

Appendix Test Data

Report No.:	1821C50024112501	Test Sample No.:	1-2-2
Start Test Date:	2025-09-19	Finish Test Date:	2025-09-19
Test Engineer:	<i>dylan. Ma</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.5°C	Relative Humidity:	49%
Pressure:	101kPa		

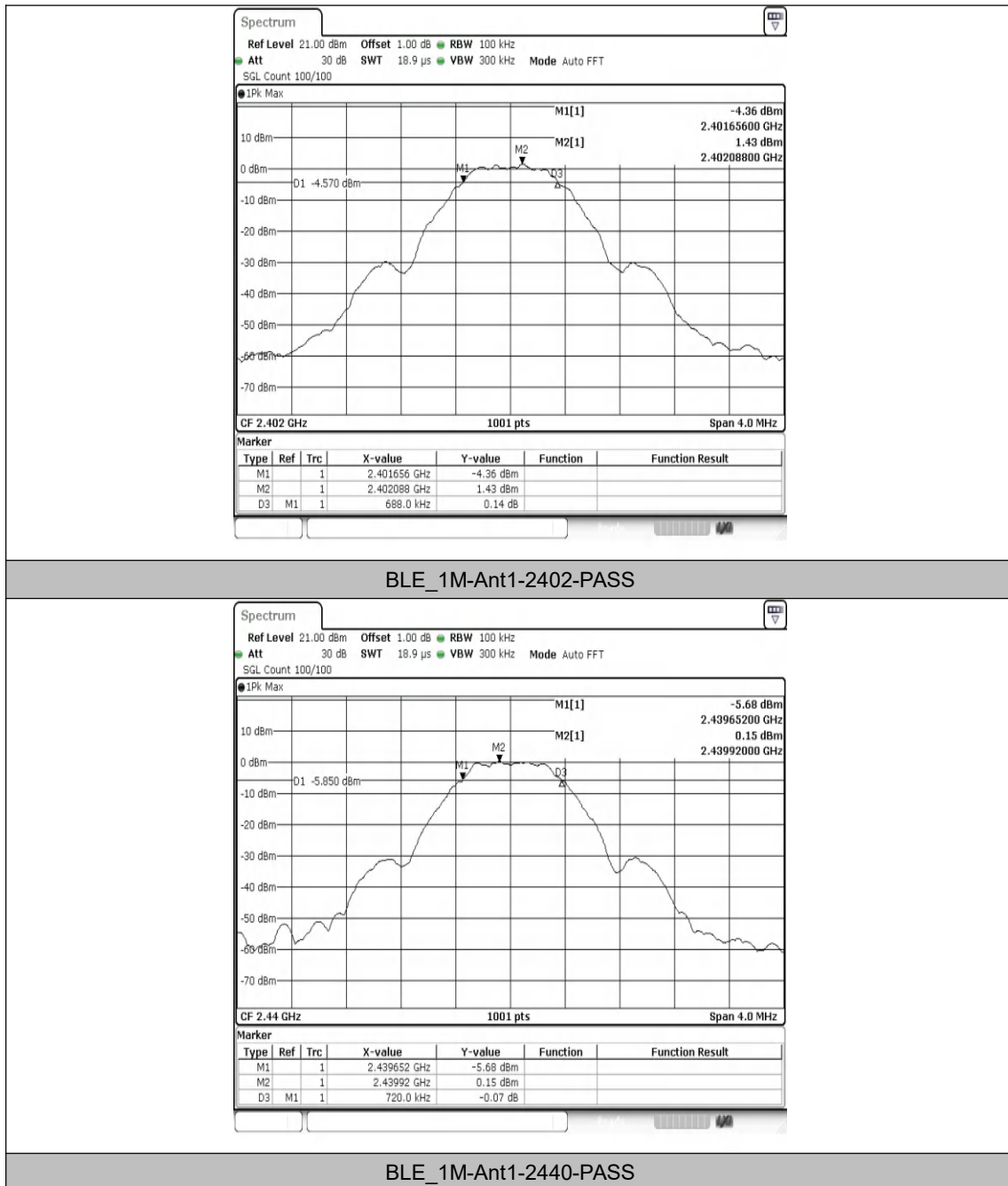


Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.69	2401.66	2402.34	0.5	PASS
BLE_1M	Ant1	2440	0.72	2439.65	2440.37	0.5	PASS
BLE_1M	Ant1	2480	0.67	2479.66	2480.33	0.5	PASS
BLE_2M	Ant1	2402	1.46	2401.26	2402.71	0.5	PASS
BLE_2M	Ant1	2440	1.41	2439.30	2440.71	0.5	PASS
BLE_2M	Ant1	2480	1.38	2479.29	2480.66	0.5	PASS

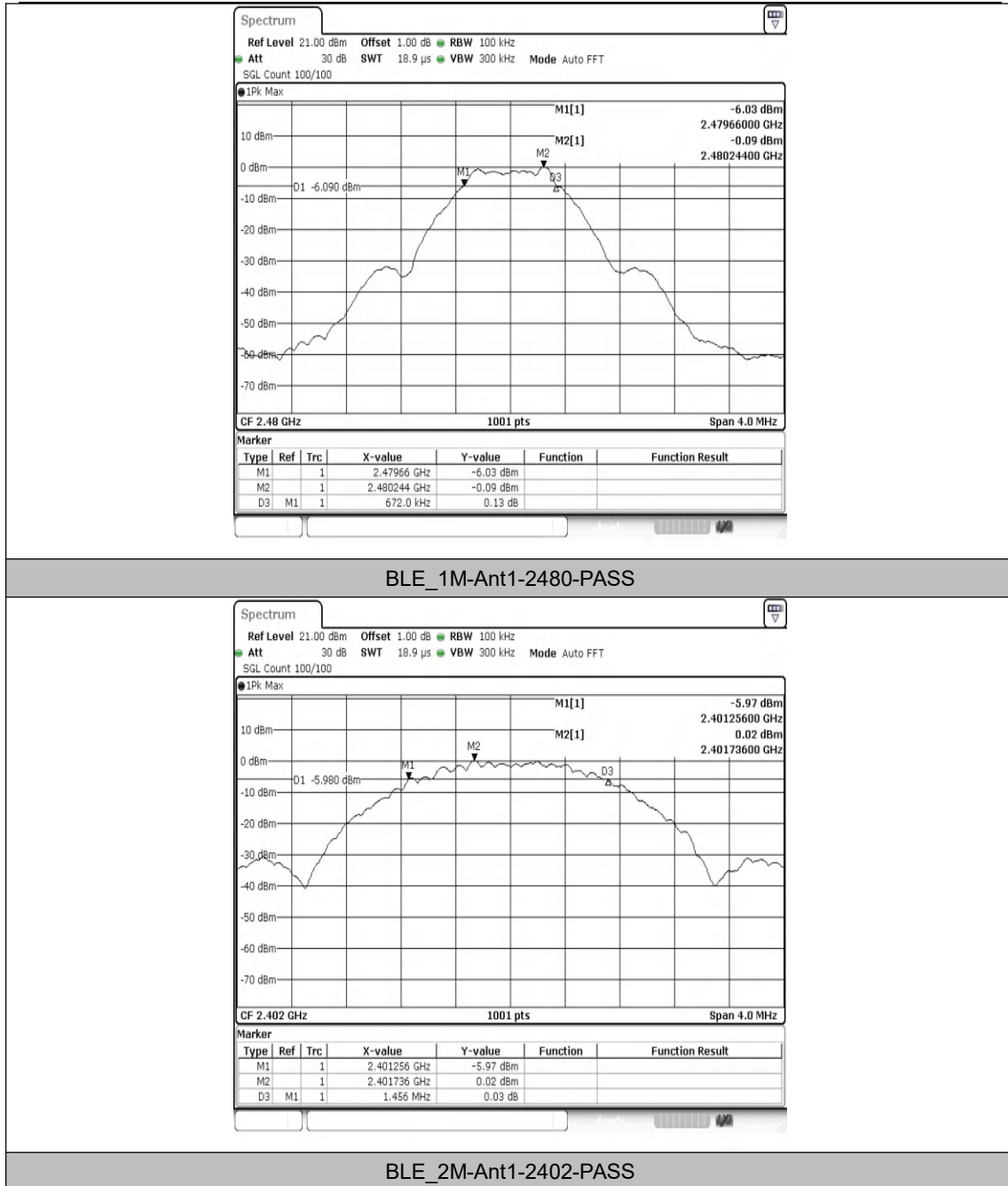
Test Graphs



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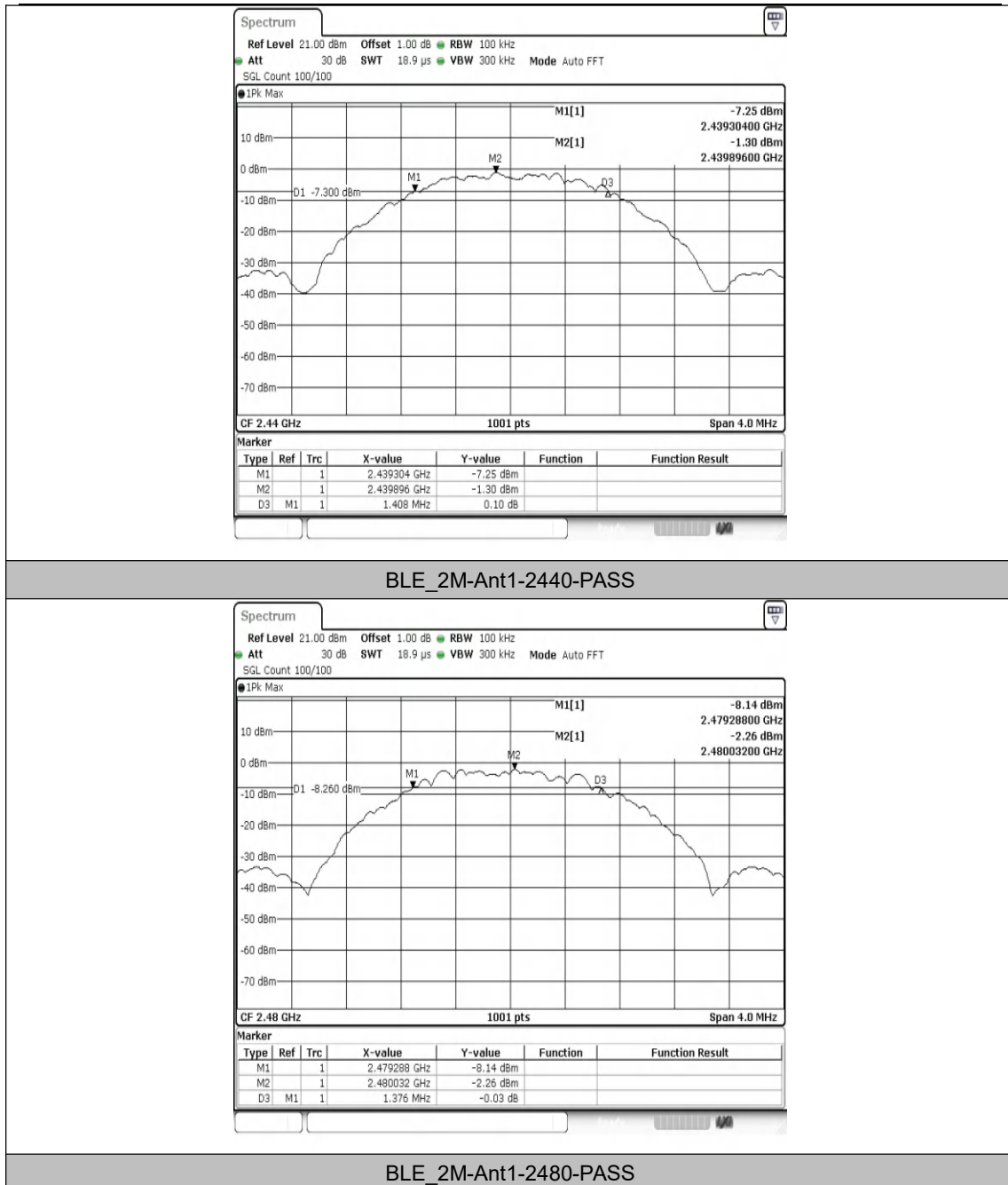
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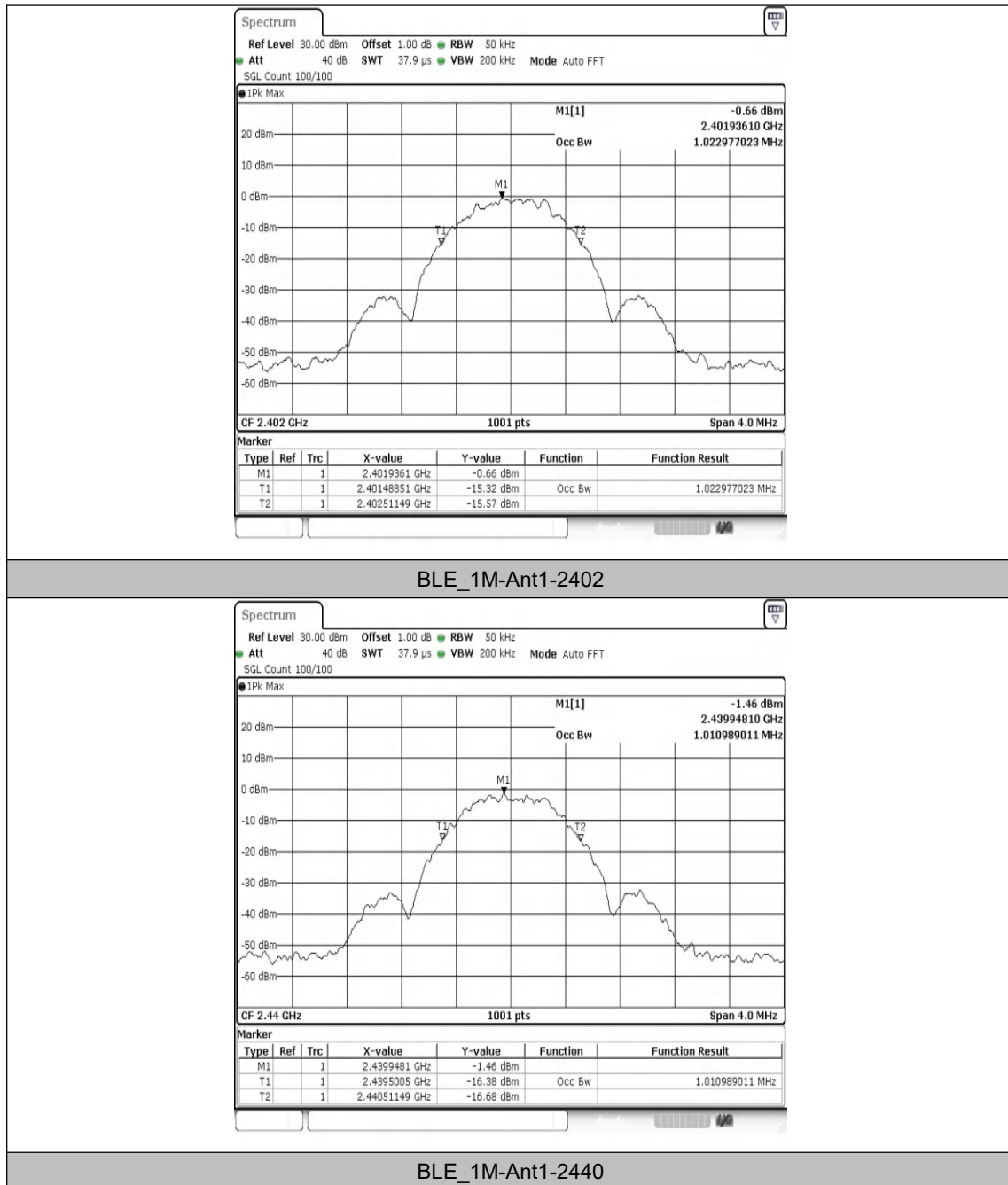


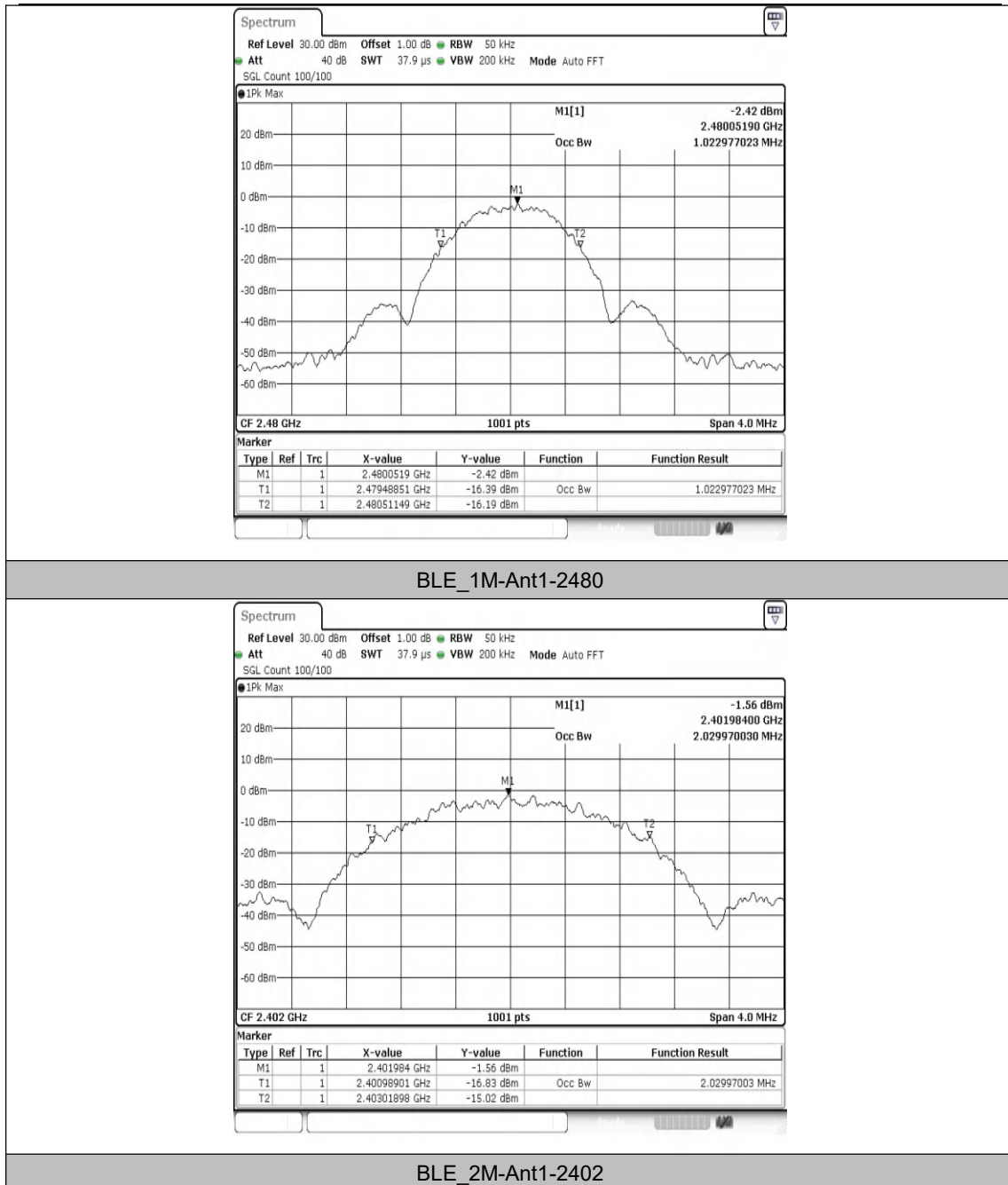
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0230	2401.4885	2402.5115	---	---
BLE_1M	Ant1	2440	1.0110	2439.5005	2440.5115	---	---
BLE_1M	Ant1	2480	1.0230	2479.4885	2480.5115	---	---
BLE_2M	Ant1	2402	2.0300	2400.9890	2403.0190	---	---
BLE_2M	Ant1	2440	2.0500	2438.9850	2441.0350	---	---
BLE_2M	Ant1	2480	2.0460	2478.9890	2481.0350	---	---

Test Graphs

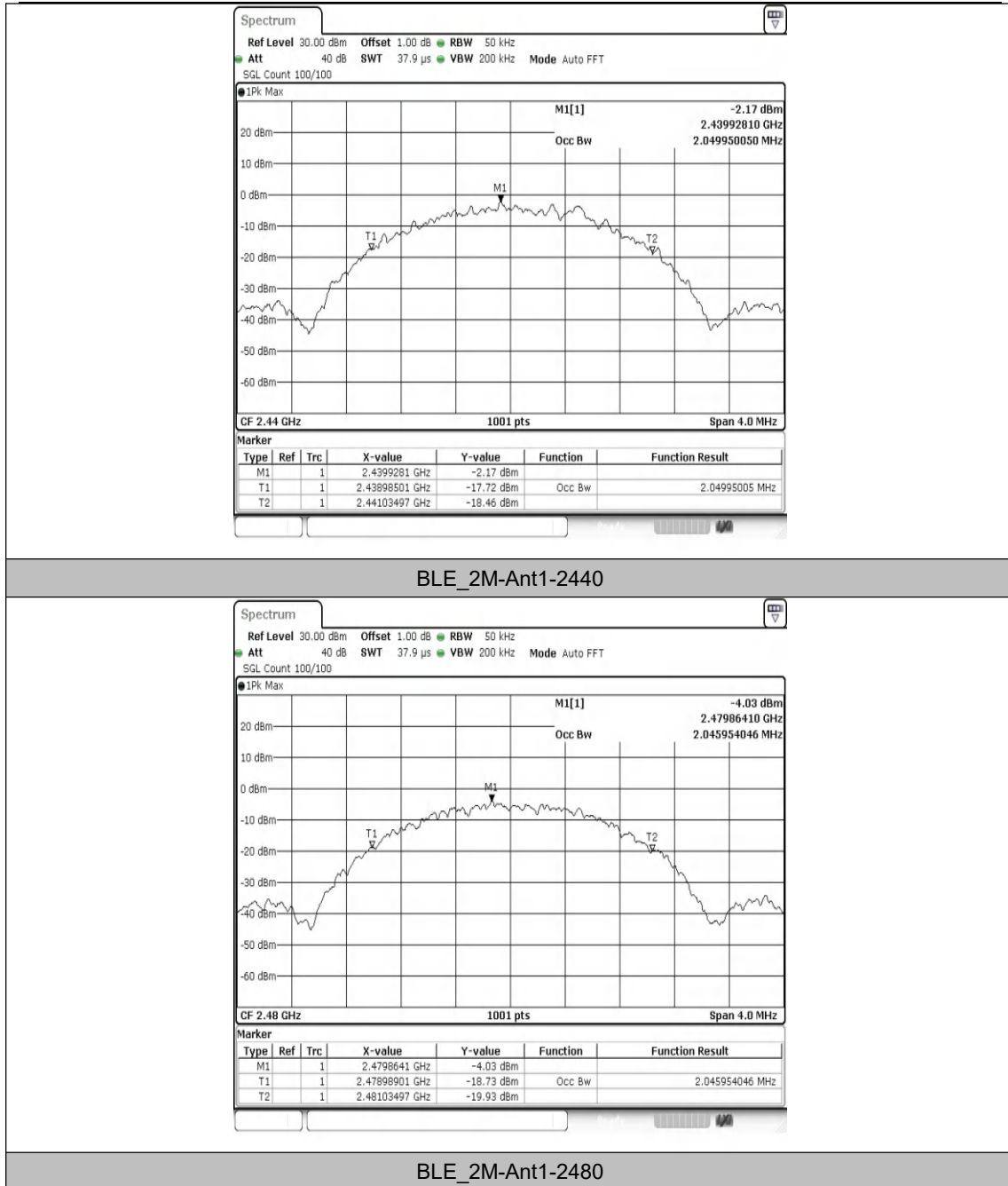




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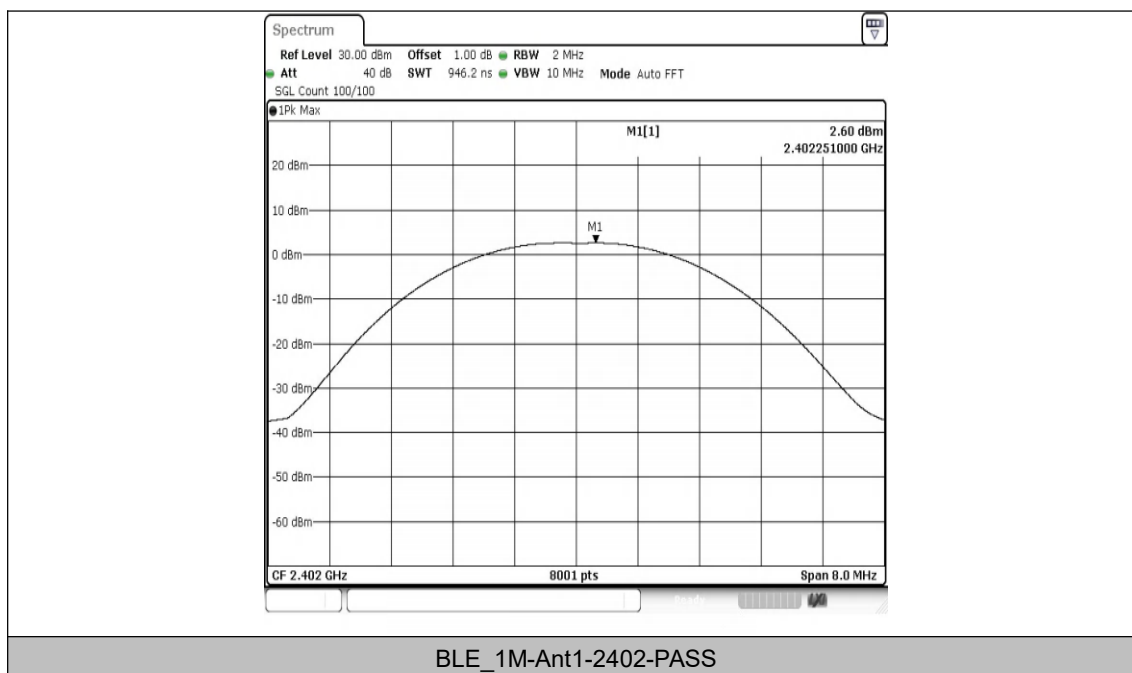
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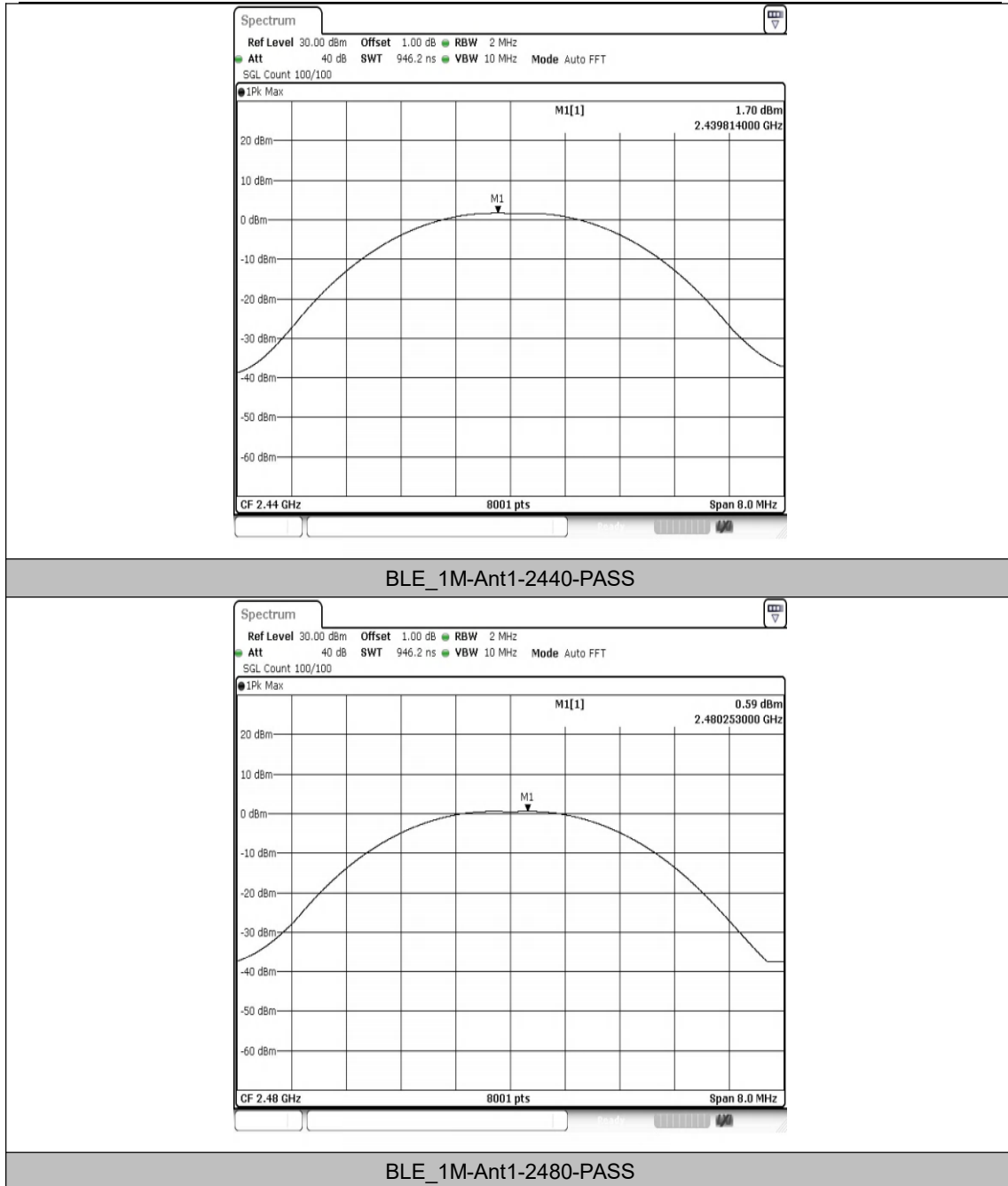
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.60	≤30	PASS
BLE_1M	Ant1	2440	1.70	≤30	PASS
BLE_1M	Ant1	2480	0.59	≤30	PASS
BLE_2M	Ant1	2402	2.58	≤30	PASS
BLE_2M	Ant1	2440	1.65	≤30	PASS
BLE_2M	Ant1	2480	0.54	≤30	PASS

Test Graphs Peak

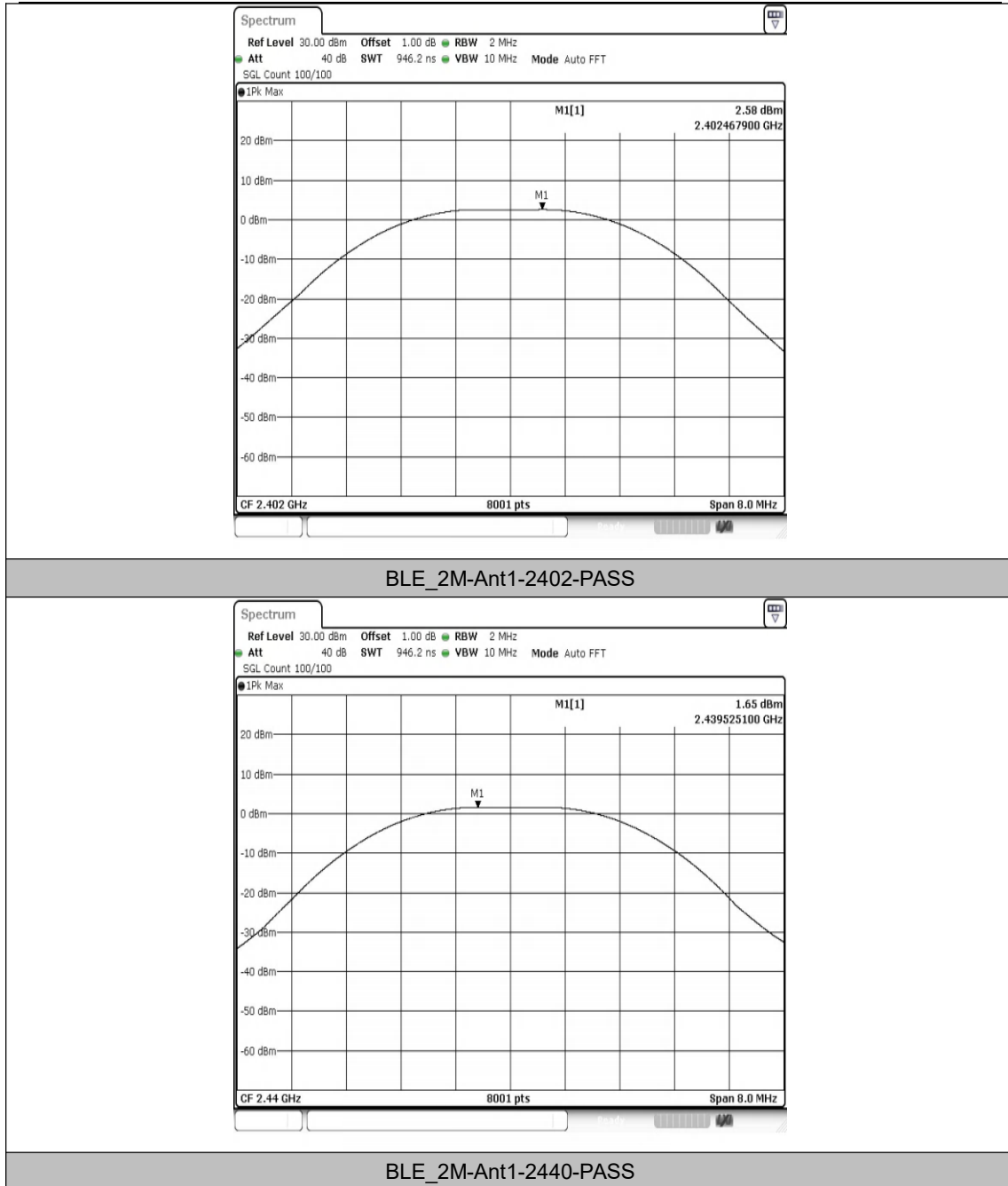




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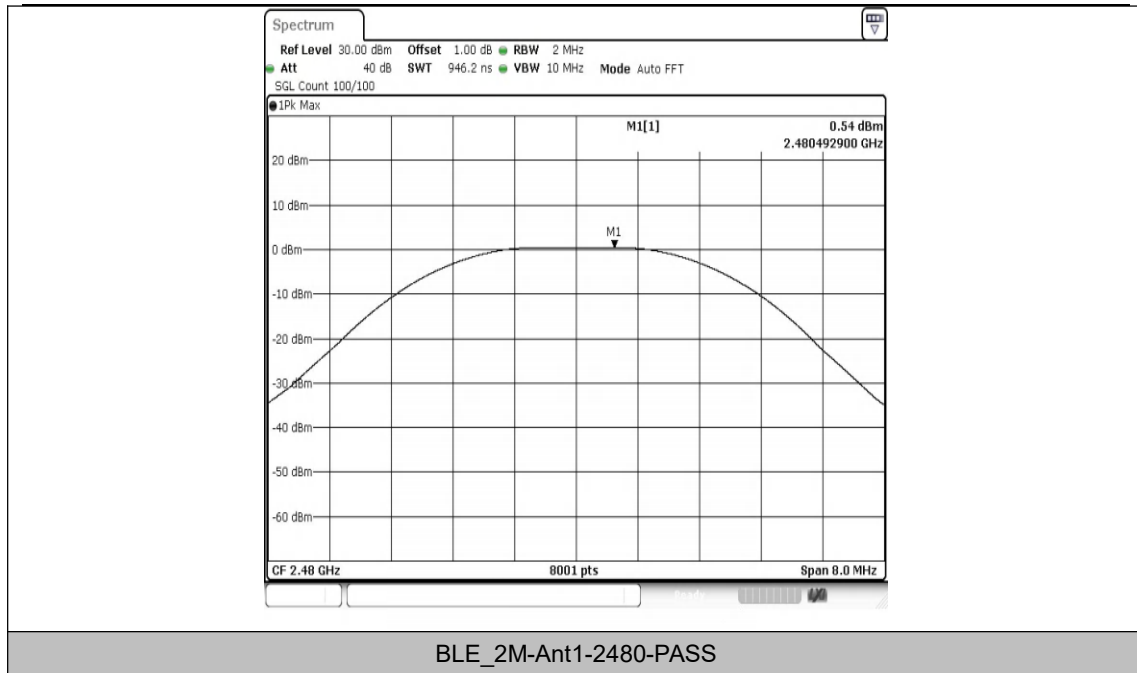
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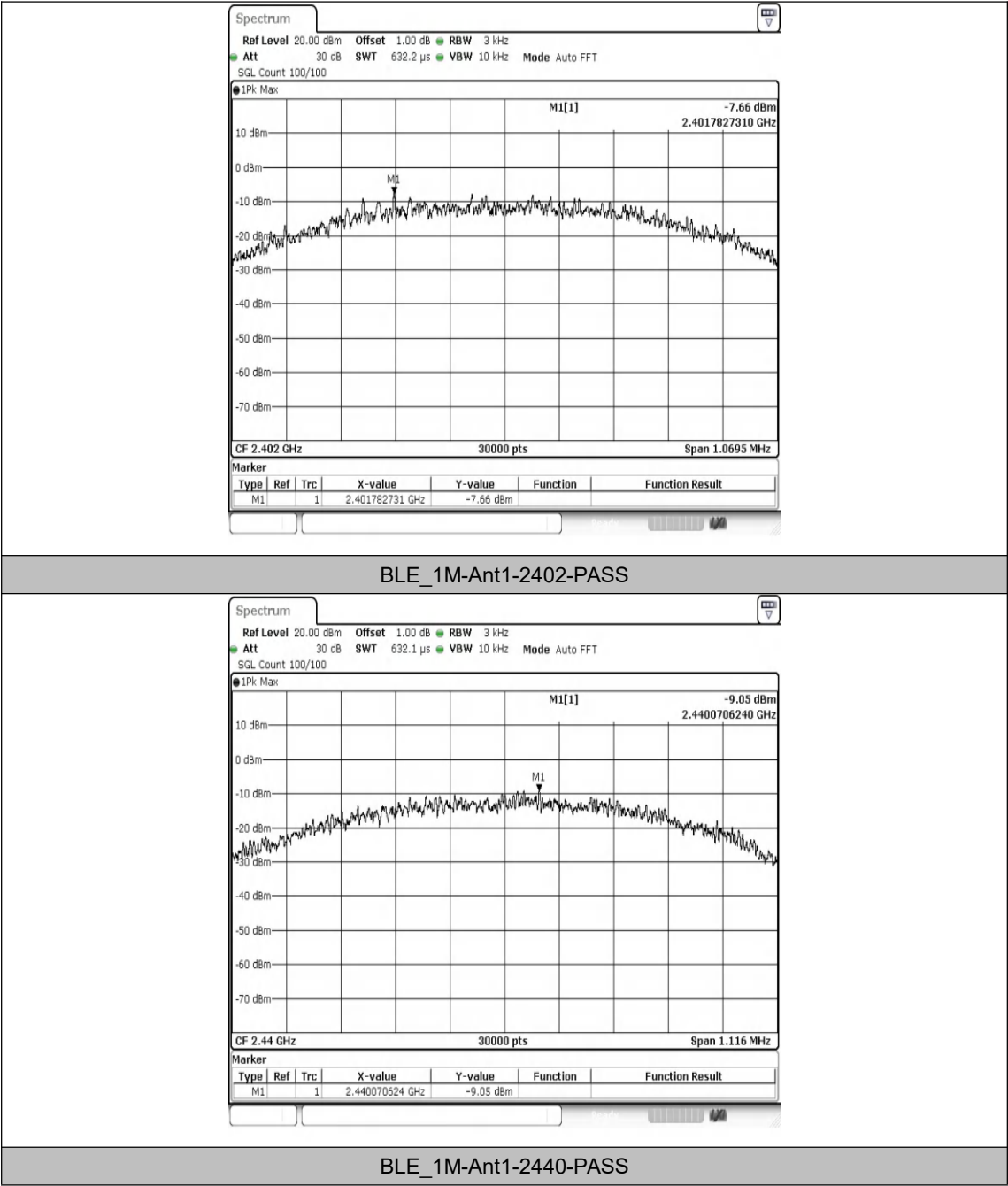
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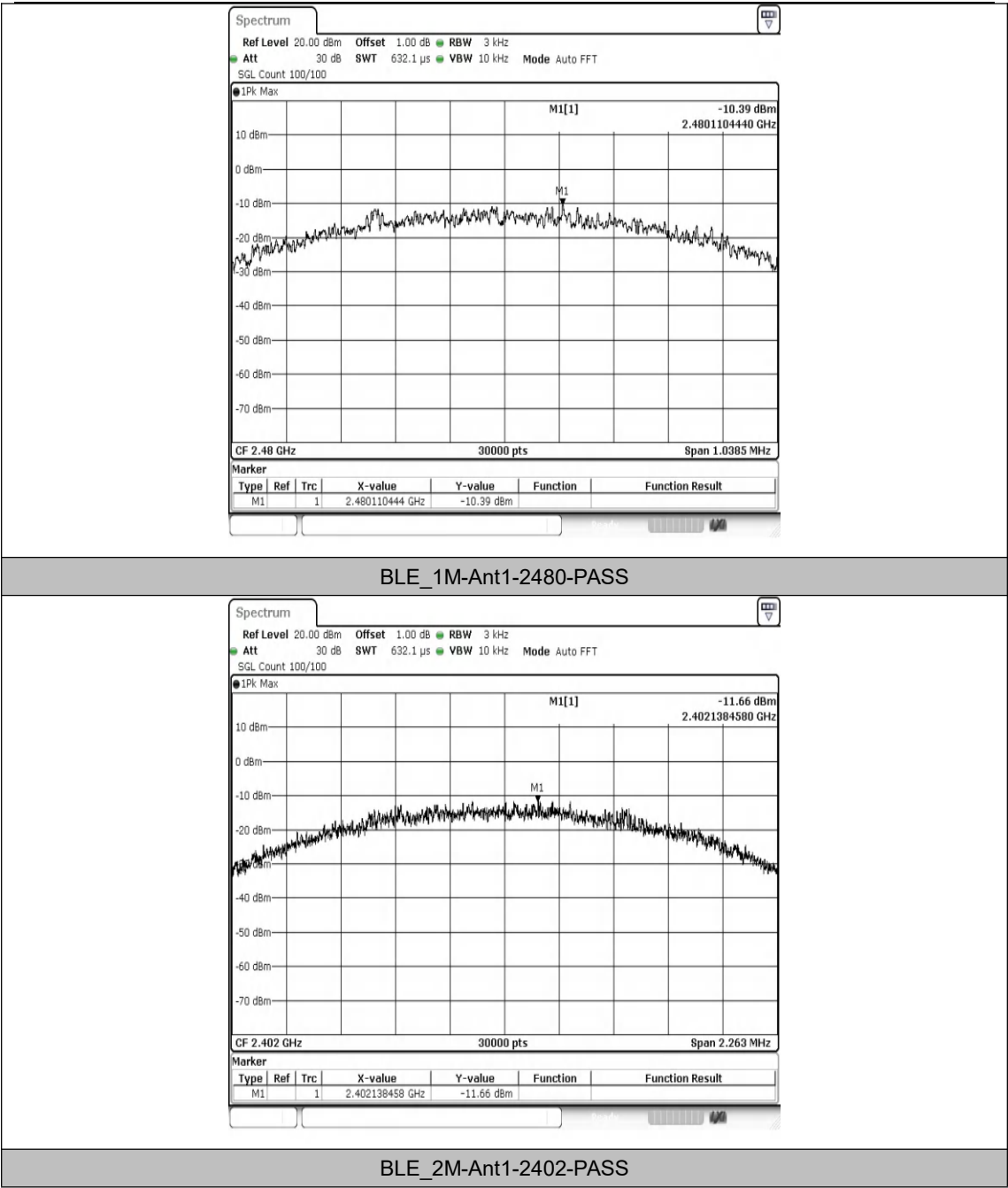
Appendix D: Maximum power spectral density

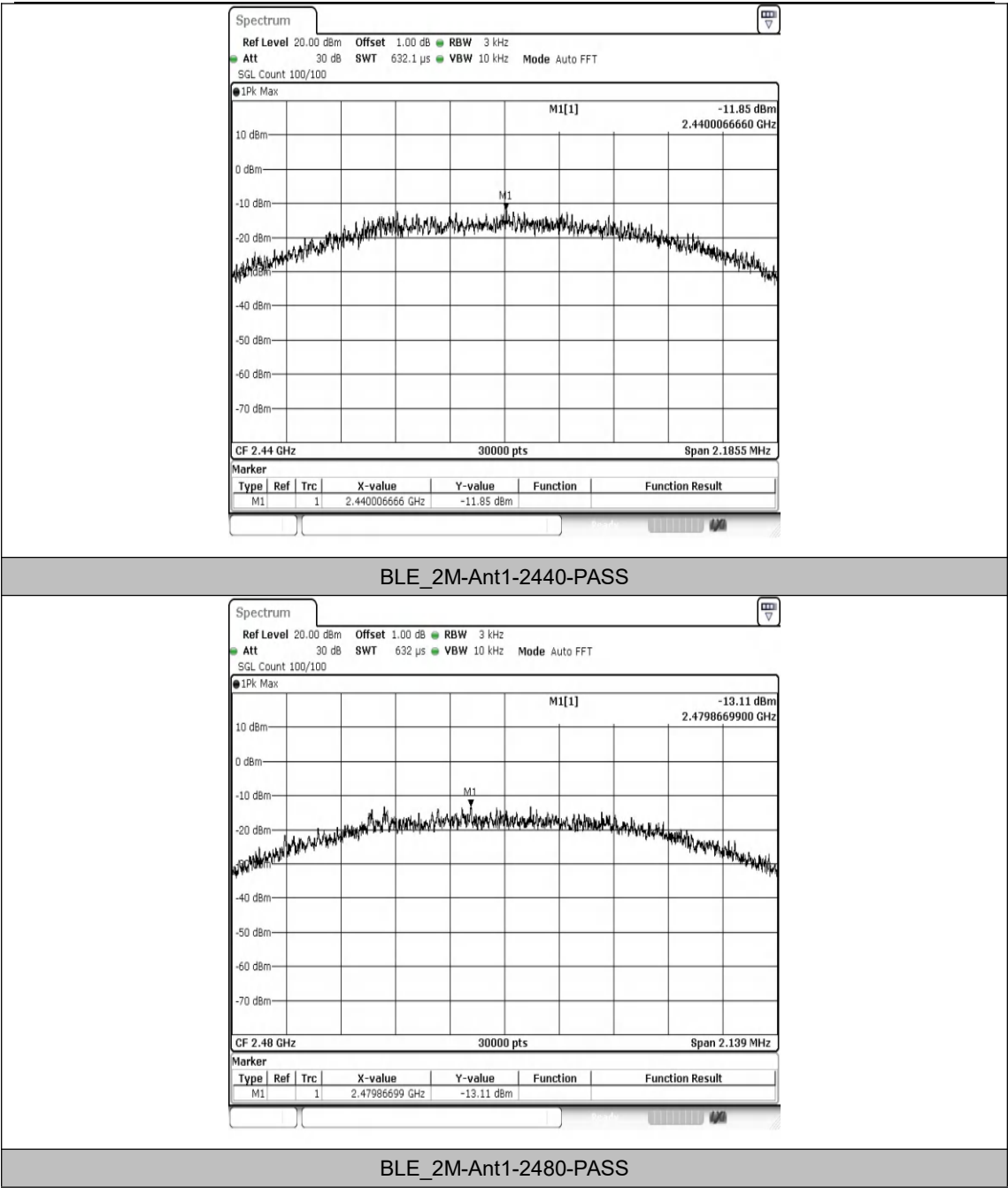
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.66	≤8.00	PASS
BLE_1M	Ant1	2440	-9.05	≤8.00	PASS
BLE_1M	Ant1	2480	-10.39	≤8.00	PASS
BLE_2M	Ant1	2402	-11.66	≤8.00	PASS
BLE_2M	Ant1	2440	-11.85	≤8.00	PASS
BLE_2M	Ant1	2480	-13.11	≤8.00	PASS

Test Graphs







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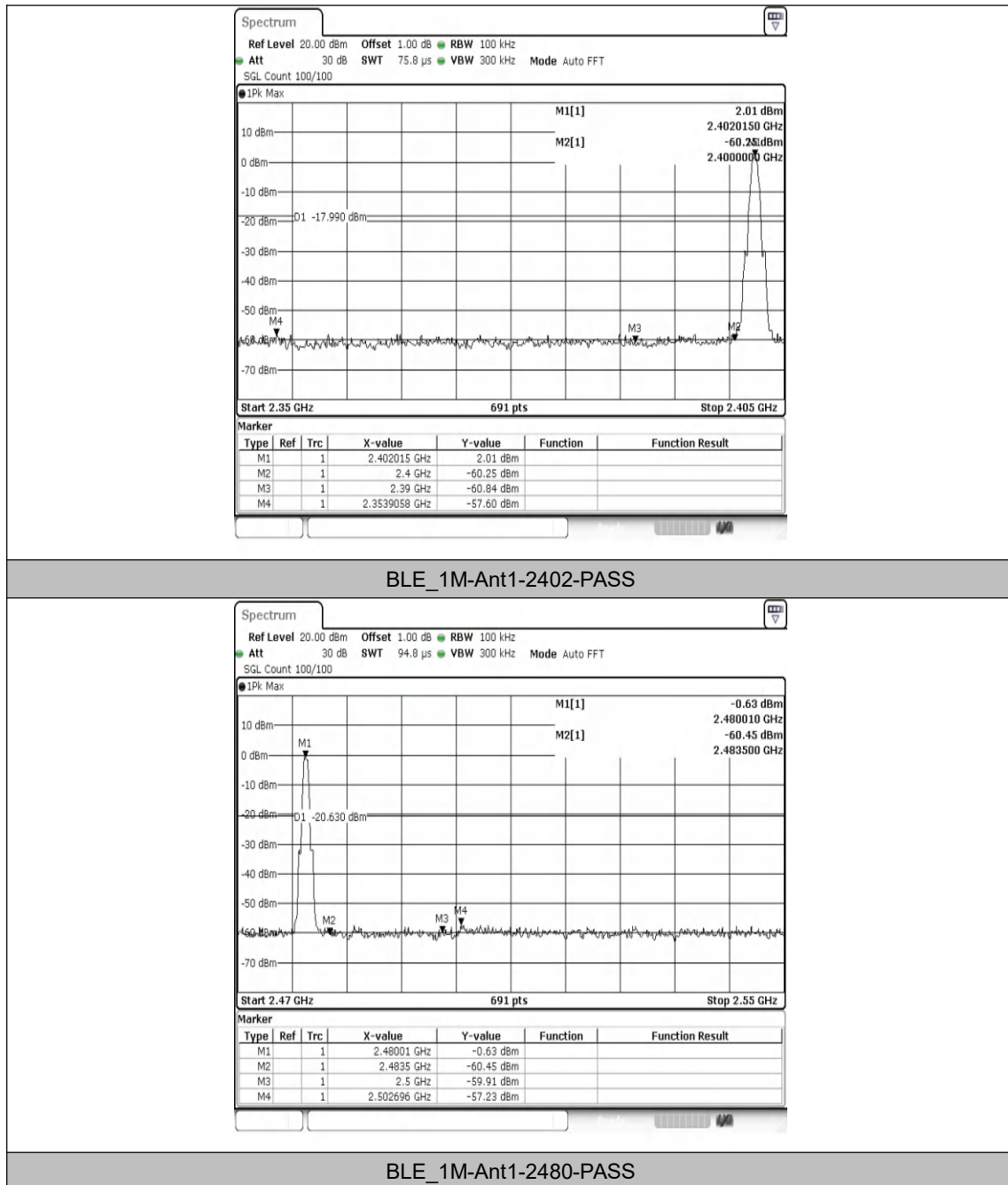
Appendix E: Band edge measurements

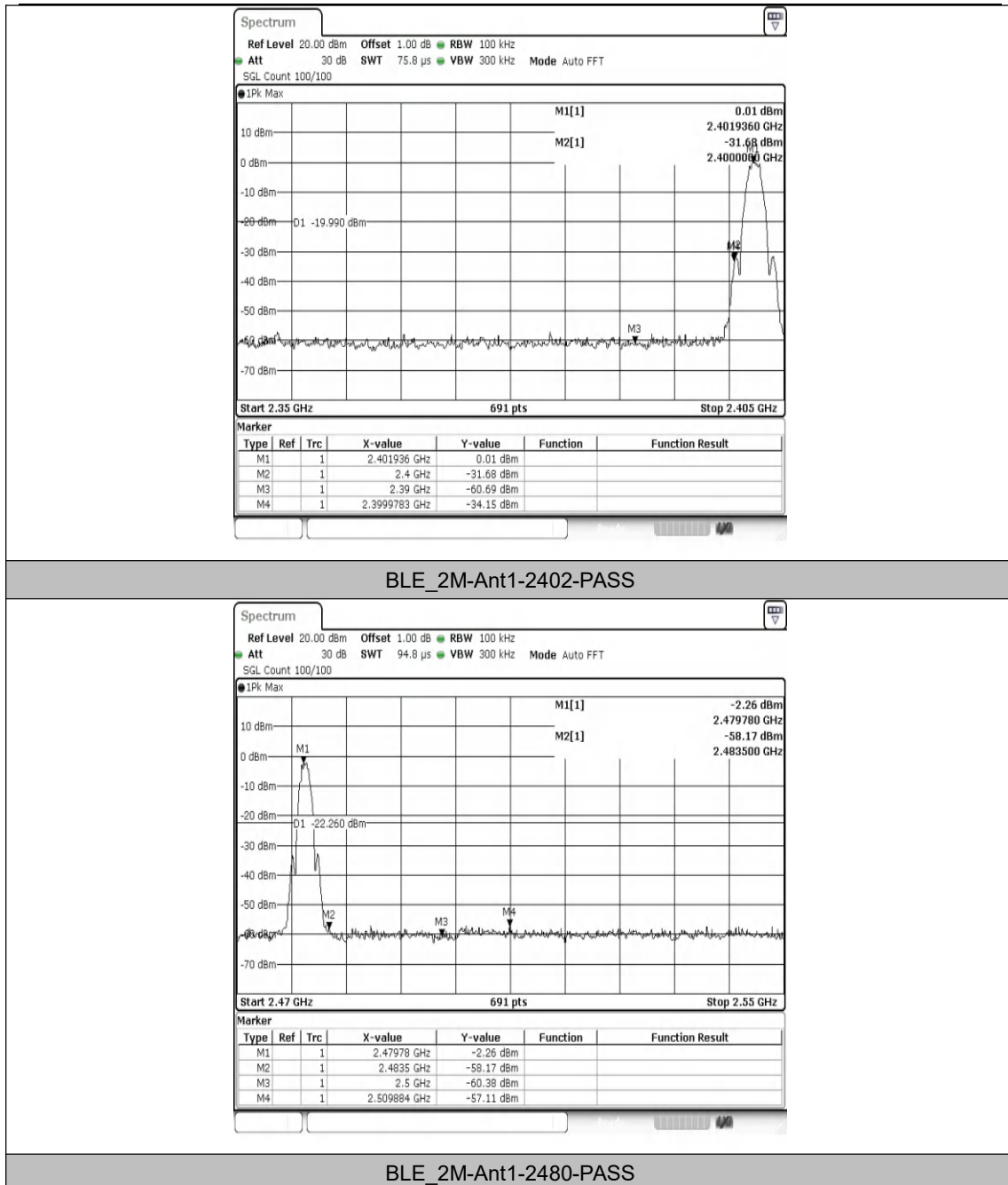
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.01	-57.6	≤-17.99	PASS
BLE_1M	Ant1	High	2480	-0.63	-57.23	≤-20.63	PASS
BLE_2M	Ant1	Low	2402	0.01	-34.15	≤-19.99	PASS
BLE_2M	Ant1	High	2480	-2.26	-57.11	≤-22.26	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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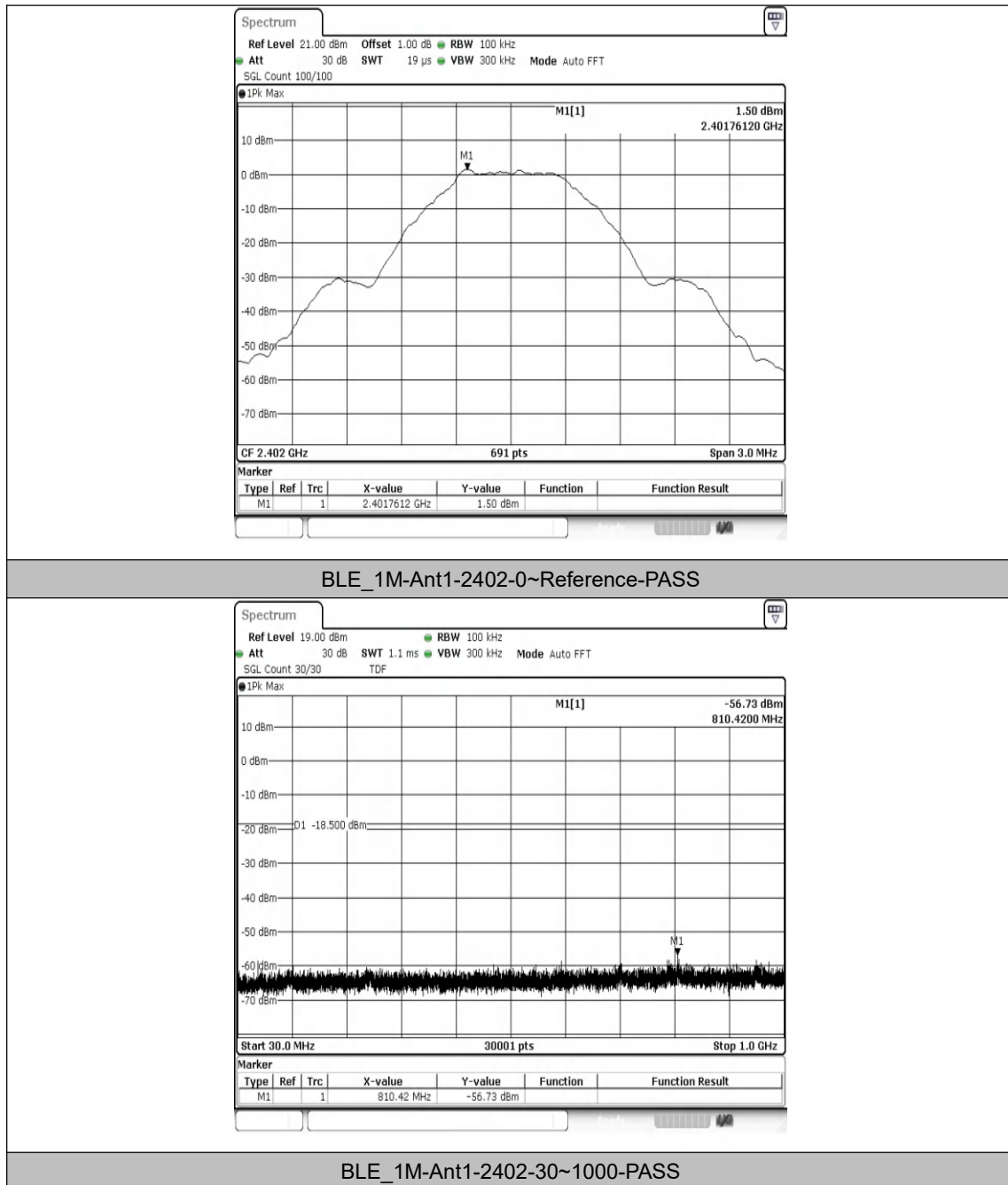
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	1.50	1.50	---	PASS
BLE_1M	Ant1	2402	30~1000	1.50	-56.73	≤-18.5	PASS
BLE_1M	Ant1	2402	1000~26500	1.50	-42.37	≤-18.5	PASS
BLE_1M	Ant1	2440	0~Reference	0.17	0.17	---	PASS
BLE_1M	Ant1	2440	30~1000	0.17	-56.72	≤-19.83	PASS
BLE_1M	Ant1	2440	1000~26500	0.17	-42.61	≤-19.83	PASS
BLE_1M	Ant1	2480	0~Reference	-1.35	-1.35	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.35	-57.66	≤-21.35	PASS
BLE_1M	Ant1	2480	1000~26500	-1.35	-41.86	≤-21.35	PASS
BLE_2M	Ant1	2402	0~Reference	0.58	0.58	---	PASS
BLE_2M	Ant1	2402	30~1000	0.58	-58.41	≤-19.42	PASS
BLE_2M	Ant1	2402	1000~26500	0.58	-43.08	≤-19.42	PASS
BLE_2M	Ant1	2440	0~Reference	-0.99	-0.99	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.99	-58.07	≤-20.99	PASS
BLE_2M	Ant1	2440	1000~26500	-0.99	-44.17	≤-20.99	PASS
BLE_2M	Ant1	2480	0~Reference	-2.63	-2.63	---	PASS
BLE_2M	Ant1	2480	30~1000	-2.63	-57.89	≤-22.63	PASS
BLE_2M	Ant1	2480	1000~26500	-2.63	-44.23	≤-22.63	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.

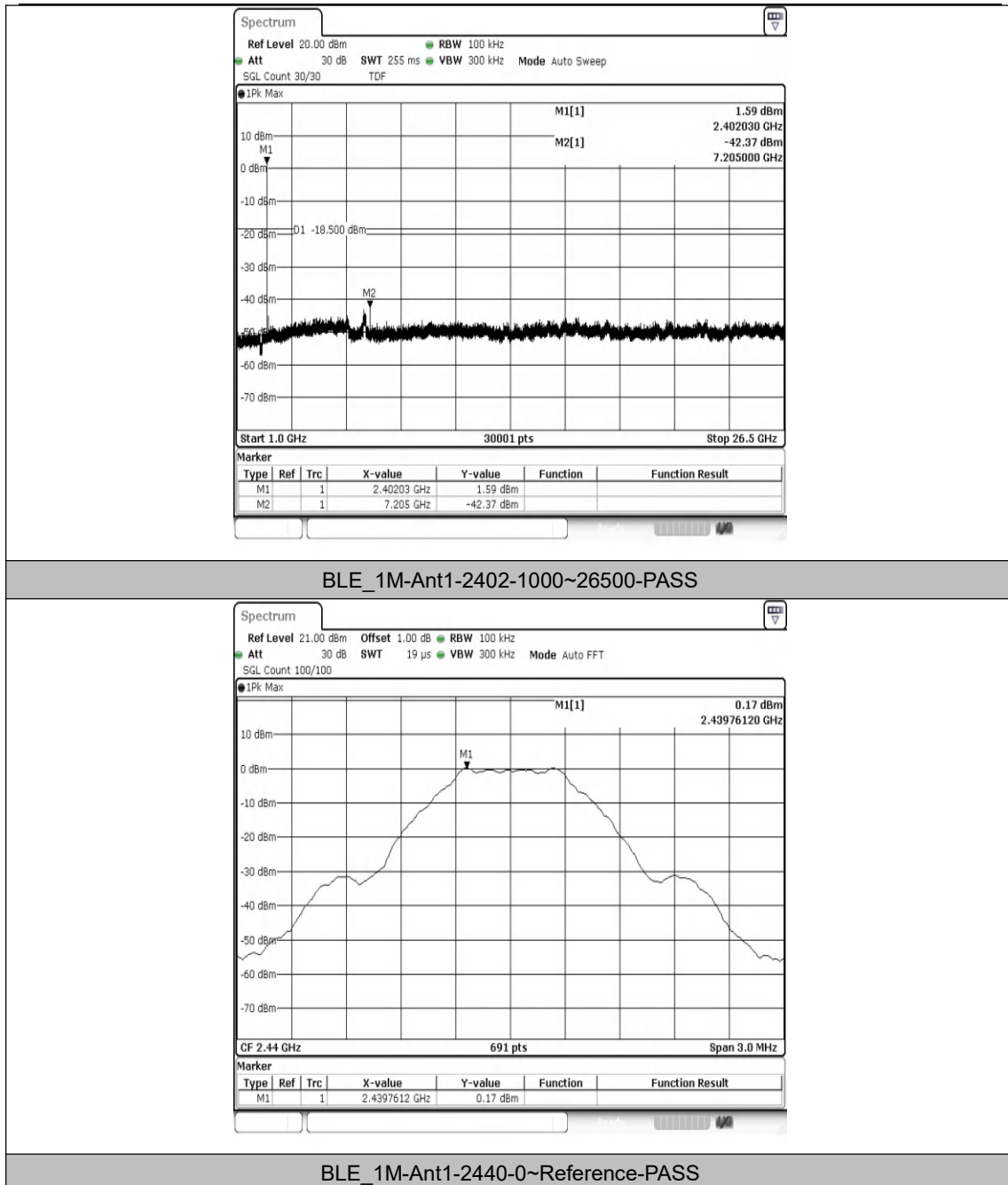
Test Graphs

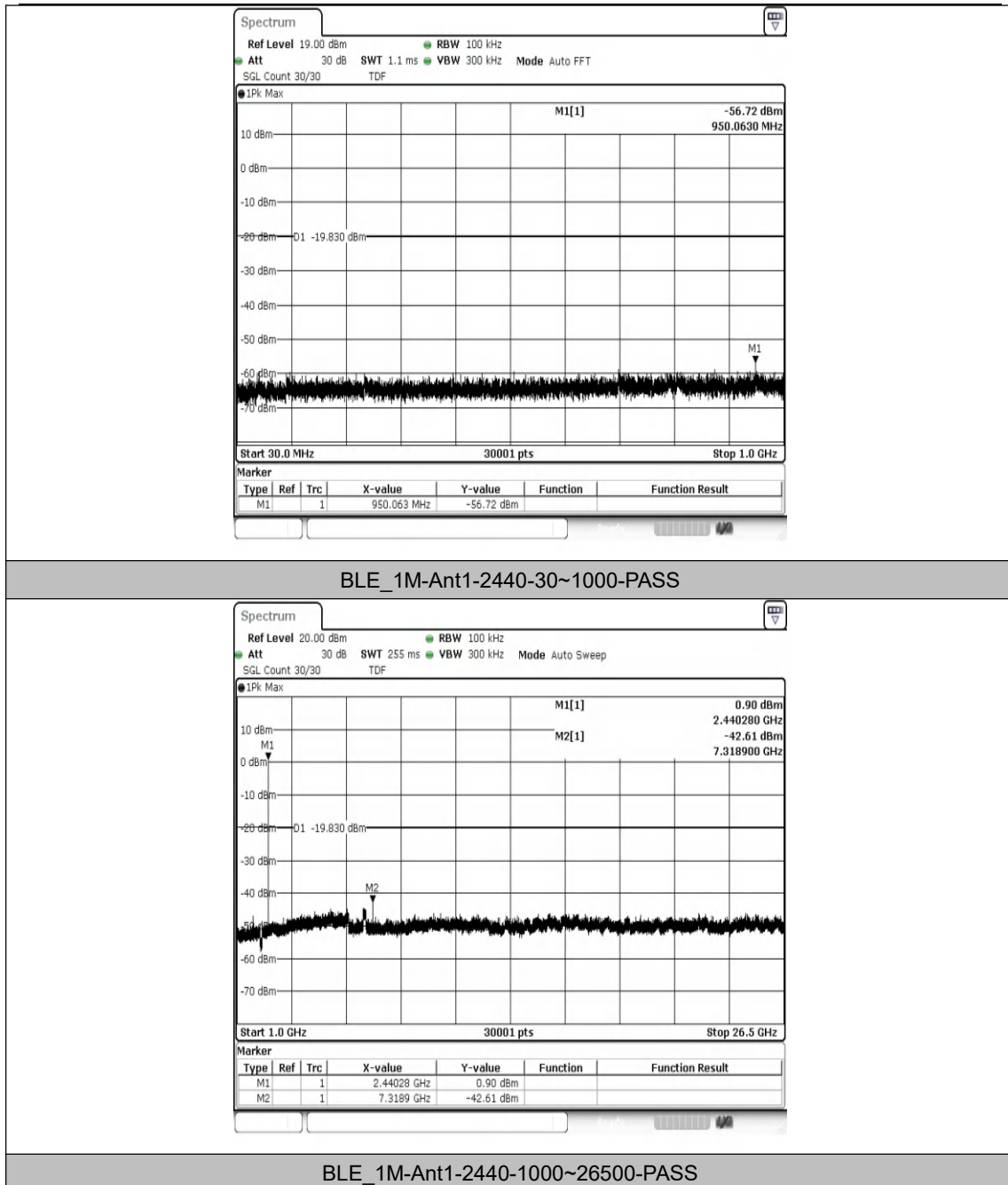


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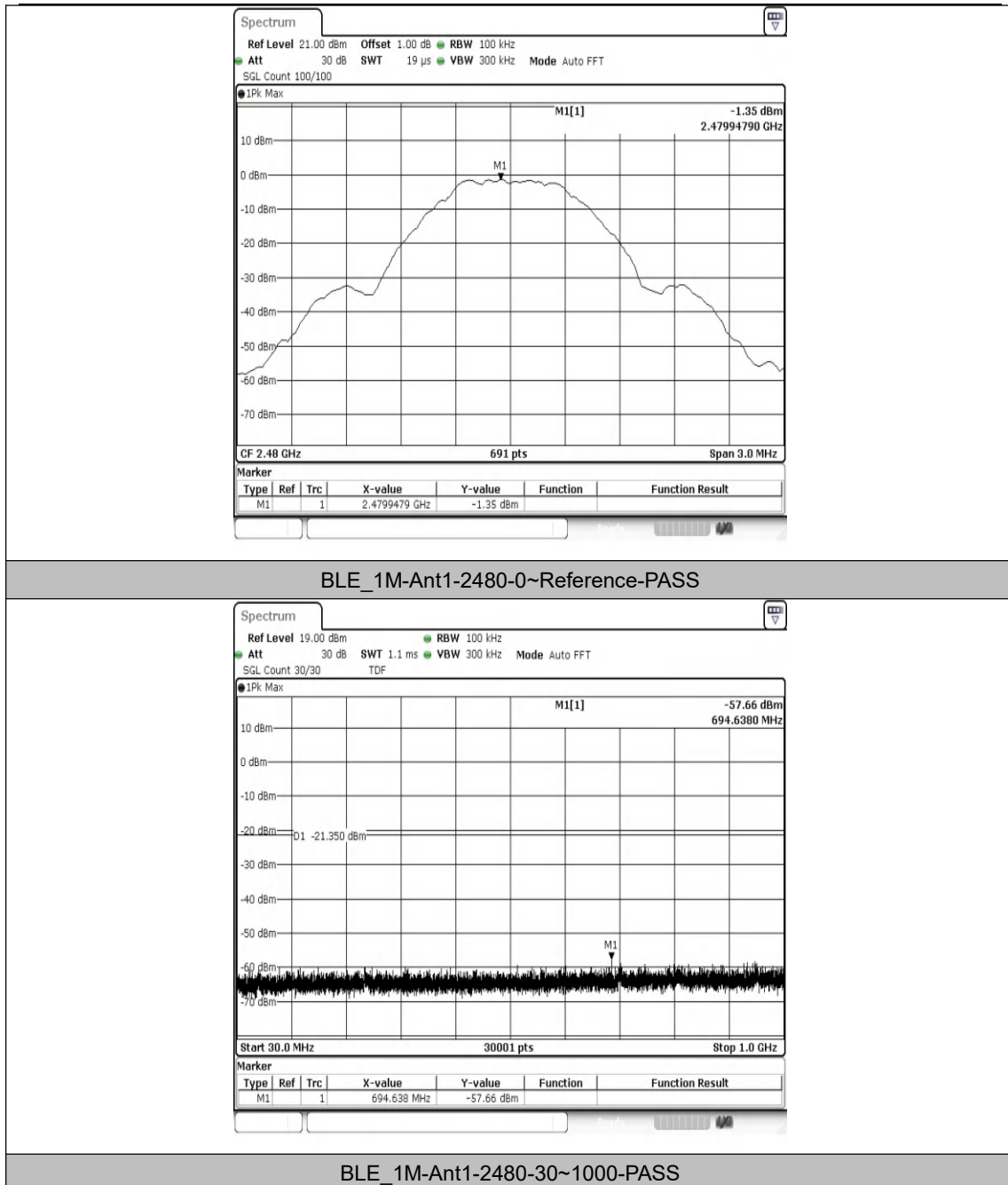




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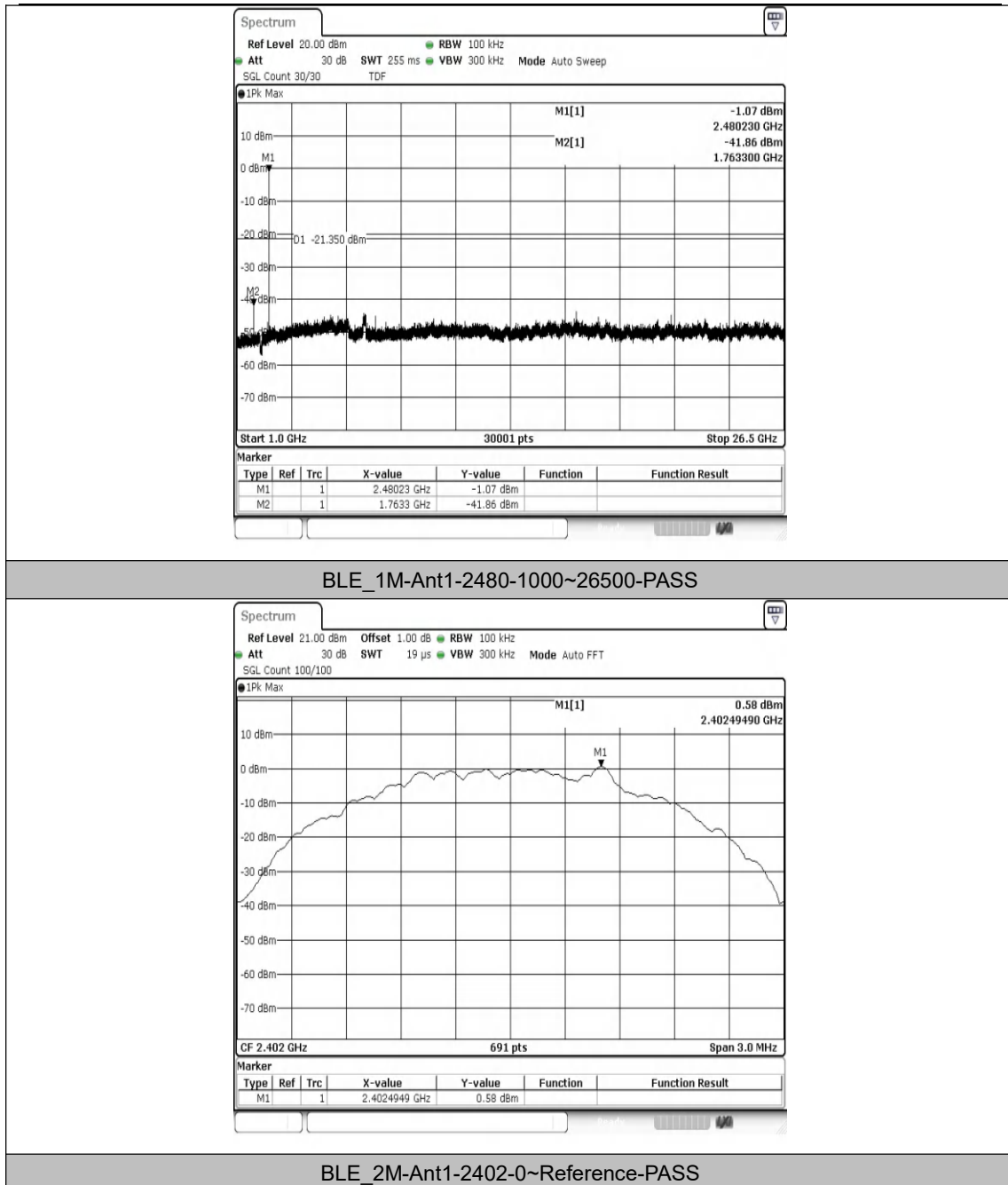
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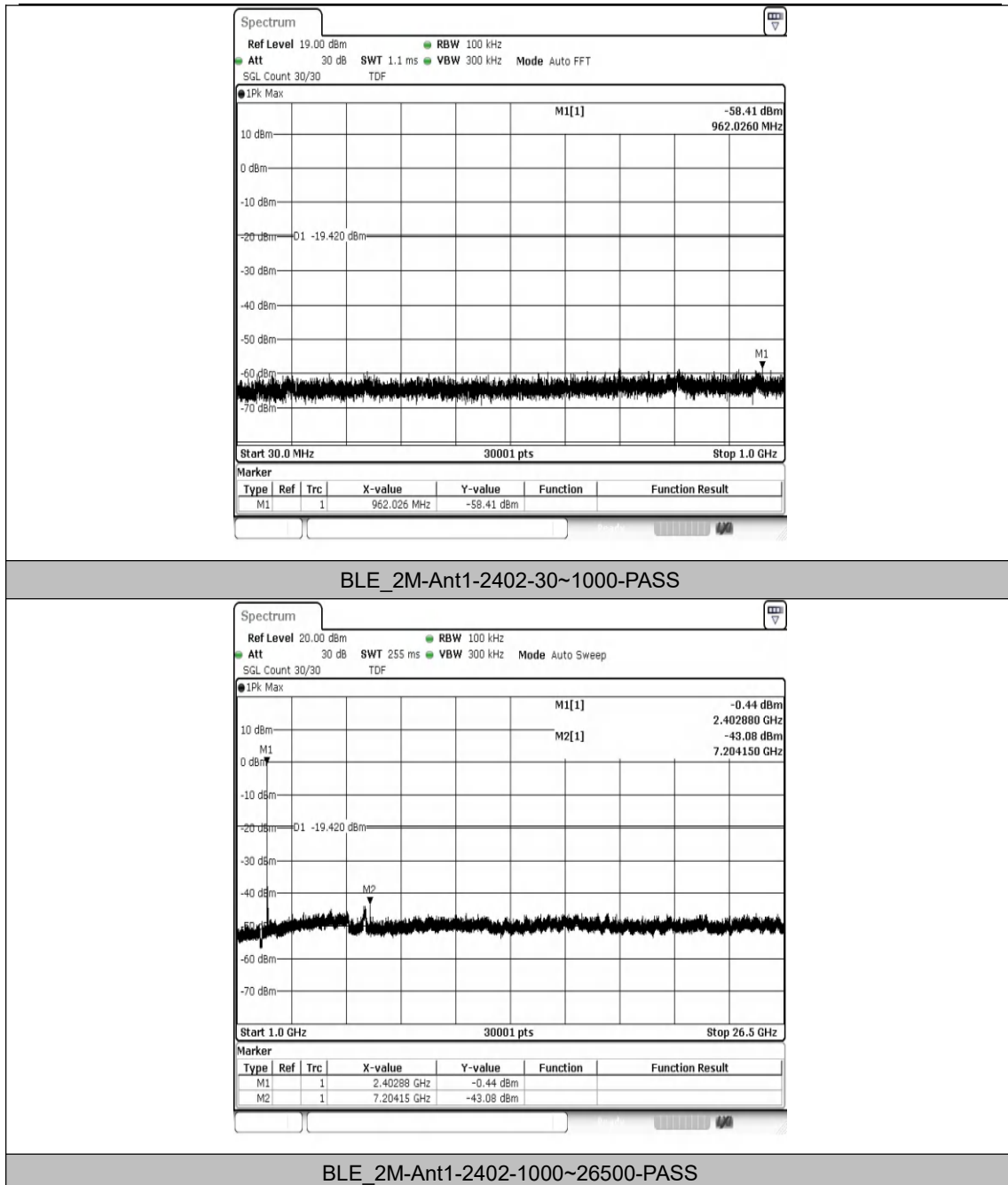
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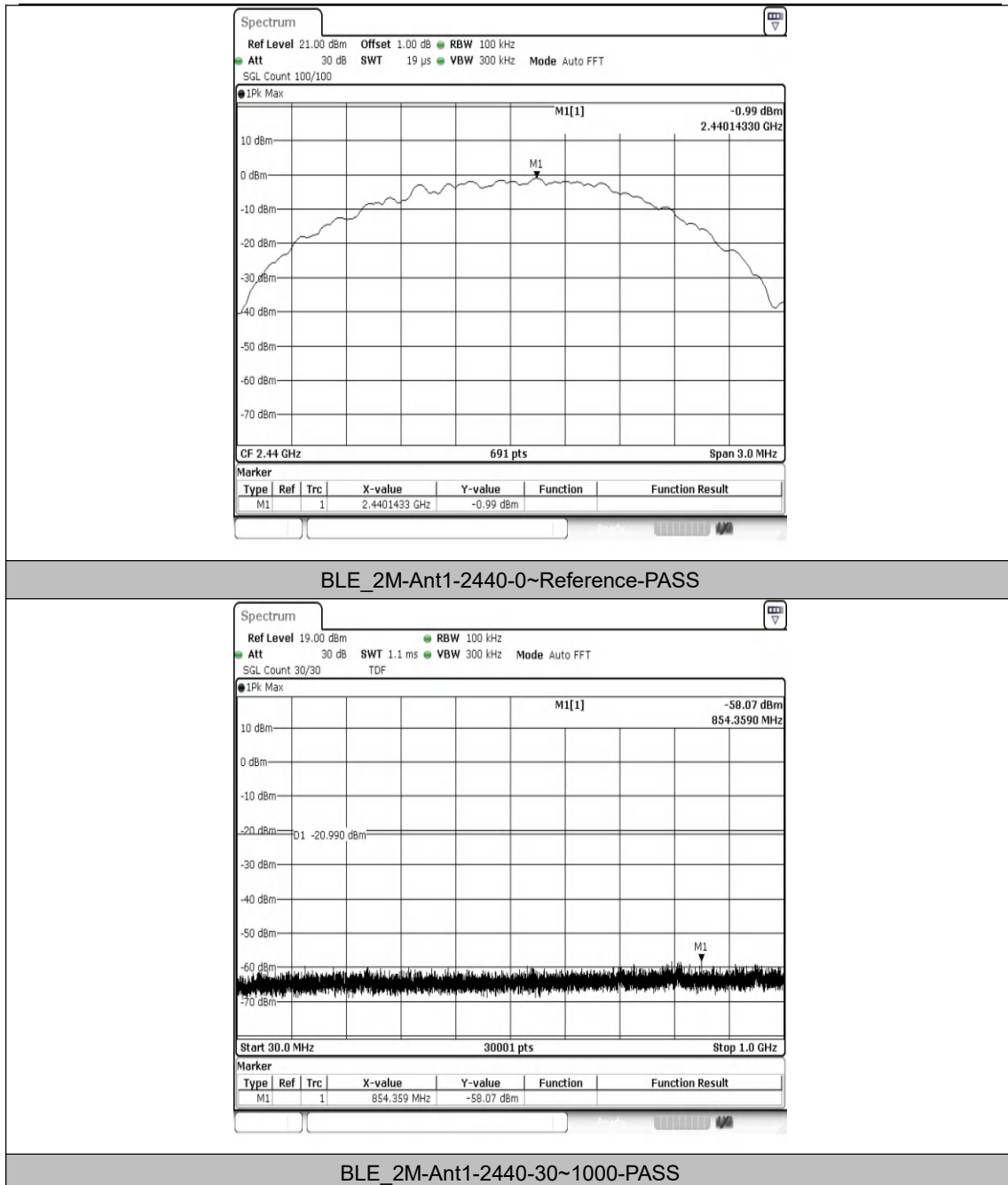
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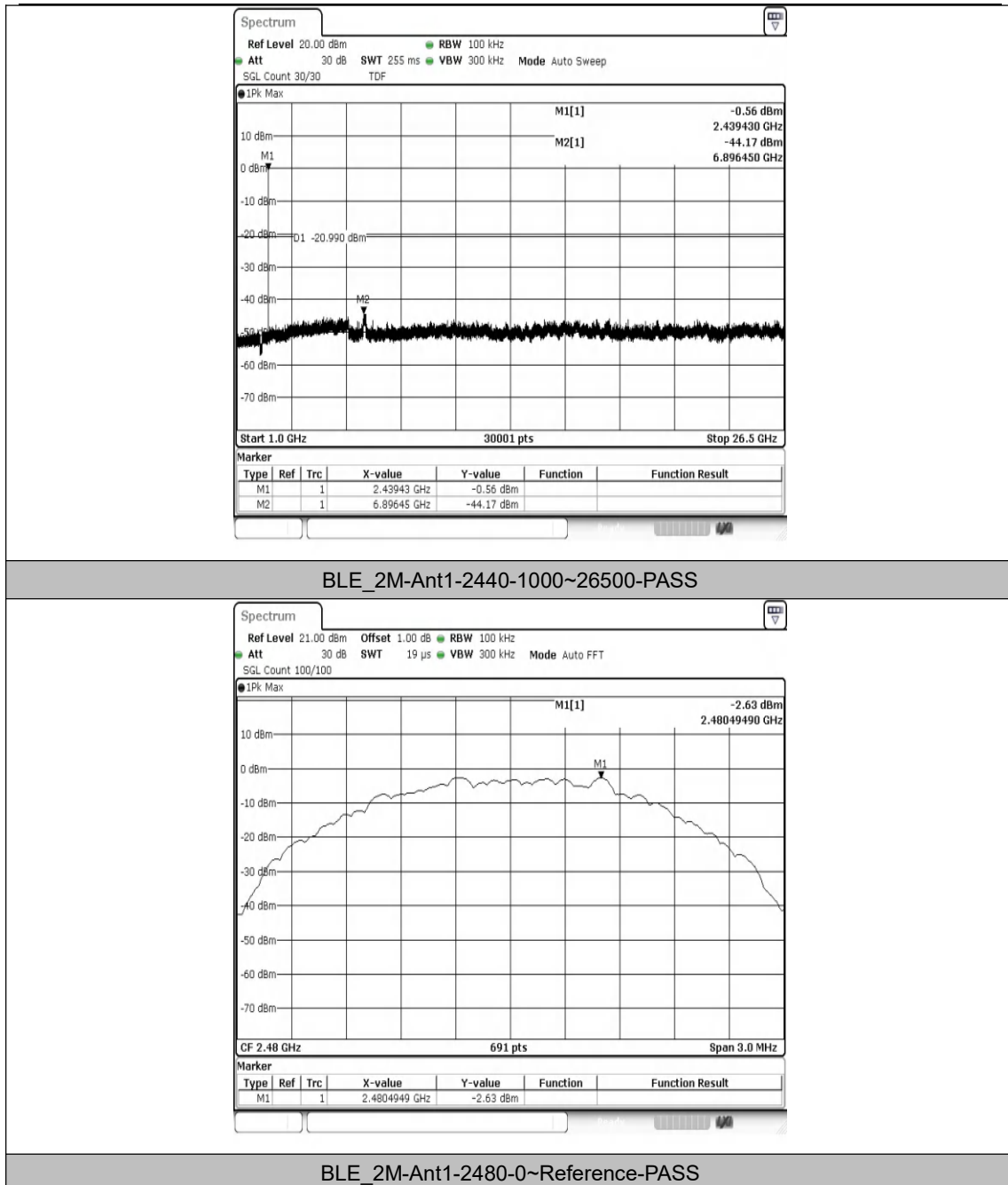
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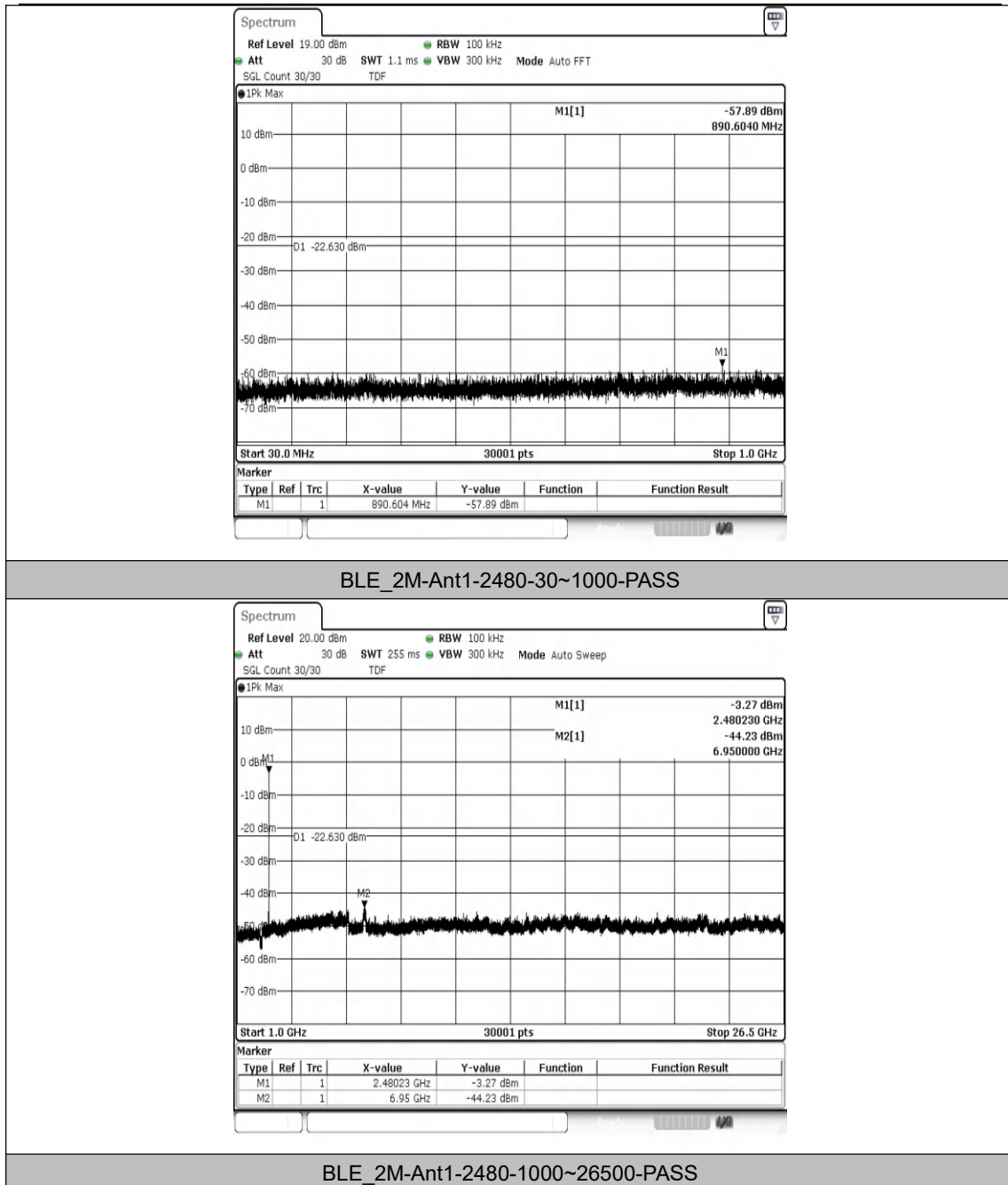
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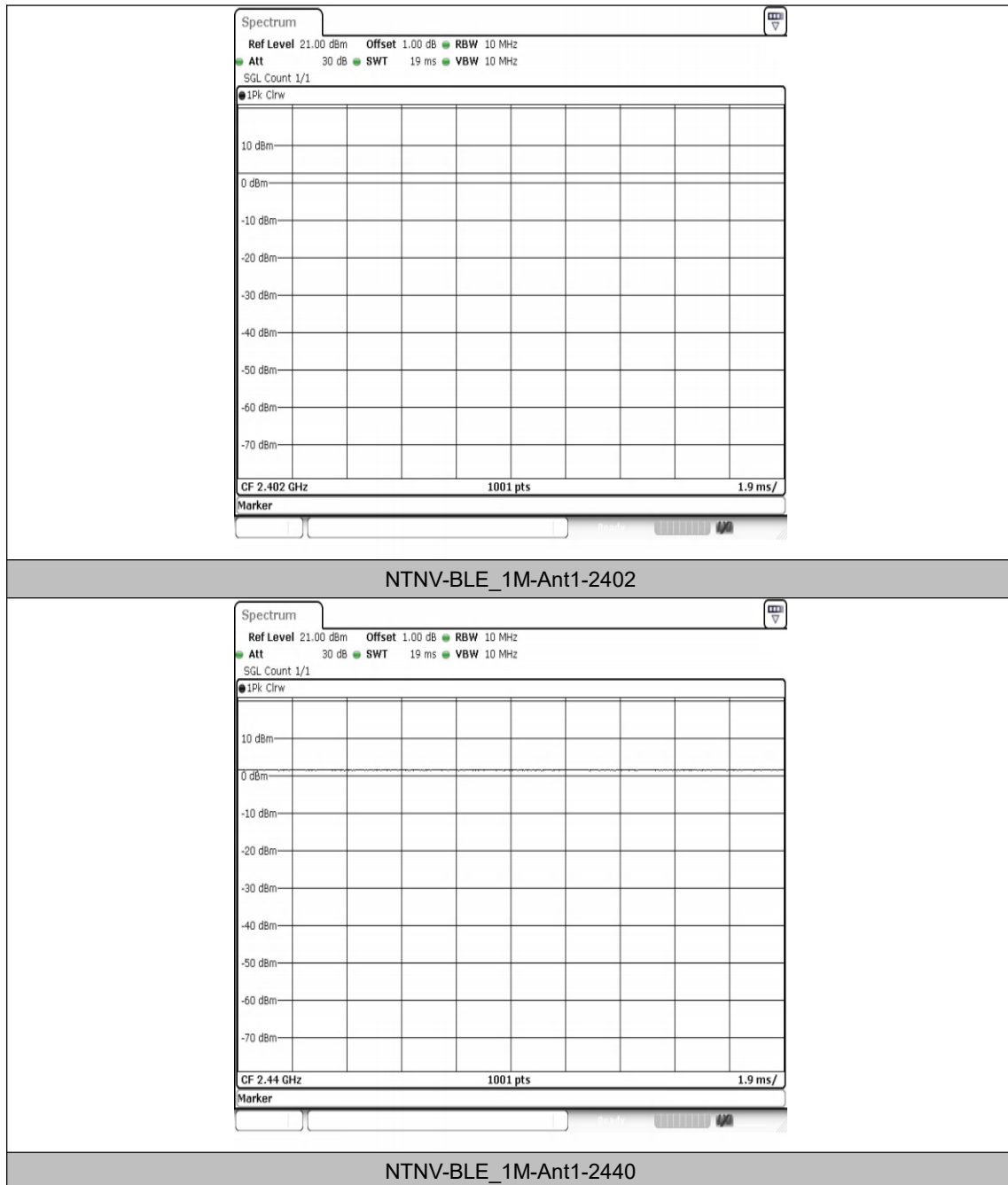
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	19.00	19.00	100.00	0.00
BLE_1M	Ant1	2440	19.00	19.00	100.00	0.00
BLE_1M	Ant1	2480	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2402	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2440	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2480	19.00	19.00	100.00	0.00

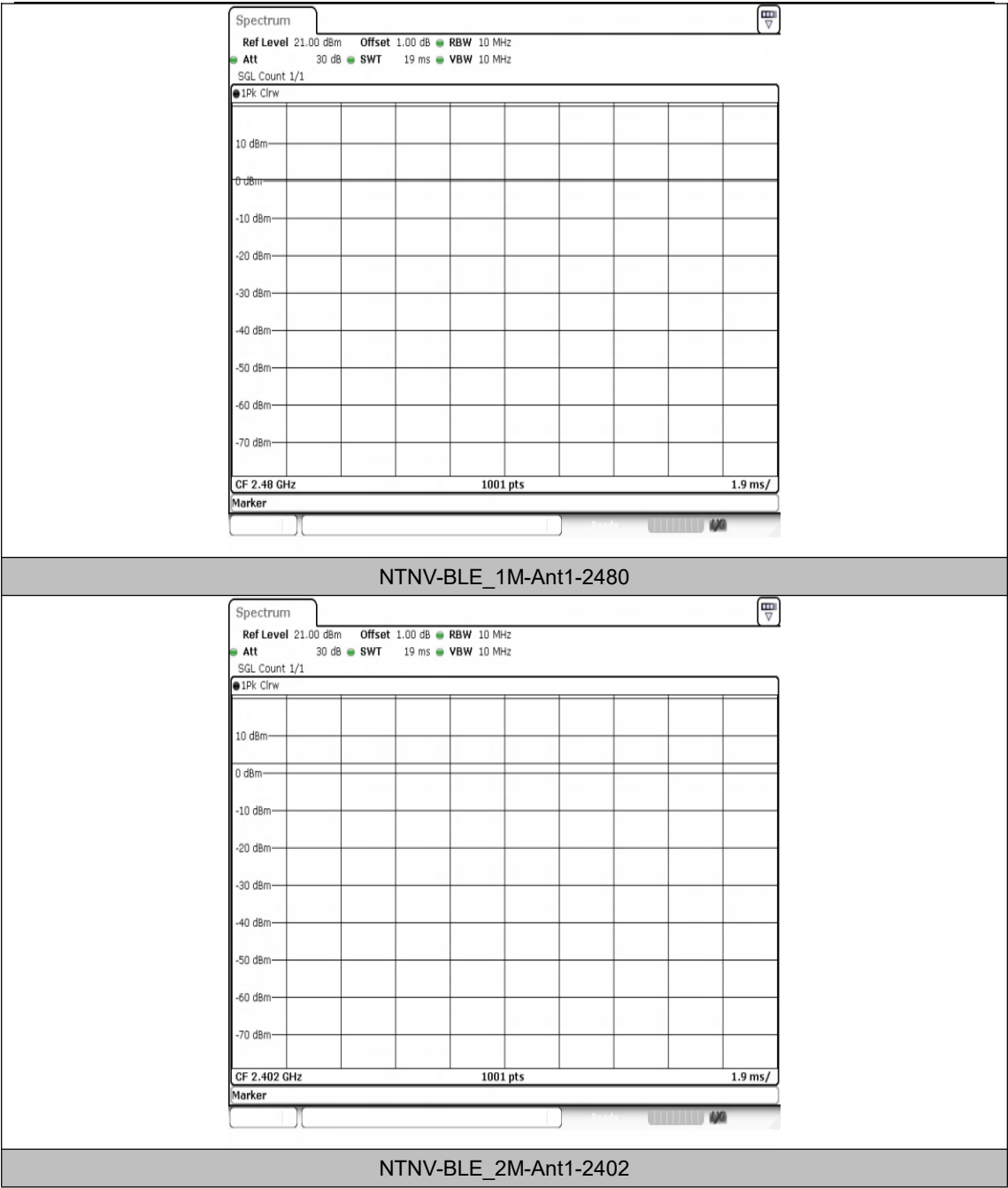
Test Graphs

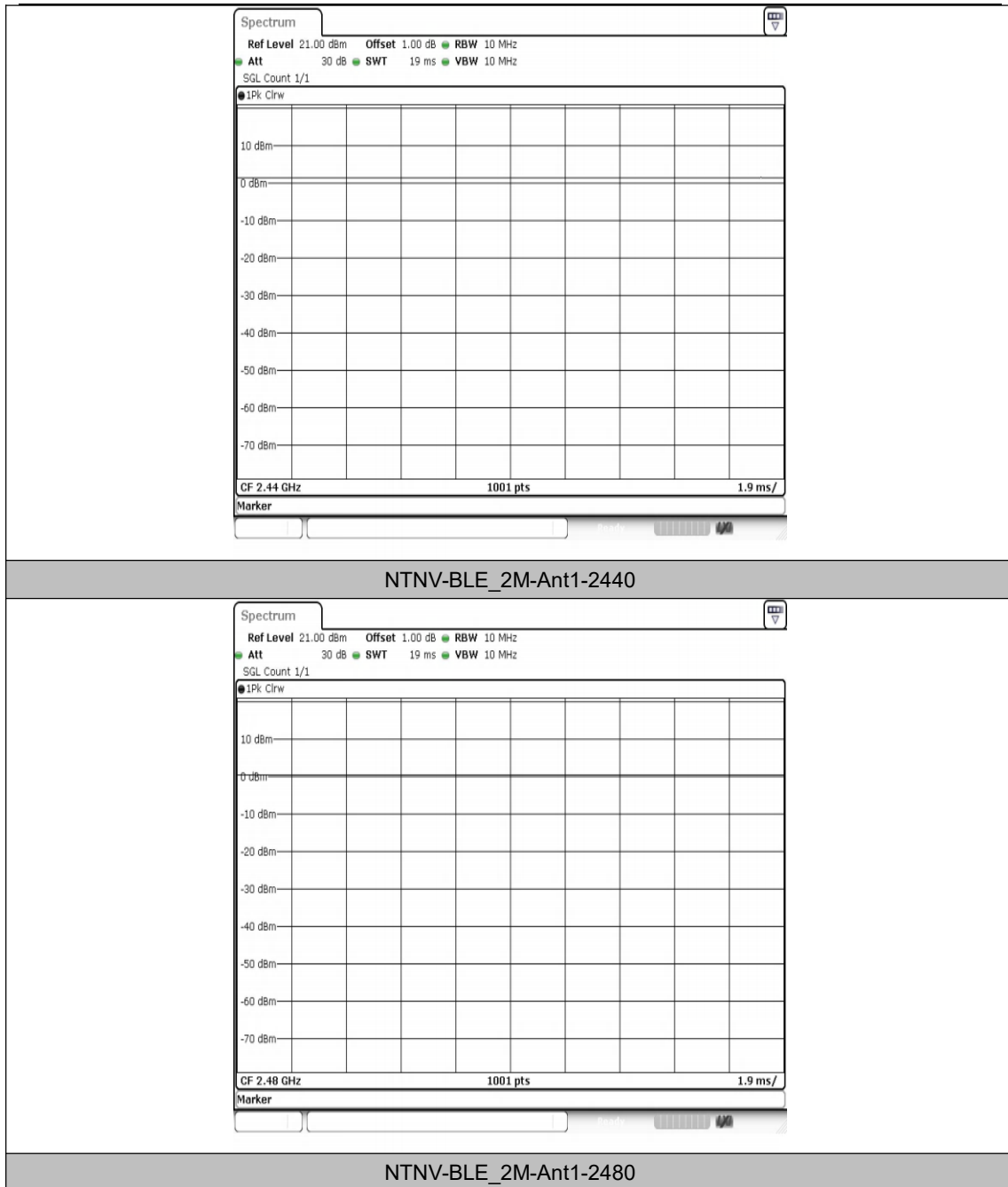


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