

Appendix Test Data

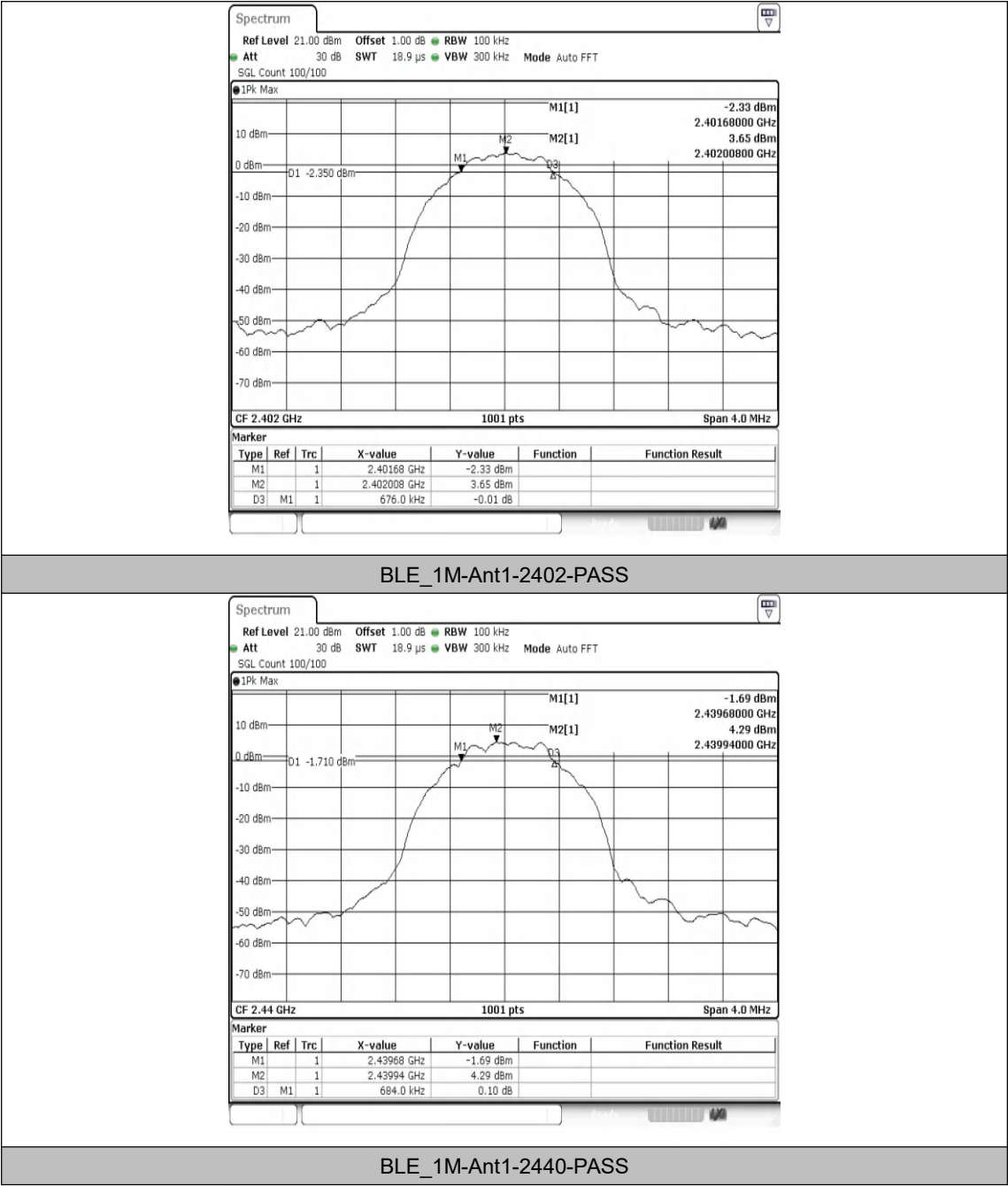
Report No.:	1813C50213512501	Test Sample No.:	1-2-2
Start Test Date:	2025-6-19	Finish Test Date:	2025-7-21
Test Engineer:	<i>dylan. Ma</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.1°C	Relative Humidity:	66%
Pressure:	101kPa		

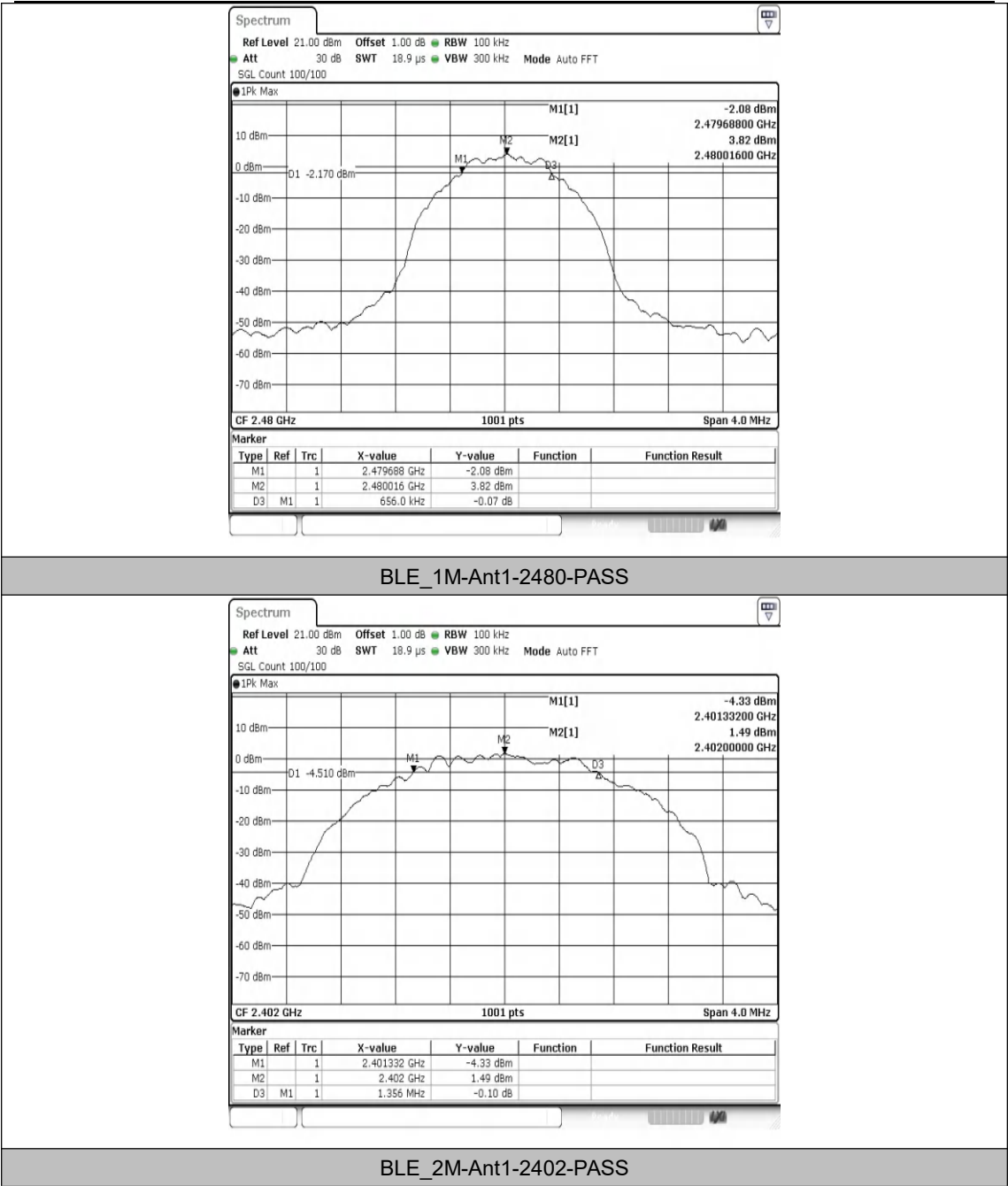
Appendix A: 6dB Bandwidth

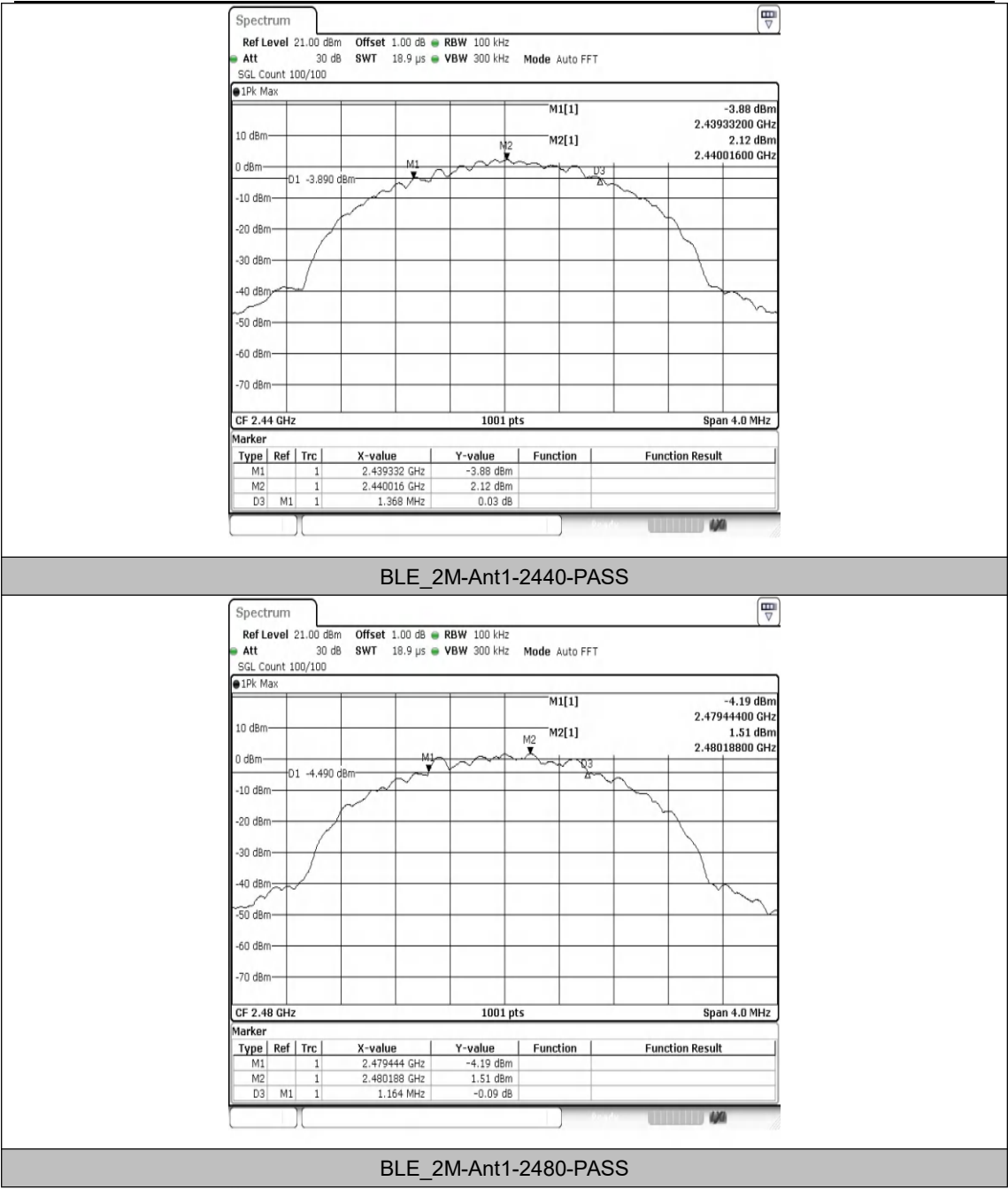
Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.68	2401.68	2402.36	0.5	PASS
BLE_1M	Ant1	2440	0.68	2439.68	2440.36	0.5	PASS
BLE_1M	Ant1	2480	0.66	2479.69	2480.34	0.5	PASS
BLE_2M	Ant1	2402	1.36	2401.33	2402.69	0.5	PASS
BLE_2M	Ant1	2440	1.37	2439.33	2440.70	0.5	PASS
BLE_2M	Ant1	2480	1.16	2479.44	2480.61	0.5	PASS

Test Graphs



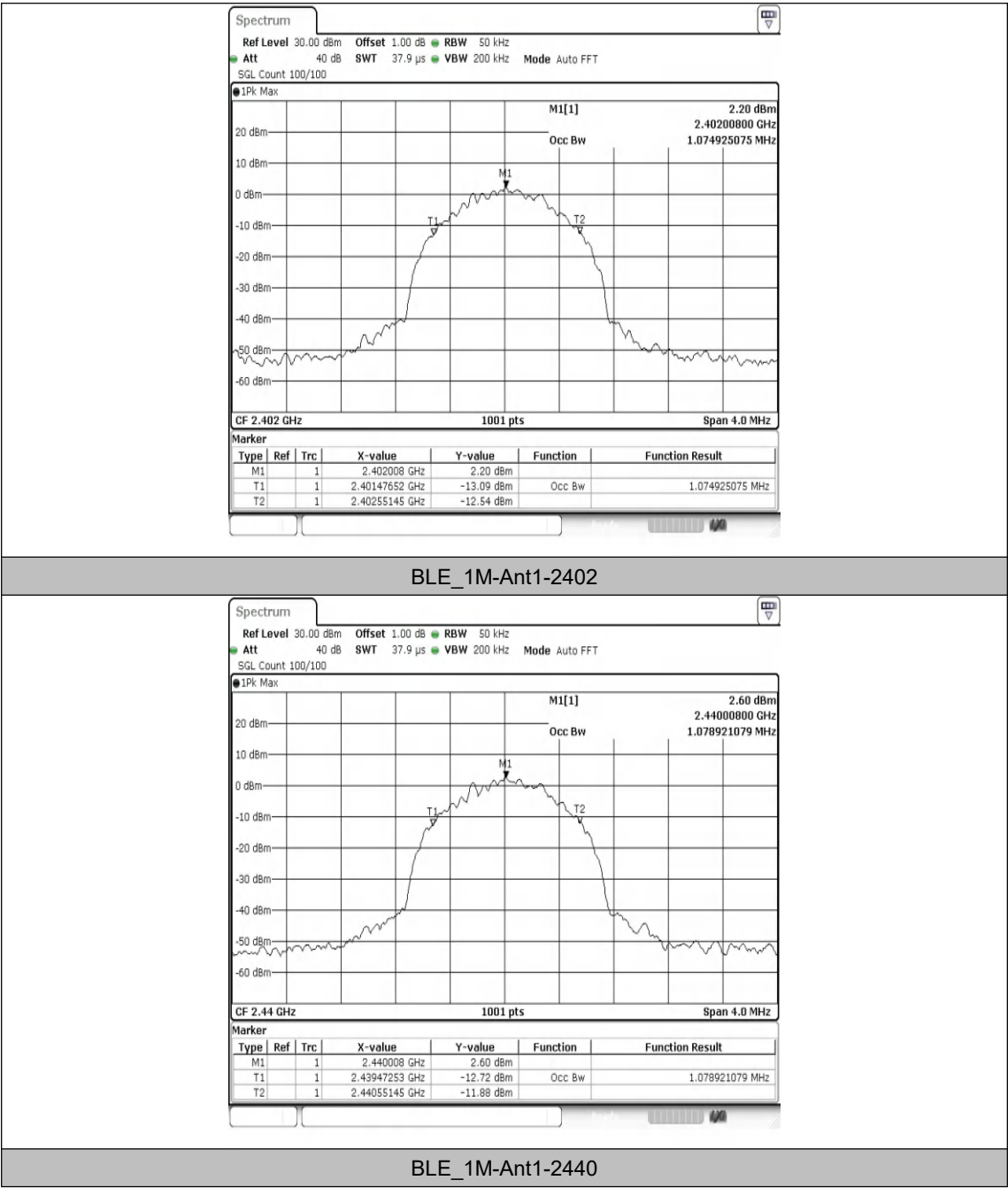




Appendix B: 99% Occupied Bandwidth**Test Result**

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0749	2401.4765	2402.5514	---	---
BLE_1M	Ant1	2440	1.0789	2439.4725	2440.5514	---	---
BLE_1M	Ant1	2480	1.0789	2479.4725	2480.5514	---	---
BLE_2M	Ant1	2402	2.1139	2400.9690	2403.0829	---	---
BLE_2M	Ant1	2440	2.1099	2438.9650	2441.0749	---	---
BLE_2M	Ant1	2480	2.1219	2478.9610	2481.0829	---	---

Test Graphs



BLE_1M-Ant1-2402

Spectrum

Ref Level 30.00 dBm

Offset 1.00 dB

RBW 50 kHz

Att 40 dB

SWT 37.9 μ s

VBW 200 kHz

Mode Auto FFT

SGL Count 100/100

1Pk Max

M1[1]

2.60 dBm

2.44000800 GHz

1.078921079 MHz

CF 2.44 GHz

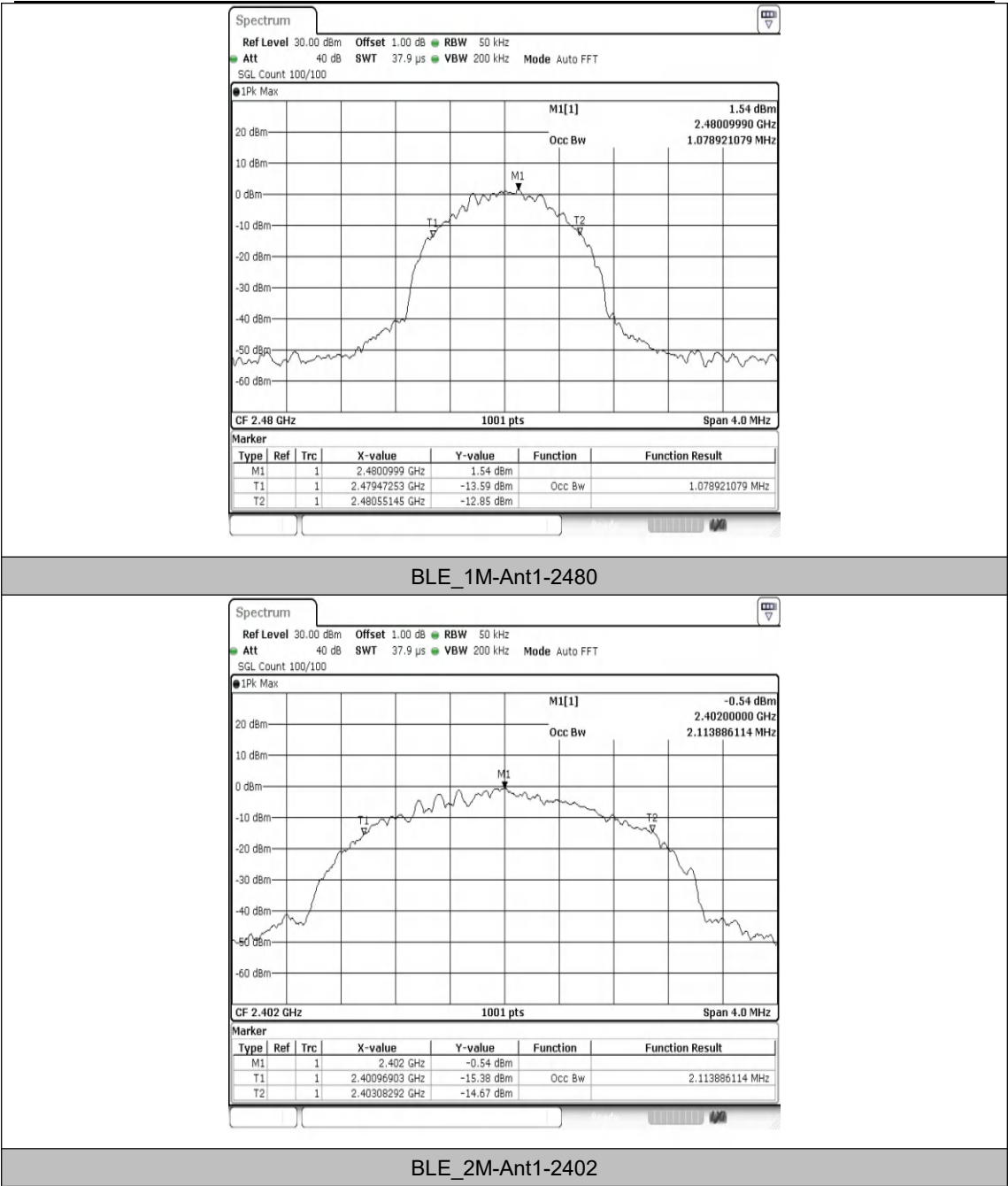
1001 pts

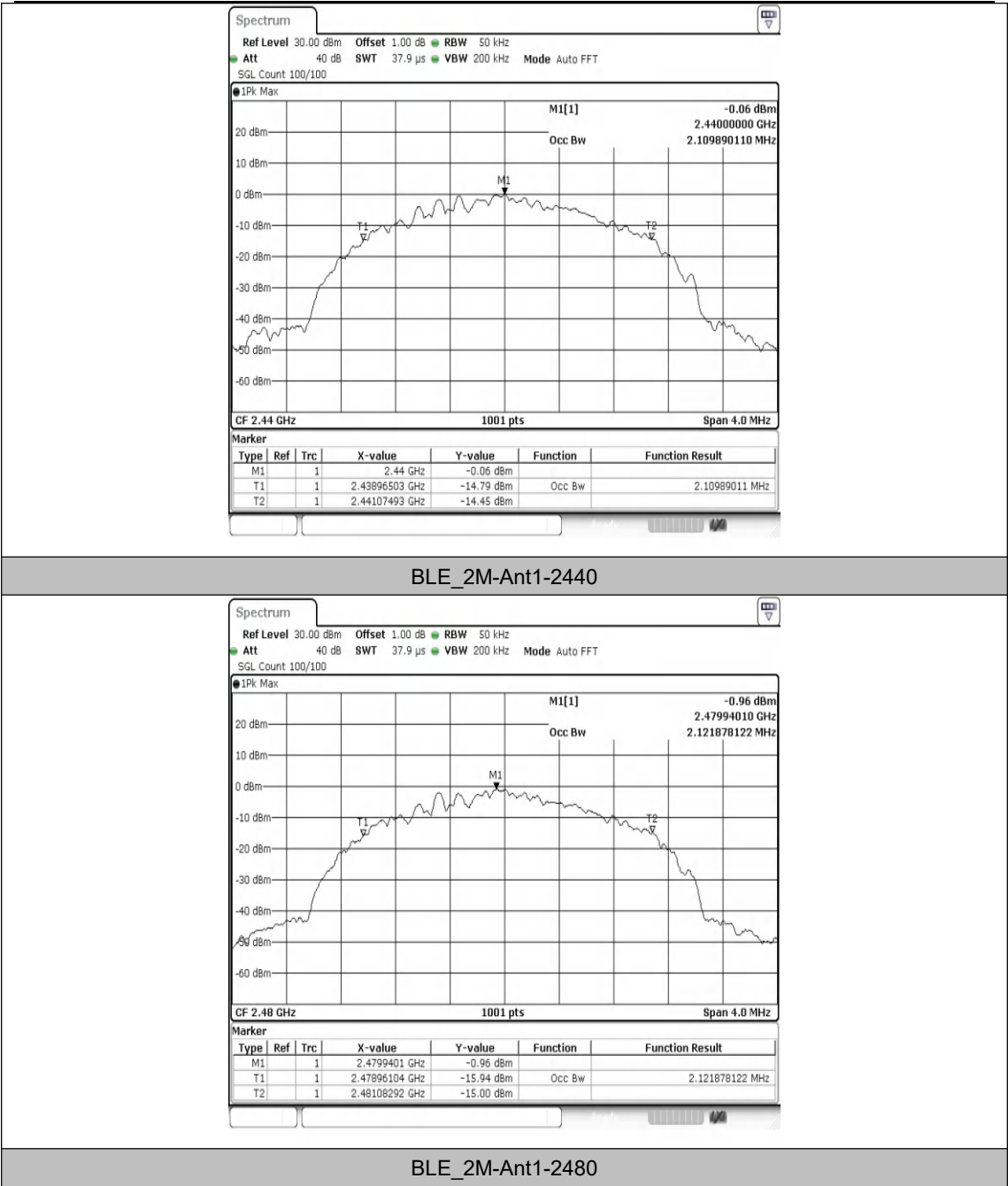
Span 4.0 MHz

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.440008 GHz	2.60 dBm		
T1		1	2.43947253 GHz	-12.72 dBm	Occ Bw	1.078921079 MHz
T2		1	2.44055145 GHz	-11.88 dBm		

BLE_1M-Ant1-2440



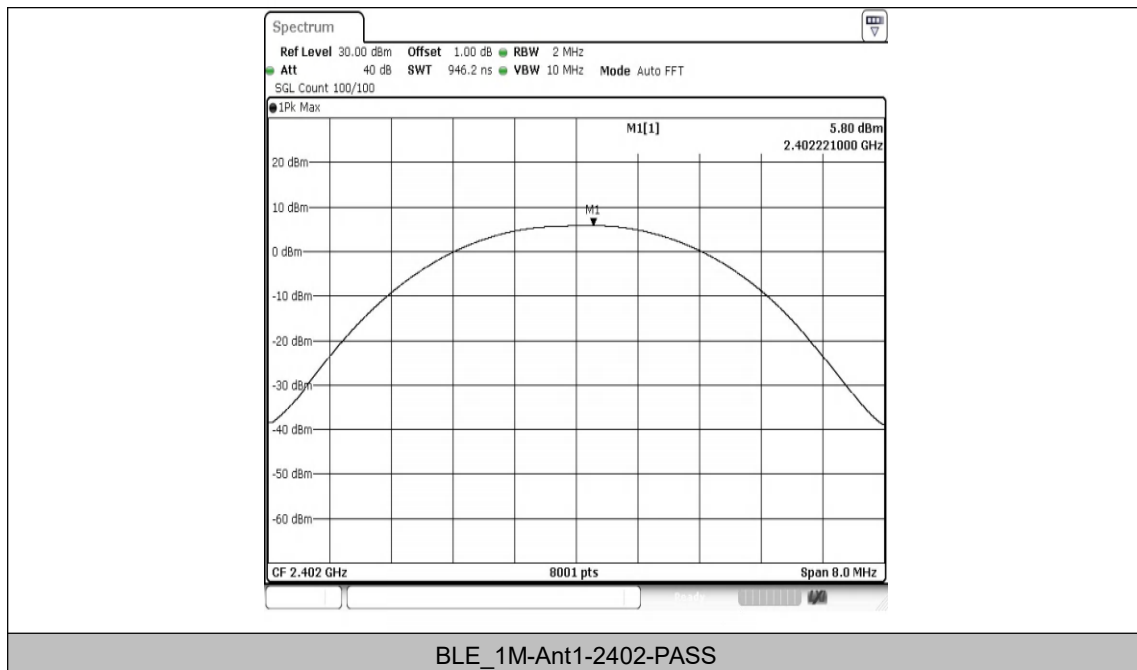


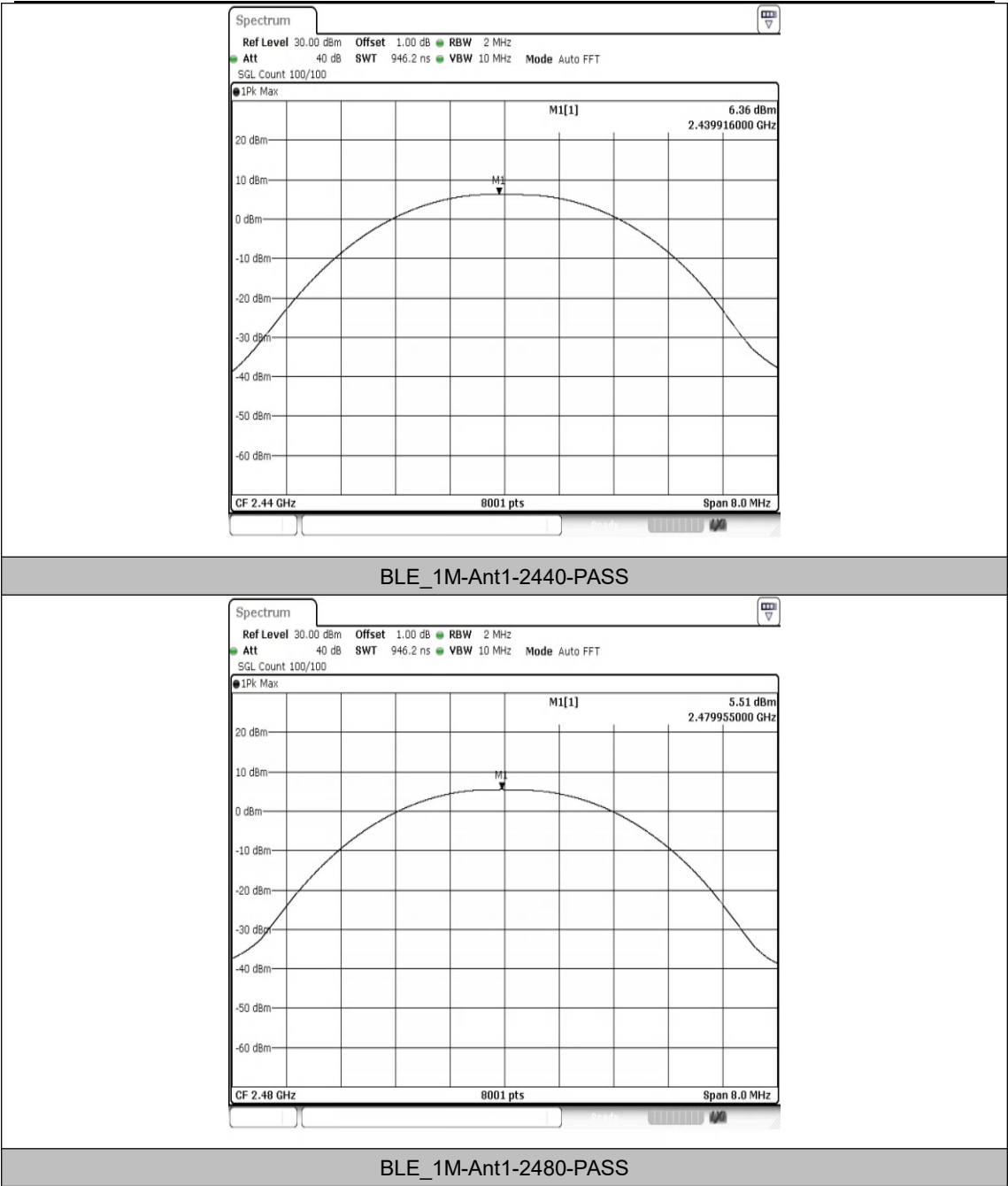
Appendix C: Maximum conducted output power

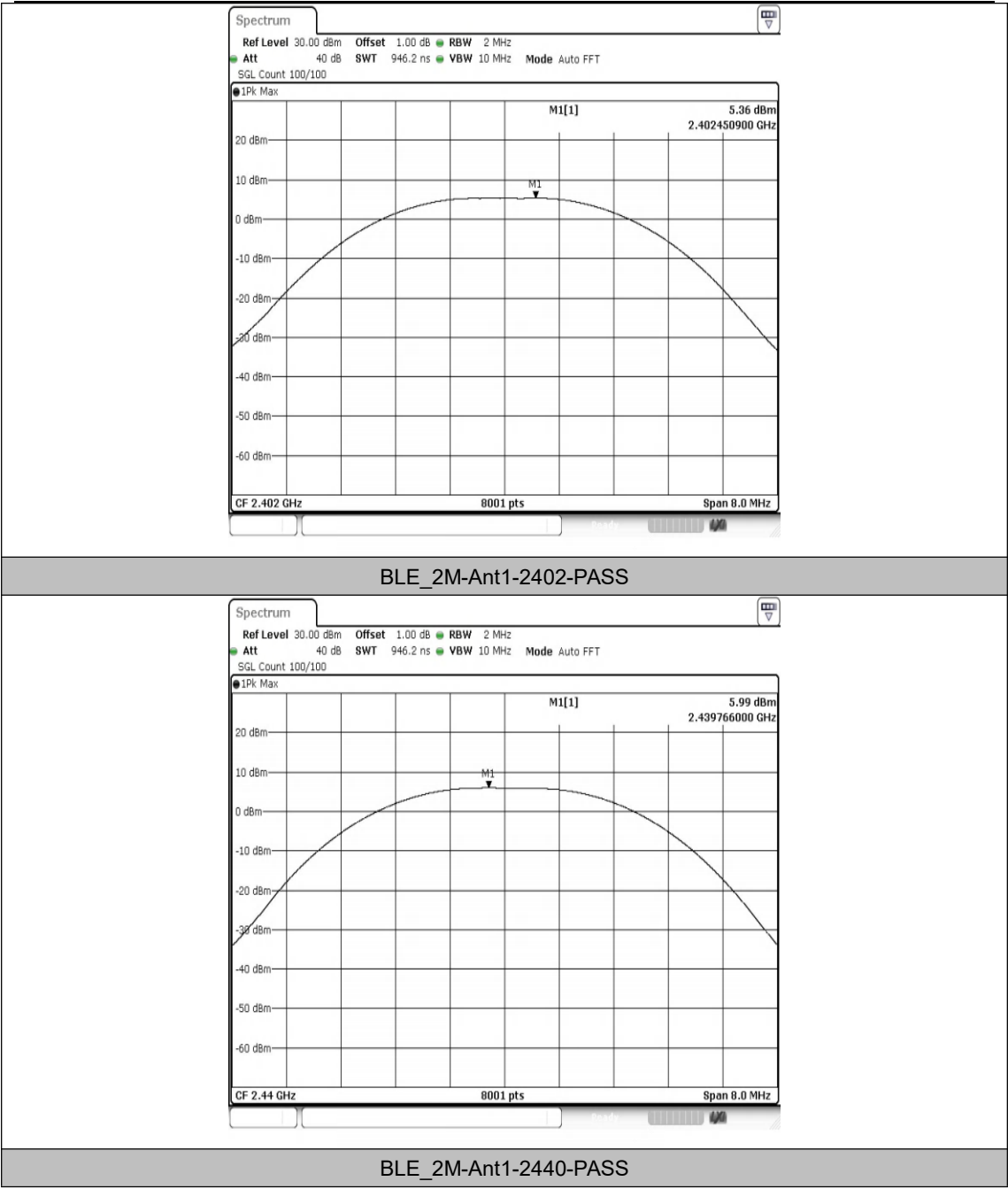
Test Result Peak

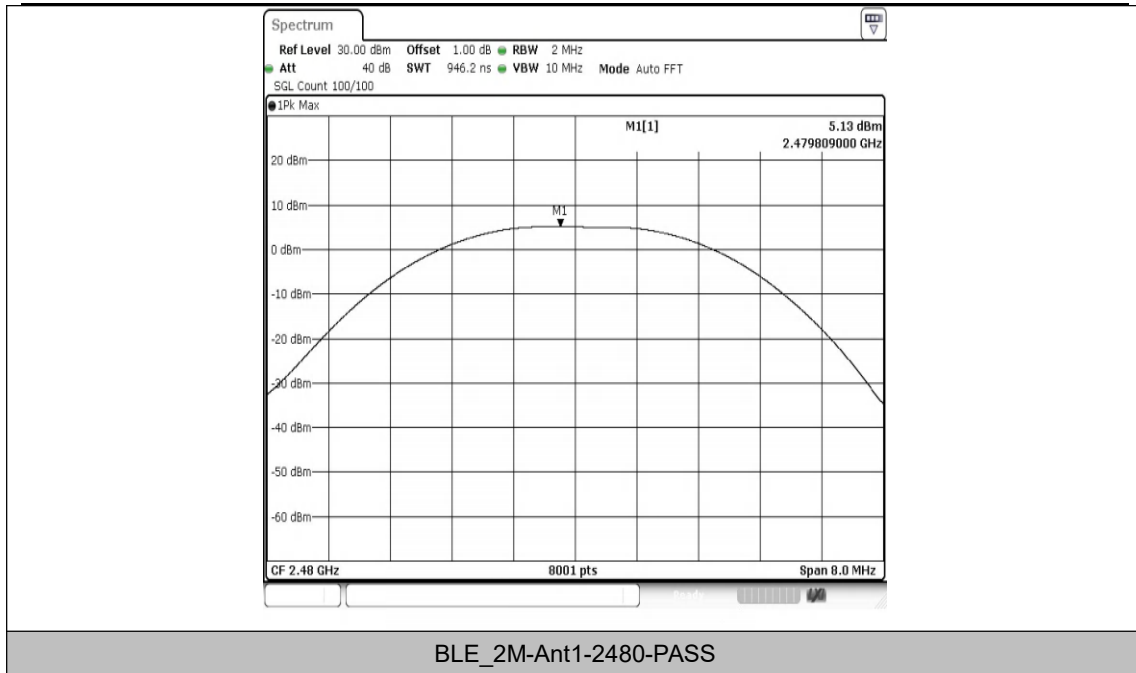
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	5.80	≤30	PASS
BLE_1M	Ant1	2440	6.36	≤30	PASS
BLE_1M	Ant1	2480	5.51	≤30	PASS
BLE_2M	Ant1	2402	5.36	≤30	PASS
BLE_2M	Ant1	2440	5.99	≤30	PASS
BLE_2M	Ant1	2480	5.13	≤30	PASS

Test Graphs Peak









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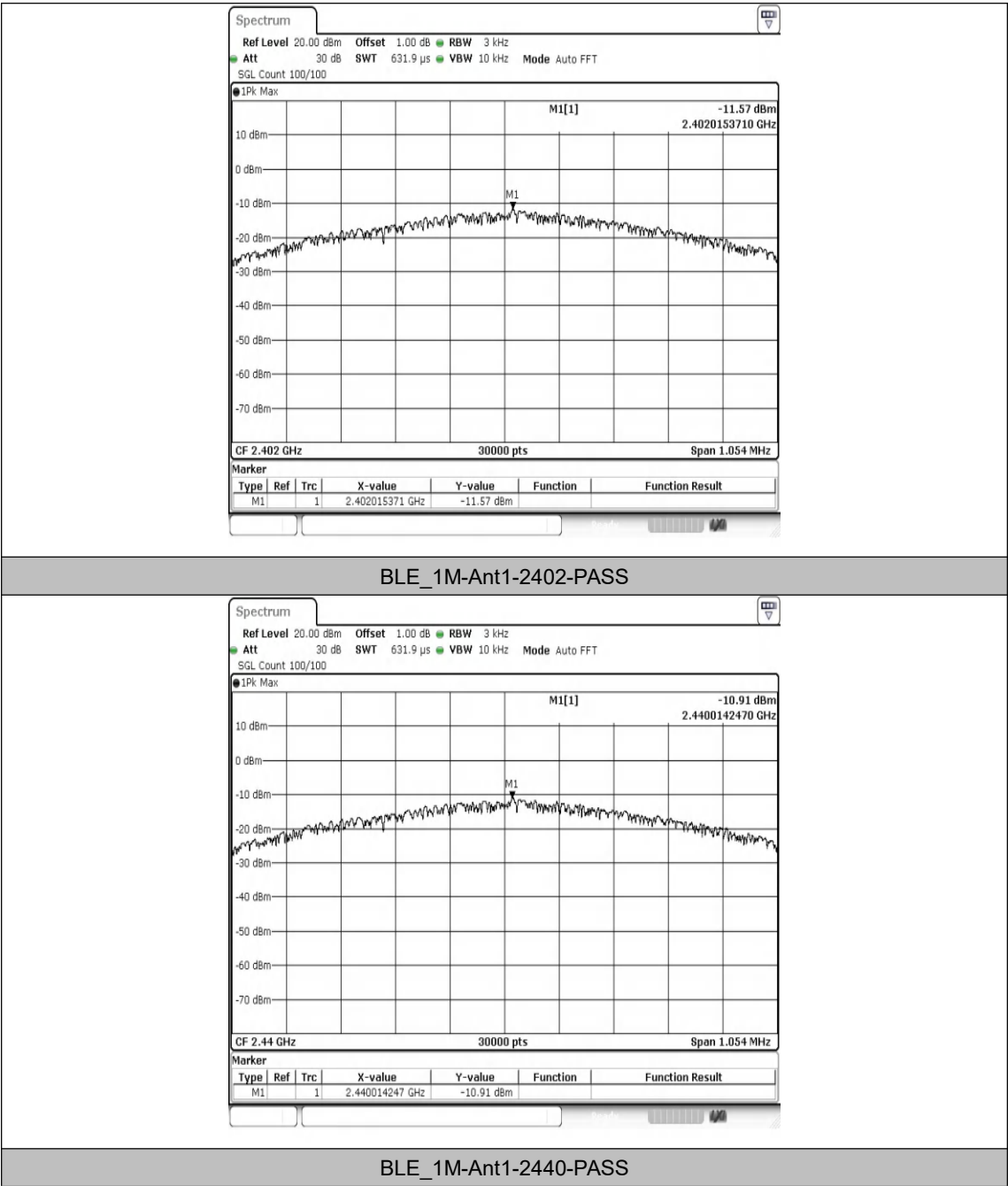
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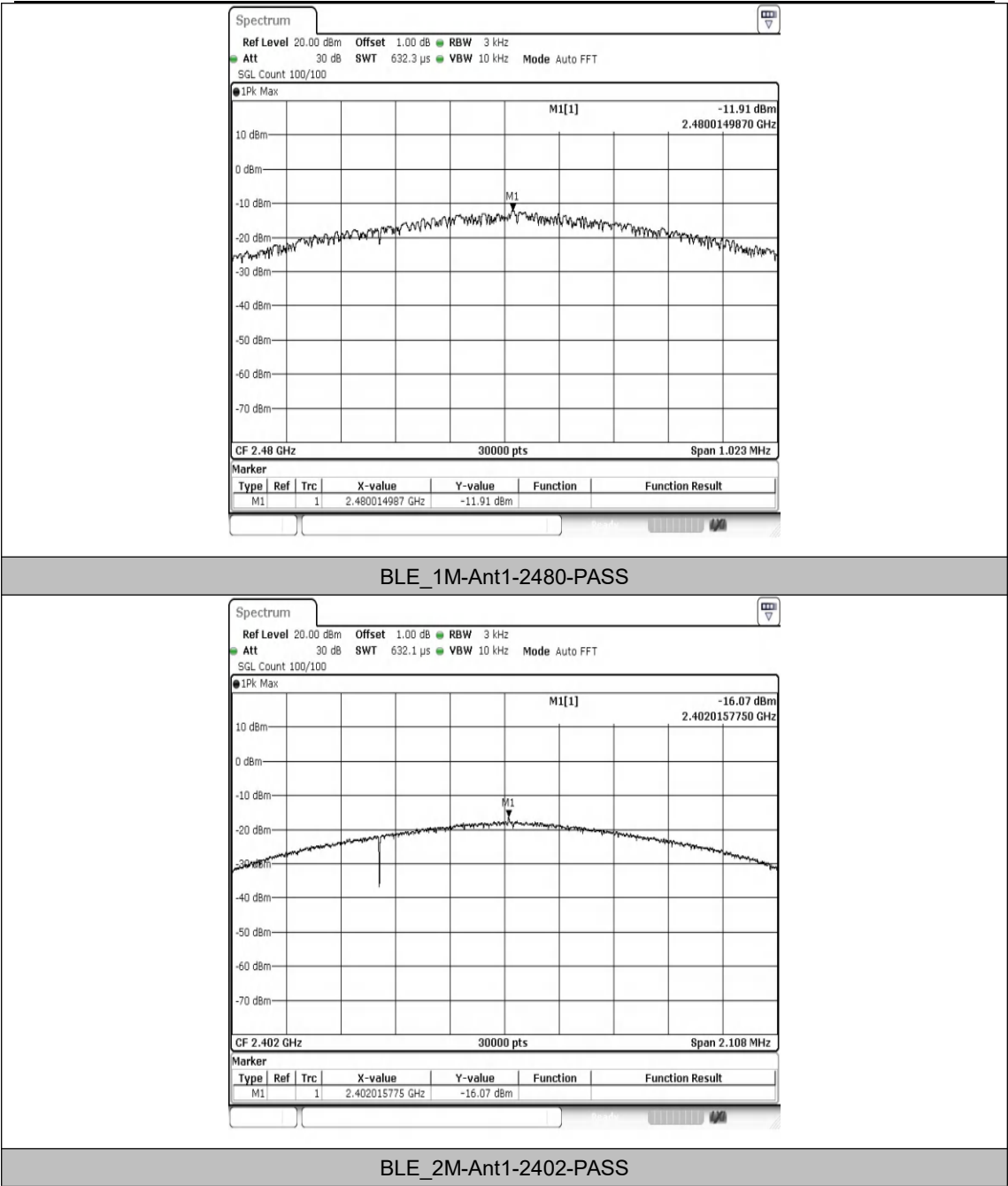
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.57	≤8.00	PASS
BLE_1M	Ant1	2440	-10.91	≤8.00	PASS
BLE_1M	Ant1	2480	-11.91	≤8.00	PASS
BLE_2M	Ant1	2402	-16.07	≤8.00	PASS
BLE_2M	Ant1	2440	-15.18	≤8.00	PASS
BLE_2M	Ant1	2480	-16.33	≤8.00	PASS

Test Graphs

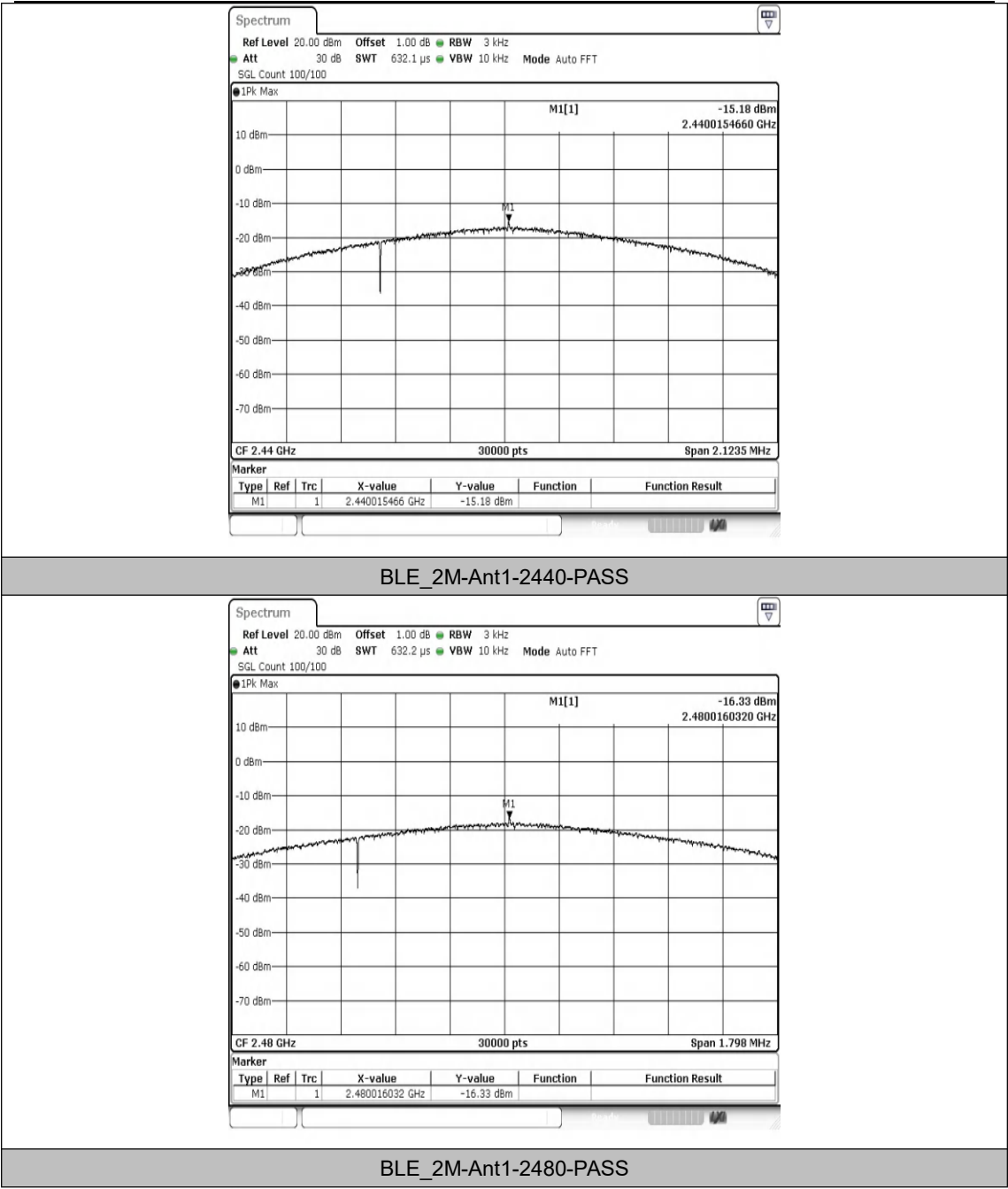




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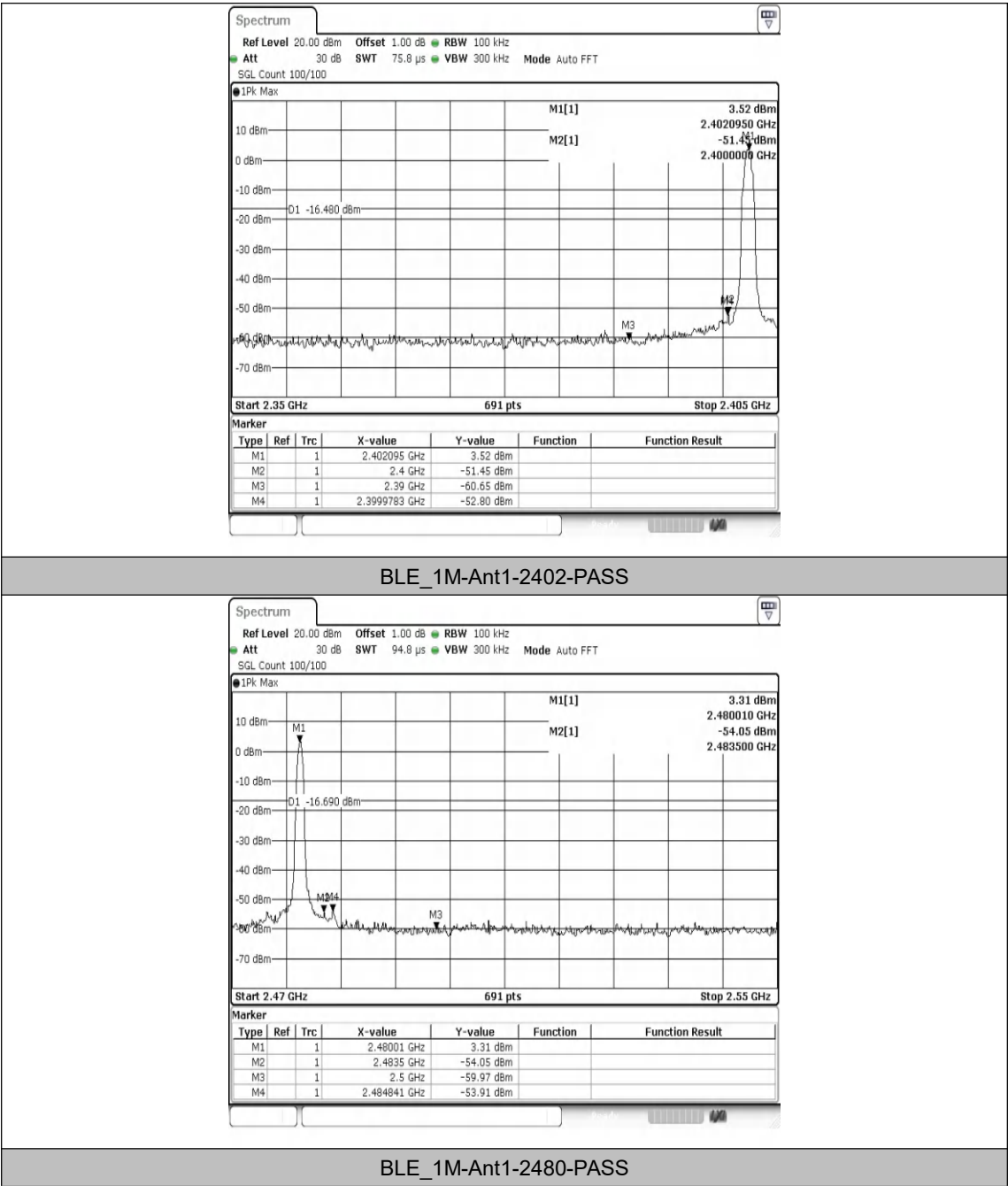
Appendix E: Band edge measurements

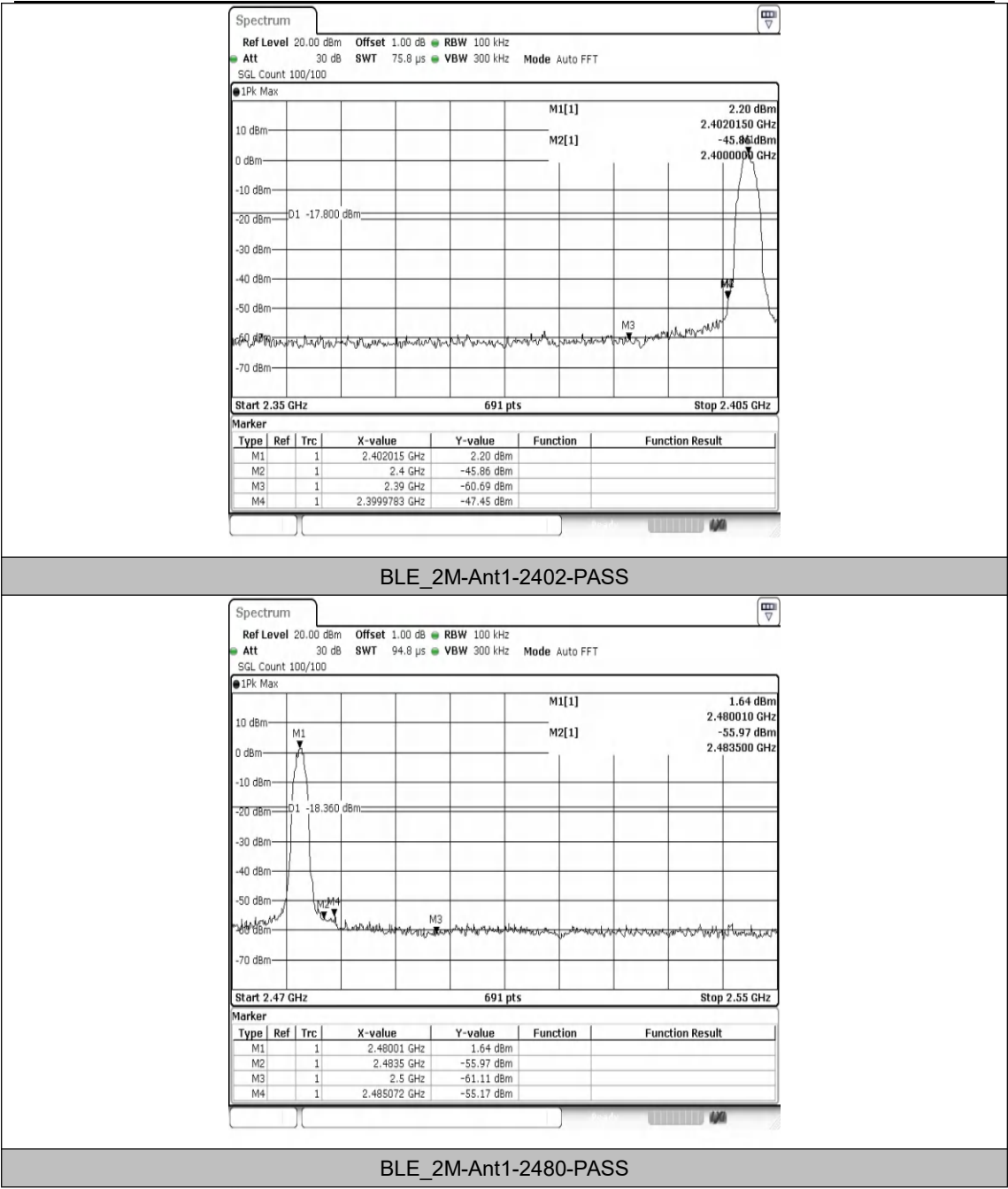
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.52	-52.8	≤-16.48	PASS
BLE_1M	Ant1	High	2480	3.31	-53.91	≤-16.69	PASS
BLE_2M	Ant1	Low	2402	2.20	-47.45	≤-17.8	PASS
BLE_2M	Ant1	High	2480	1.64	-55.17	≤-18.36	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





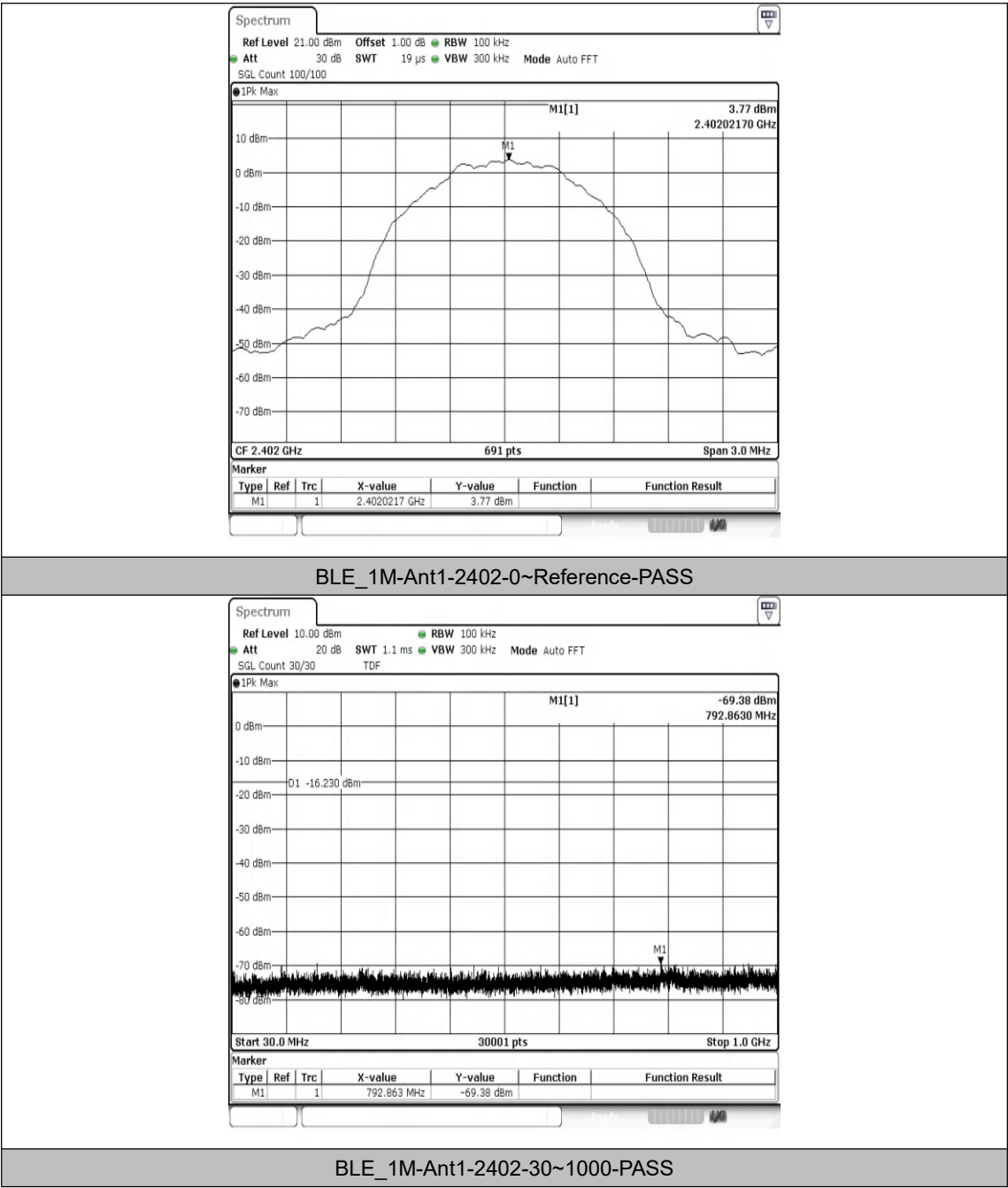
Appendix F: Conducted Spurious Emission

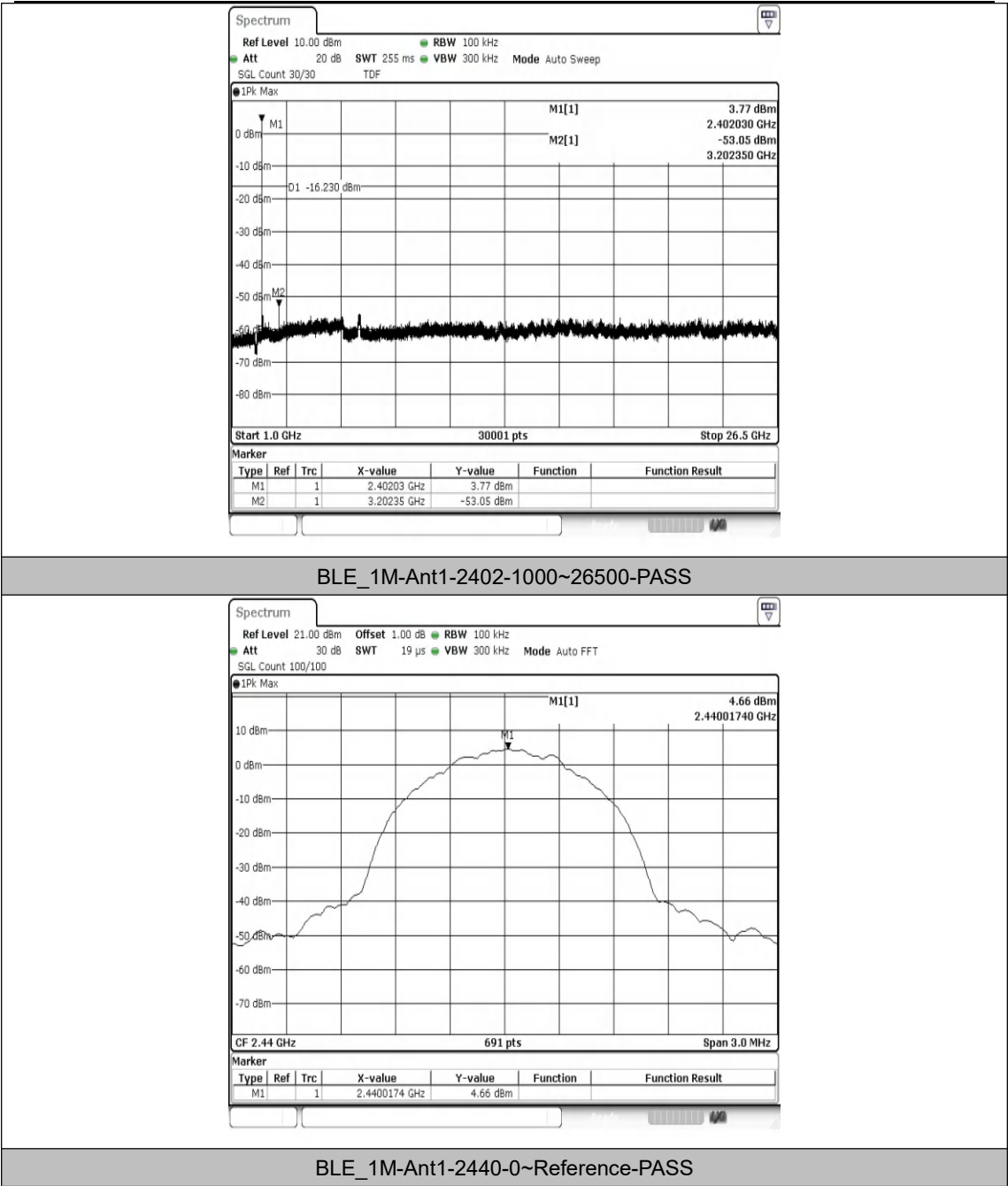
Test Result

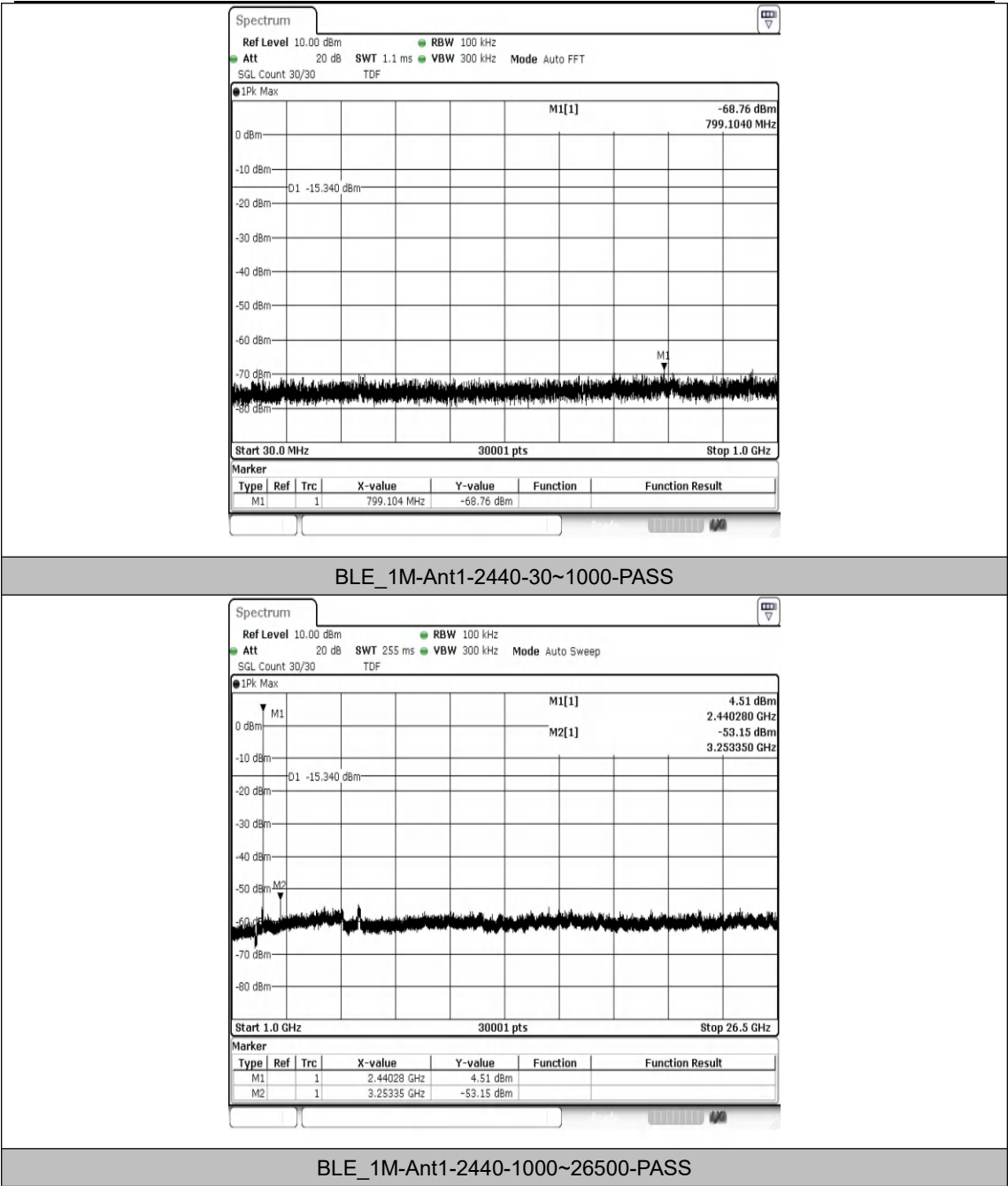
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	3.77	3.77	---	PASS
BLE_1M	Ant1	2402	30~1000	3.77	-69.38	≤-16.23	PASS
BLE_1M	Ant1	2402	1000~26500	3.77	-53.05	≤-16.23	PASS
BLE_1M	Ant1	2440	0~Reference	4.66	4.66	---	PASS
BLE_1M	Ant1	2440	30~1000	4.66	-68.76	≤-15.34	PASS
BLE_1M	Ant1	2440	1000~26500	4.66	-53.15	≤-15.34	PASS
BLE_1M	Ant1	2480	0~Reference	3.52	3.52	---	PASS
BLE_1M	Ant1	2480	30~1000	3.52	-69.28	≤-16.48	PASS
BLE_1M	Ant1	2480	1000~26500	3.52	-54.31	≤-16.48	PASS
BLE_2M	Ant1	2402	0~Reference	1.33	1.33	---	PASS
BLE_2M	Ant1	2402	30~1000	1.33	-68.22	≤-18.67	PASS
BLE_2M	Ant1	2402	1000~26500	1.33	-53.08	≤-18.67	PASS
BLE_2M	Ant1	2440	0~Reference	2.73	2.73	---	PASS
BLE_2M	Ant1	2440	30~1000	2.73	-69.35	≤-17.27	PASS
BLE_2M	Ant1	2440	1000~26500	2.73	-53.83	≤-17.27	PASS
BLE_2M	Ant1	2480	0~Reference	1.55	1.55	---	PASS
BLE_2M	Ant1	2480	30~1000	1.55	-69.08	≤-18.45	PASS
BLE_2M	Ant1	2480	1000~26500	1.55	-53.8	≤-18.45	PASS

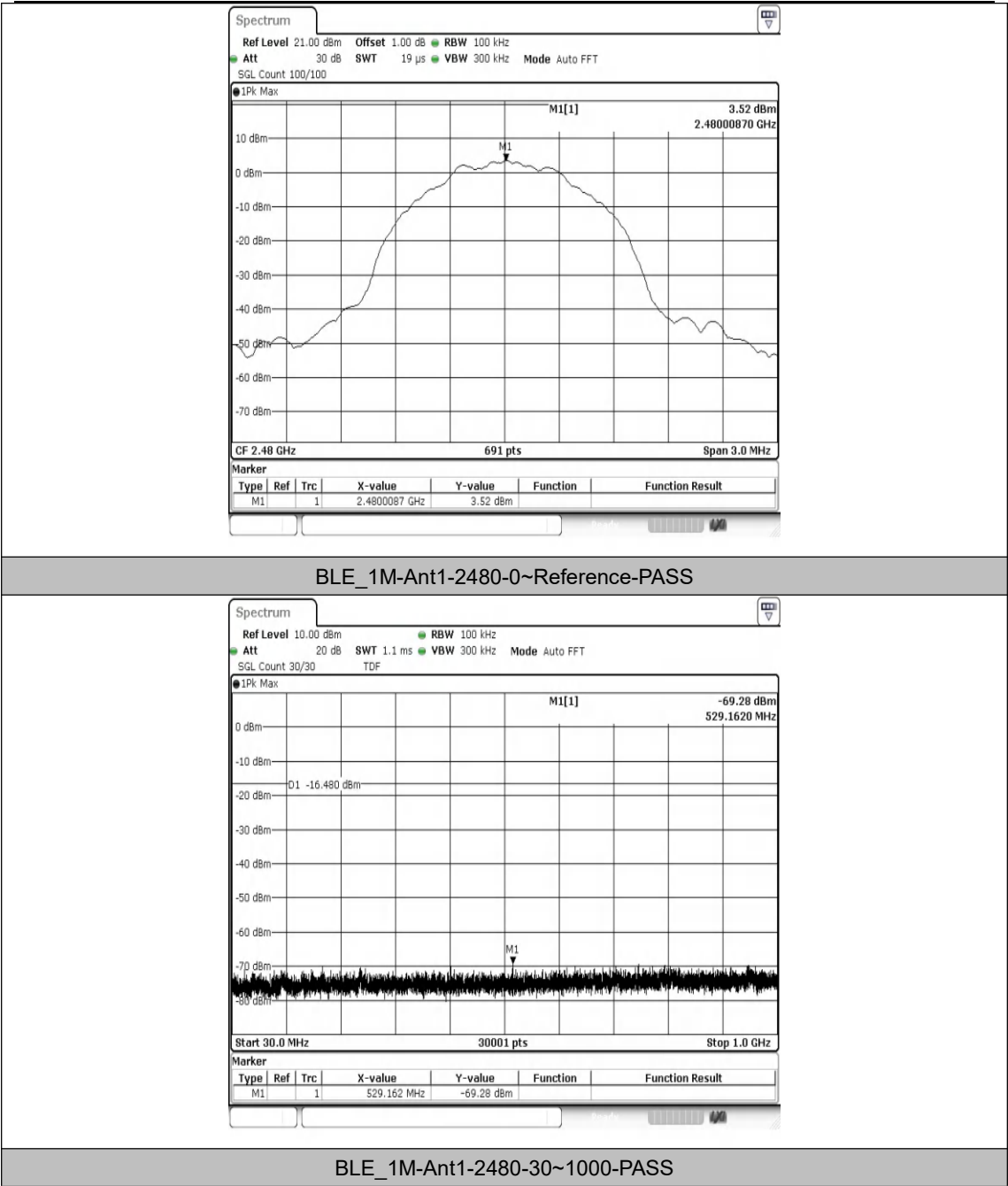
Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'TDF' of the Spectrum Analyzer during the test.

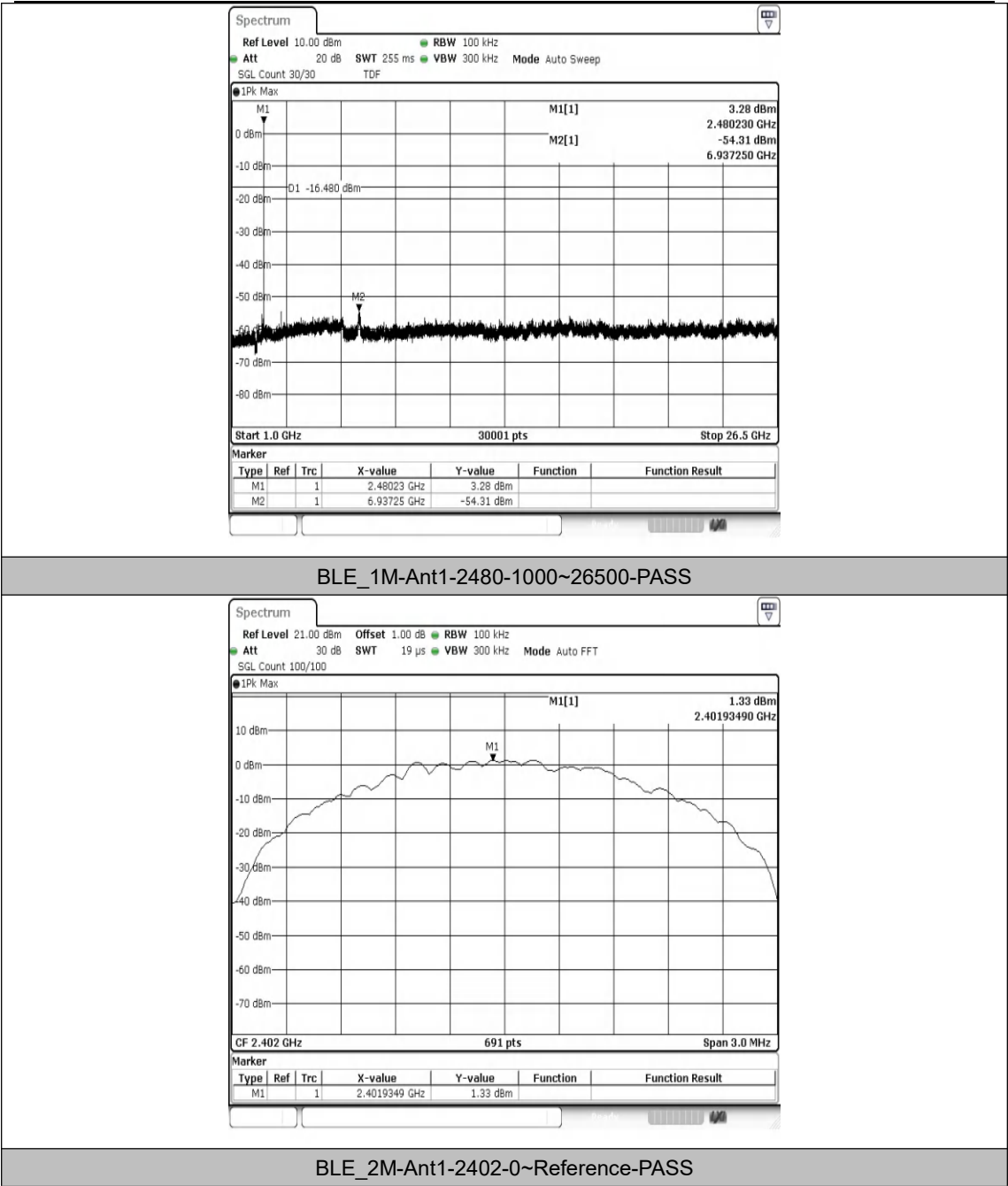
Test Graphs







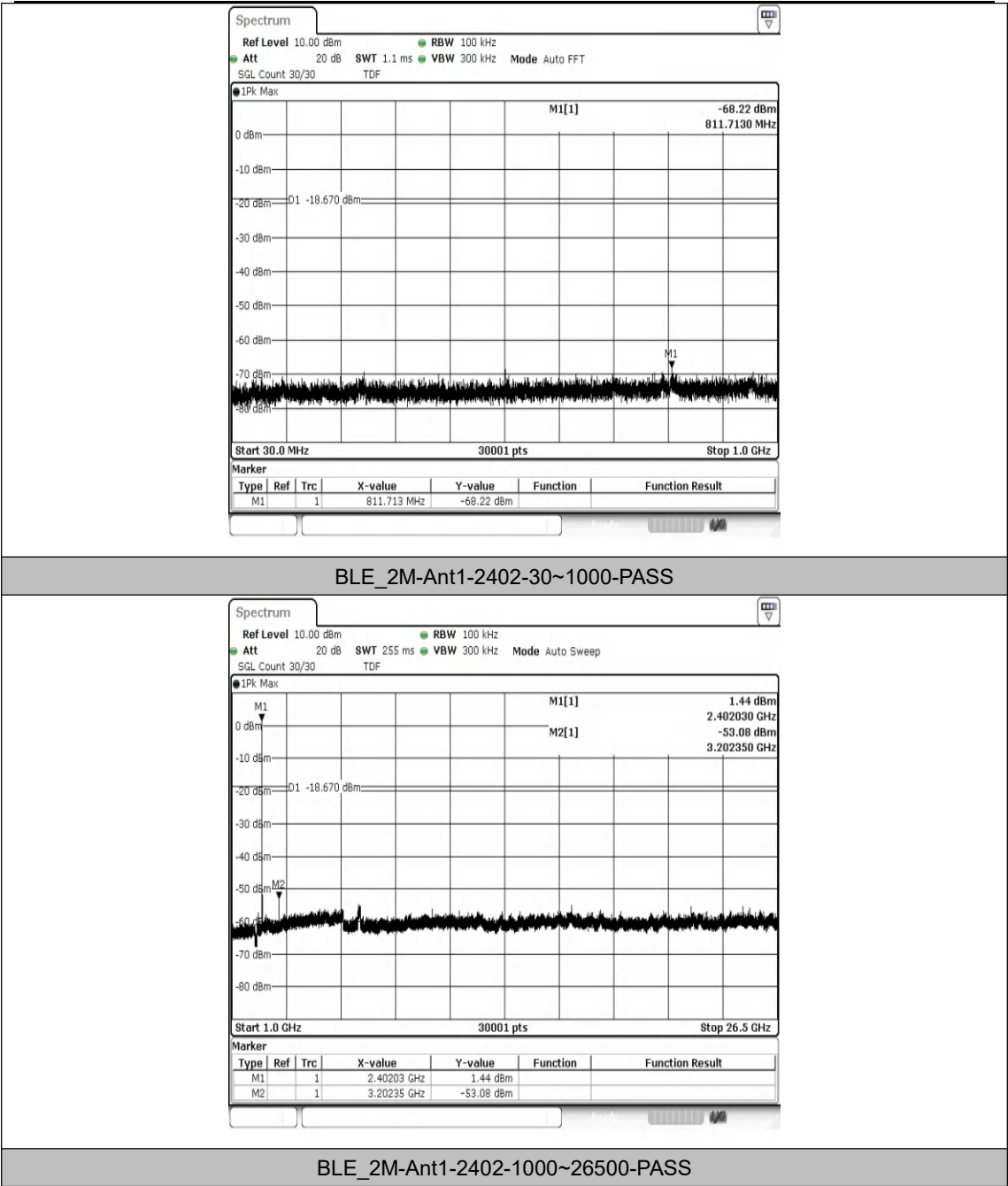


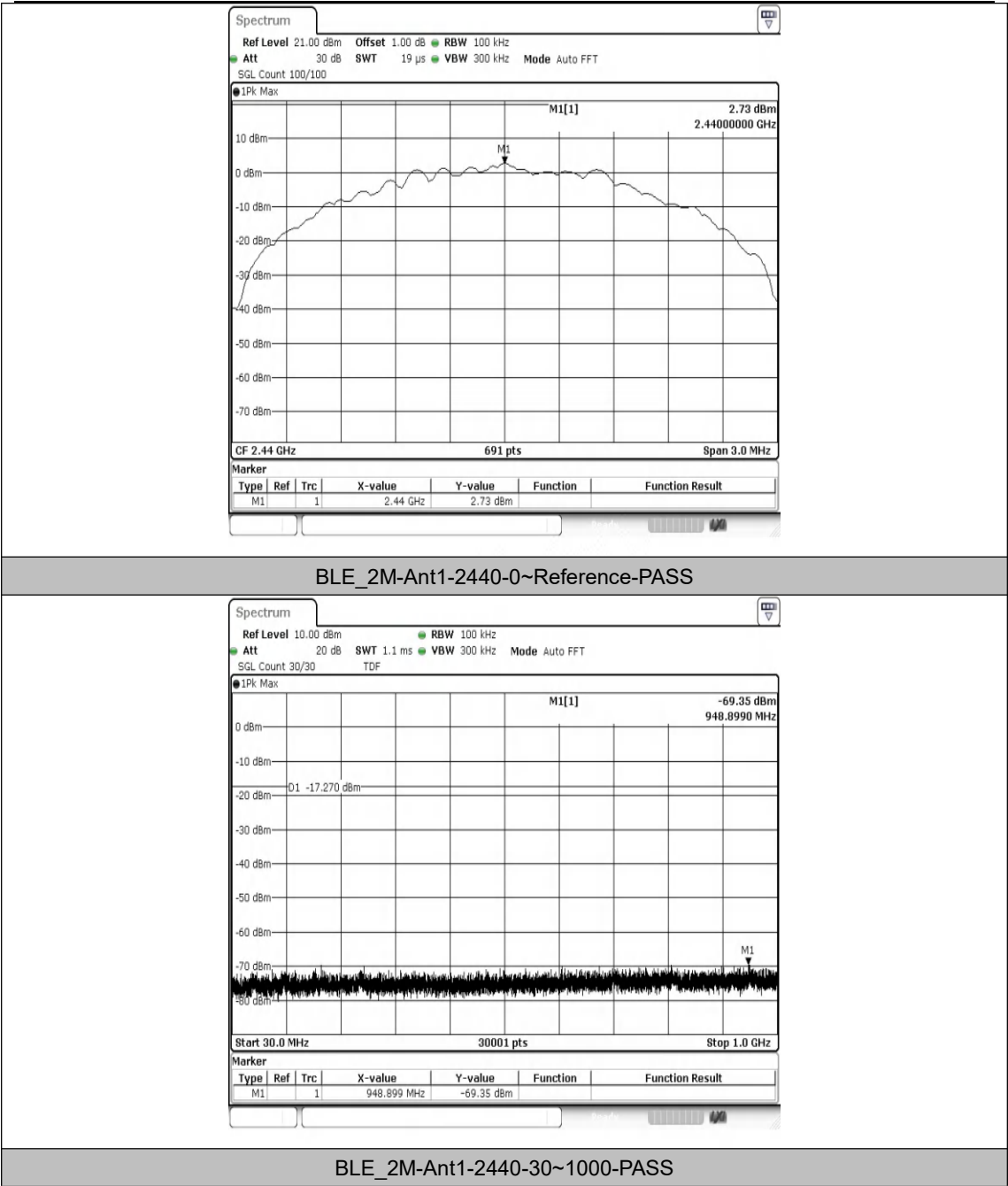


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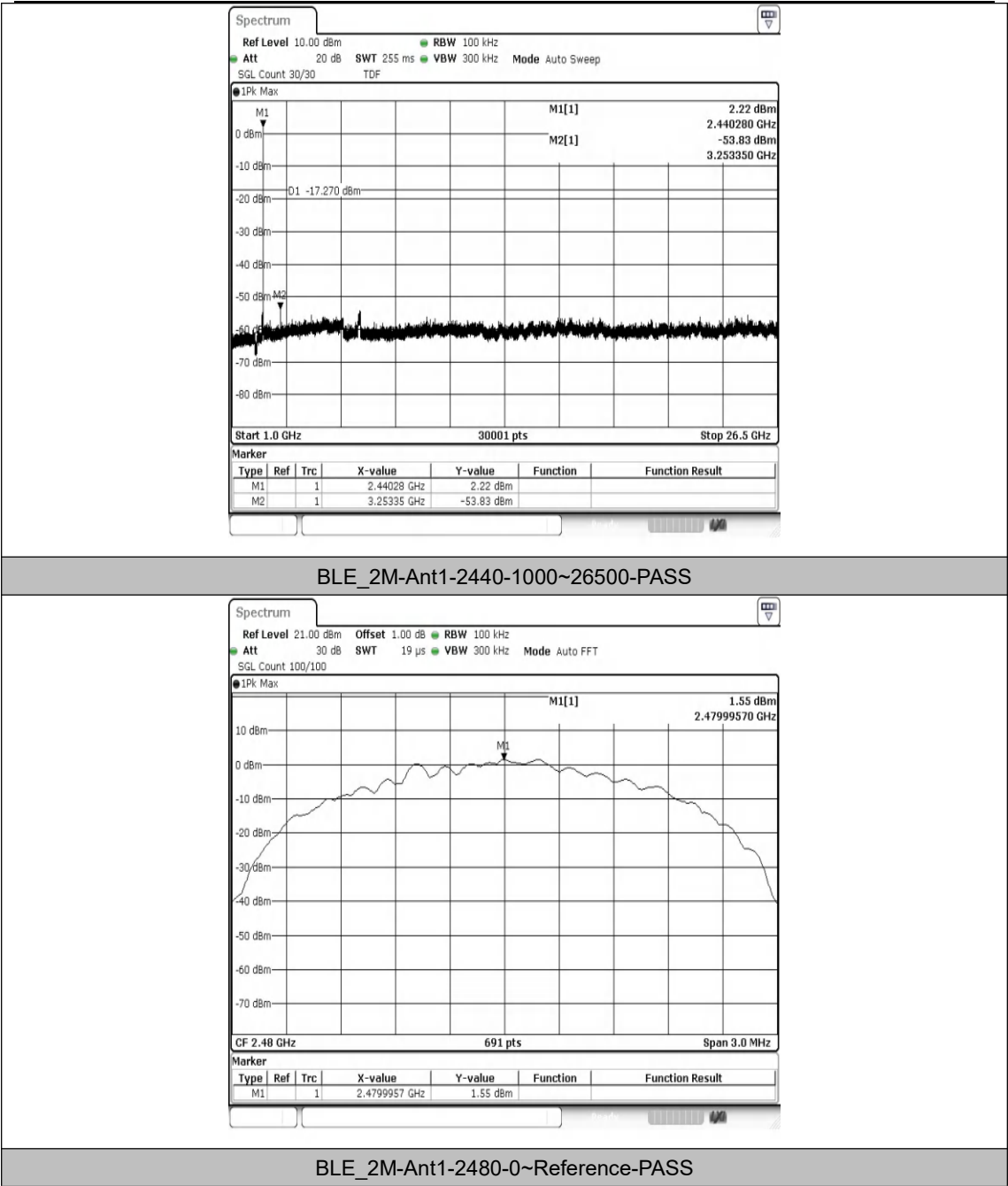


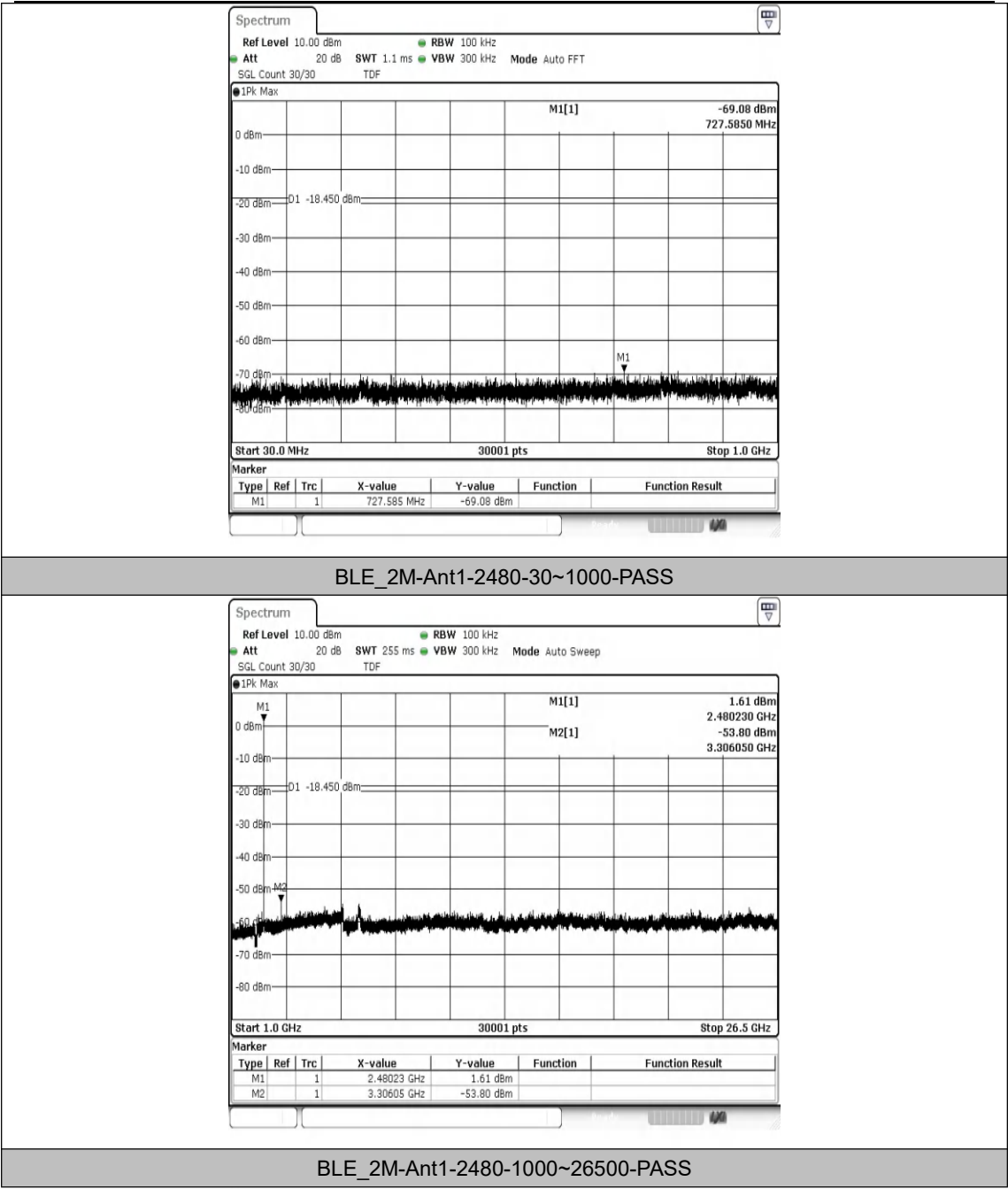


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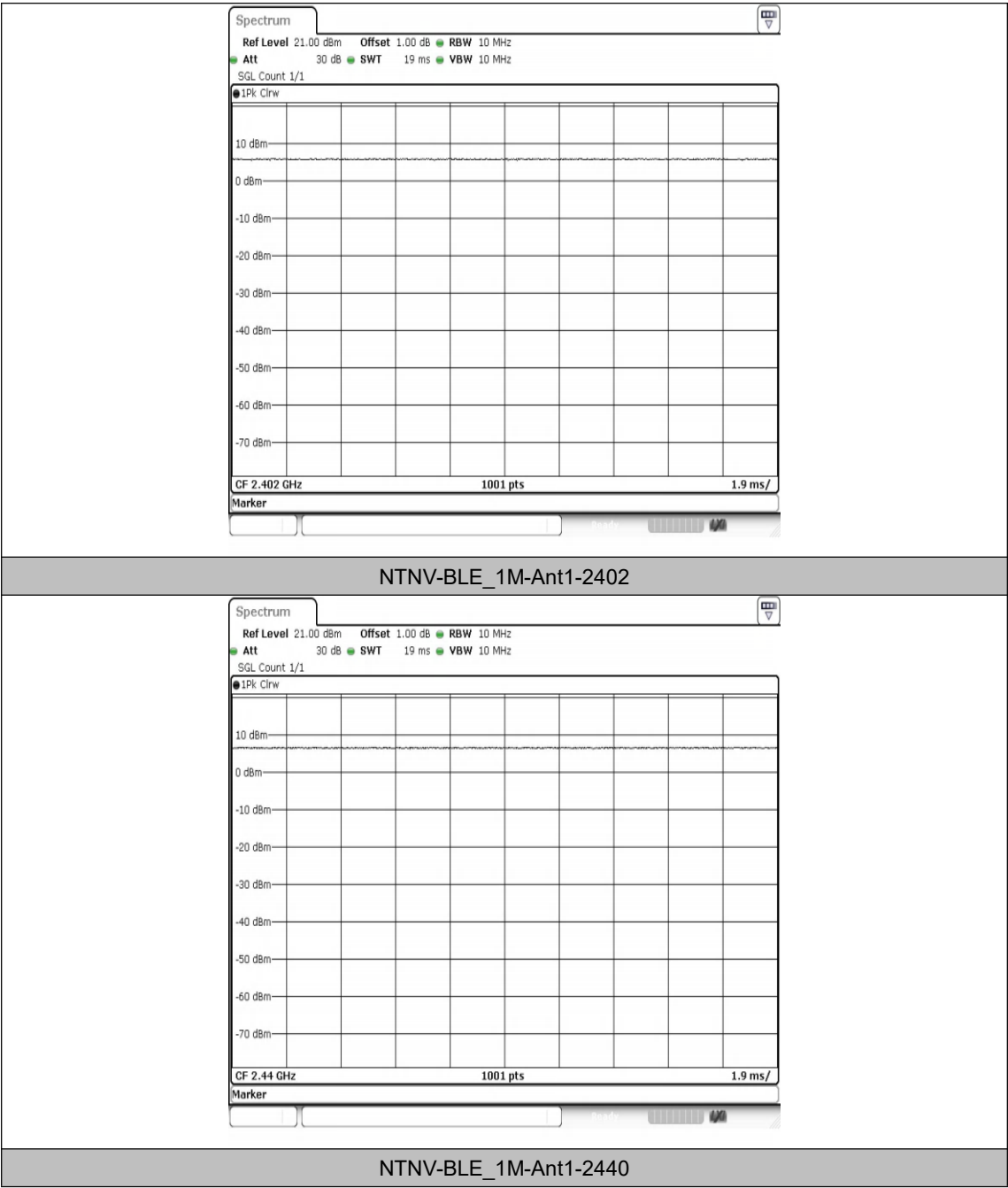
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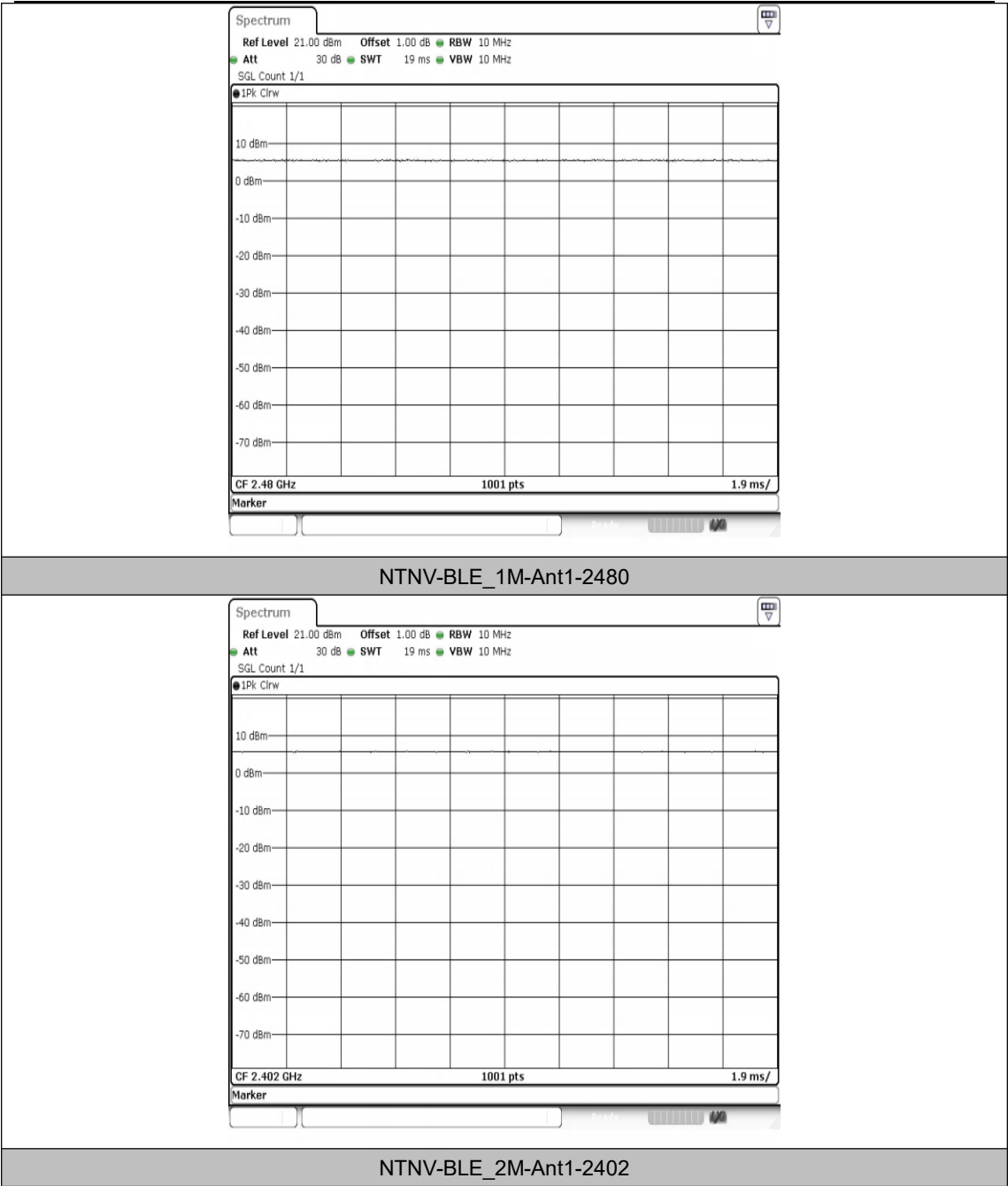
Appendix G: Duty Cycle

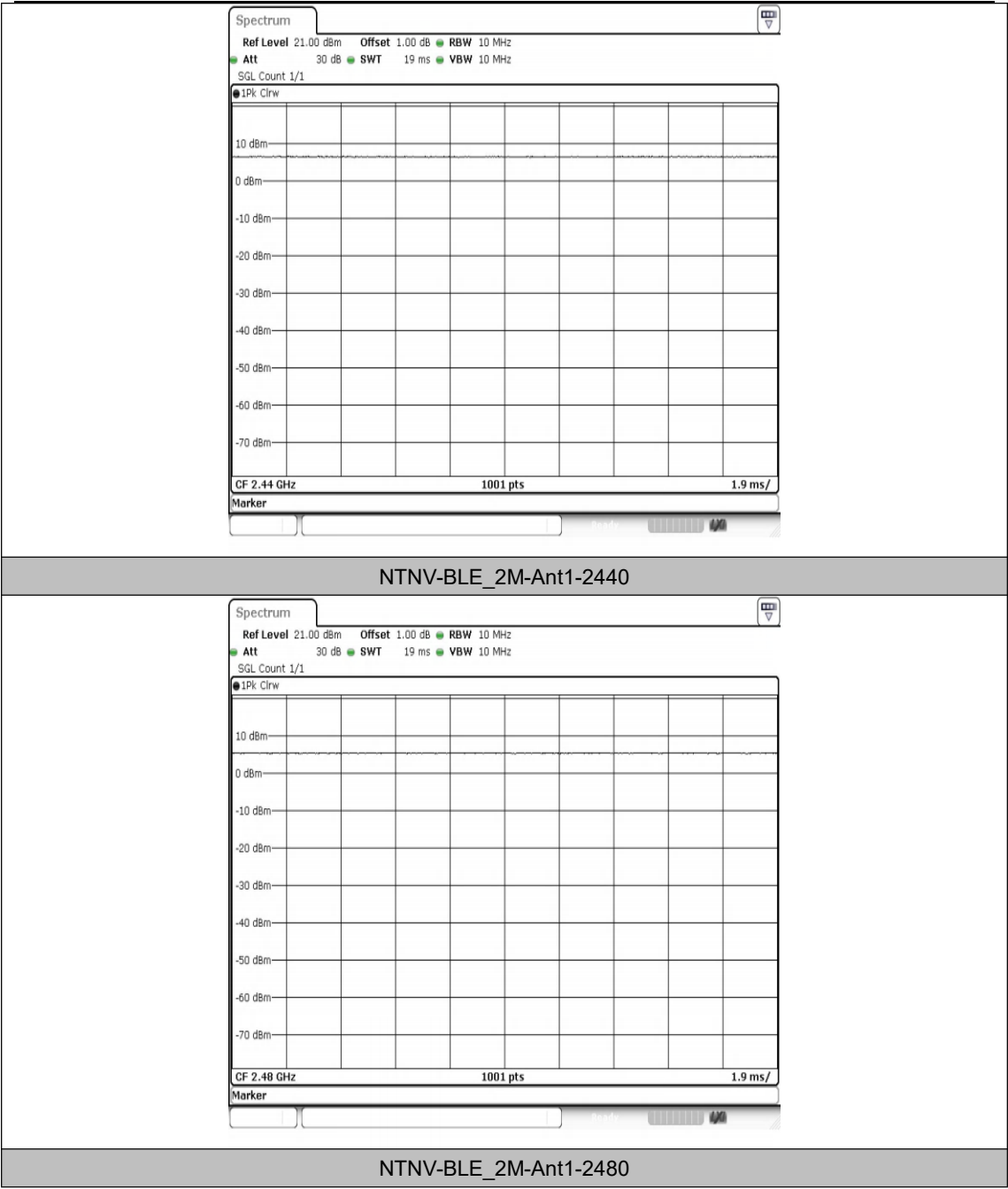
Test Result

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

Test Graphs







---End---