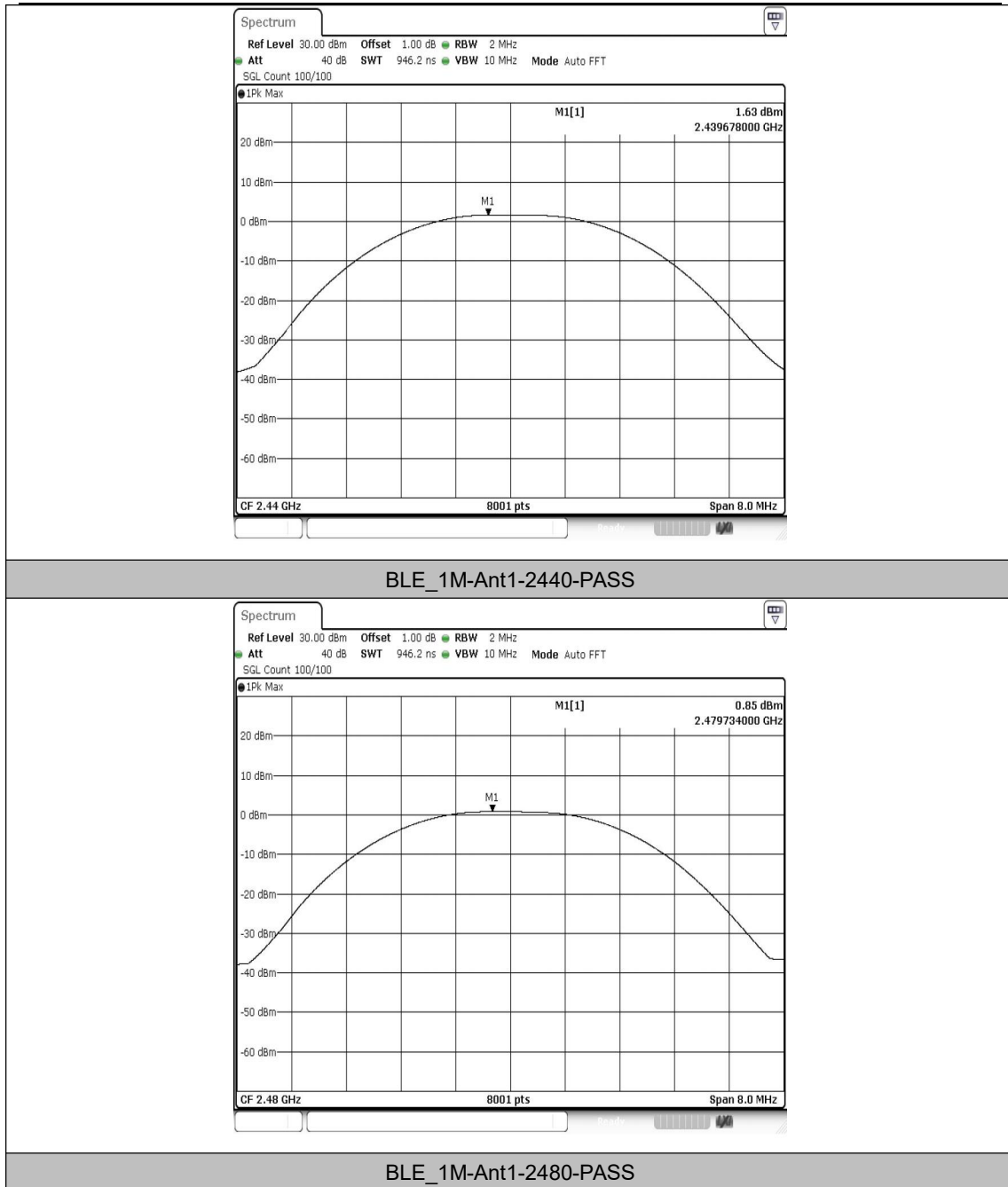
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.86	≤30	PASS
BLE_1M	Ant1	2440	1.63	≤30	PASS
BLE_1M	Ant1	2480	0.85	≤30	PASS
BLE_2M	Ant1	2402	1.88	≤30	PASS
BLE_2M	Ant1	2440	1.62	≤30	PASS
BLE_2M	Ant1	2480	0.84	≤30	PASS

Test Graphs Peak





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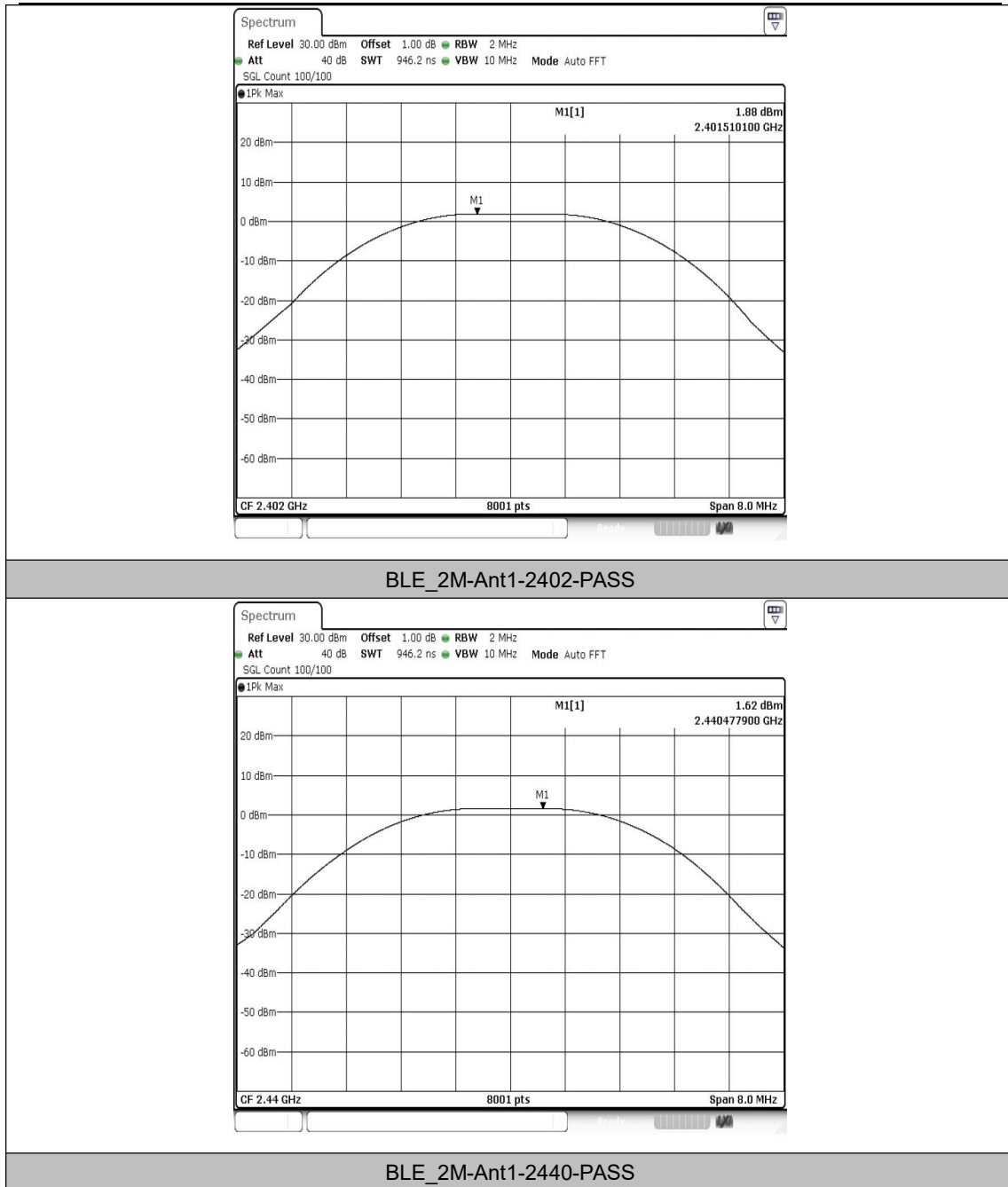
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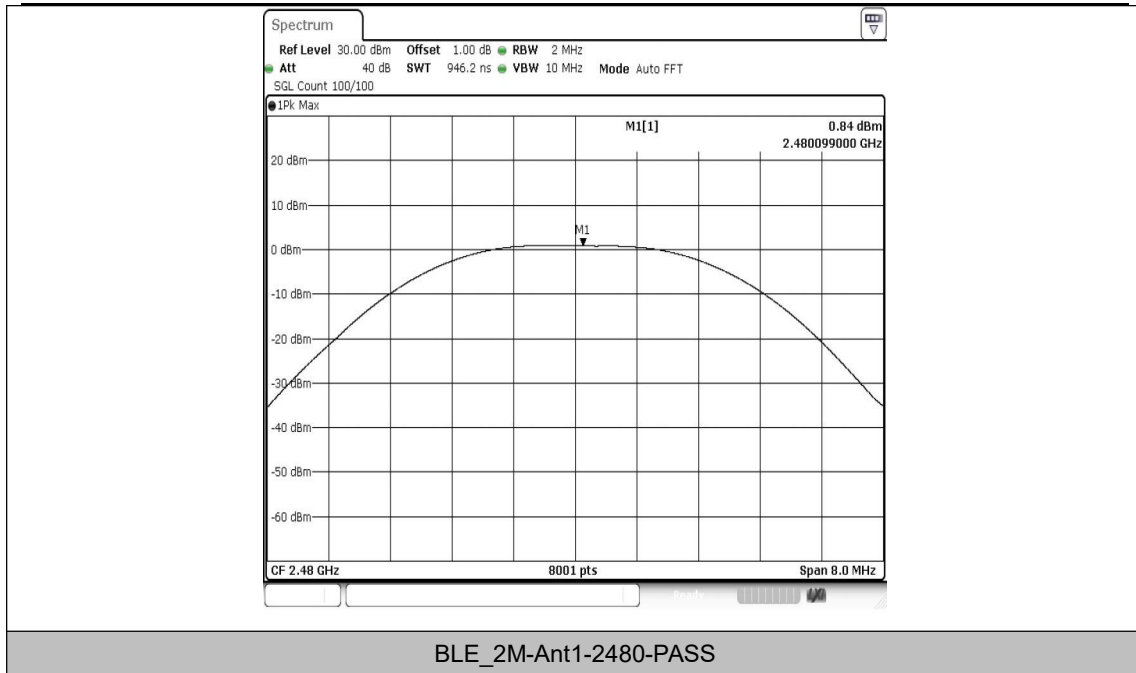
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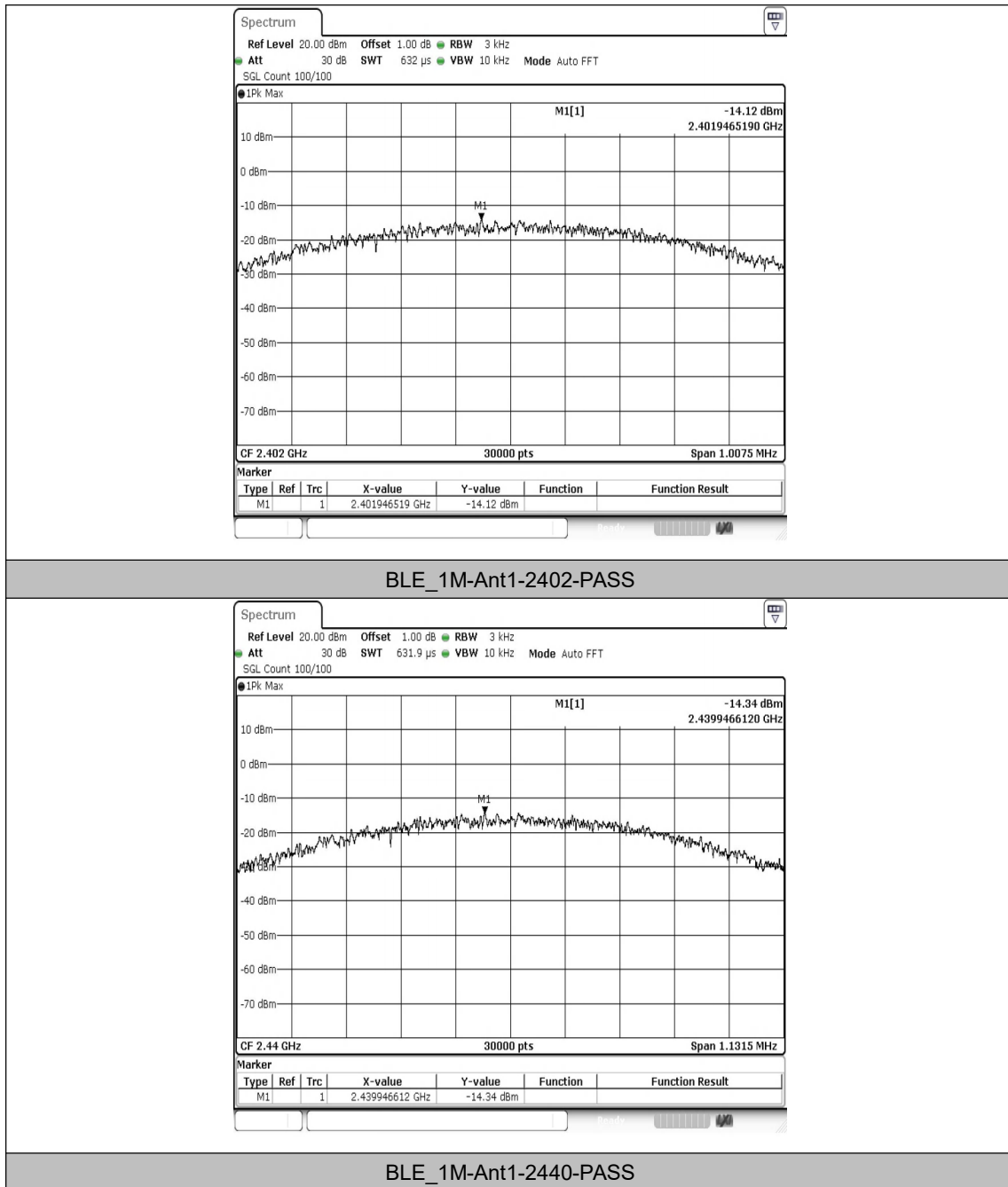
Appendix D: Maximum power spectral density

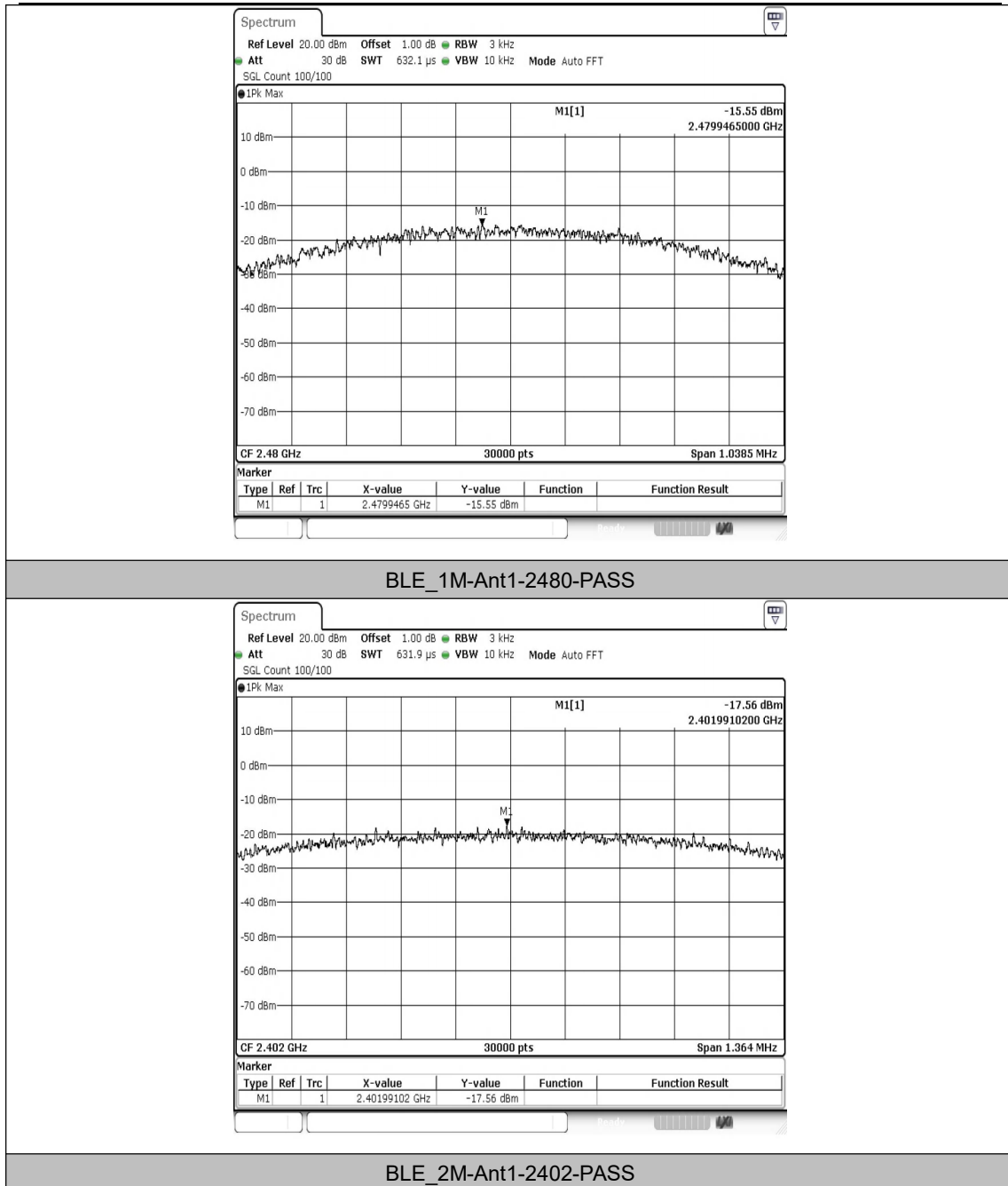
Test Result

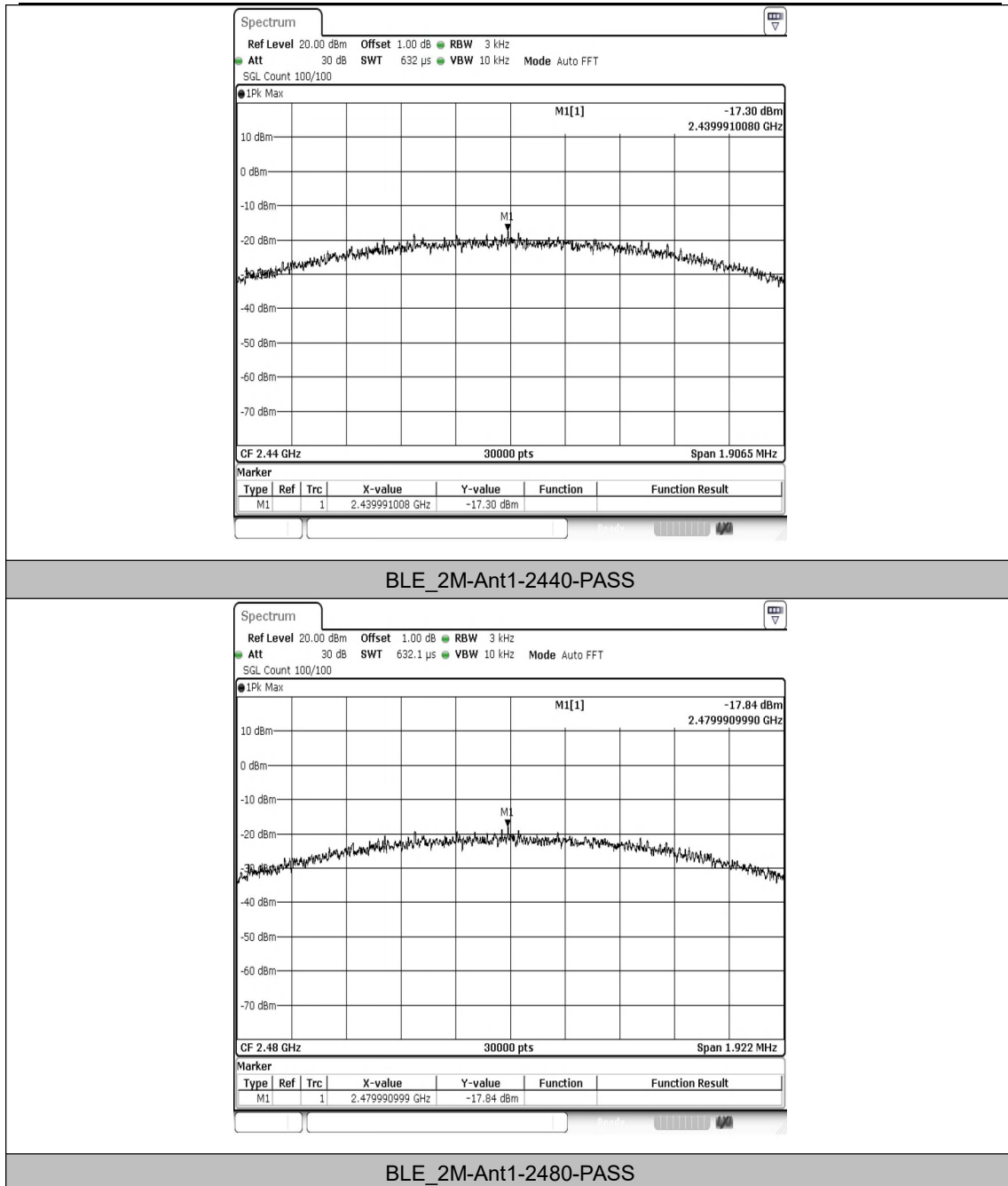
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.12	≤8.00	PASS
BLE_1M	Ant1	2440	-14.34	≤8.00	PASS
BLE_1M	Ant1	2480	-15.55	≤8.00	PASS
BLE_2M	Ant1	2402	-17.56	≤8.00	PASS
BLE_2M	Ant1	2440	-17.30	≤8.00	PASS
BLE_2M	Ant1	2480	-17.84	≤8.00	PASS



Test Graphs







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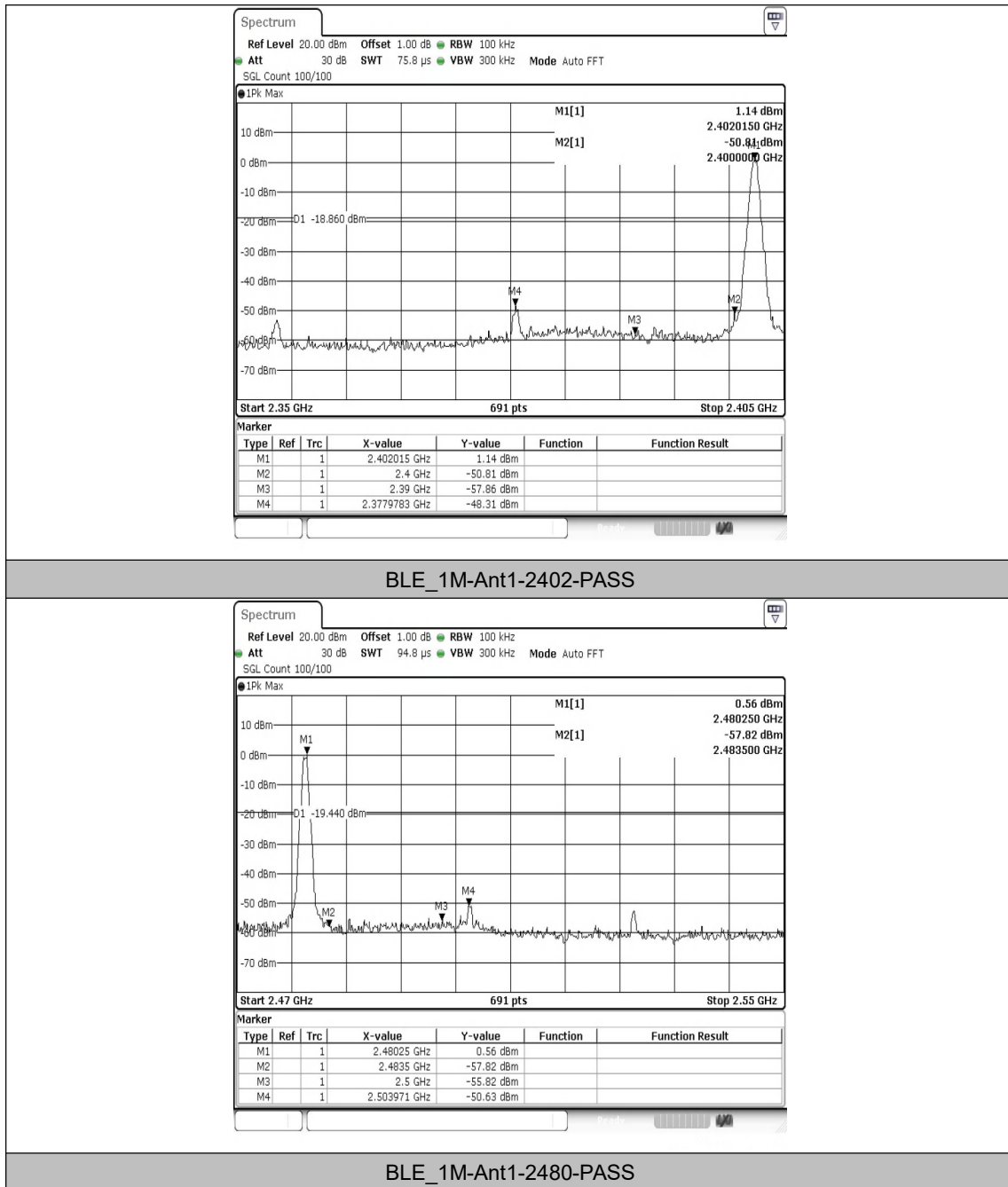
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.14	-48.31	≤-18.86	PASS
BLE_1M	Ant1	High	2480	0.56	-50.63	≤-19.44	PASS
BLE_2M	Ant1	Low	2402	0.82	-33.29	≤-19.18	PASS
BLE_2M	Ant1	High	2480	0.09	-51.57	≤-19.91	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.

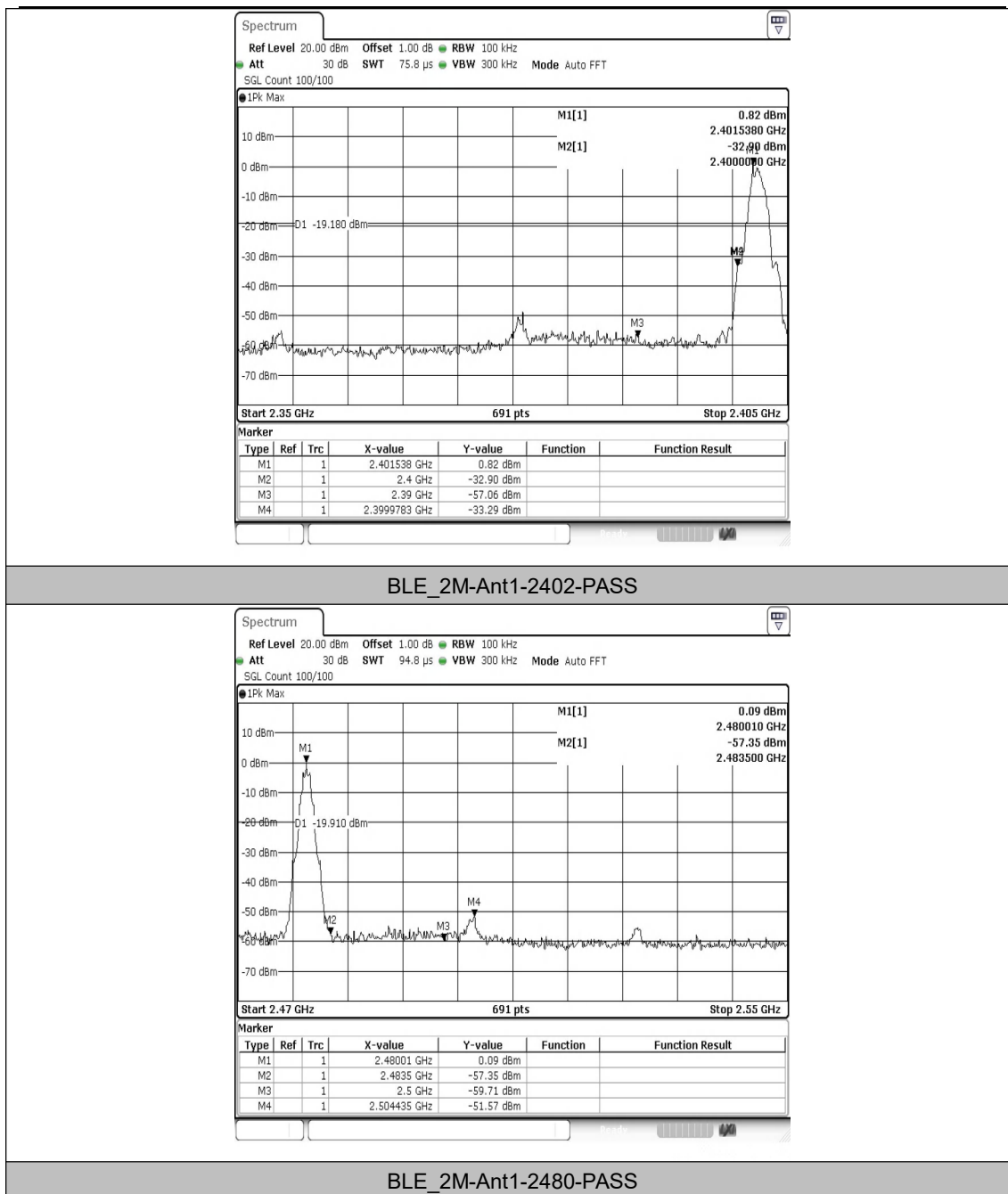
Test Graphs



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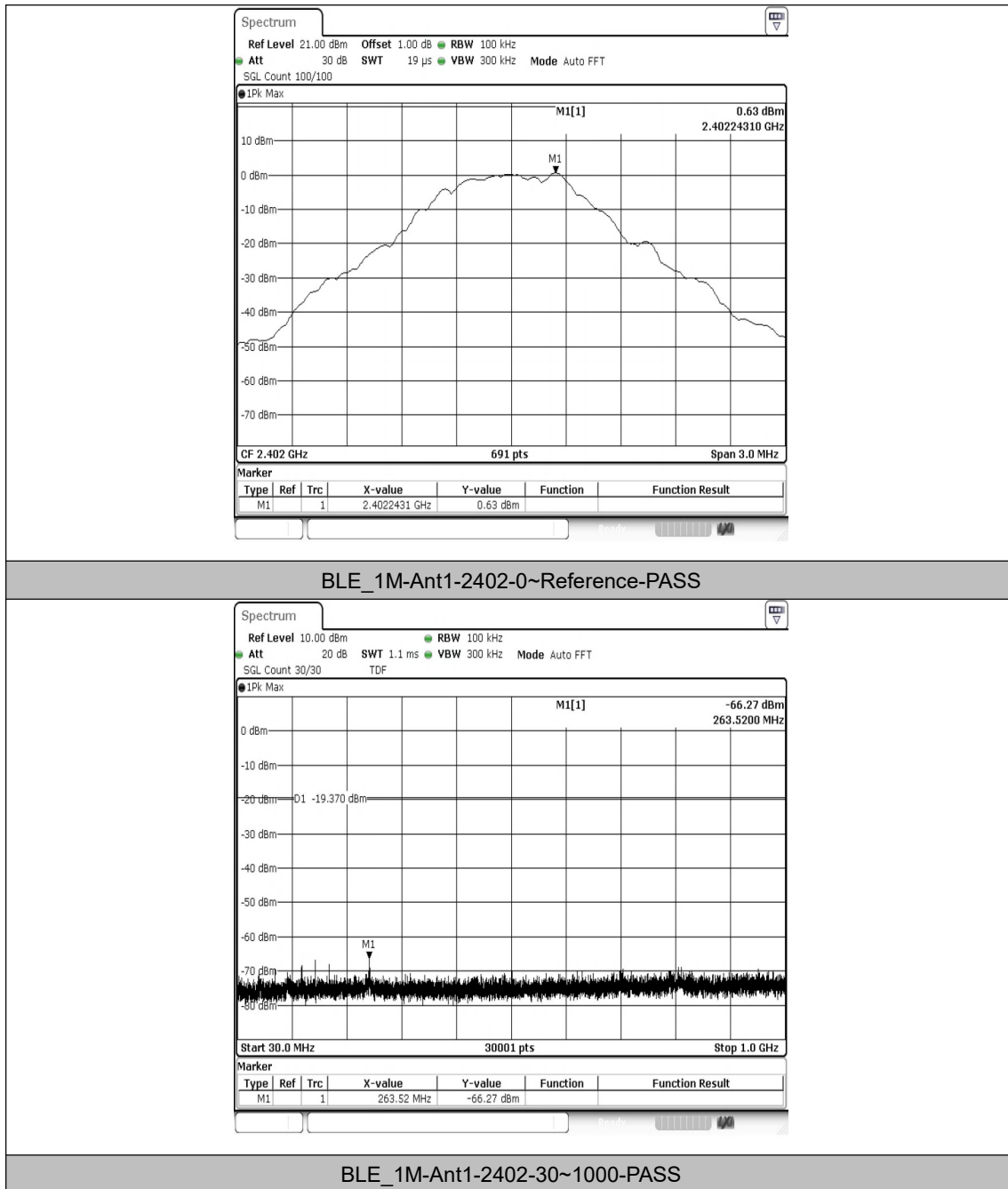
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.63	0.63	---	PASS
BLE_1M	Ant1	2402	30~1000	0.63	-66.27	≤-19.37	PASS
BLE_1M	Ant1	2402	1000~26500	0.63	-41.47	≤-19.37	PASS
BLE_1M	Ant1	2440	0~Reference	0.55	0.55	---	PASS
BLE_1M	Ant1	2440	30~1000	0.55	-57.43	≤-19.45	PASS
BLE_1M	Ant1	2440	1000~26500	0.55	-39.66	≤-19.45	PASS
BLE_1M	Ant1	2480	0~Reference	0.38	0.38	---	PASS
BLE_1M	Ant1	2480	30~1000	0.38	-61.69	≤-19.62	PASS
BLE_1M	Ant1	2480	1000~26500	0.38	-38.17	≤-19.62	PASS
BLE_2M	Ant1	2402	0~Reference	0.32	0.32	---	PASS
BLE_2M	Ant1	2402	30~1000	0.32	-62.75	≤-19.68	PASS
BLE_2M	Ant1	2402	1000~26500	0.32	-41.43	≤-19.68	PASS
BLE_2M	Ant1	2440	0~Reference	-0.41	-0.41	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.41	-65.69	≤-20.41	PASS
BLE_2M	Ant1	2440	1000~26500	-0.41	-39.85	≤-20.41	PASS
BLE_2M	Ant1	2480	0~Reference	-0.64	-0.64	---	PASS
BLE_2M	Ant1	2480	30~1000	-0.64	-52.83	≤-20.64	PASS
BLE_2M	Ant1	2480	1000~26500	-0.64	-40.29	≤-20.64	PASS

Remark: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factor s have been set in the 'TDF' of the Spectrum Analyzer during the test.

Test Graphs

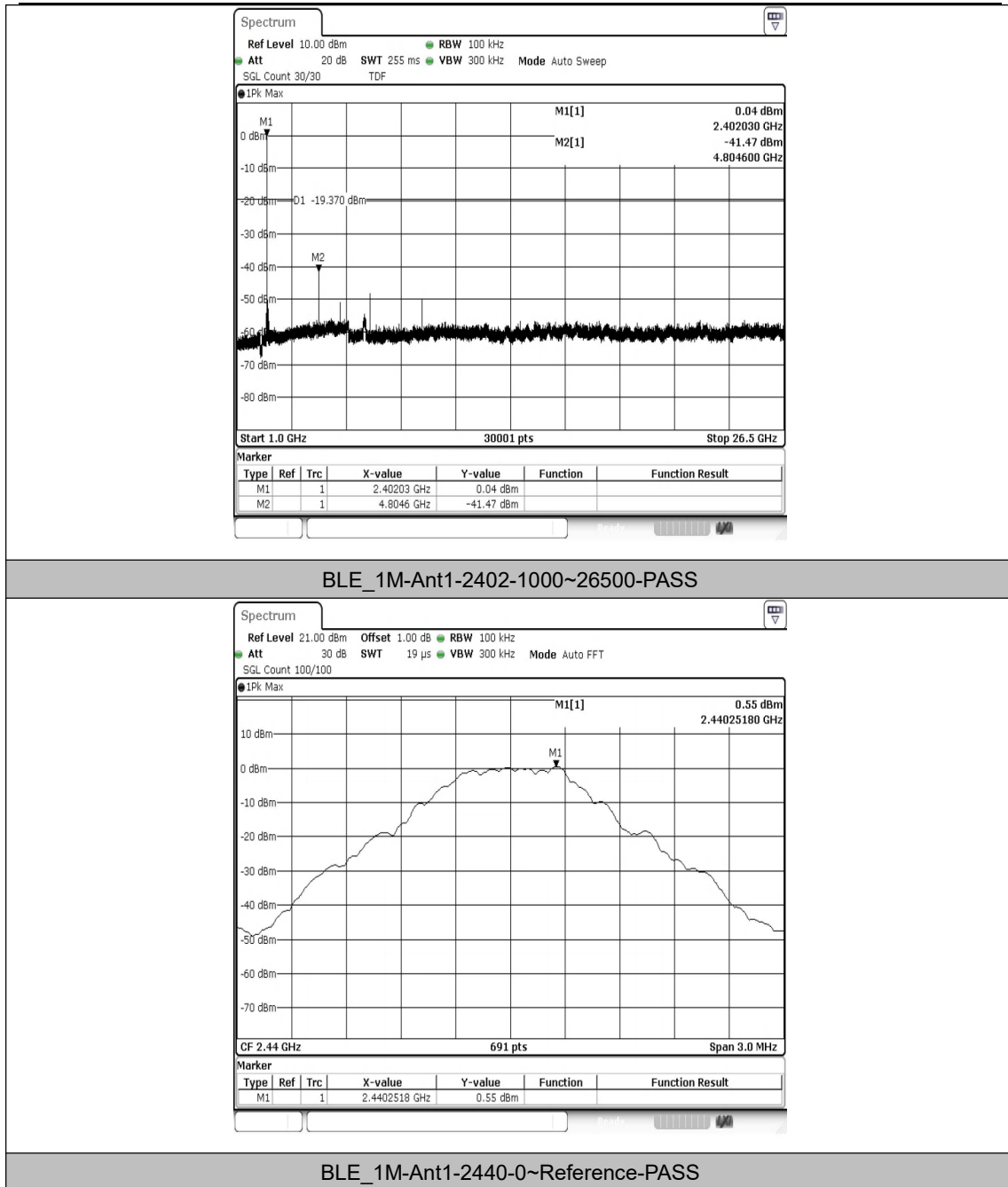


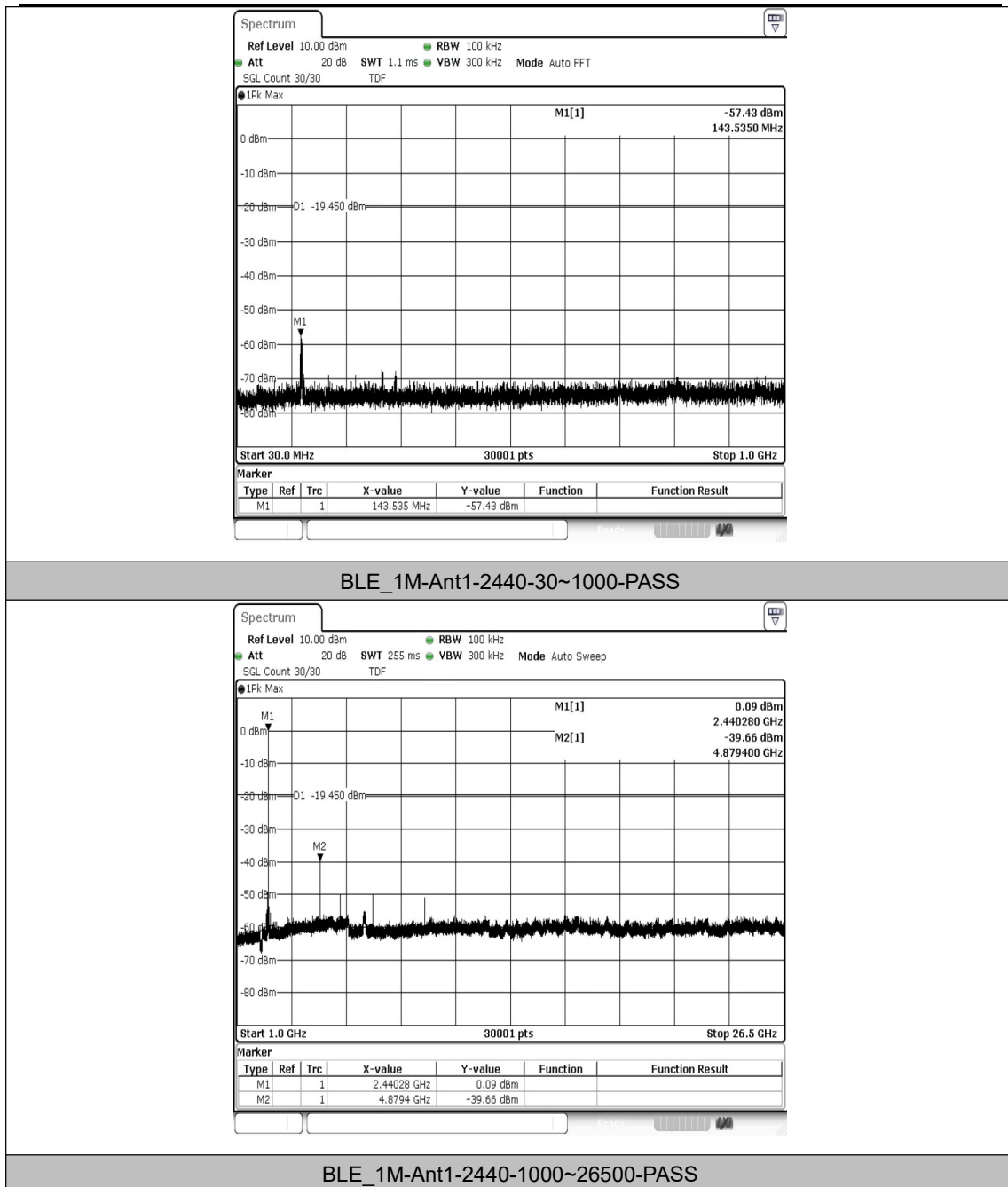
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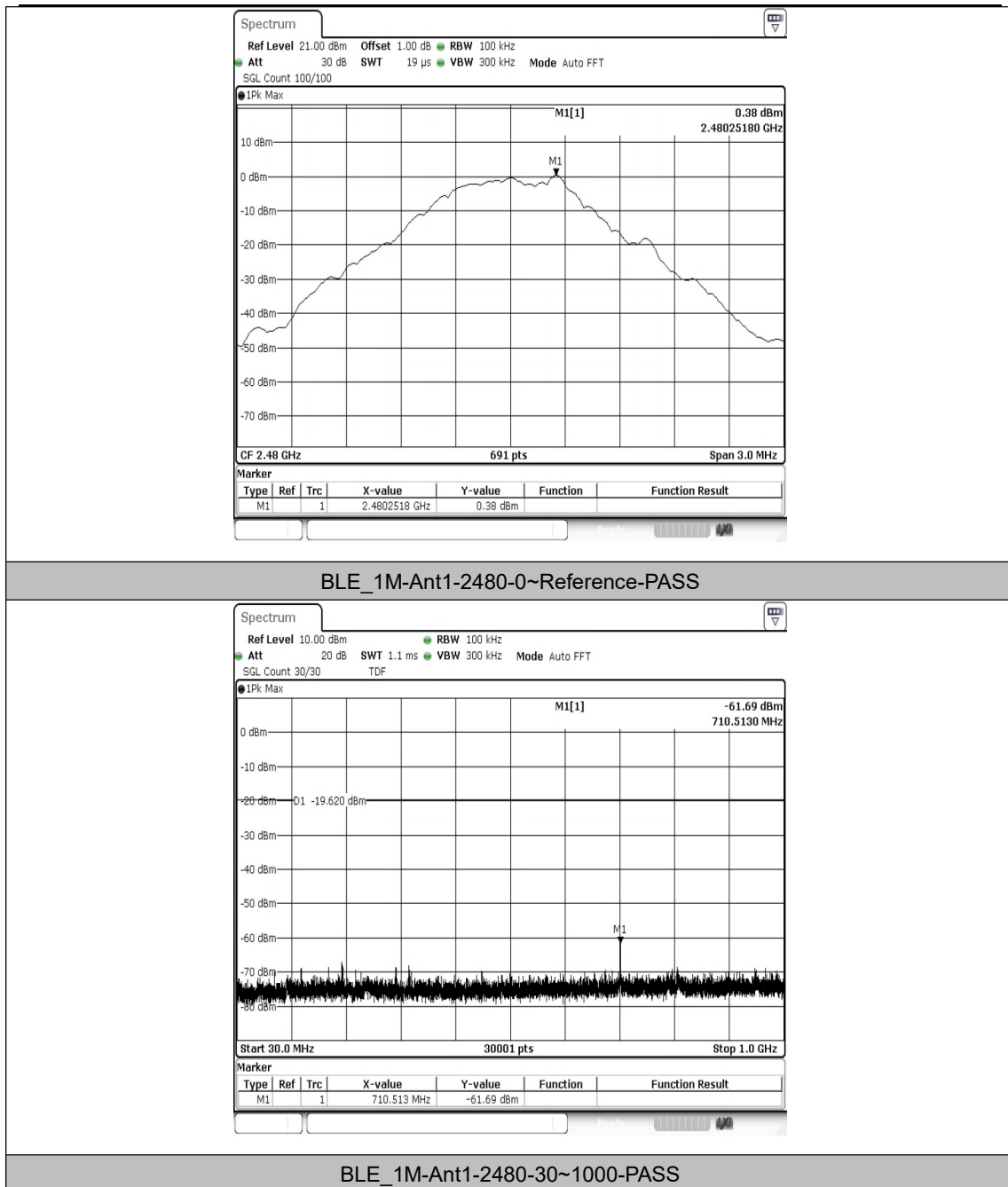
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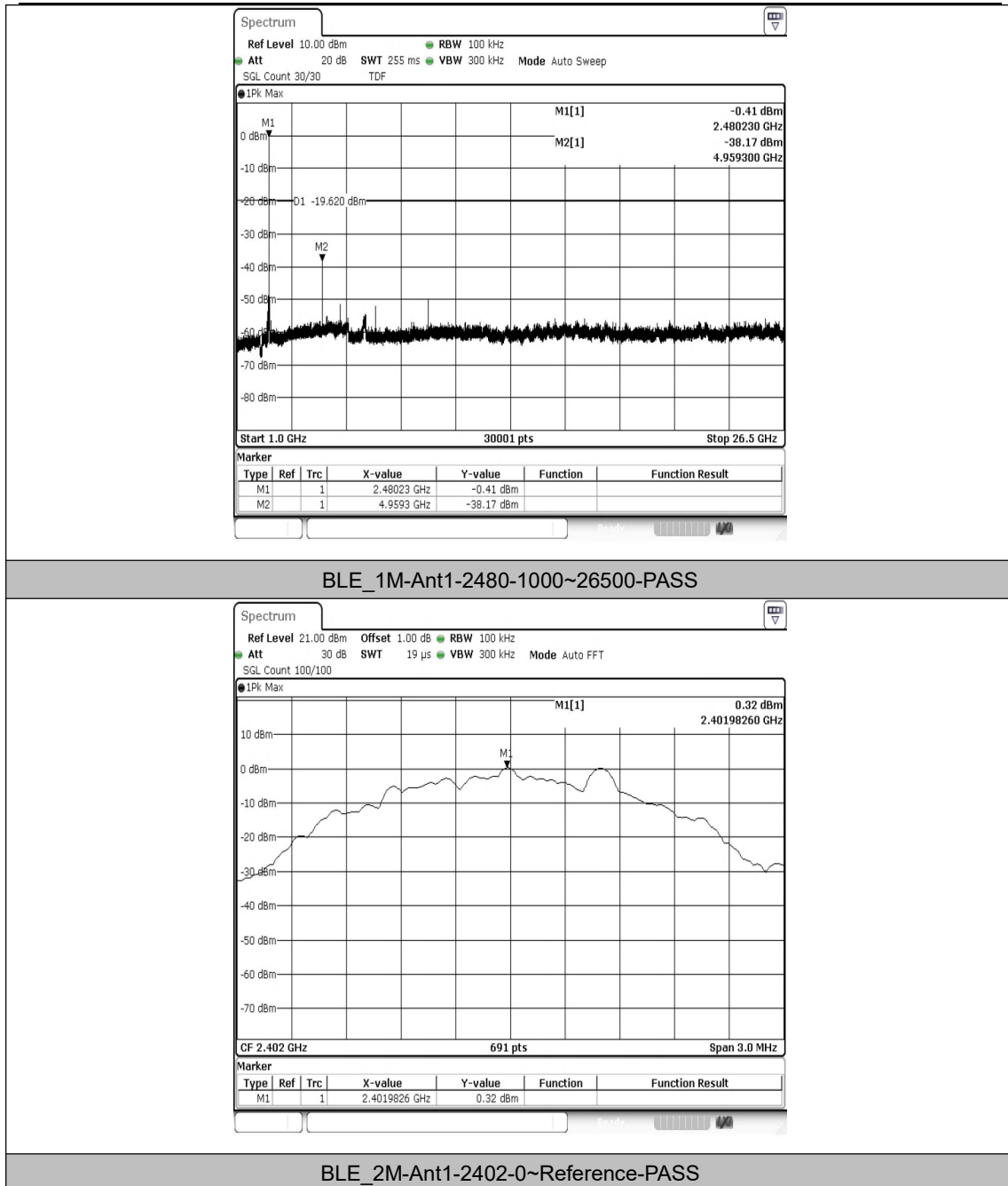


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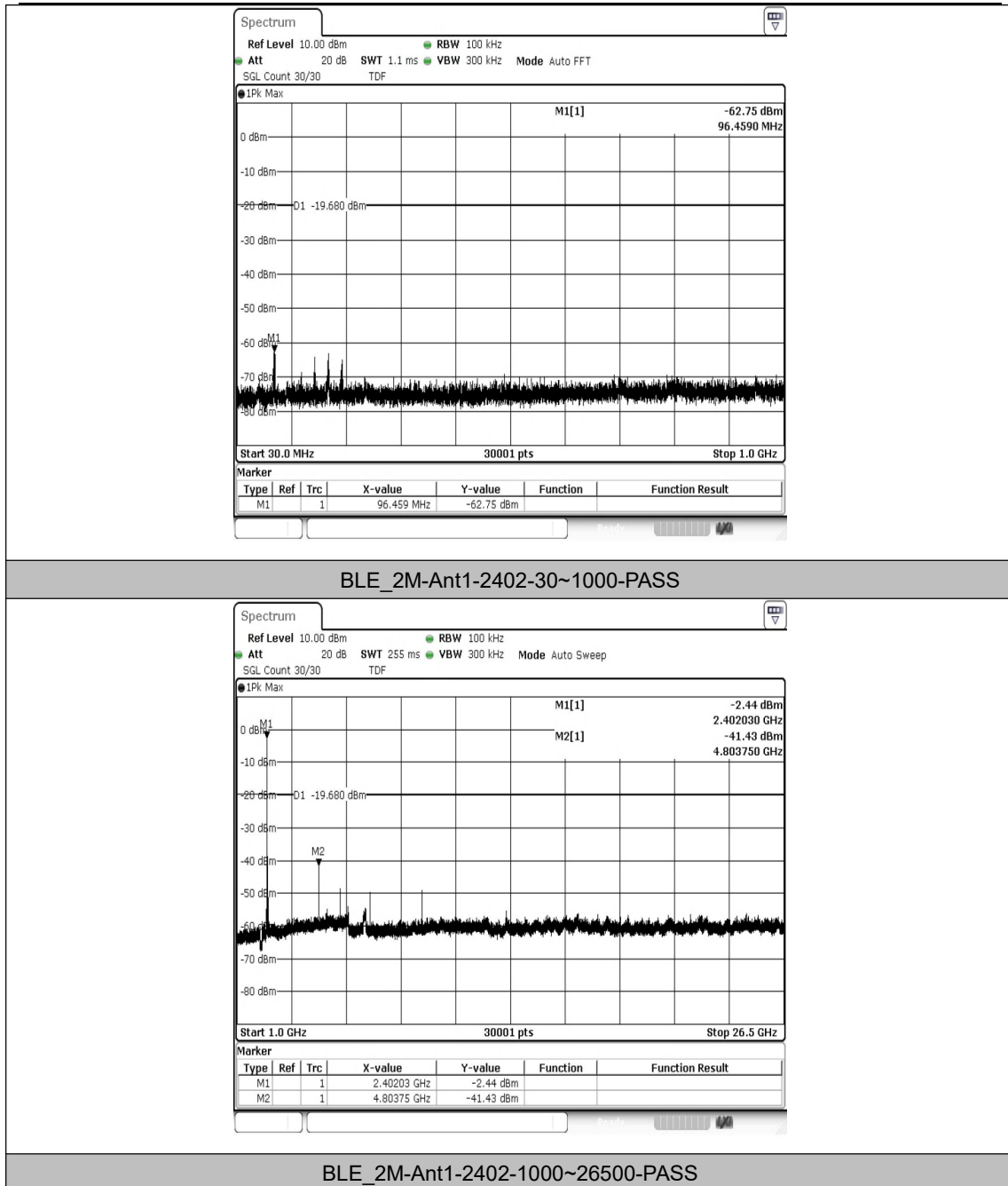


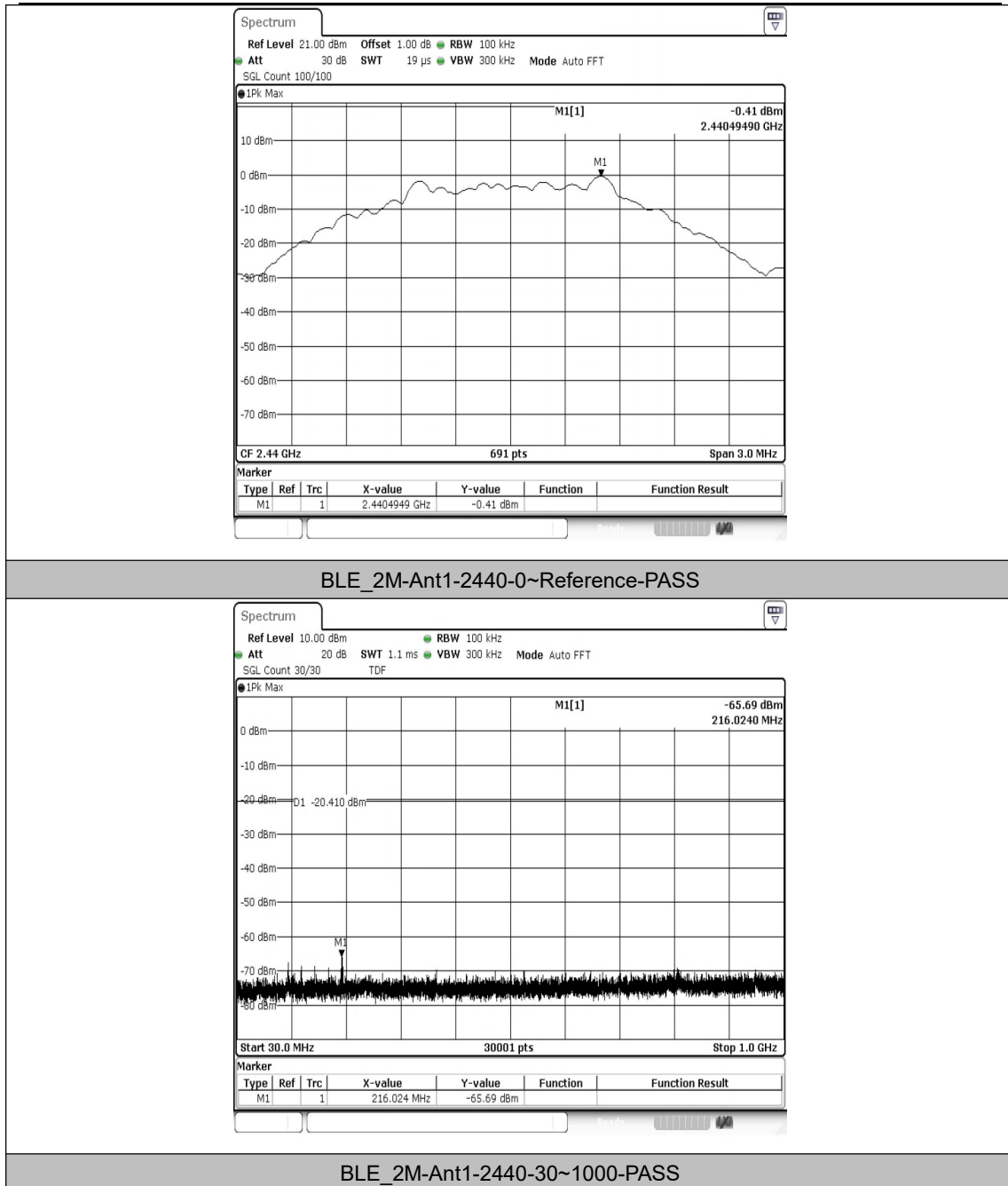


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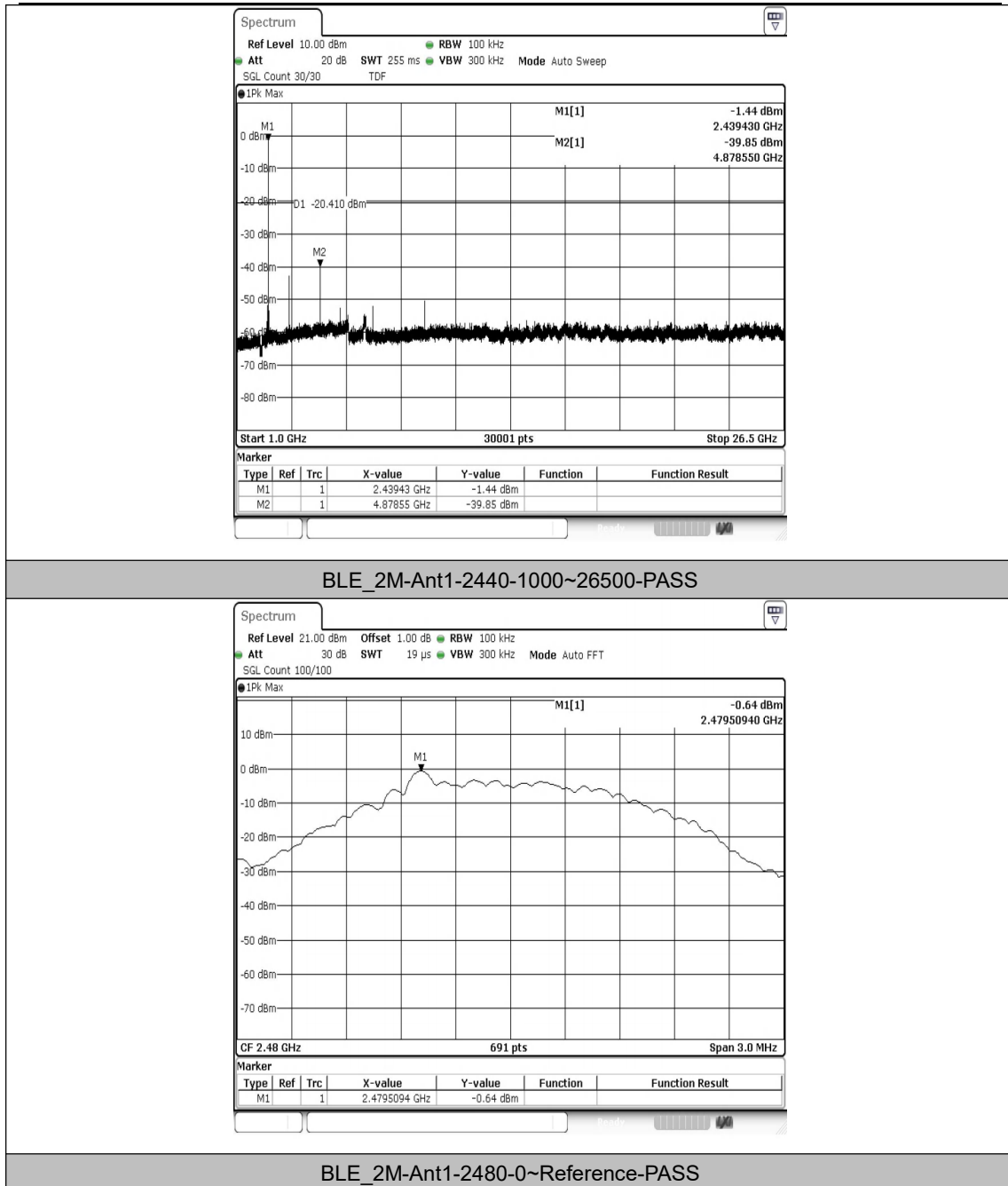
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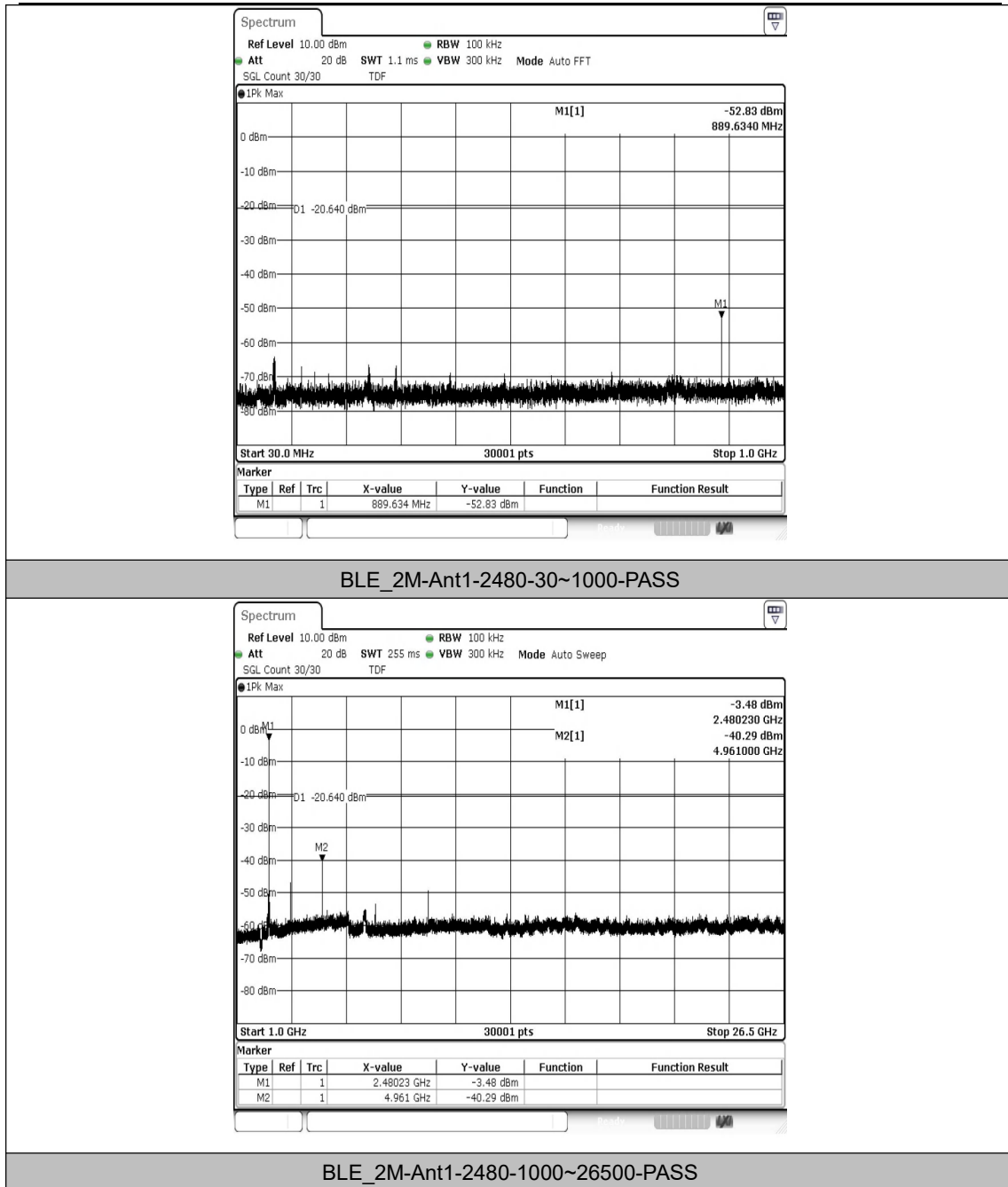
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2440	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	1.06	2.49	42.57	3.71
BLE_2M	Ant1	2440	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2480	1.06	2.49	42.57	3.71

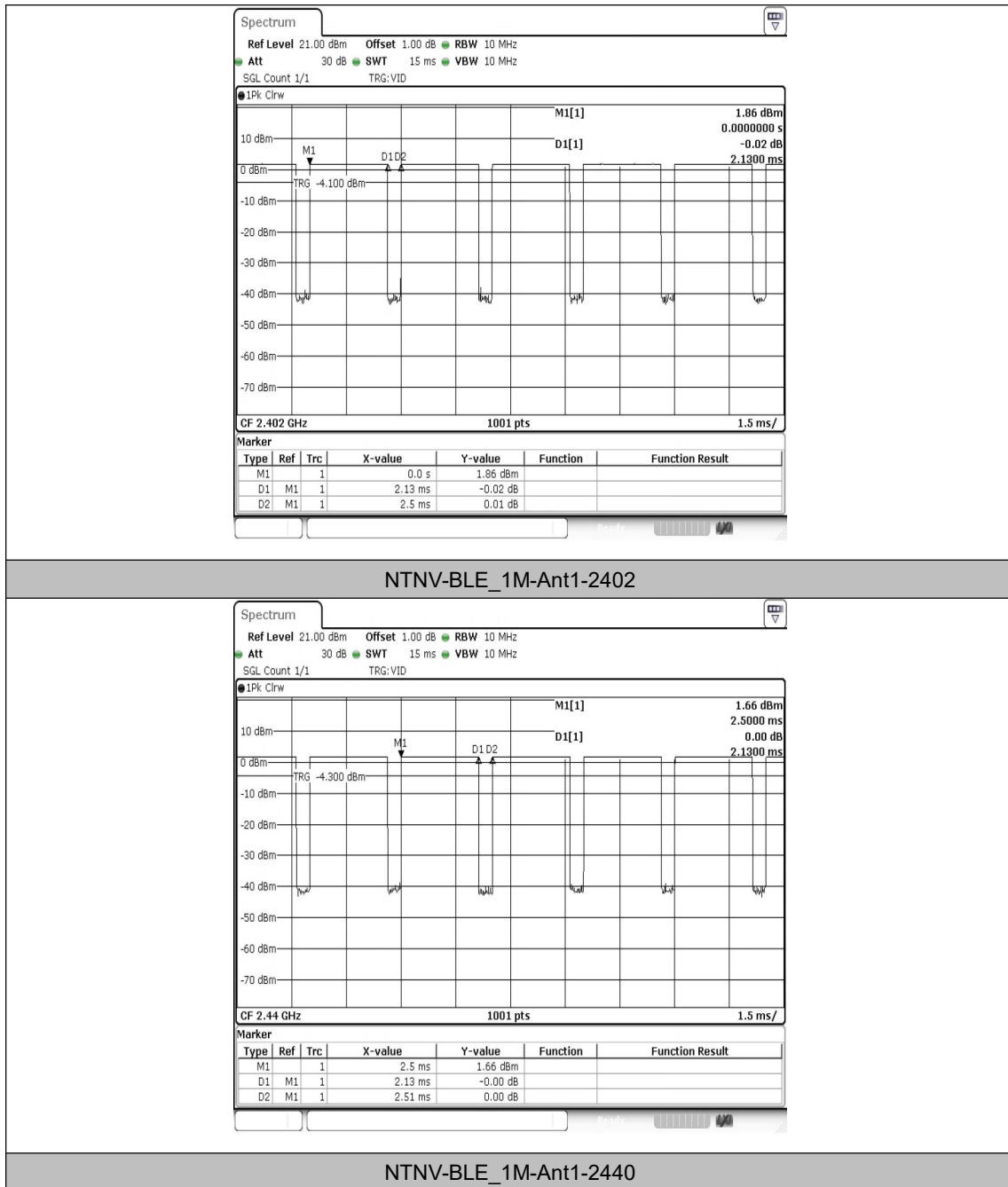
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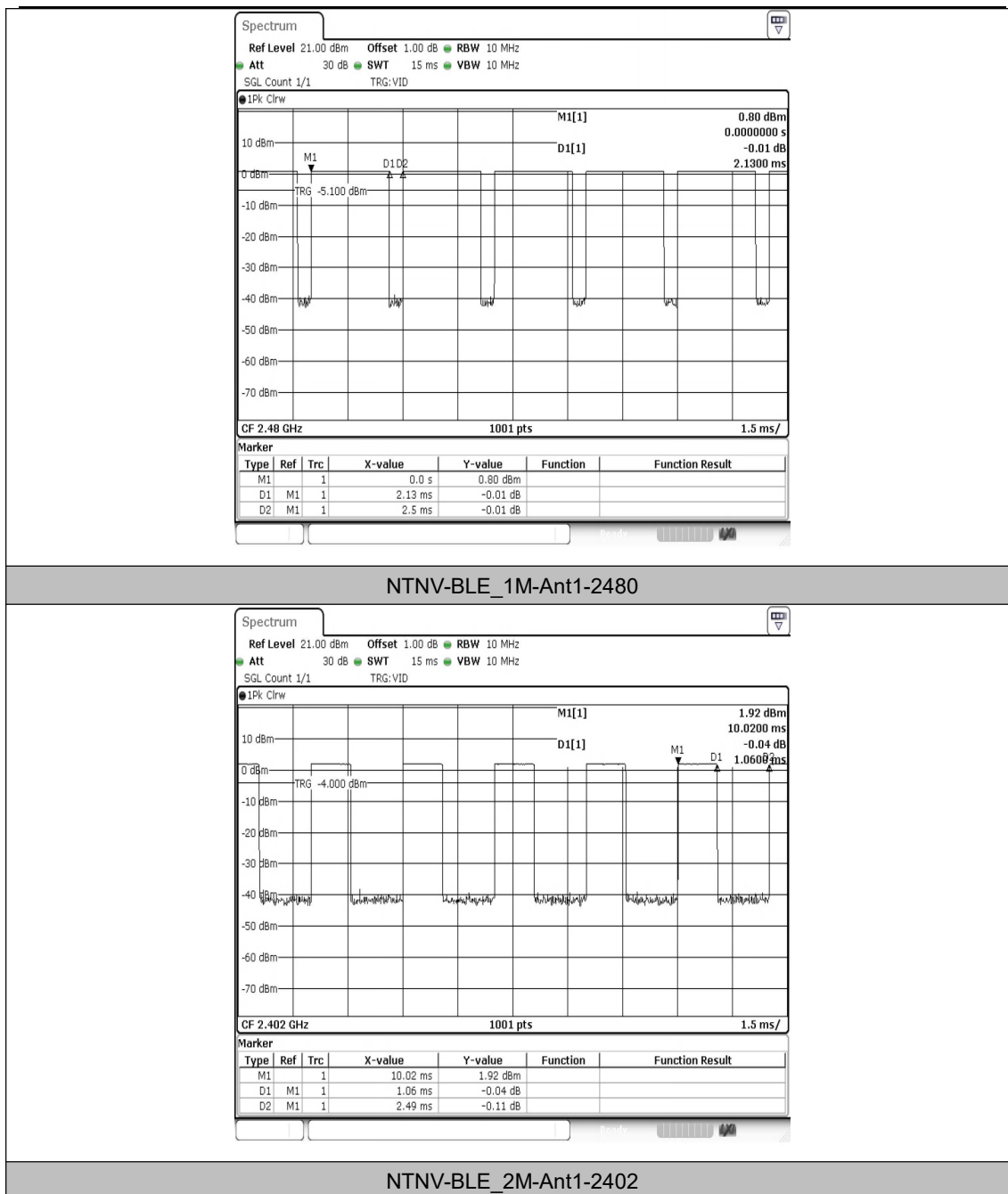
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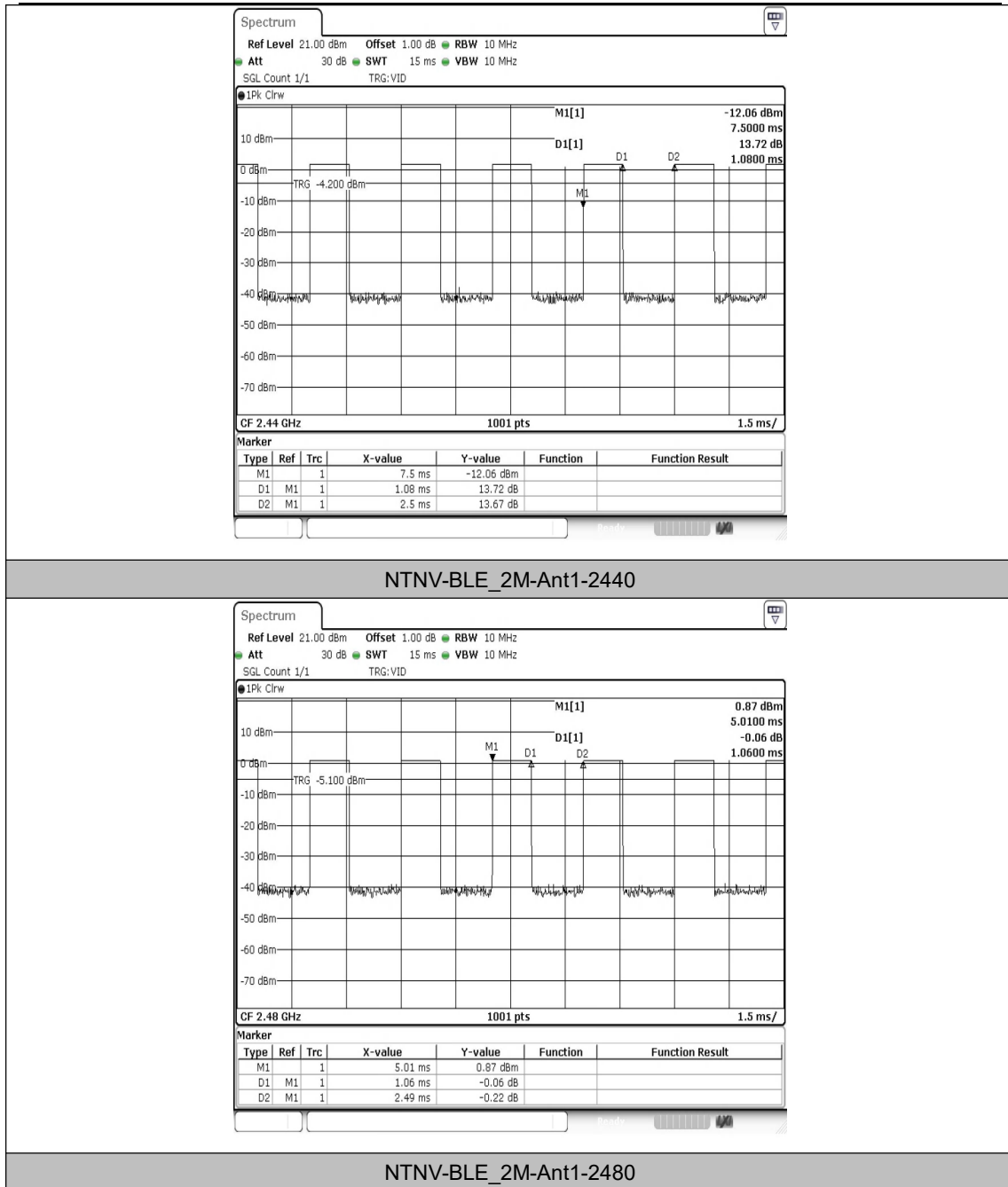


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Test Graphs







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