

Appendix Test Data

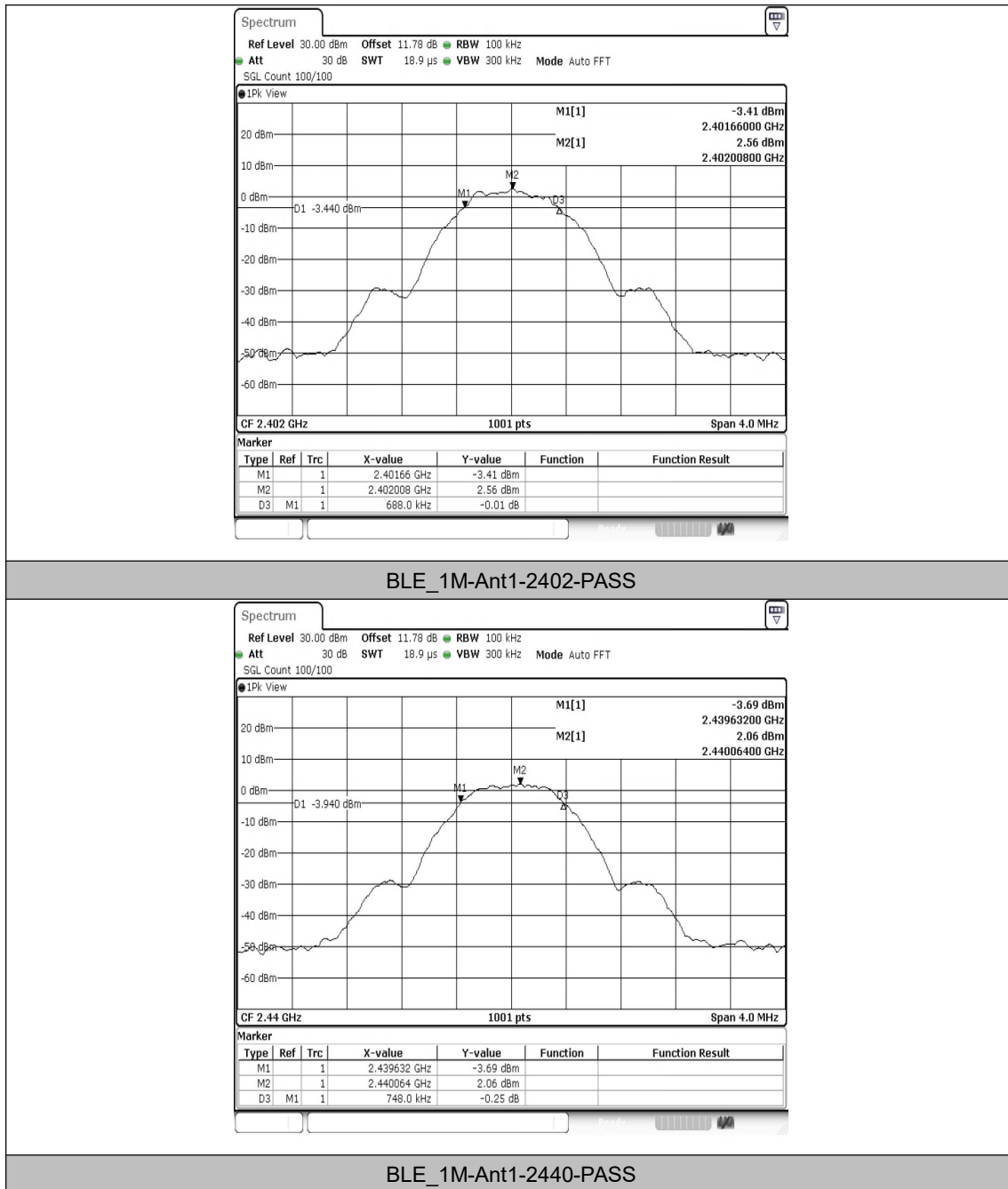
Report No.:	1812C40207012502	Test Sample No.:	1-2-2
Start Test Date:	2024-12-31	Finish Test Date:	2025-3-20
Test Engineer:	Hu Sen Guan	Auditor:	Justin Feng
Temperature:	23.0°C	Relative Humidity:	46%
Pressure:	101kPa		

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	2402.35	0.5	PASS
BLE_1M	Ant1	2440	0.75	2439.63	2440.38	0.5	PASS
BLE_1M	Ant1	2480	0.72	2479.66	2480.38	0.5	PASS
BLE_2M	Ant1	2402	1.15	2401.44	2402.59	0.5	PASS
BLE_2M	Ant1	2440	1.24	2439.43	2440.67	0.5	PASS
BLE_2M	Ant1	2480	1.11	2479.44	2480.55	0.5	PASS

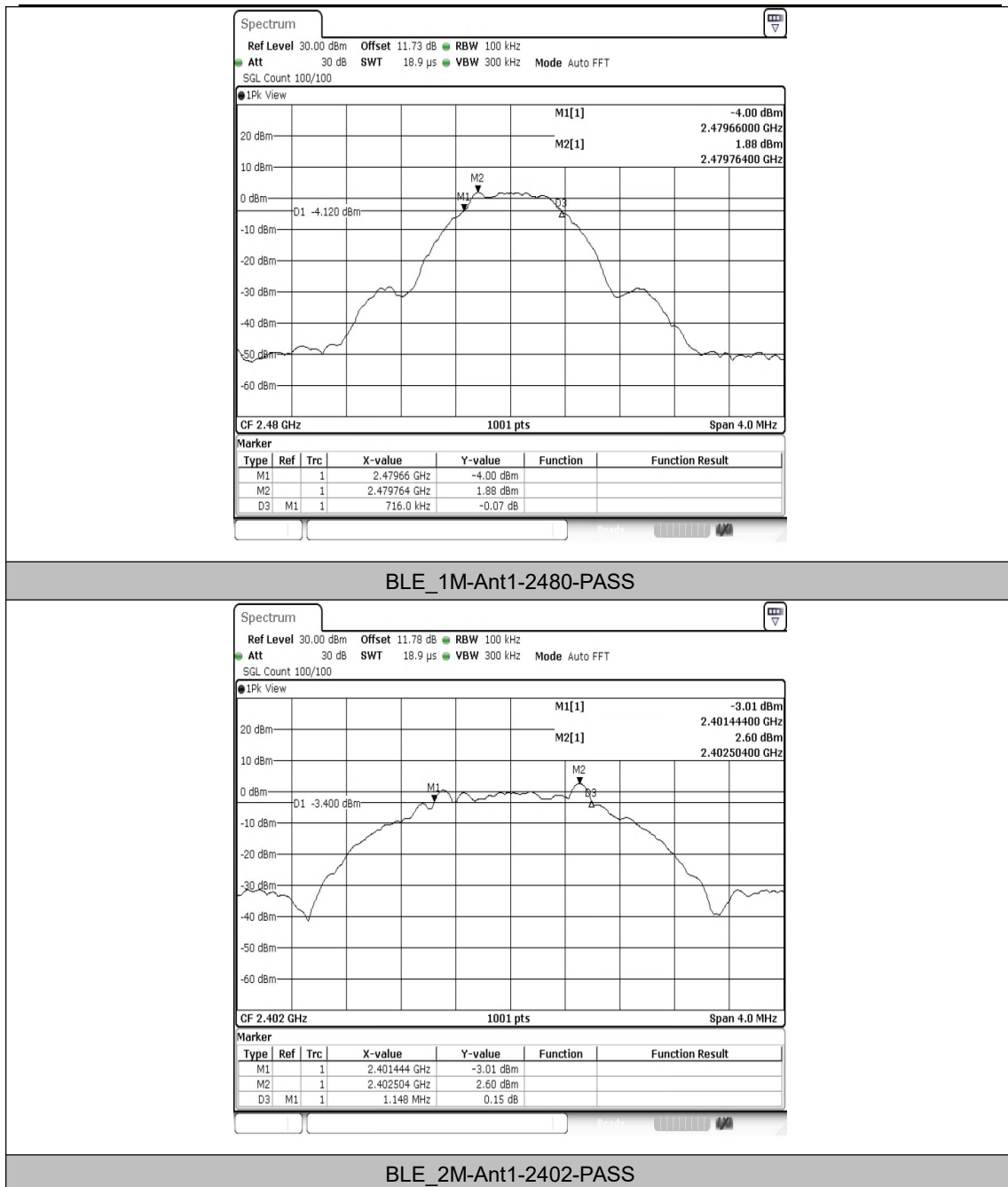
Test Graphs

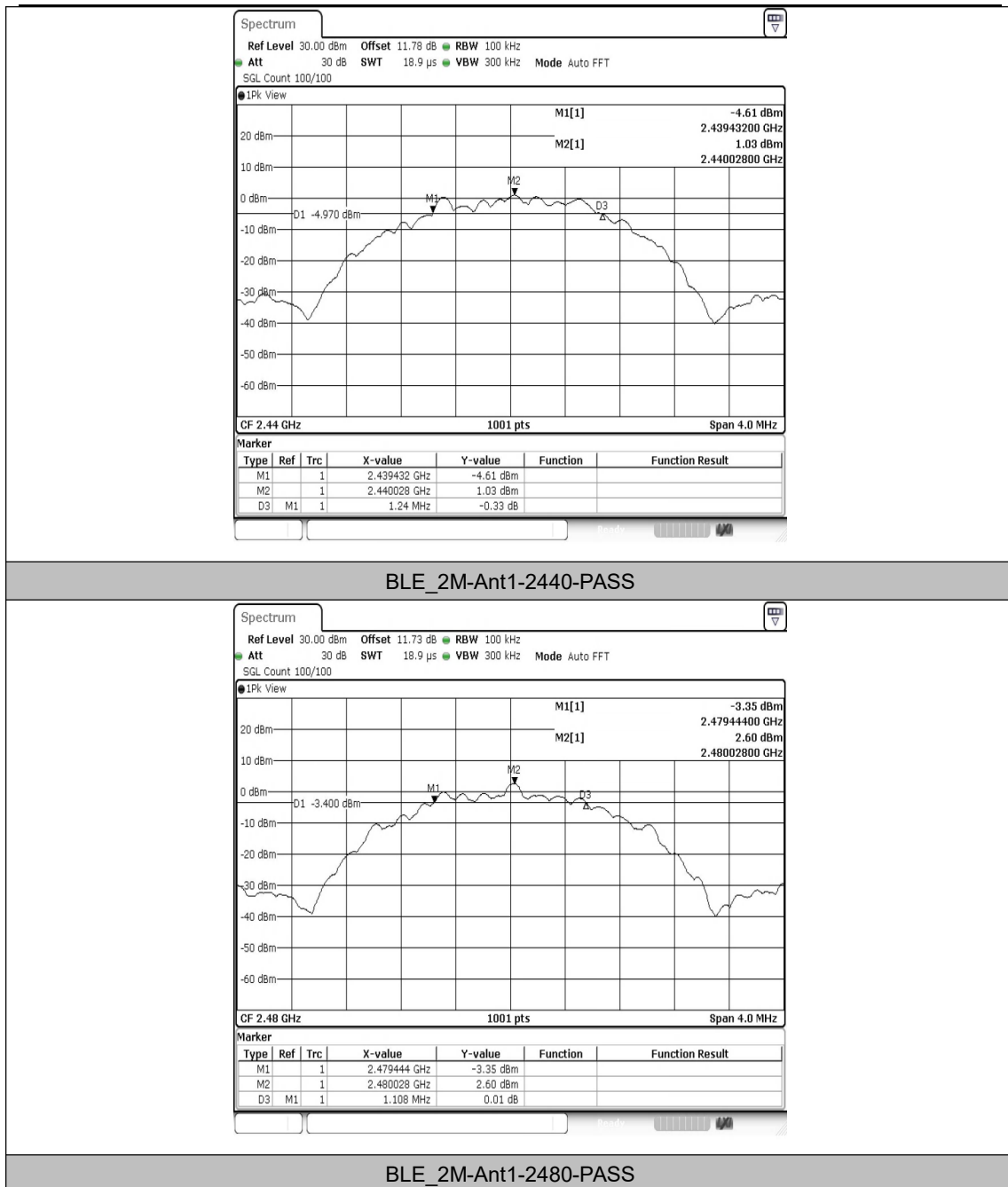


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Appendix B: 99% Occupied Bandwidth

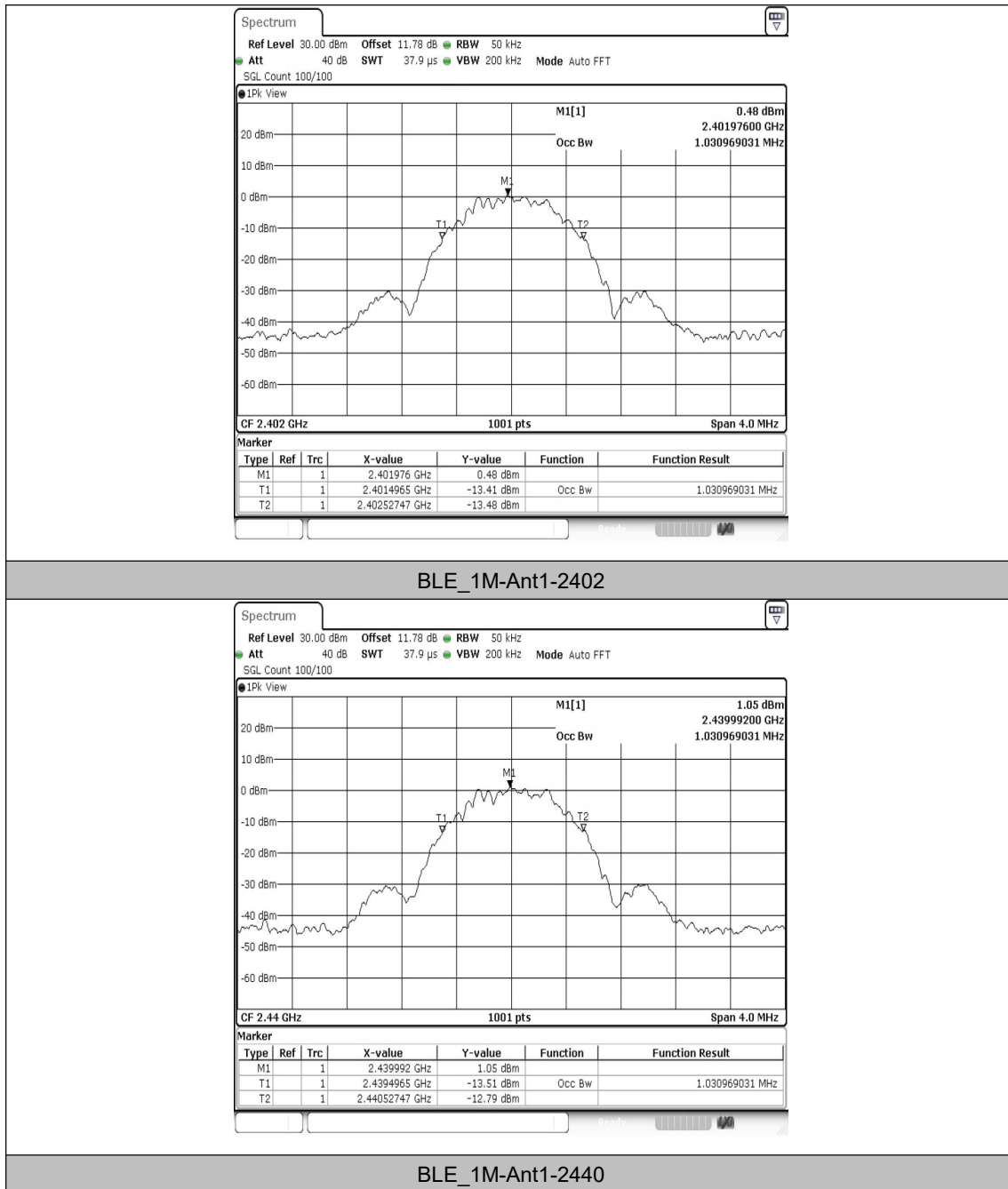
Test Result

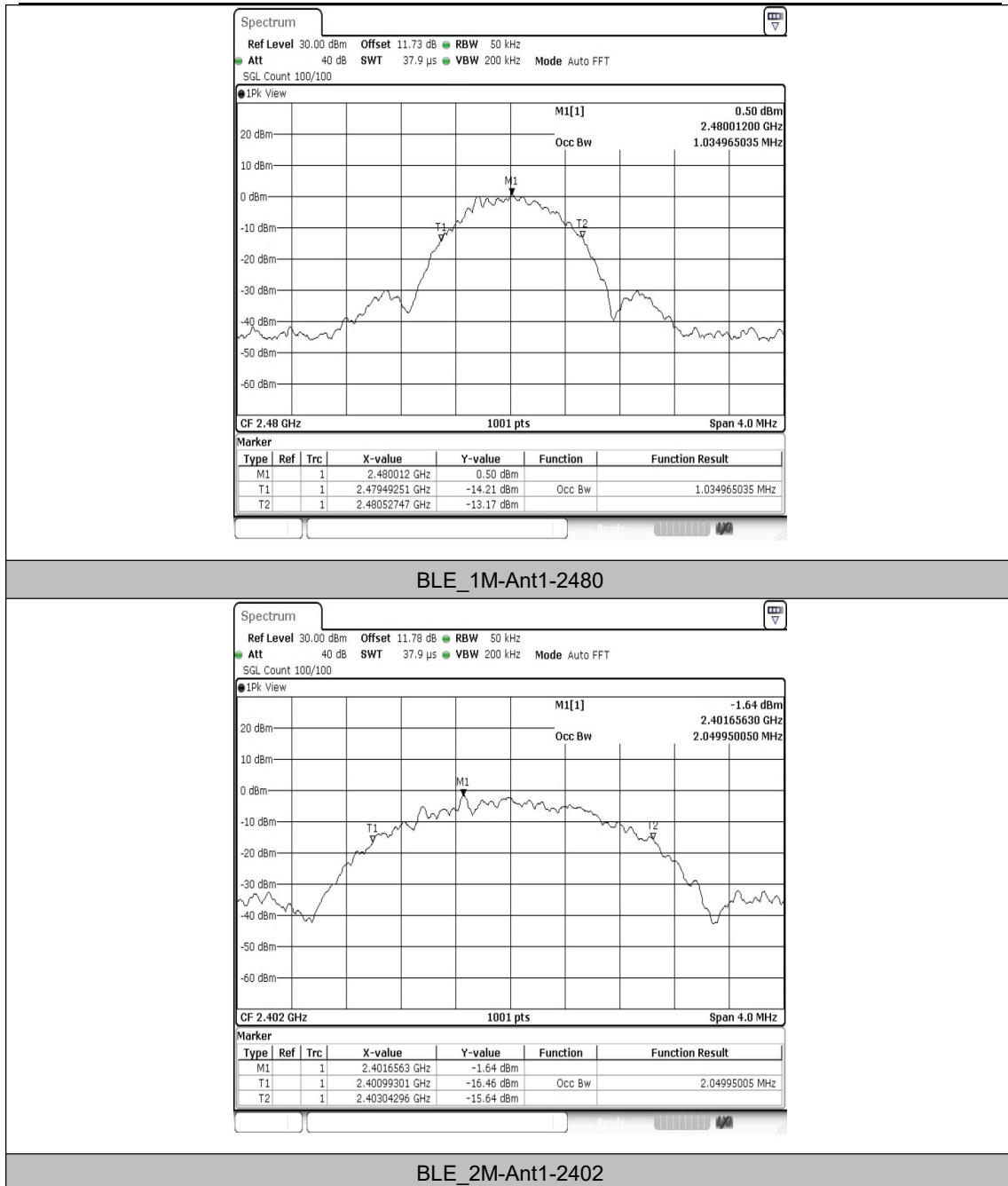
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.031	2401.4965	2402.5275	---	---
BLE_1M	Ant1	2440	1.031	2439.4965	2440.5275	---	---
BLE_1M	Ant1	2480	1.035	2479.4925	2480.5275	---	---
BLE_2M	Ant1	2402	2.05	2400.9930	2403.0430	---	---
BLE_2M	Ant1	2440	2.038	2439.0010	2441.0390	---	---
BLE_2M	Ant1	2480	2.058	2478.9930	2481.0509	---	---

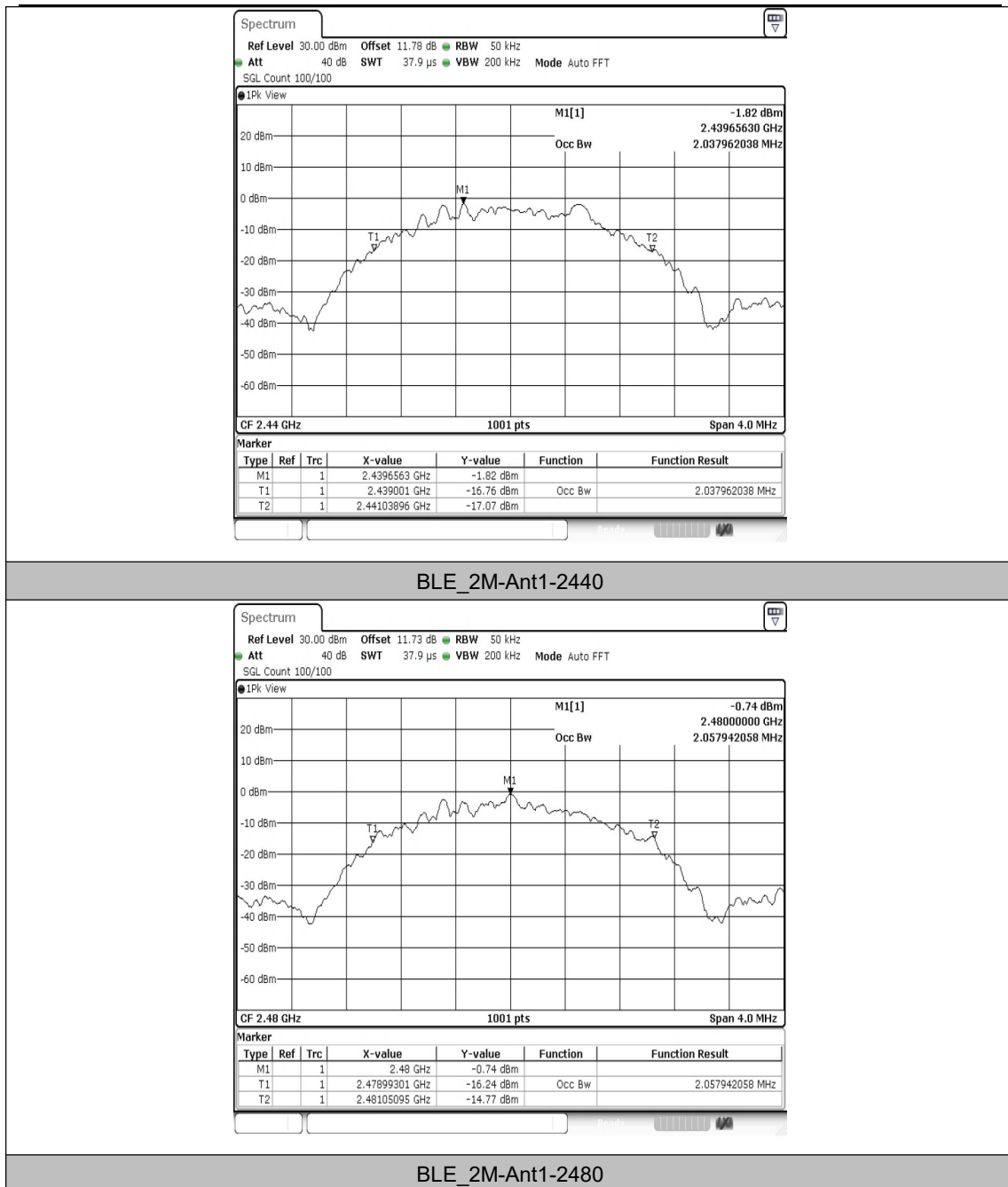
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Test Graphs





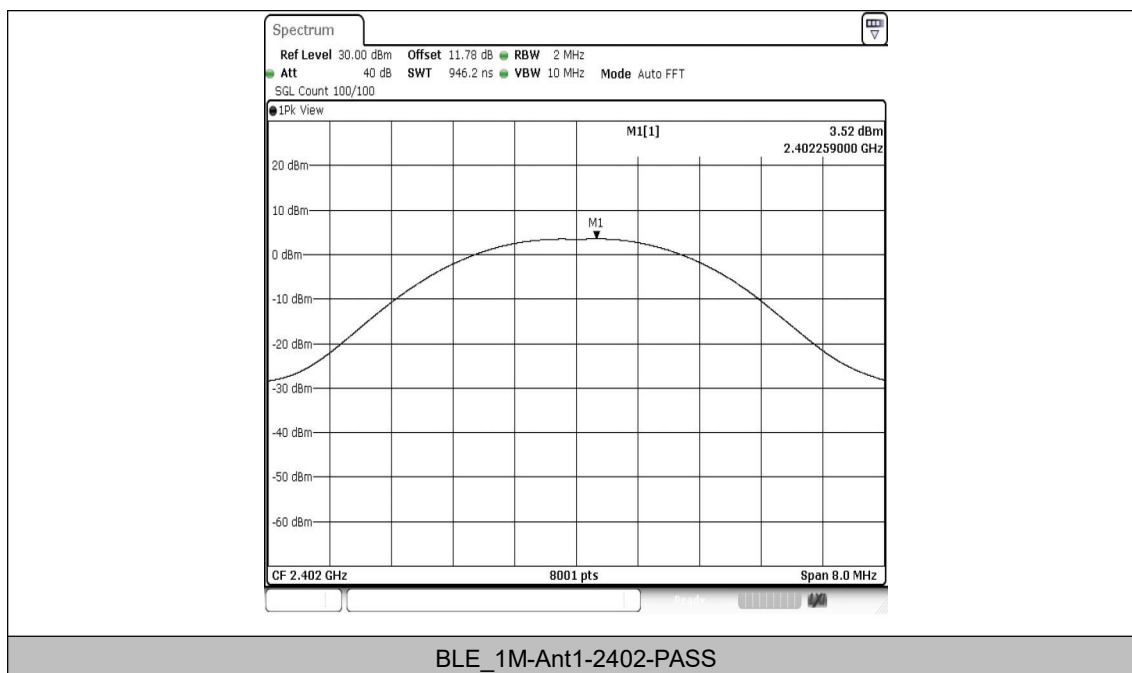


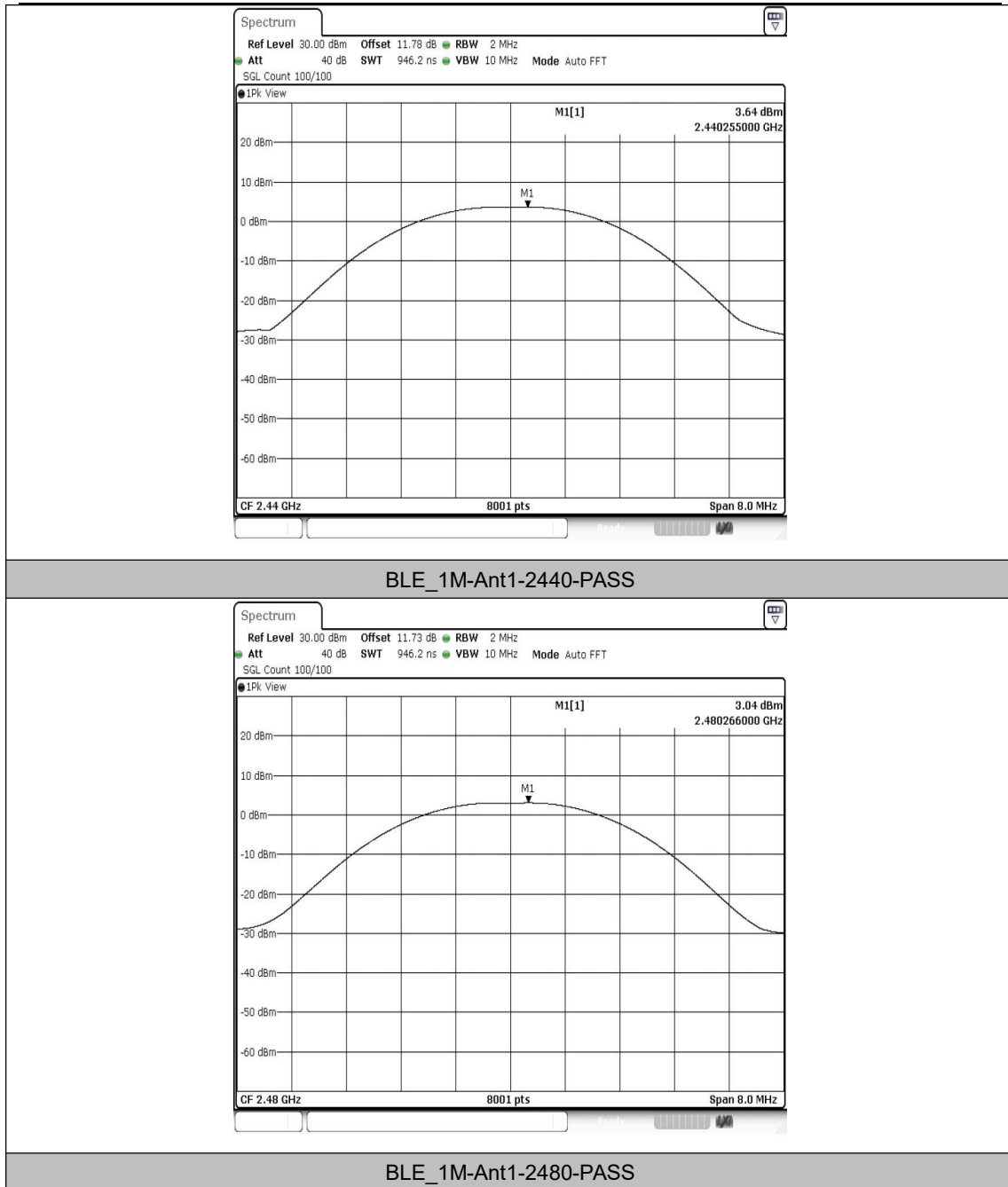
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.52	≤30	PASS
BLE_1M	Ant1	2440	3.64	≤30	PASS
BLE_1M	Ant1	2480	3.04	≤30	PASS
BLE_2M	Ant1	2402	3.52	≤30	PASS
BLE_2M	Ant1	2440	3.62	≤30	PASS
BLE_2M	Ant1	2480	3.09	≤30	PASS

Test Graphs Peak

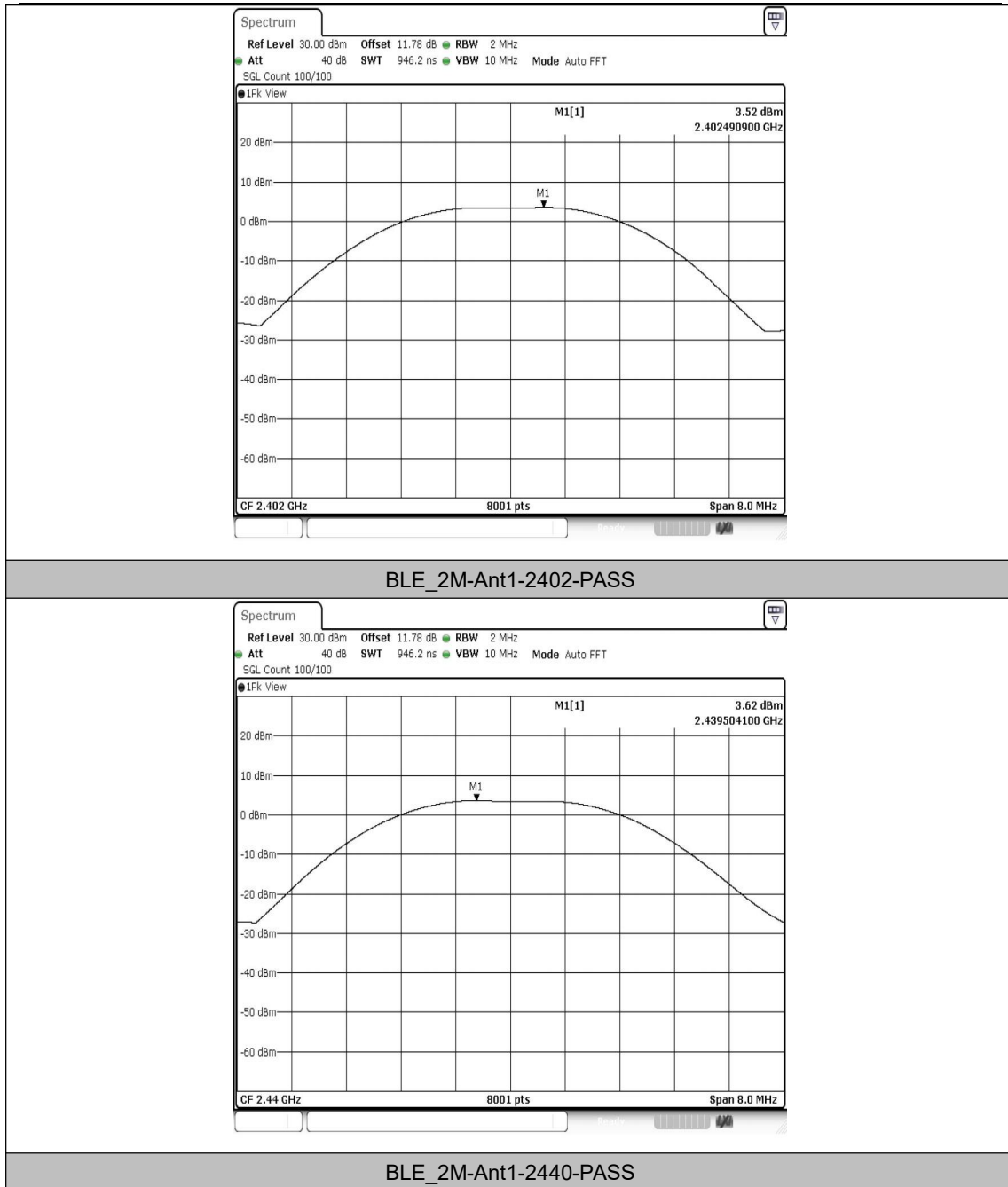




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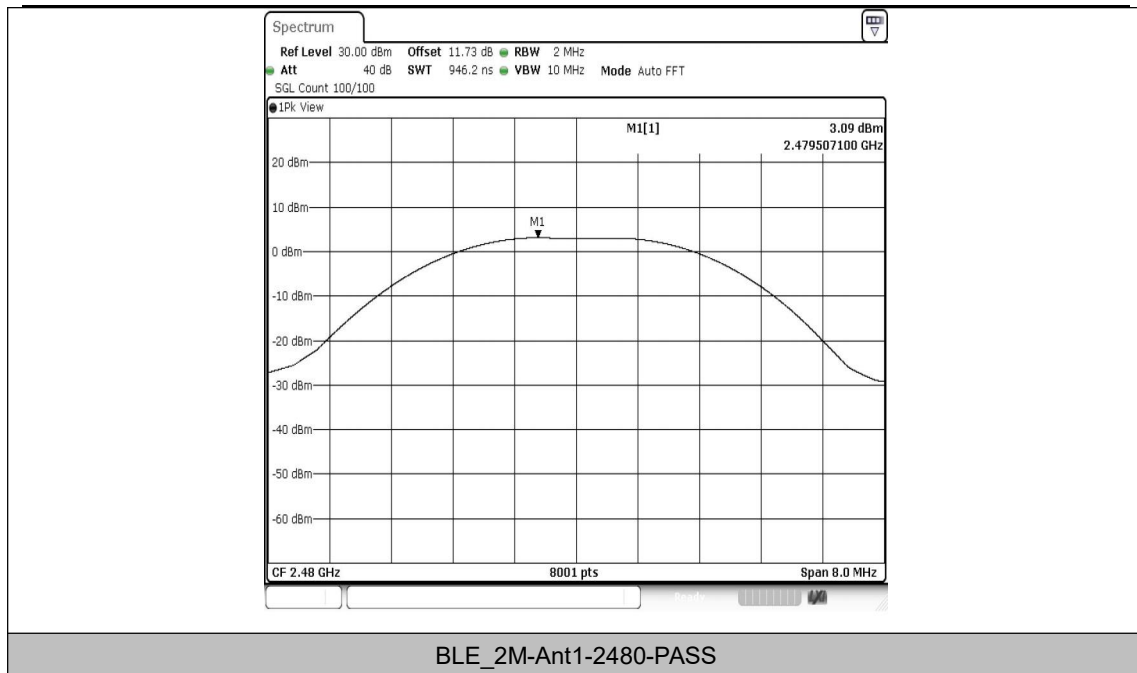
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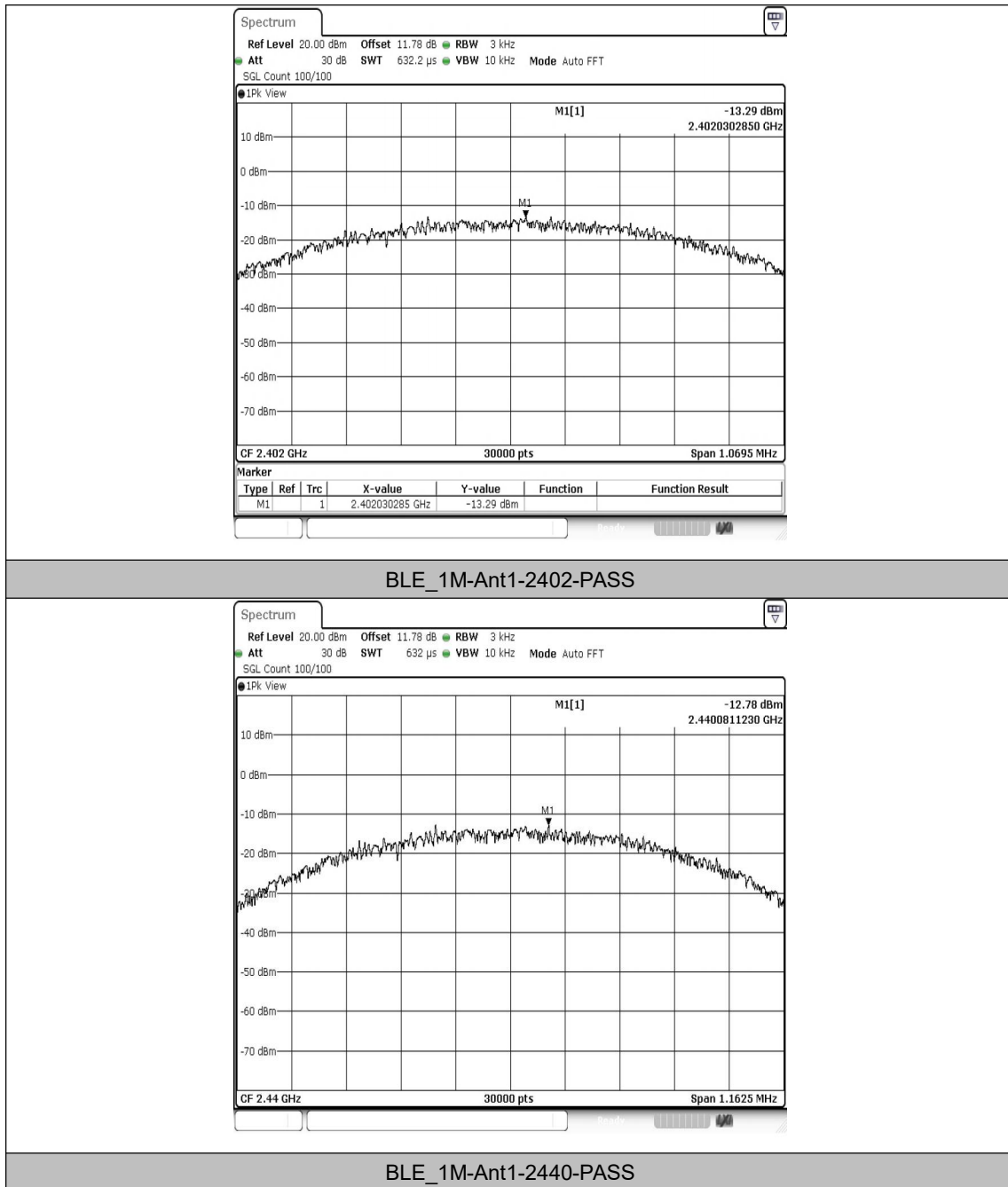
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.29	≤8.00	PASS
BLE_1M	Ant1	2440	-12.78	≤8.00	PASS
BLE_1M	Ant1	2480	-13.19	≤8.00	PASS
BLE_2M	Ant1	2402	-15.67	≤8.00	PASS
BLE_2M	Ant1	2440	-15.85	≤8.00	PASS
BLE_2M	Ant1	2480	-16.27	≤8.00	PASS

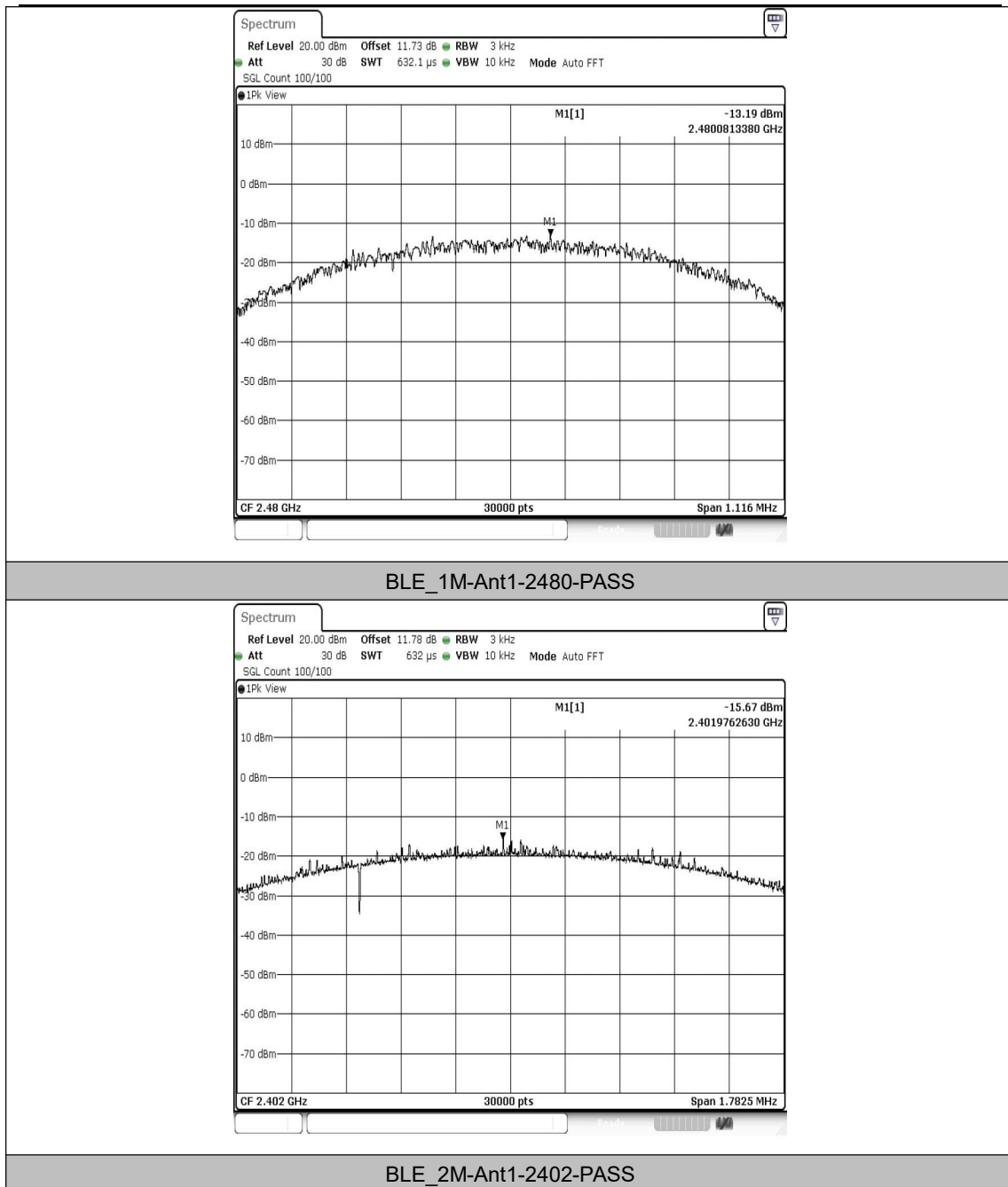
Test Graphs



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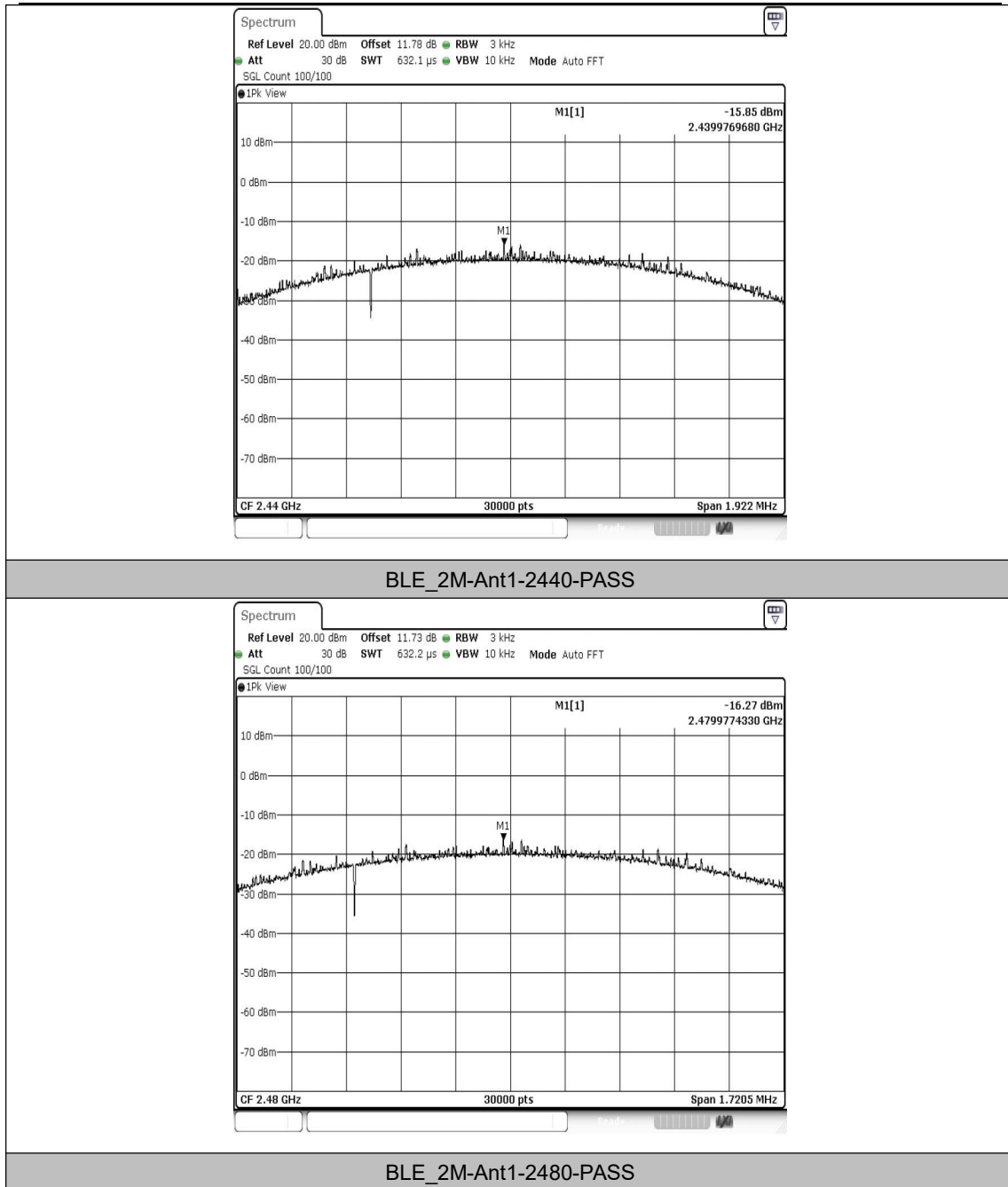
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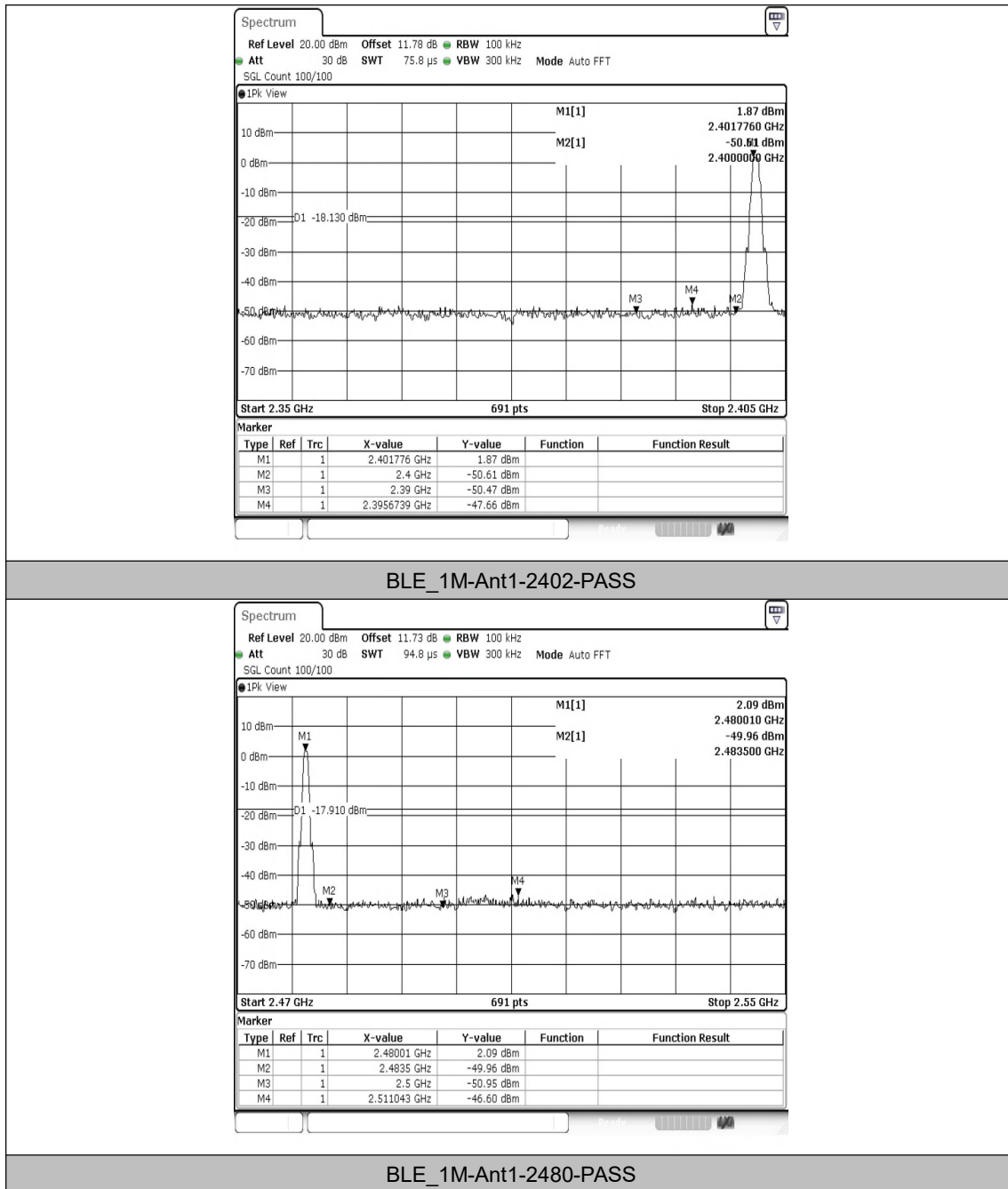
Appendix E: Band edge measurements

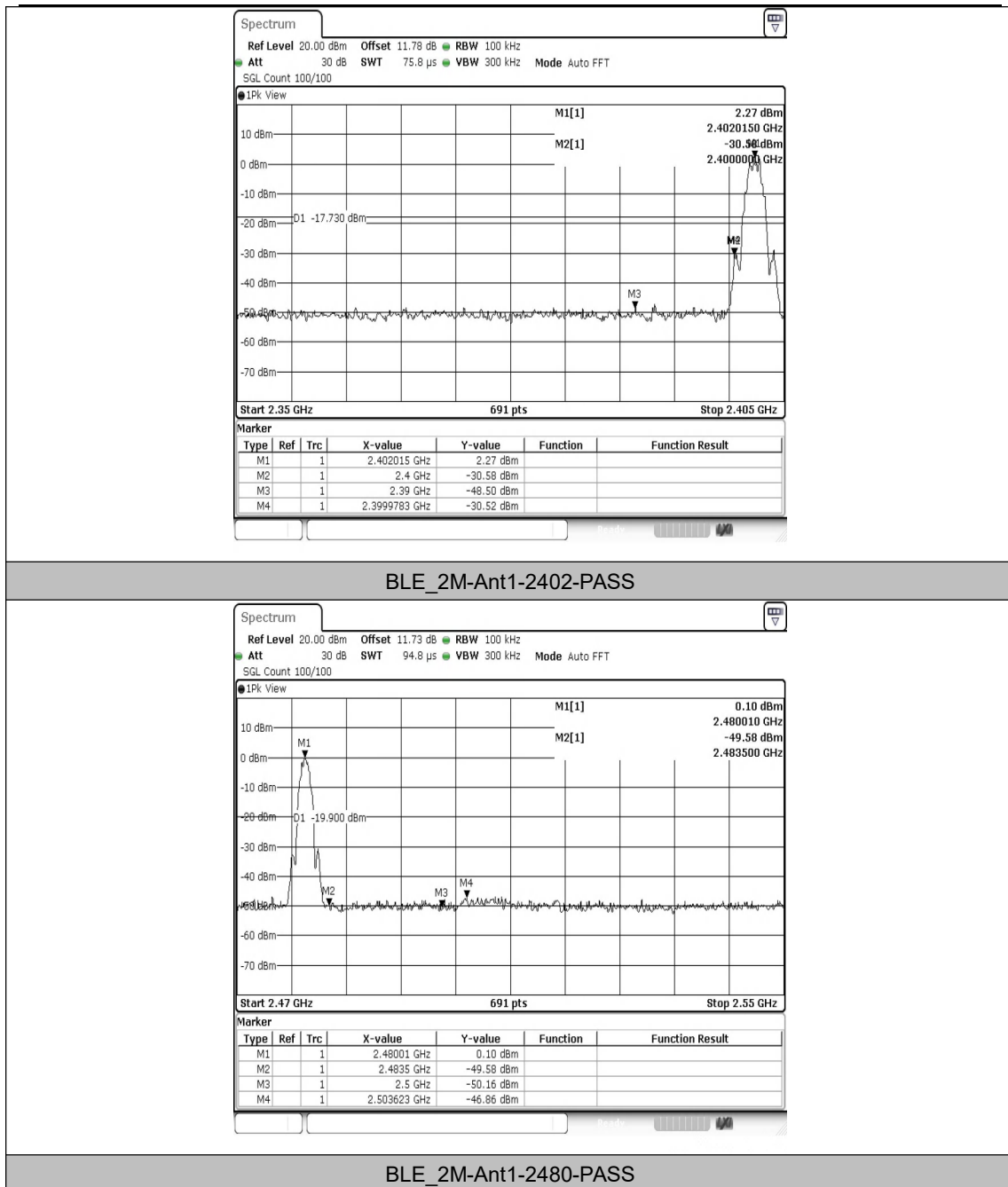
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.87	-47.66	≤-18.13	PASS
BLE_1M	Ant1	High	2480	2.09	-46.6	≤-17.91	PASS
BLE_2M	Ant1	Low	2402	2.27	-30.52	≤-17.73	PASS
BLE_2M	Ant1	High	2480	0.10	-46.86	≤-19.9	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





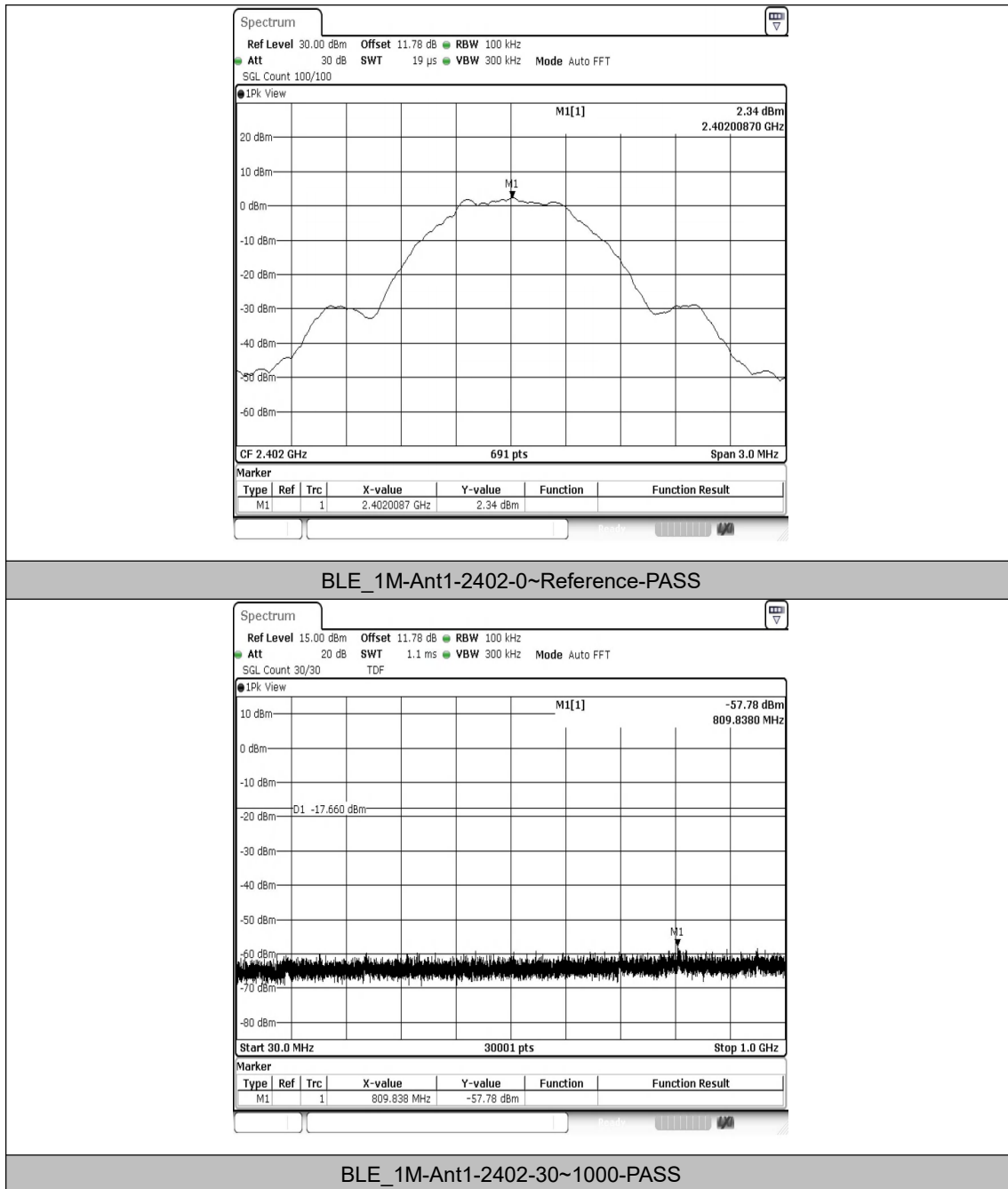
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	2.34	2.34	---	PASS
BLE_1M	Ant1	2402	30~1000	2.34	-57.78	≤-17.66	PASS
BLE_1M	Ant1	2402	1000~26500	2.34	-43.2	≤-17.66	PASS
BLE_1M	Ant1	2440	0~Reference	2.59	2.59	---	PASS
BLE_1M	Ant1	2440	30~1000	2.59	-57.99	≤-17.41	PASS
BLE_1M	Ant1	2440	1000~26500	2.59	-43.91	≤-17.41	PASS
BLE_1M	Ant1	2480	0~Reference	2.56	2.56	---	PASS
BLE_1M	Ant1	2480	30~1000	2.56	-57.1	≤-17.44	PASS
BLE_1M	Ant1	2480	1000~26500	2.56	-43.2	≤-17.44	PASS
BLE_2M	Ant1	2402	0~Reference	-0.03	-0.03	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.03	-58.2	≤-20.03	PASS
BLE_2M	Ant1	2402	1000~26500	-0.03	-43.62	≤-20.03	PASS
BLE_2M	Ant1	2440	0~Reference	1.10	1.10	---	PASS
BLE_2M	Ant1	2440	30~1000	1.10	-57.26	≤-18.9	PASS
BLE_2M	Ant1	2440	1000~26500	1.10	-42.16	≤-18.9	PASS
BLE_2M	Ant1	2480	0~Reference	2.15	2.15	---	PASS
BLE_2M	Ant1	2480	30~1000	2.15	-57.31	≤-17.85	PASS
BLE_2M	Ant1	2480	1000~26500	2.15	-44.07	≤-17.85	PASS

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

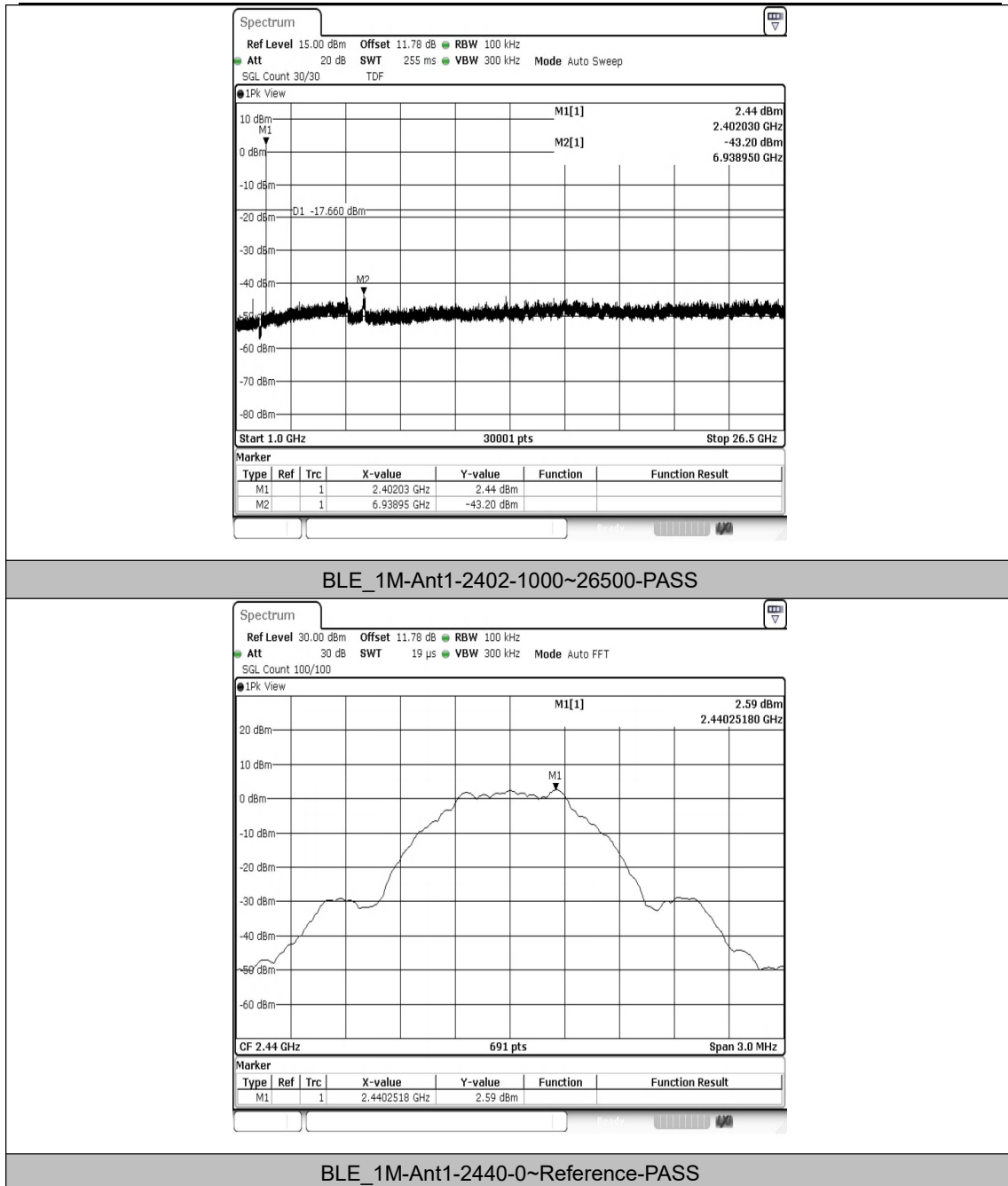
Test Graphs



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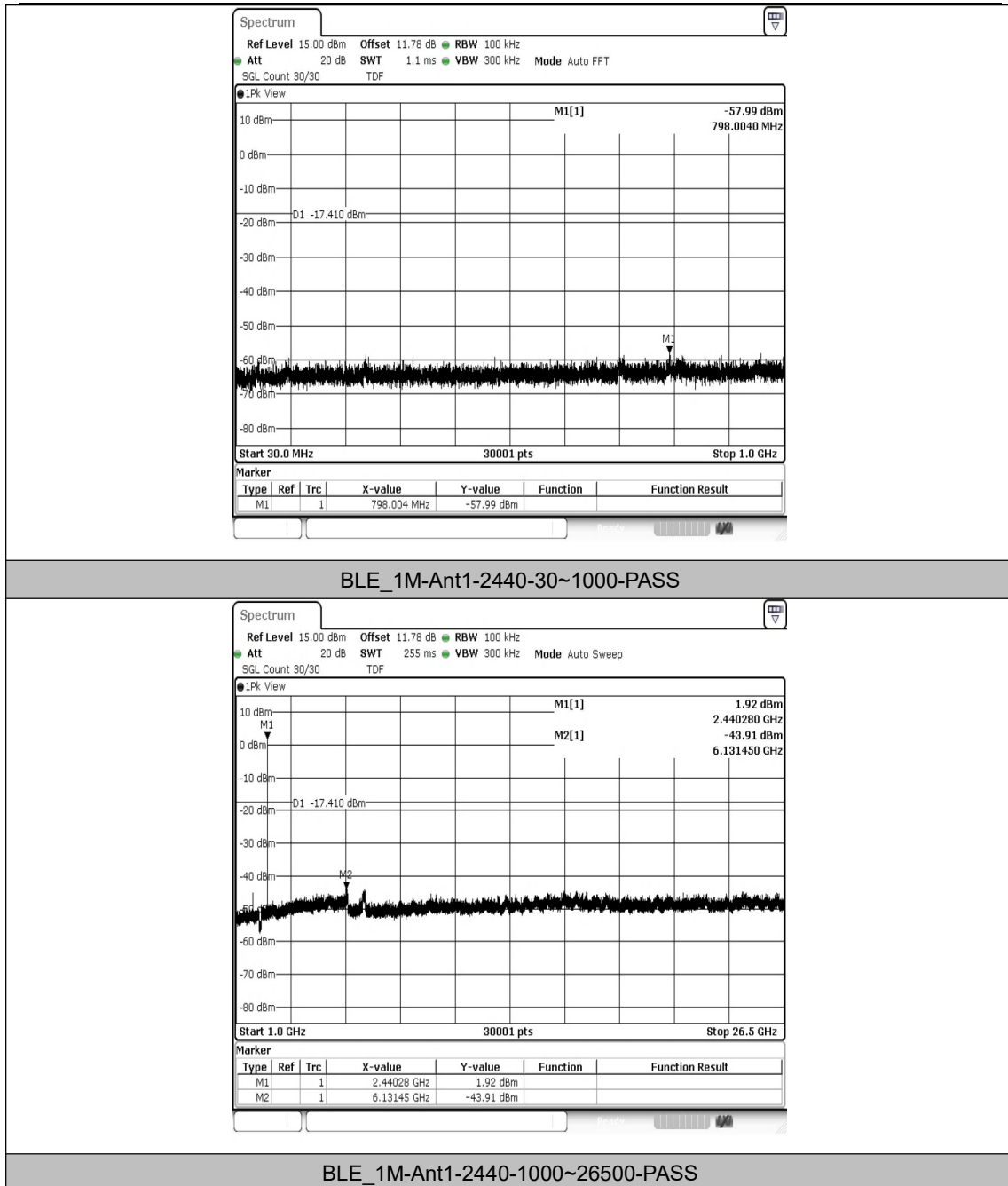
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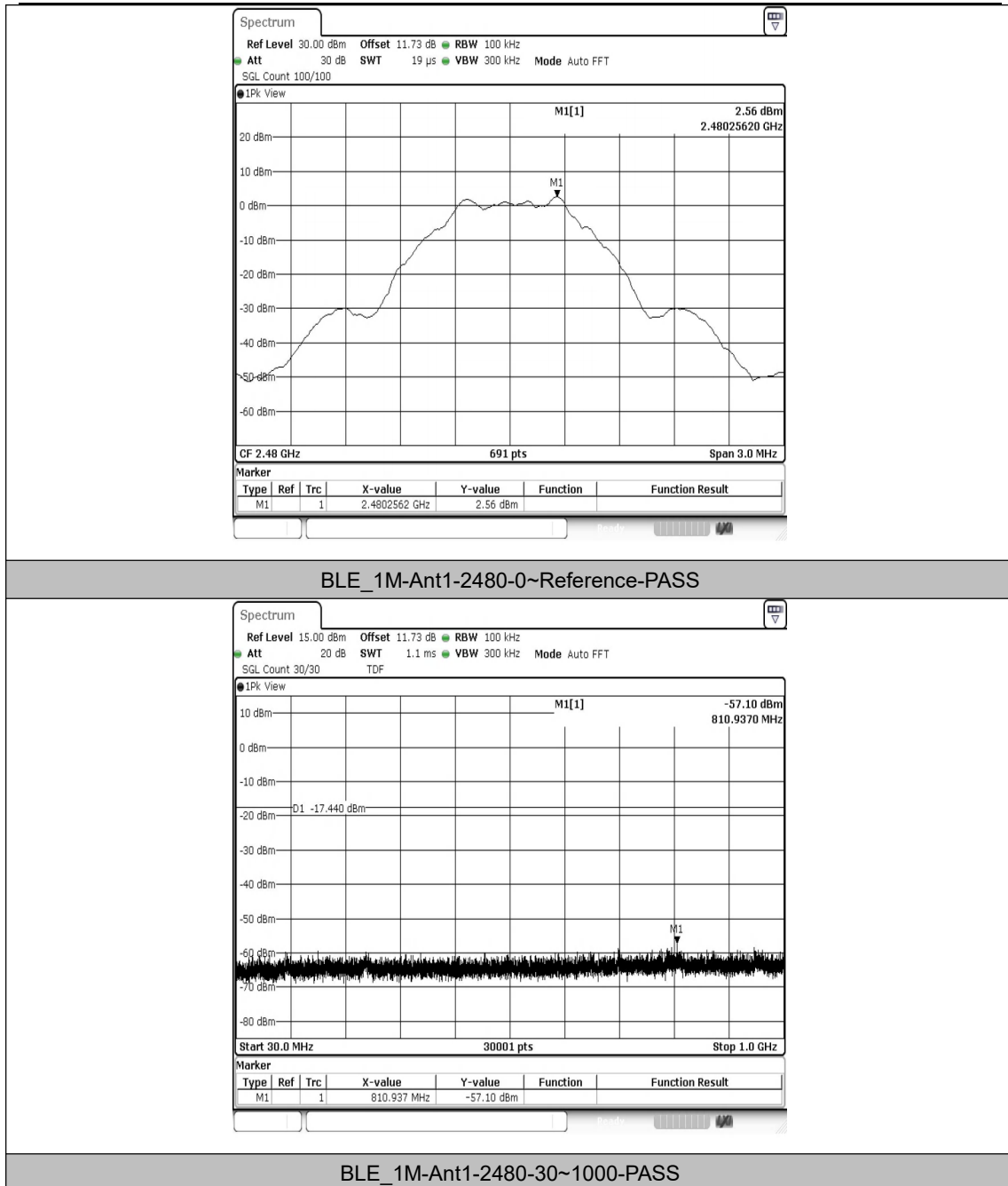
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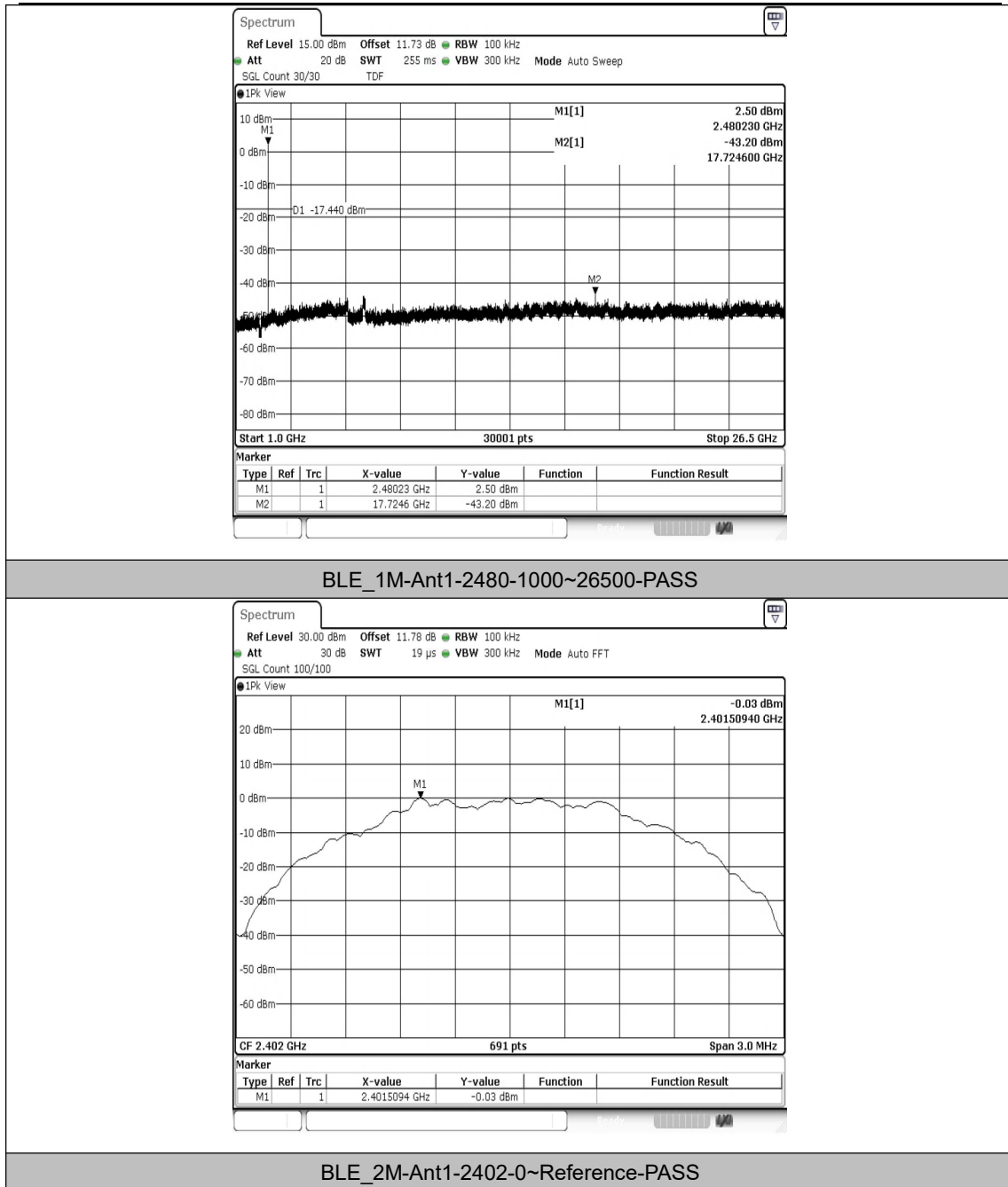
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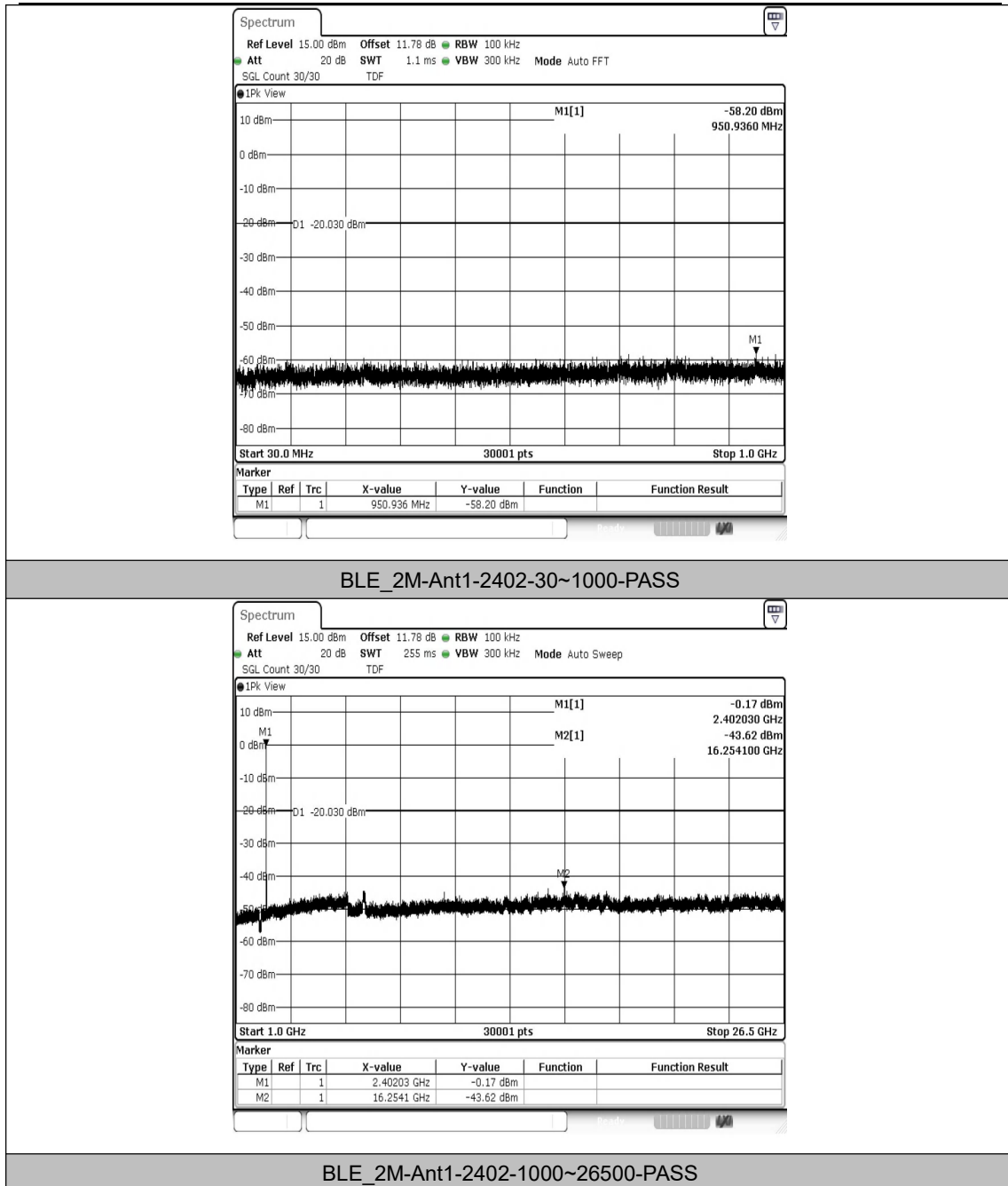


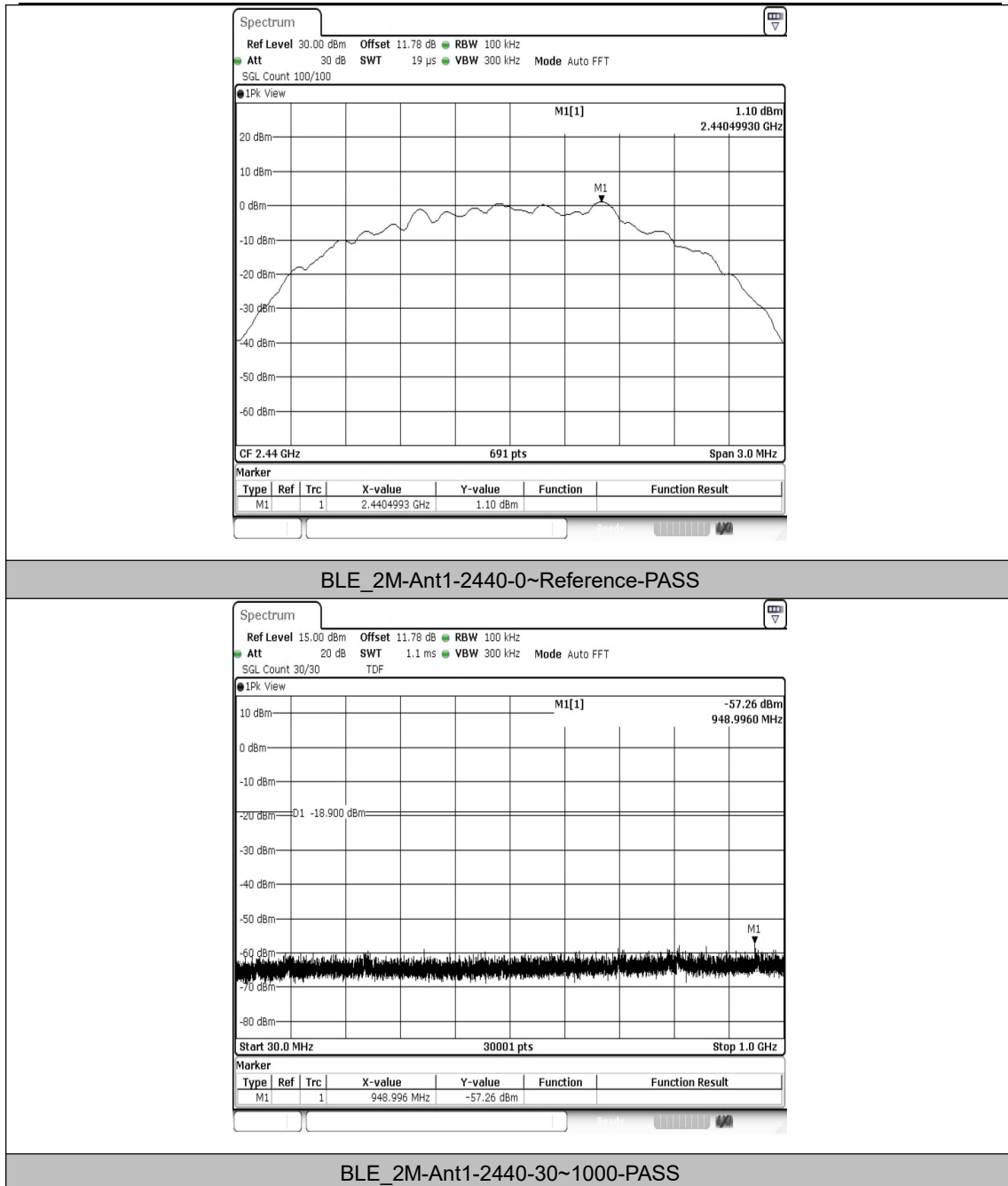
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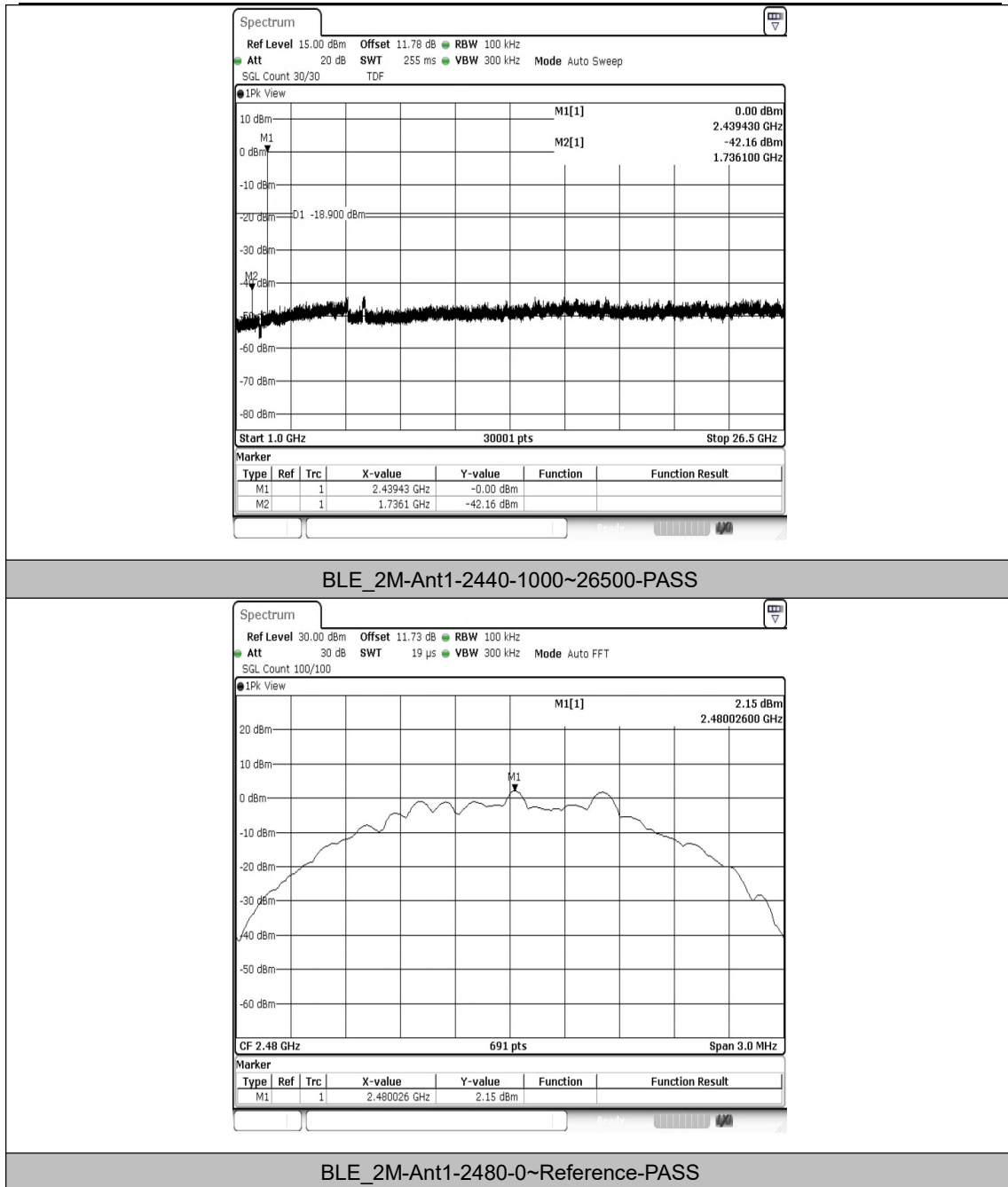
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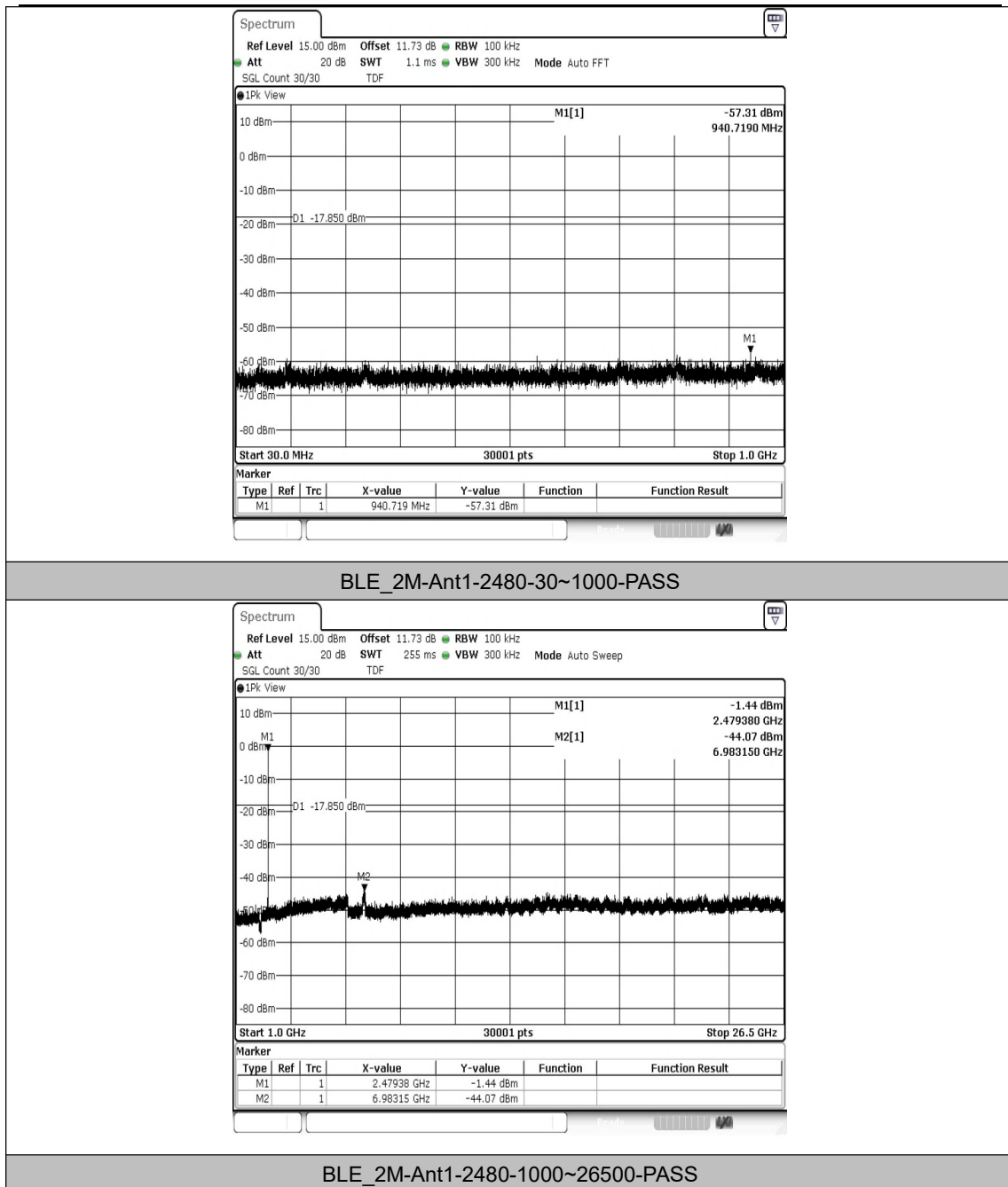
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Appendix G: Duty Cycle

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	1.07	1.87	57.22	2.42
BLE_2M	Ant1	2440	1.07	1.87	57.22	2.42
BLE_2M	Ant1	2480	1.07	1.88	56.91	2.45

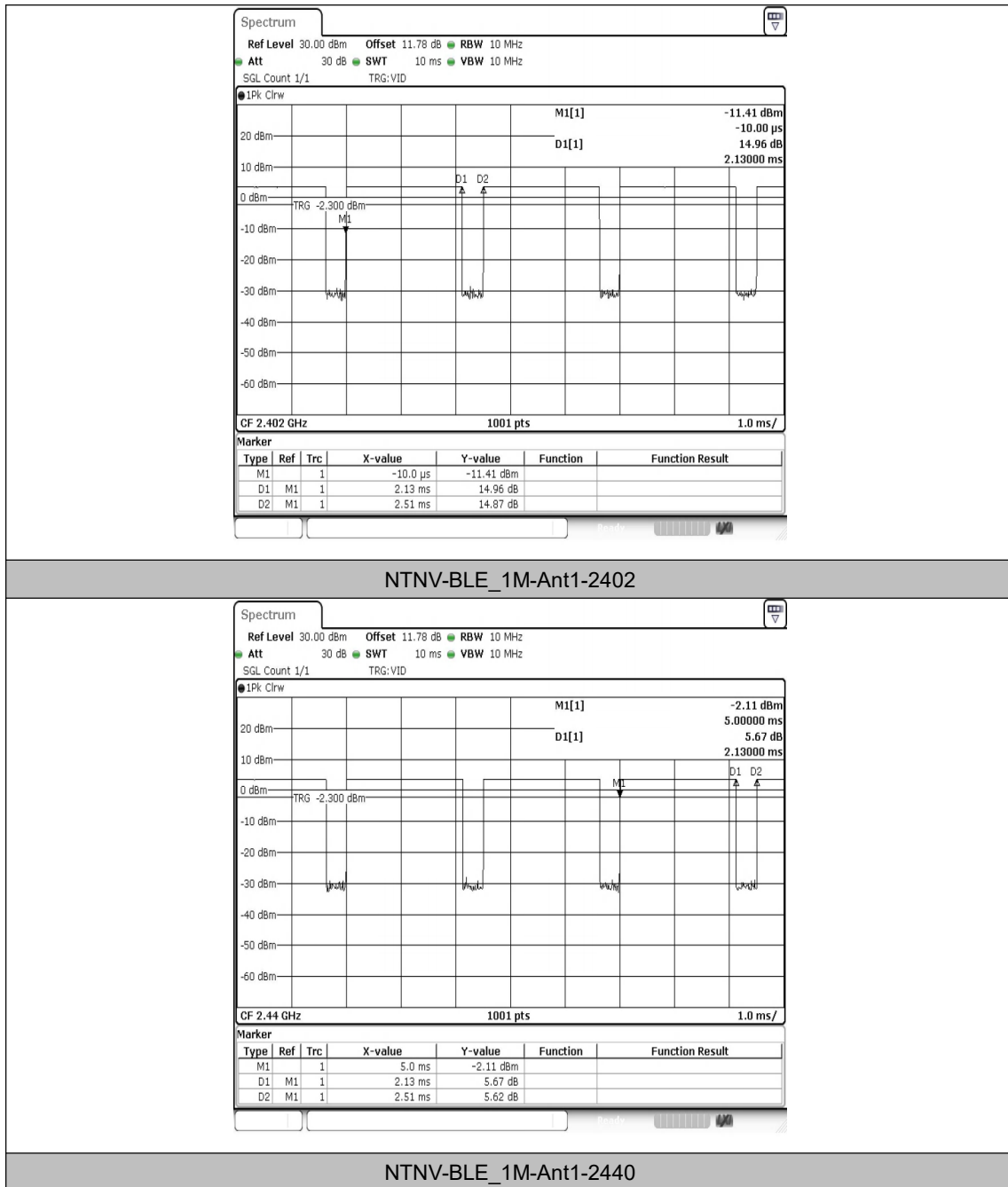
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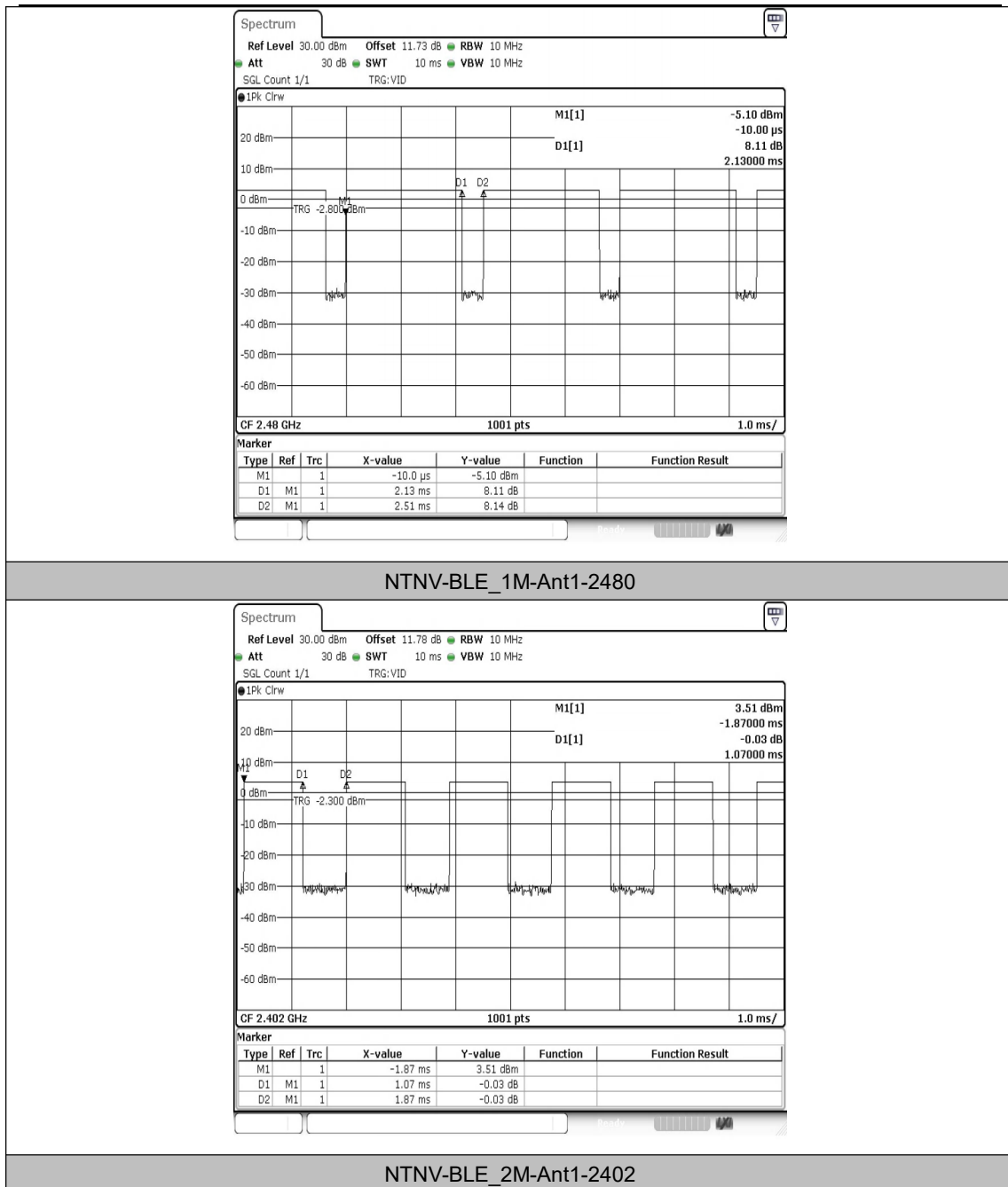
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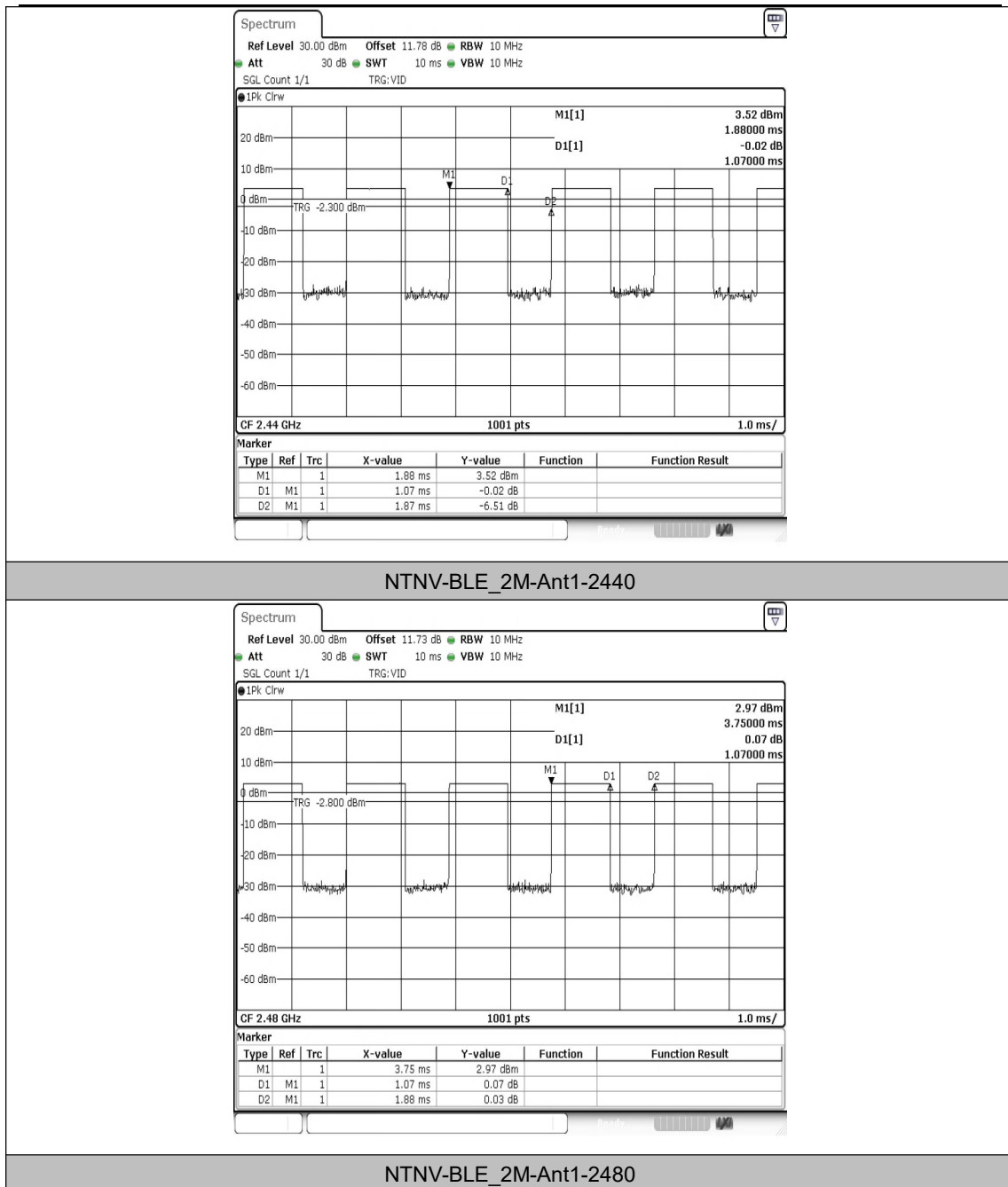


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Test Graphs







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