



Appendix B

RF Test Data for BT (BLE) (Conducted Measurement)

Product Name: LED Photography Light Stick

Trade Mark: N/A

Test Model: LP550

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



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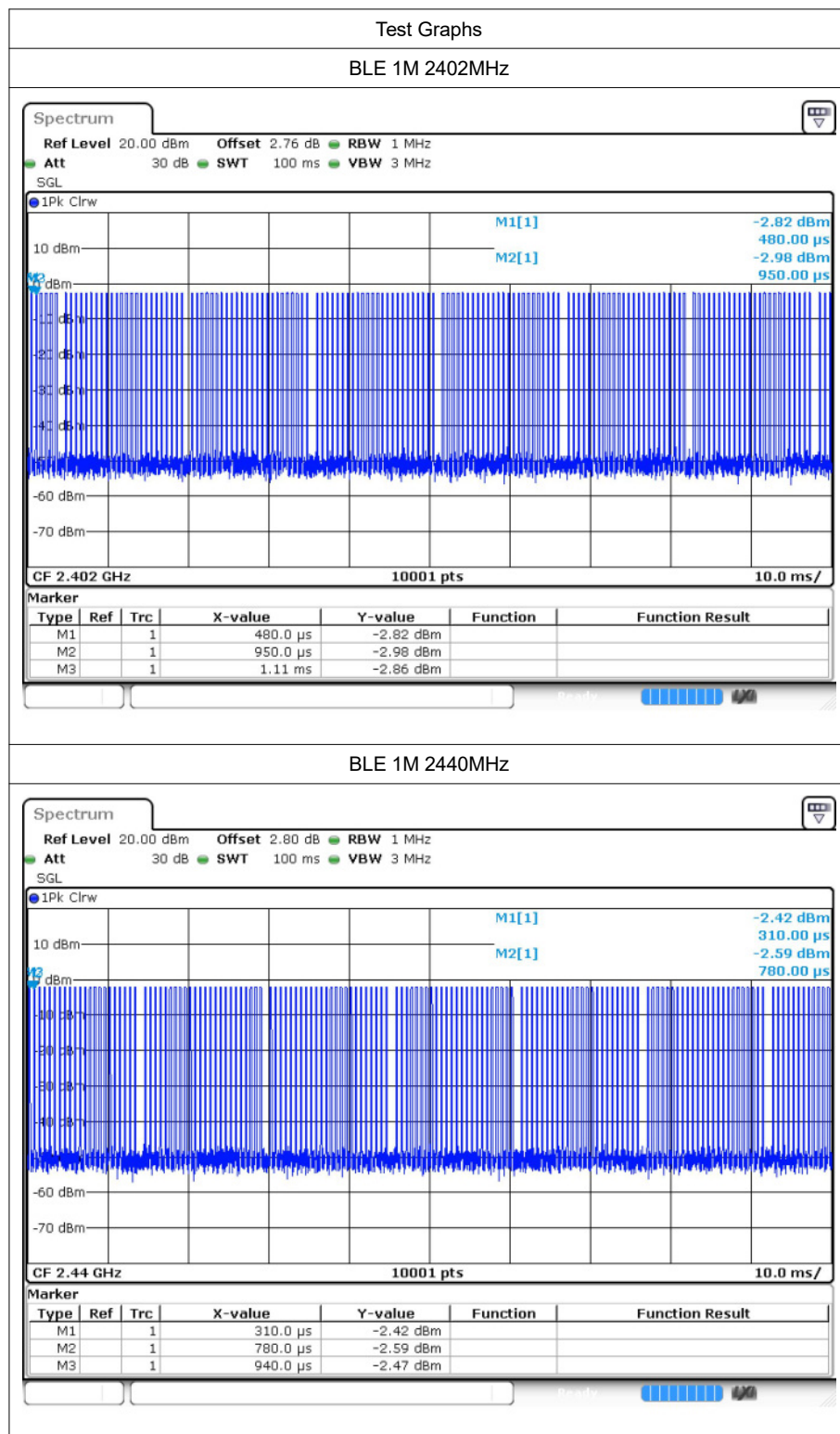


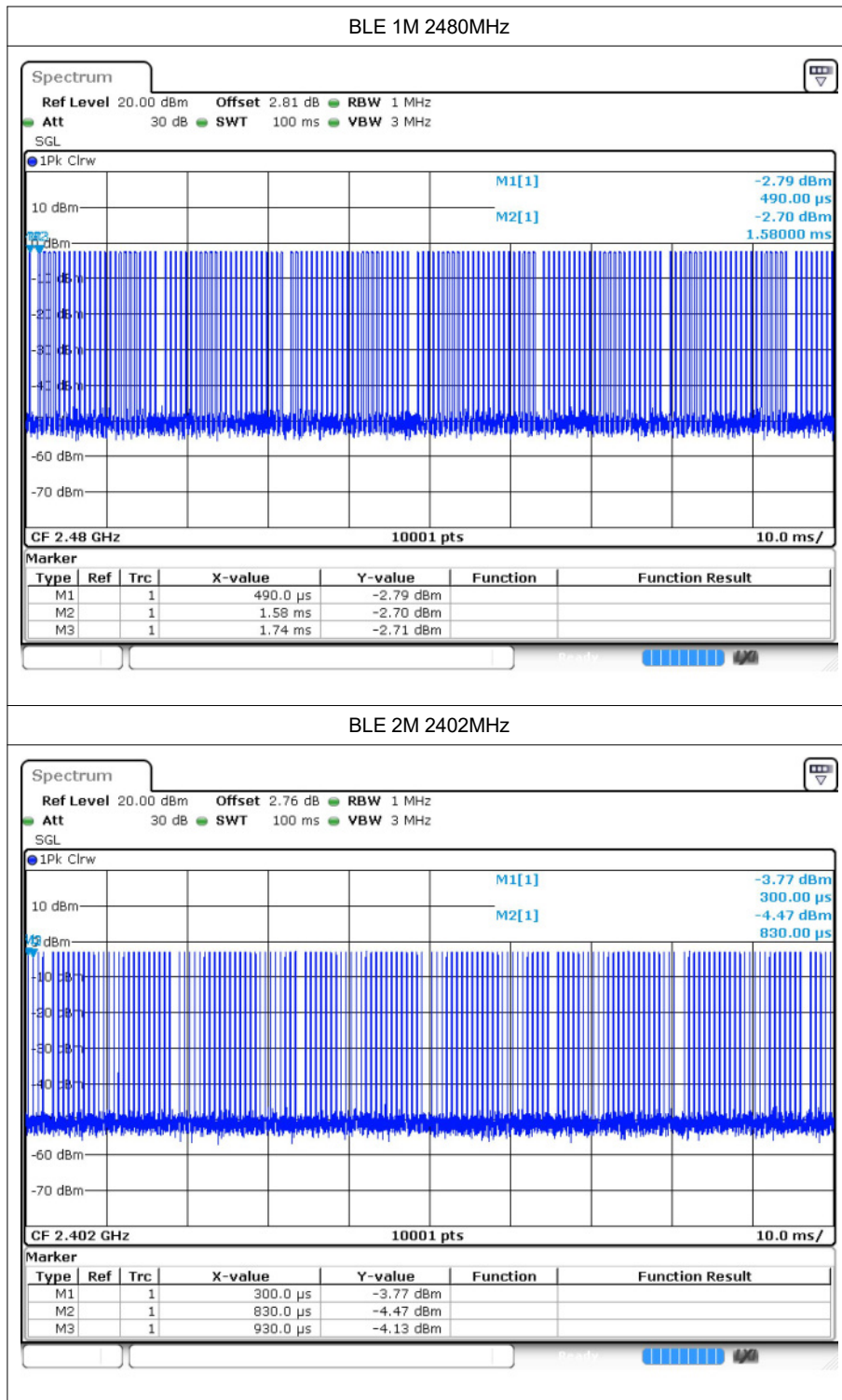
1 Duty Cycle

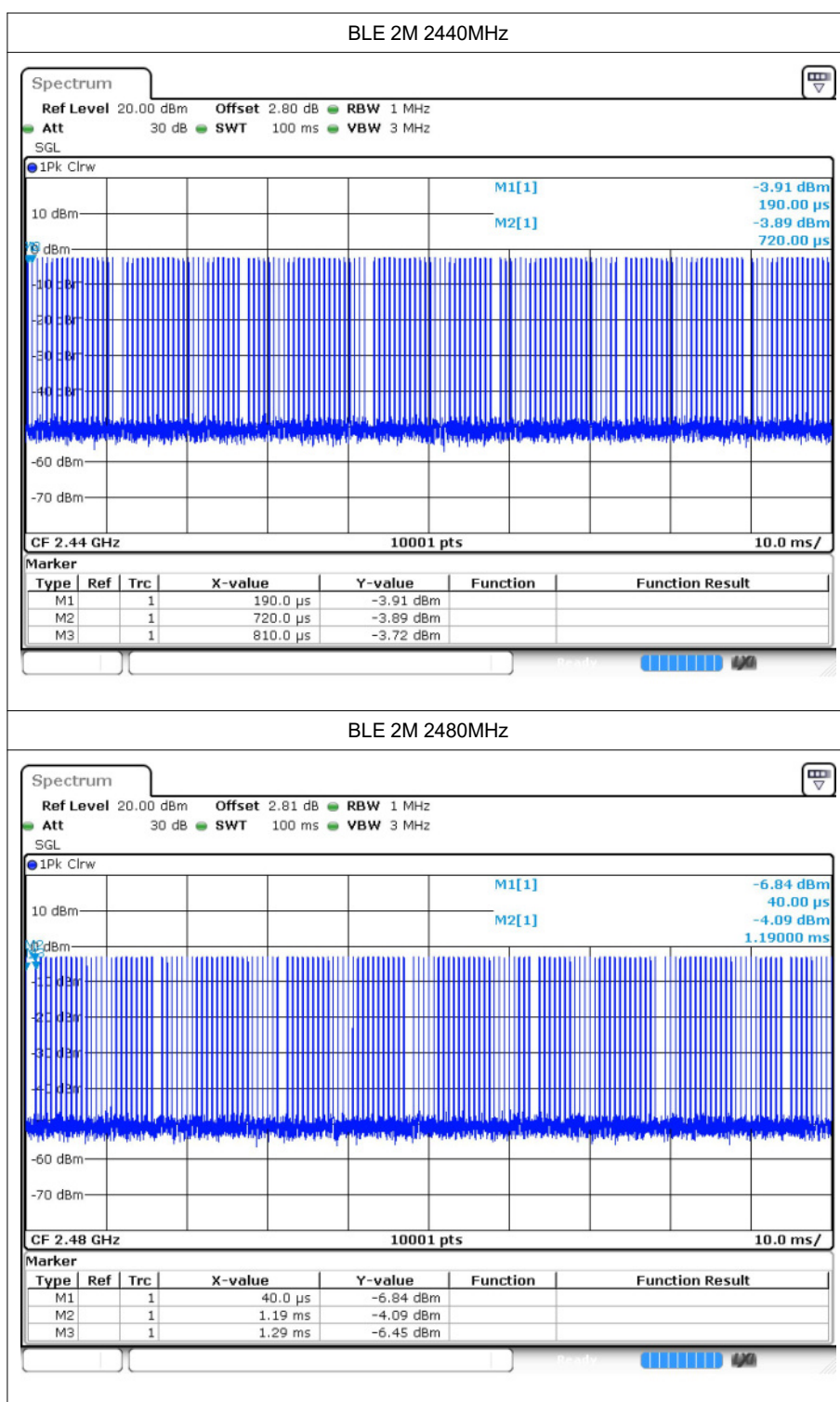
1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
BLE 1M	2402	26.41	5.78	6.25
BLE 1M	2440	26.85	5.71	6.25
BLE 1M	2480	26.71	5.73	6.25
BLE 2M	2402	16.07	7.94	10
BLE 2M	2440	16.17	7.91	11.11
BLE 2M	2480	16.1	7.93	10

1.2 Test Graphs







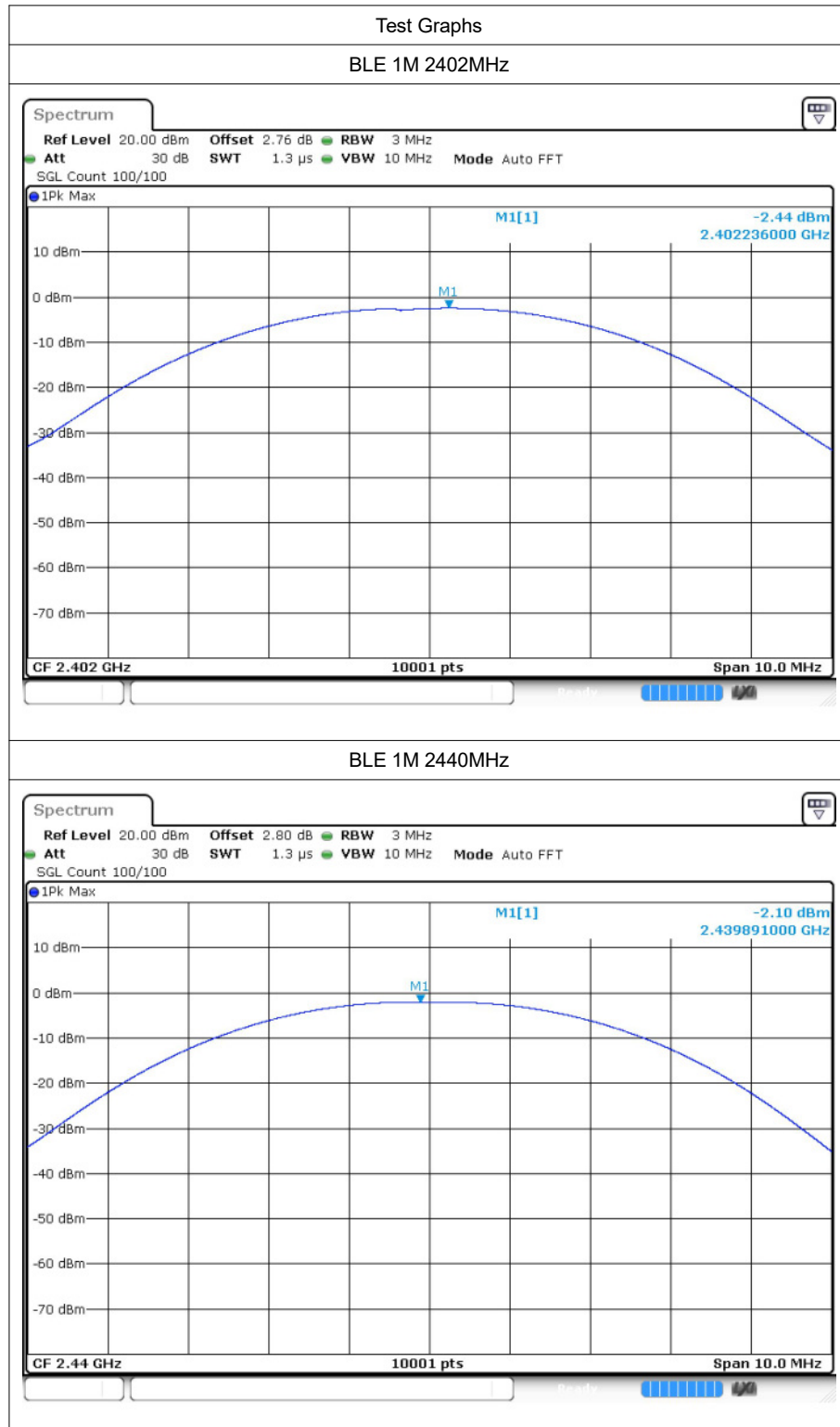


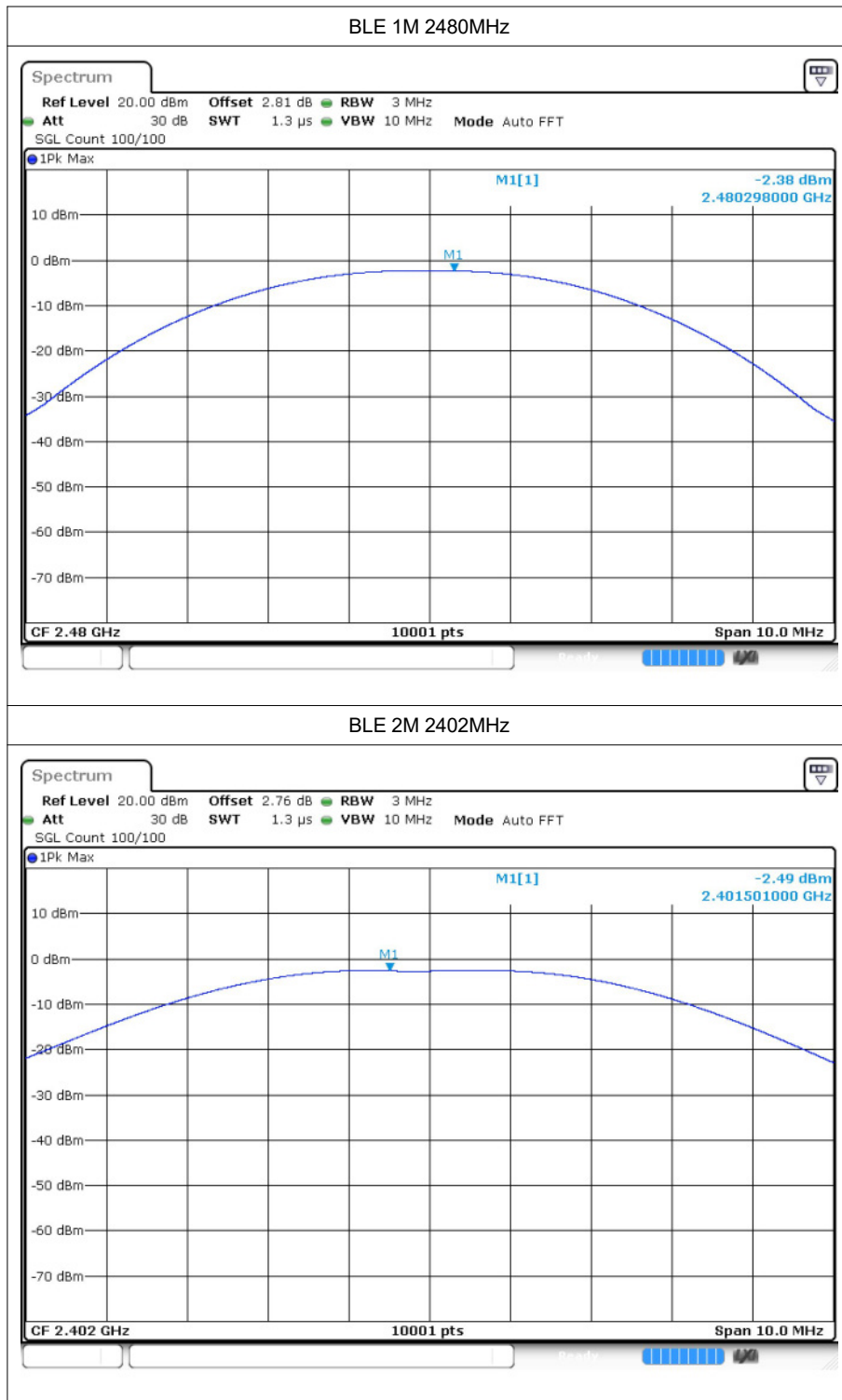
2 Maximum Conducted Output Power

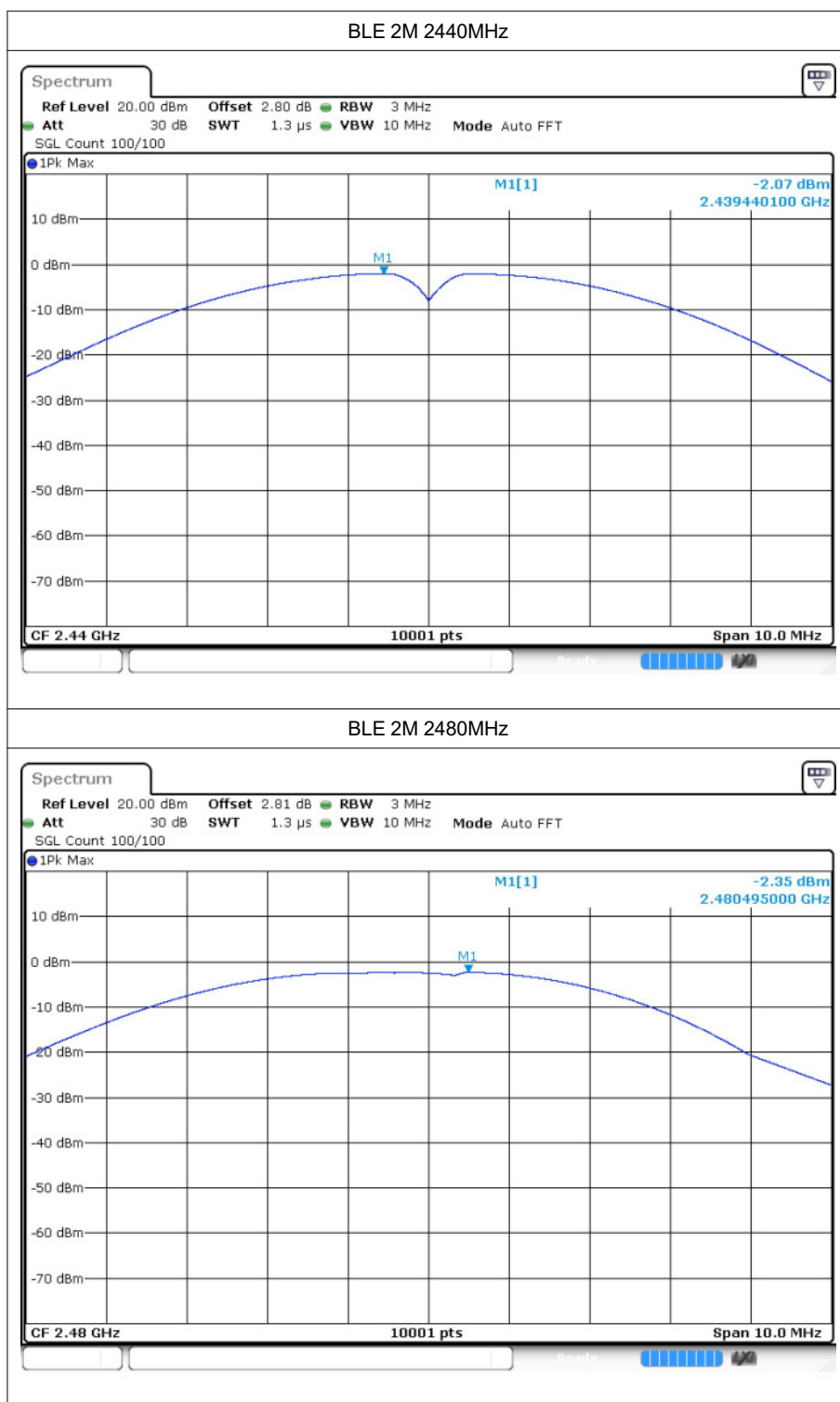
2.1 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	-2.44	30	Pass
BLE 1M	2440	-2.1	30	Pass
BLE 1M	2480	-2.38	30	Pass
BLE 2M	2402	-2.49	30	Pass
BLE 2M	2440	-2.07	30	Pass
BLE 2M	2480	-2.35	30	Pass

2.2 Test Graphs







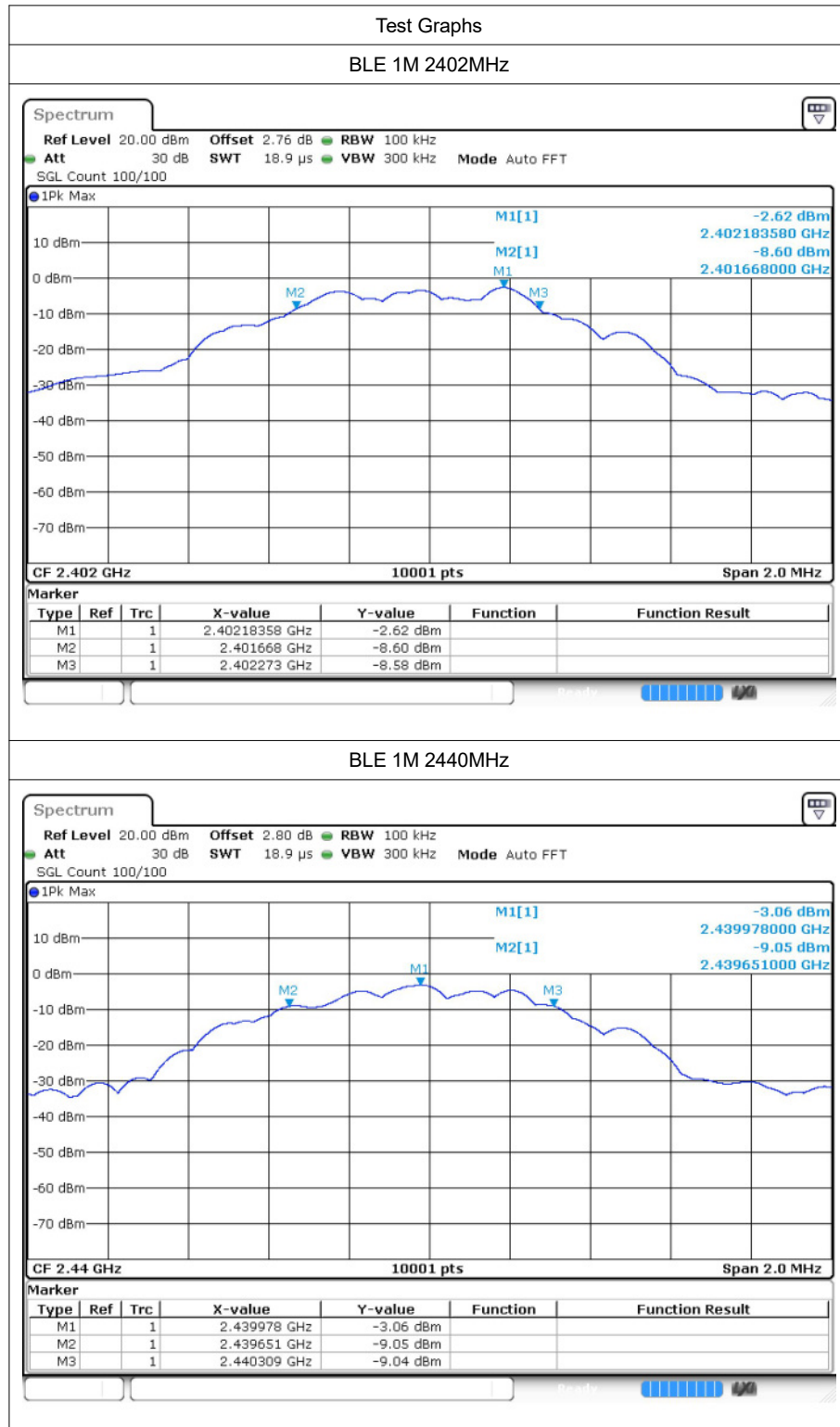


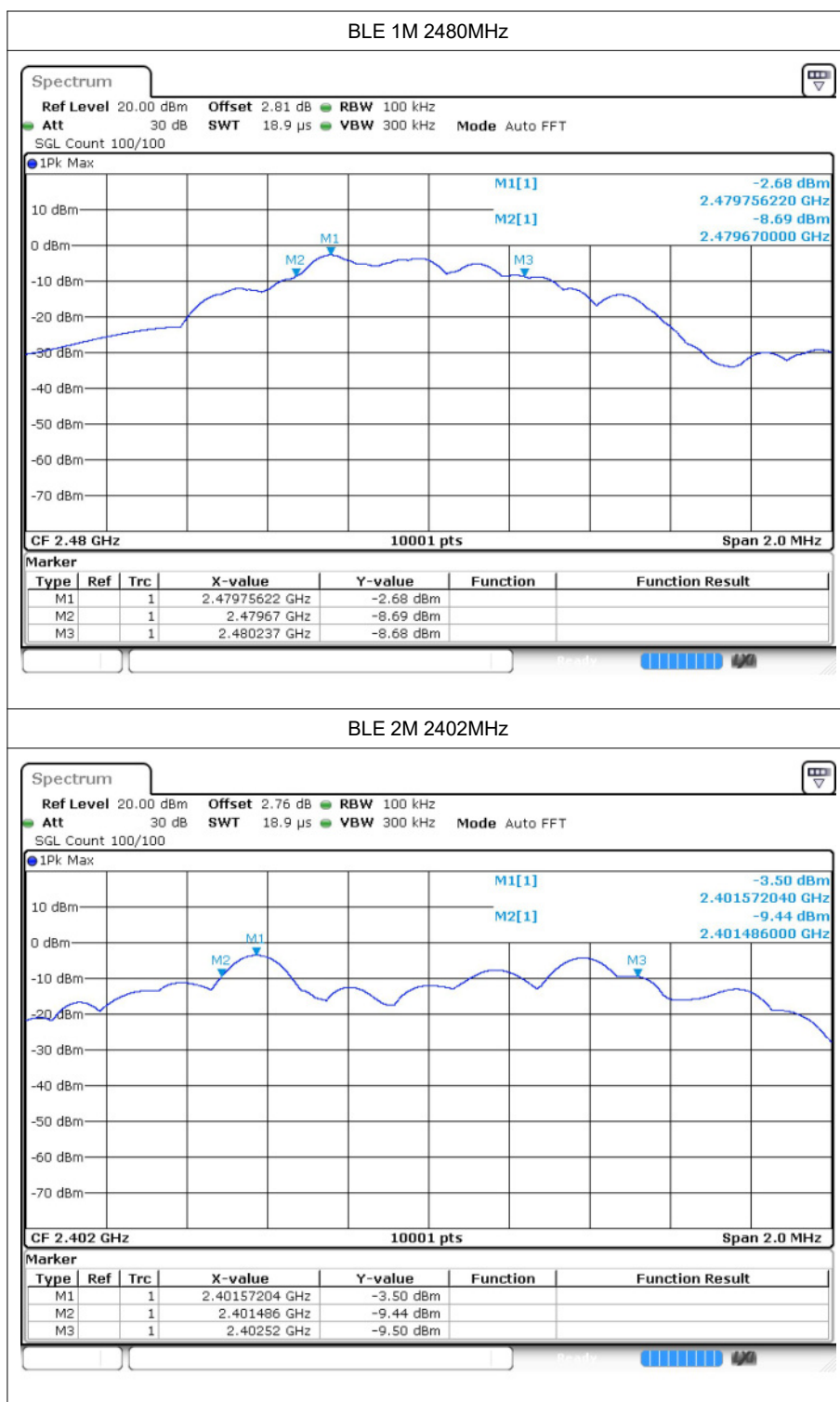
3 -6dB Bandwidth

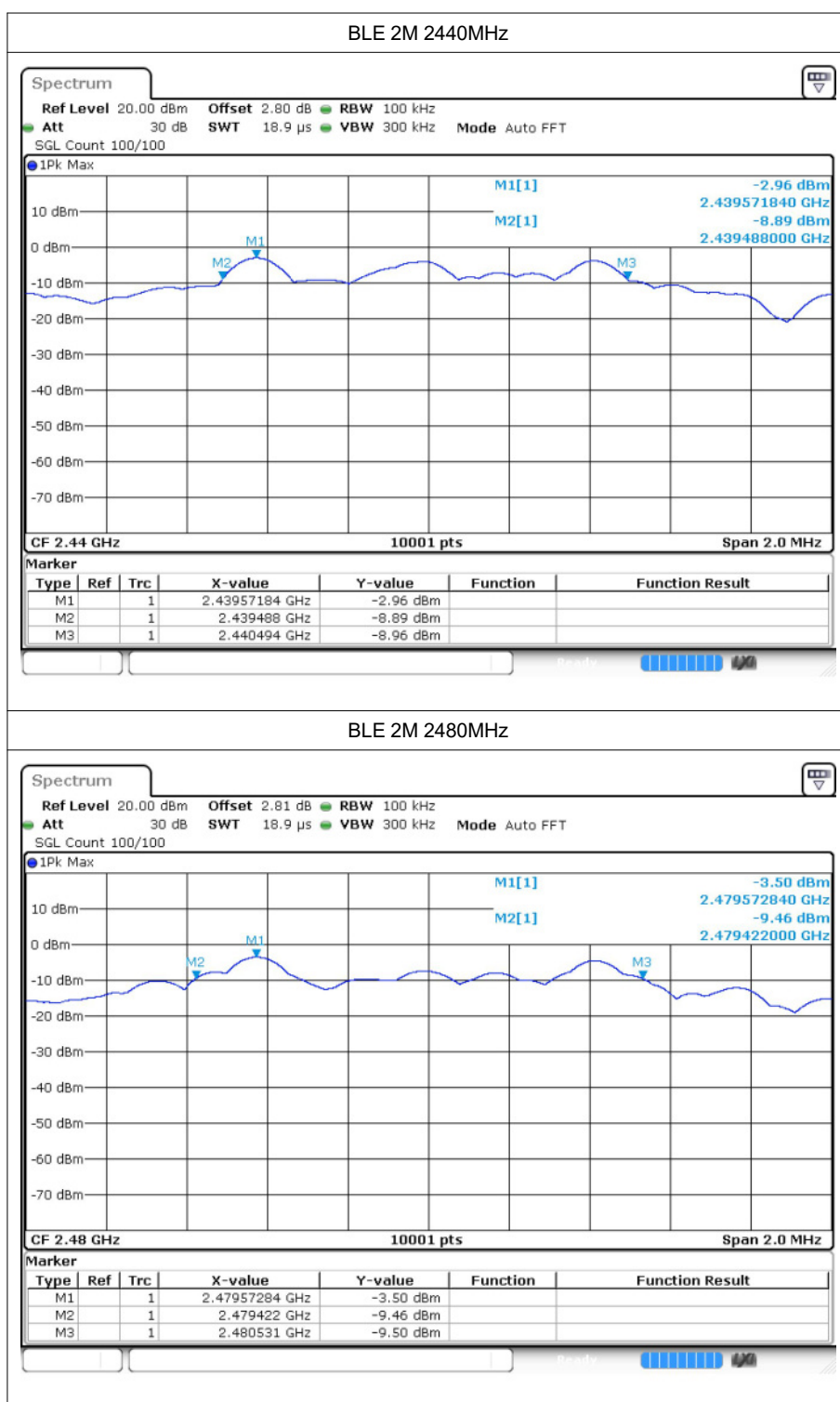
3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.606	0.5	Pass
BLE 1M	2440	0.659	0.5	Pass
BLE 1M	2480	0.567	0.5	Pass
BLE 2M	2402	1.035	0.5	Pass
BLE 2M	2440	1.006	0.5	Pass
BLE 2M	2480	1.109	0.5	Pass

3.2 Test Graphs





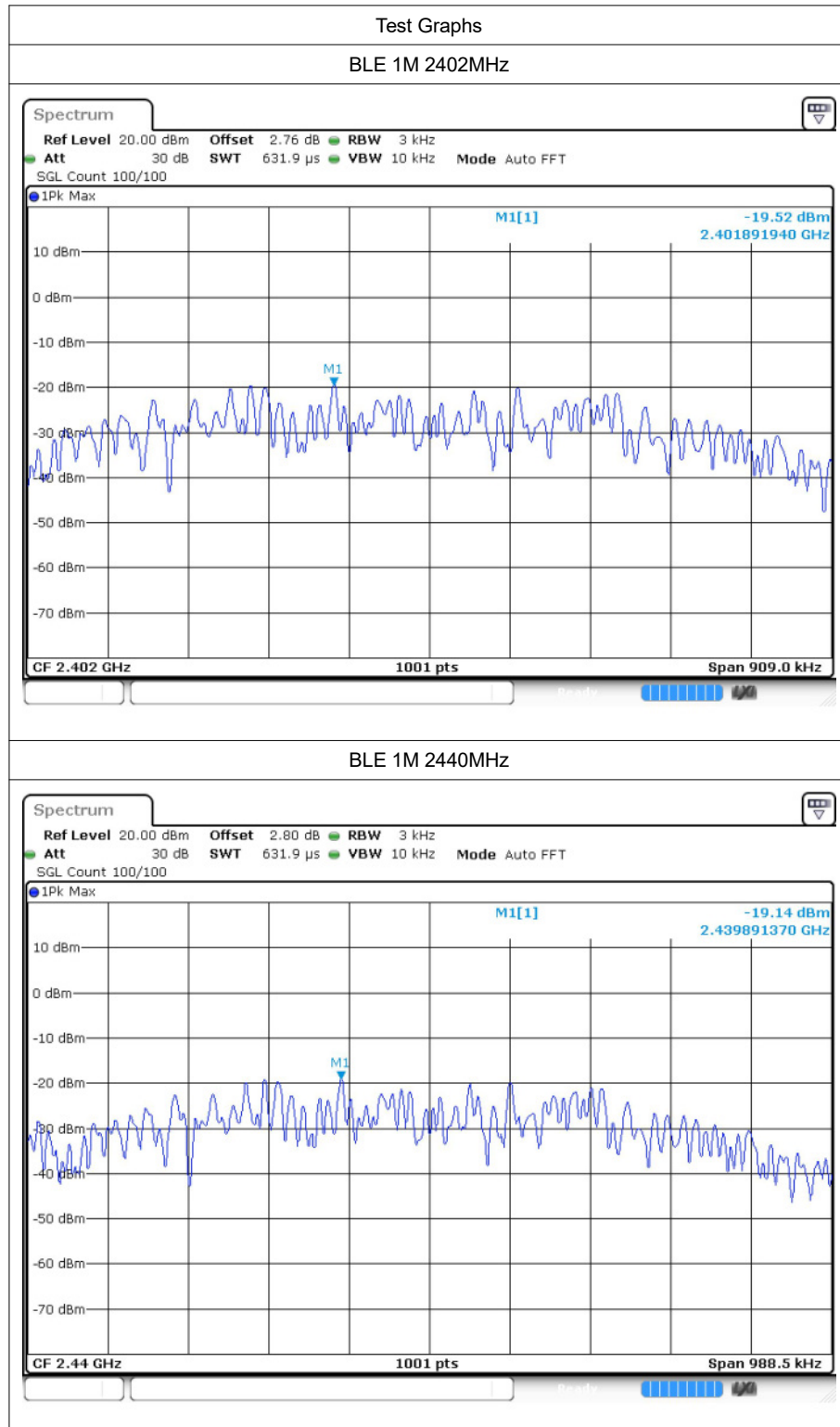


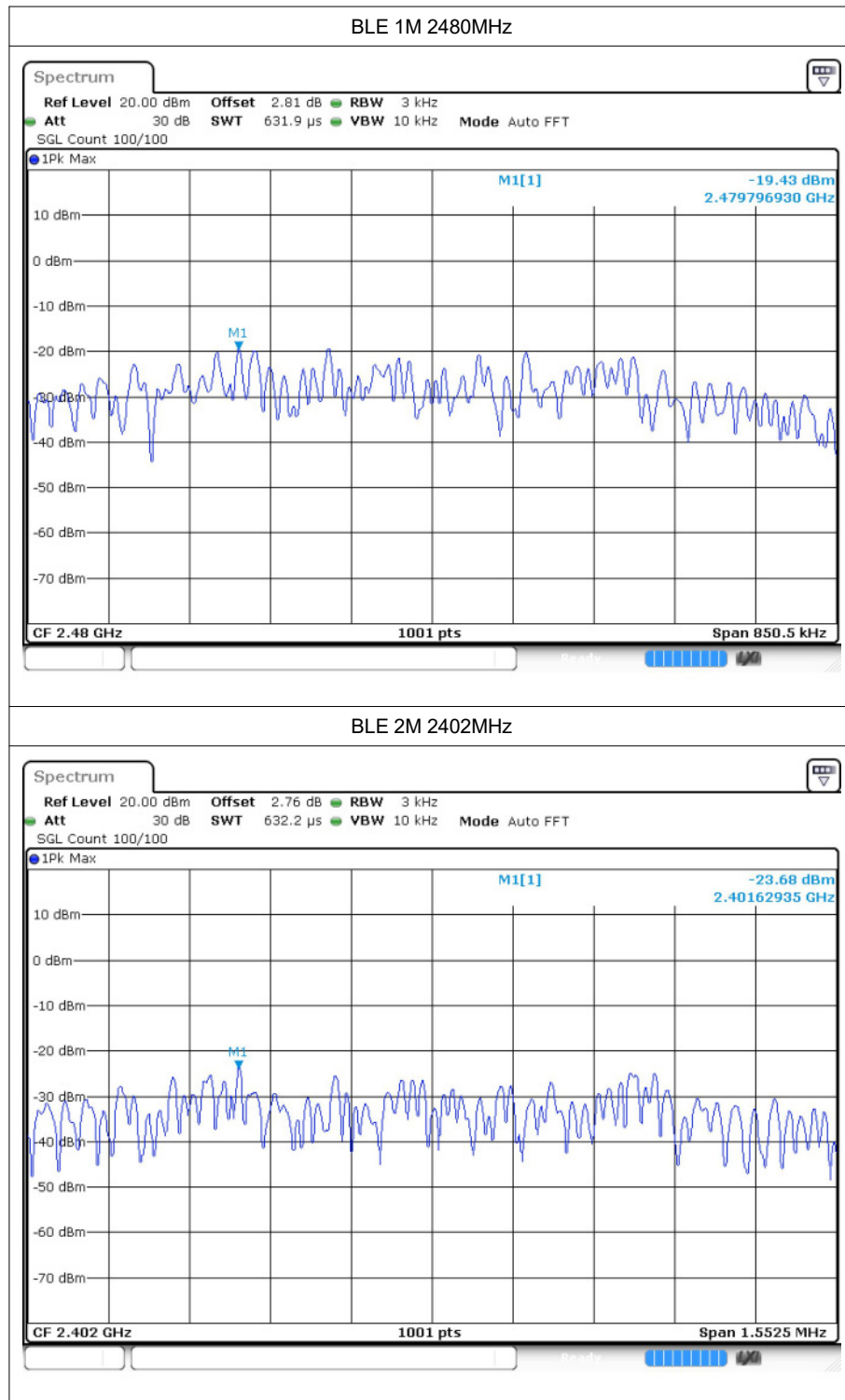
4 Maximum Power Spectral Density Level

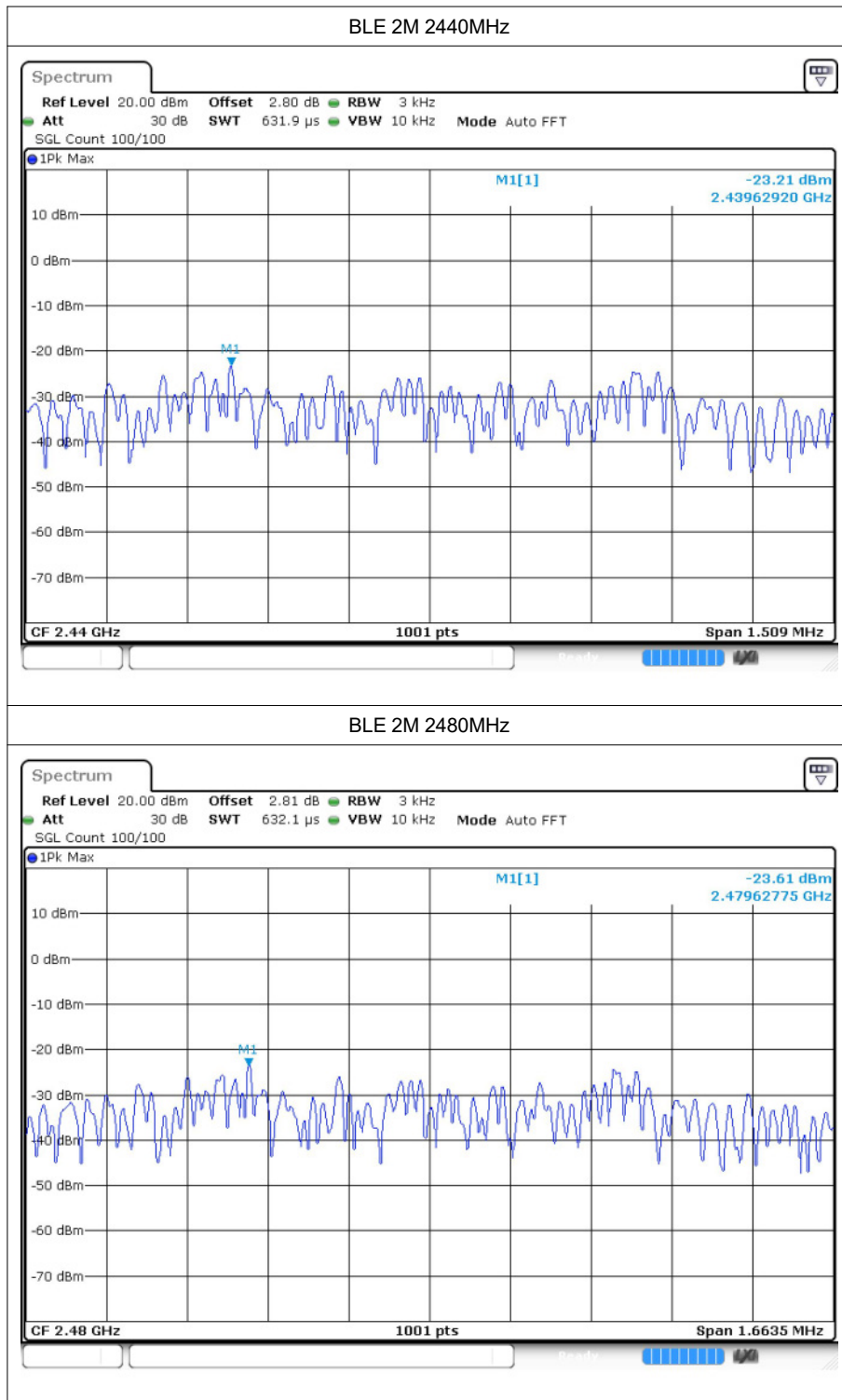
4.1 Test Result

Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-19.52	≤8	Pass
BLE 1M	2440	-19.14	≤8	Pass
BLE 1M	2480	-19.43	≤8	Pass
BLE 2M	2402	-23.68	≤8	Pass
BLE 2M	2440	-23.21	≤8	Pass
BLE 2M	2480	-23.61	≤8	Pass

4.2 Test Graphs







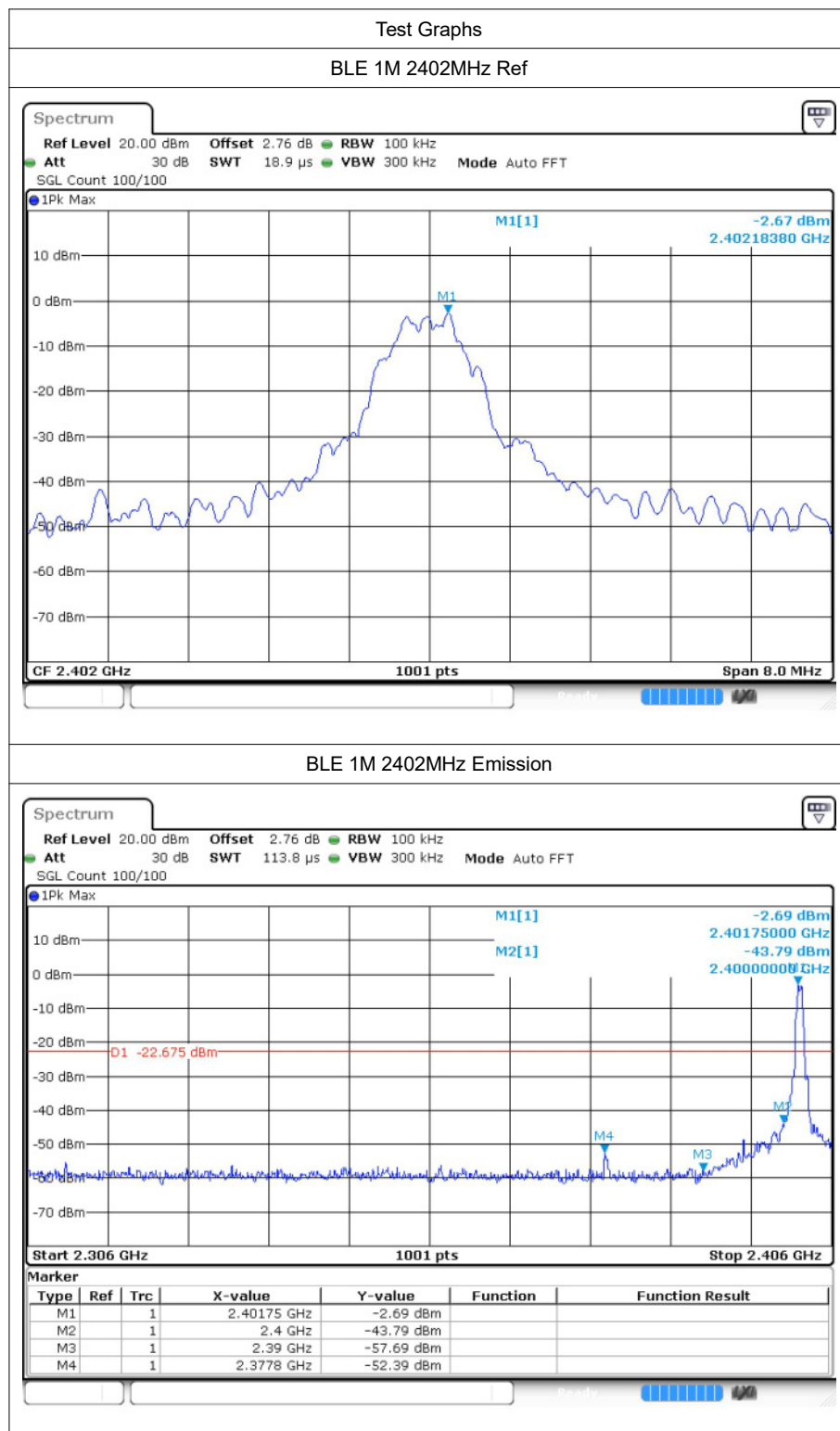


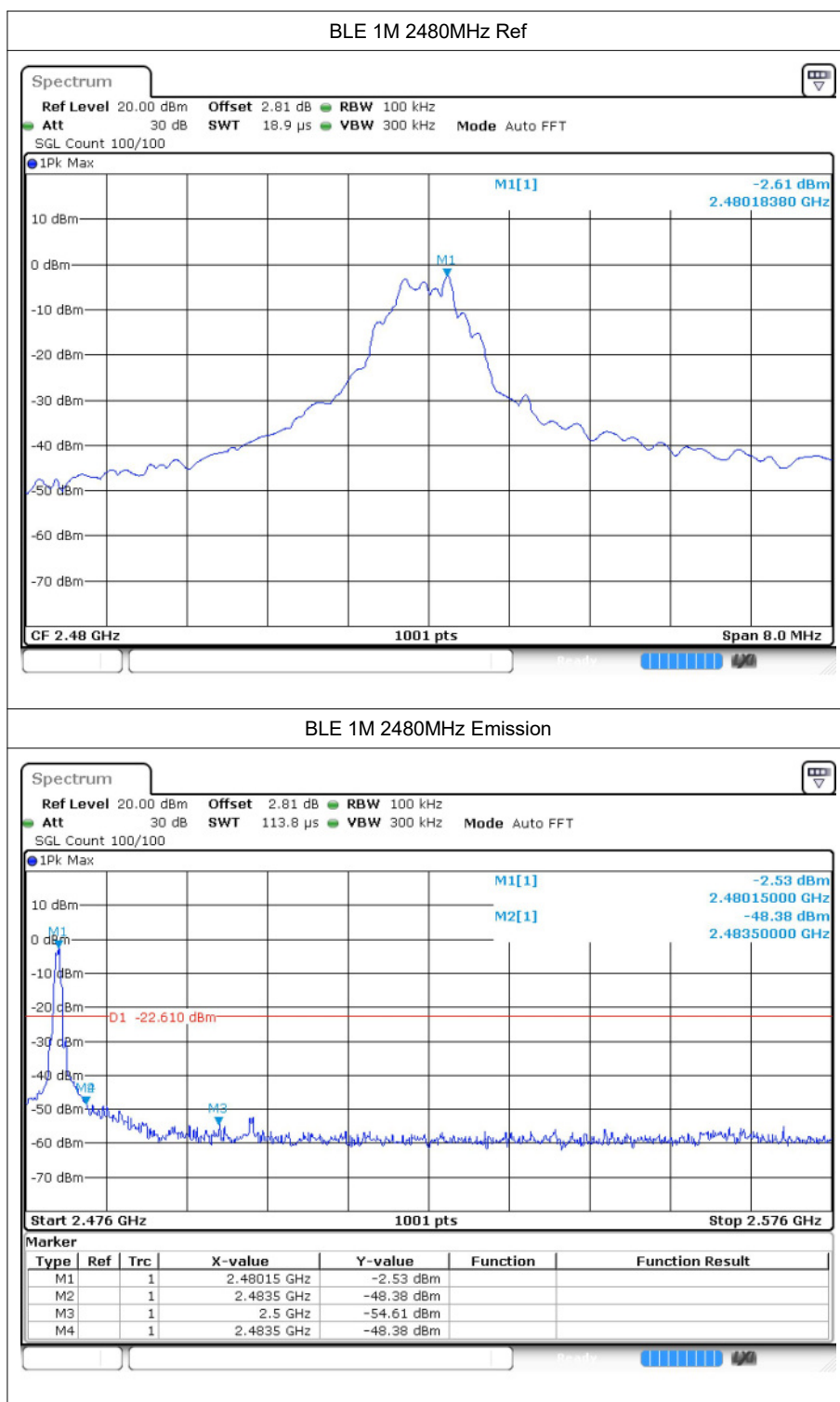
5 Band Edge

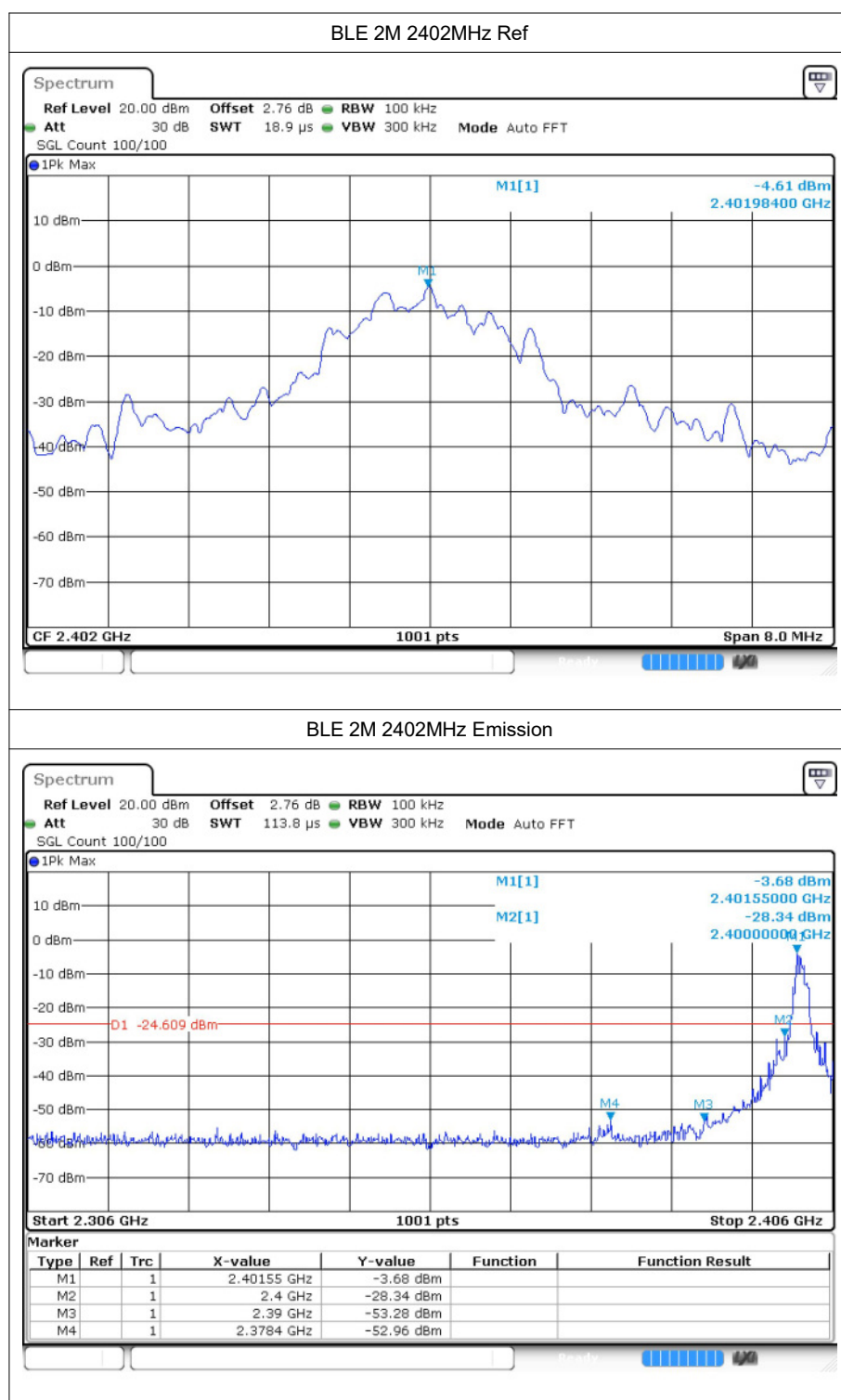
5.1 Test Result

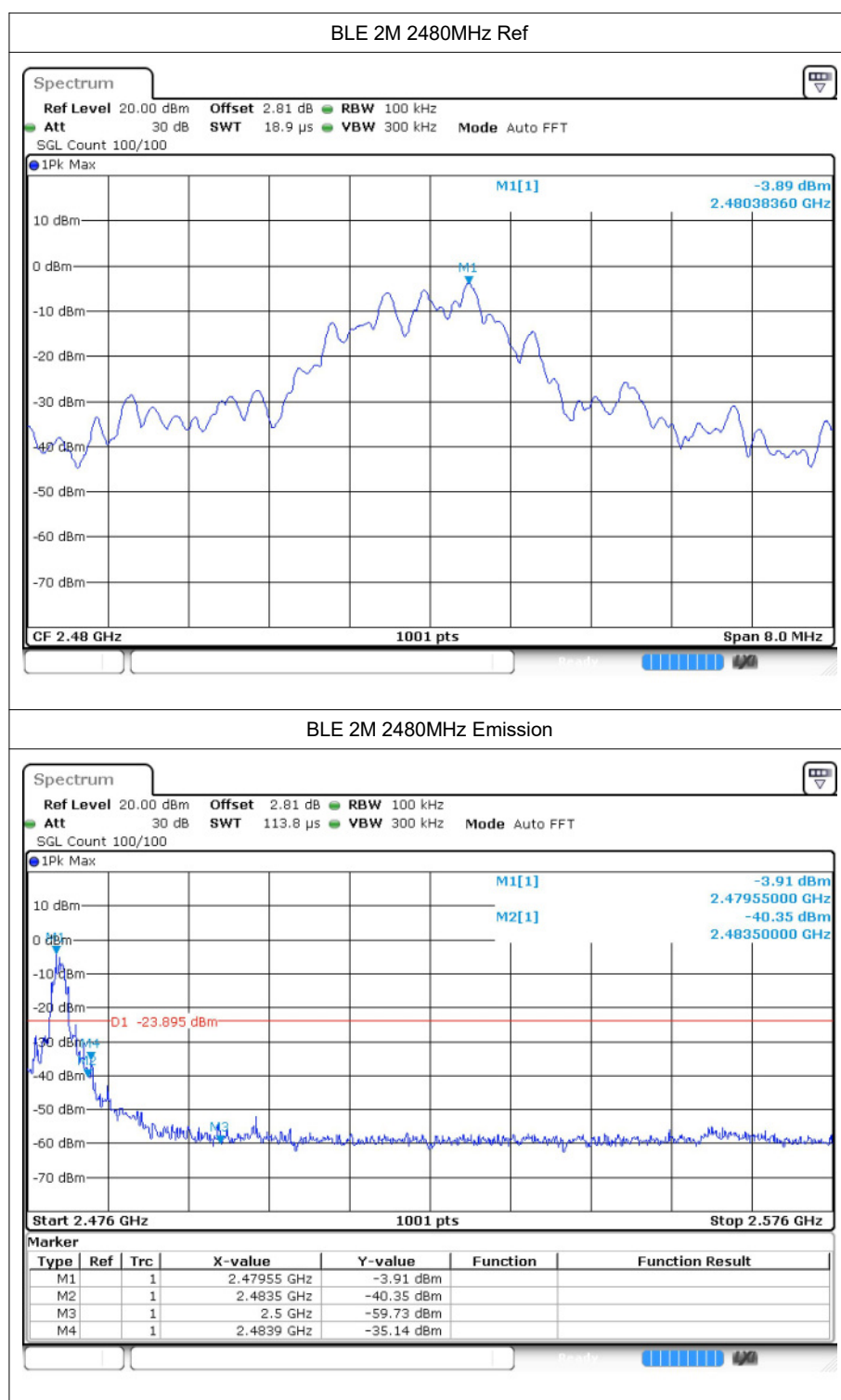
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-49.71	-20	Pass
BLE 1M	2480	-45.77	-20	Pass
BLE 2M	2402	-48.34	-20	Pass
BLE 2M	2480	-31.24	-20	Pass

5.2 Test Graphs









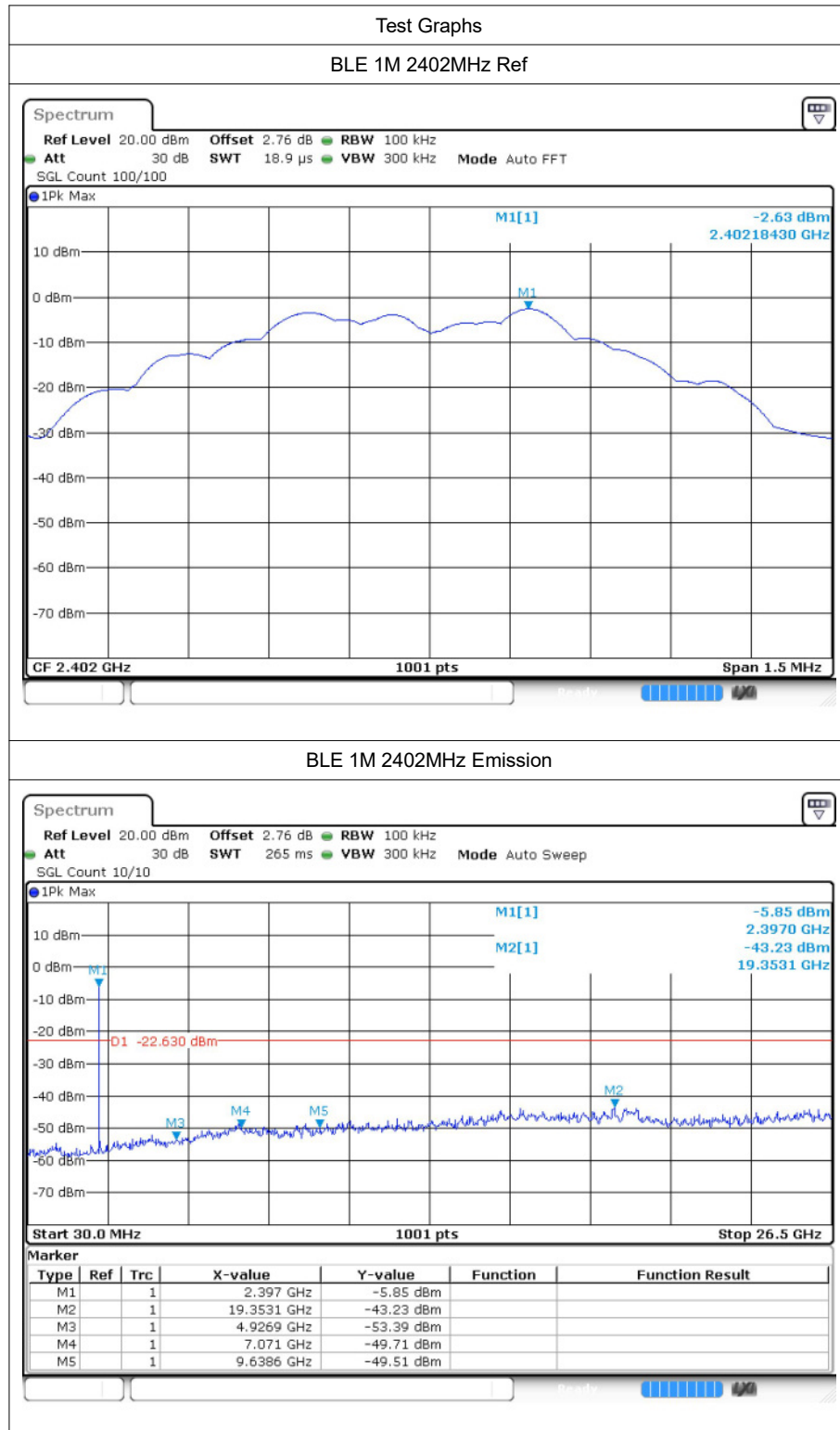


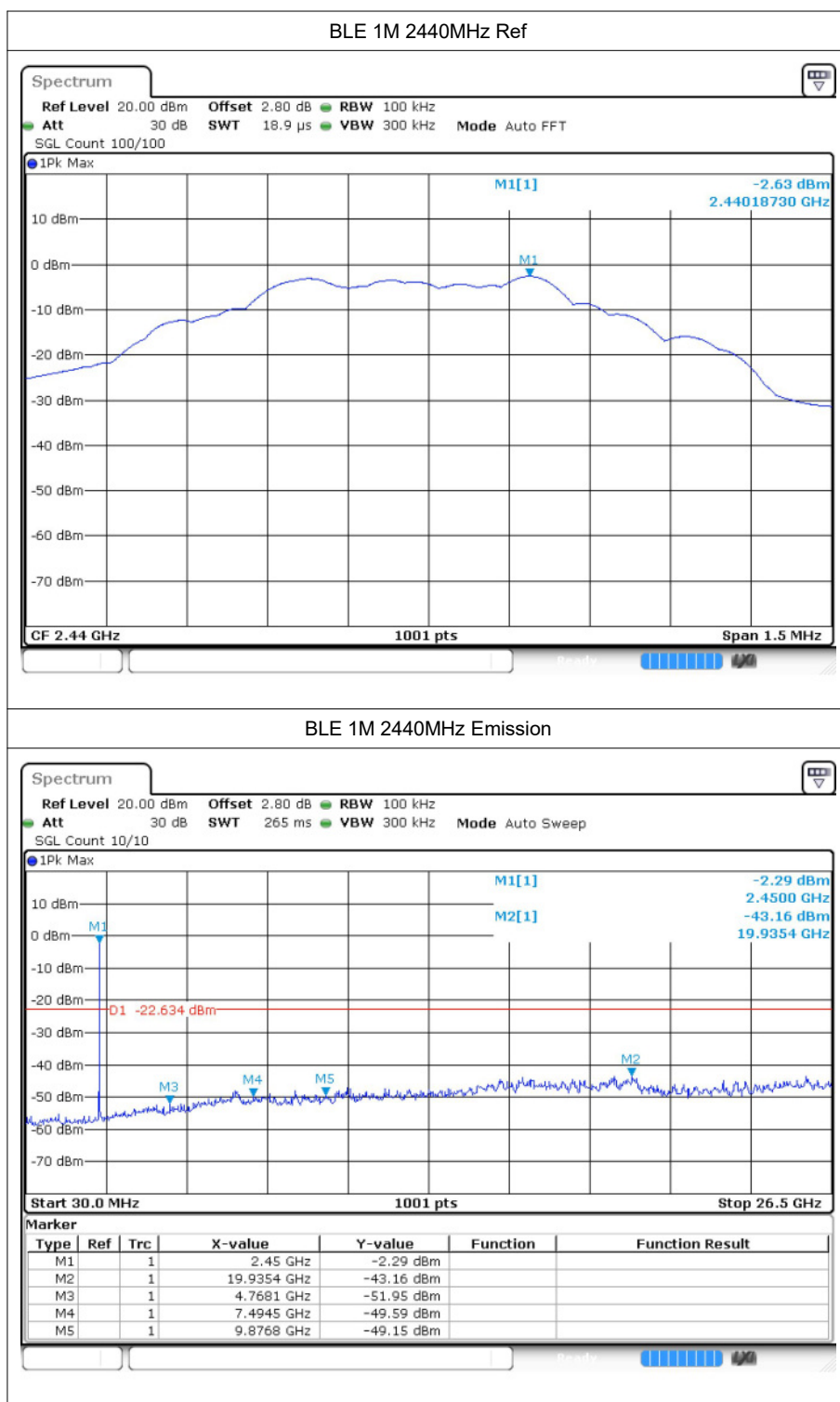
6 Conducted RF Spurious Emission

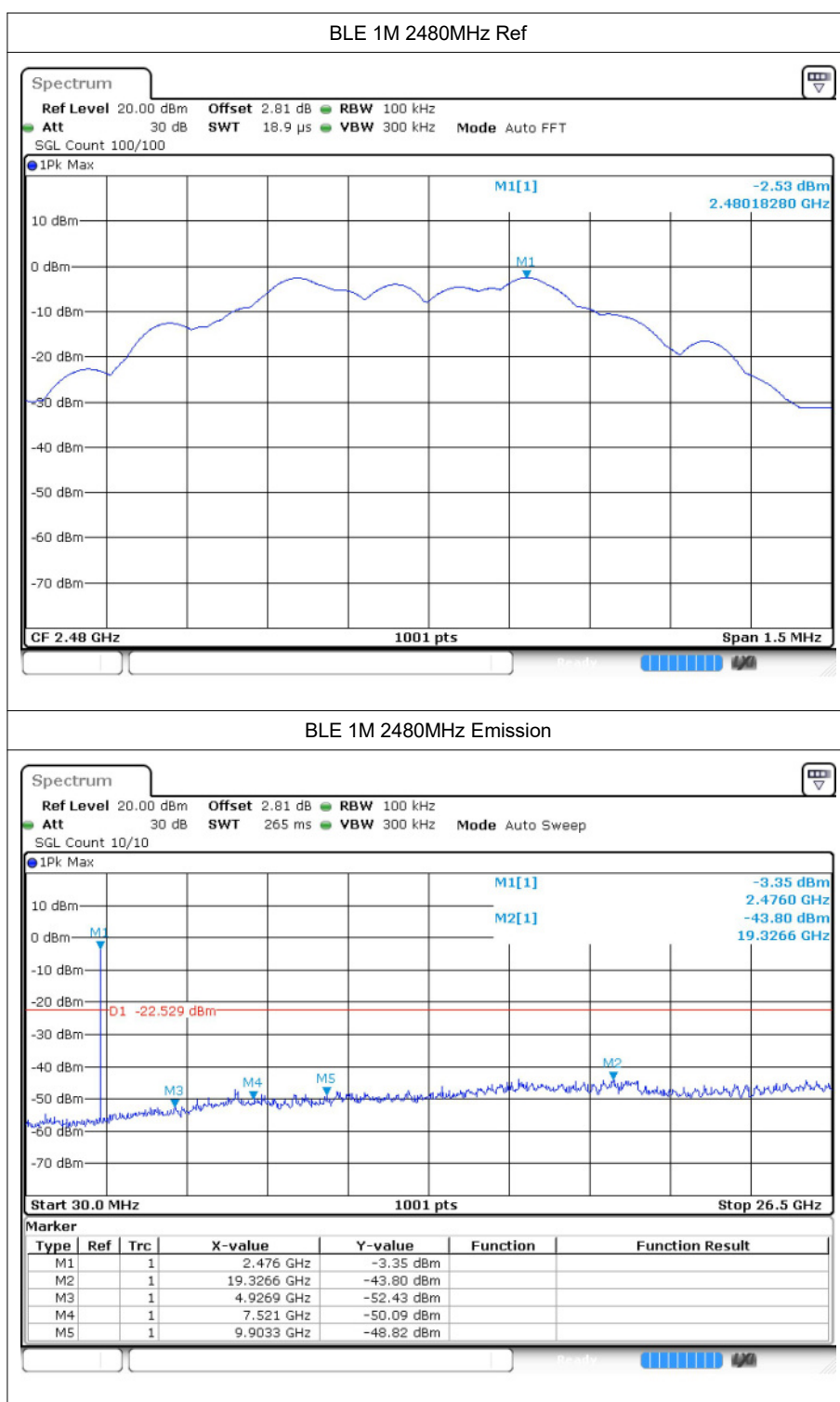
6.1 Test Result

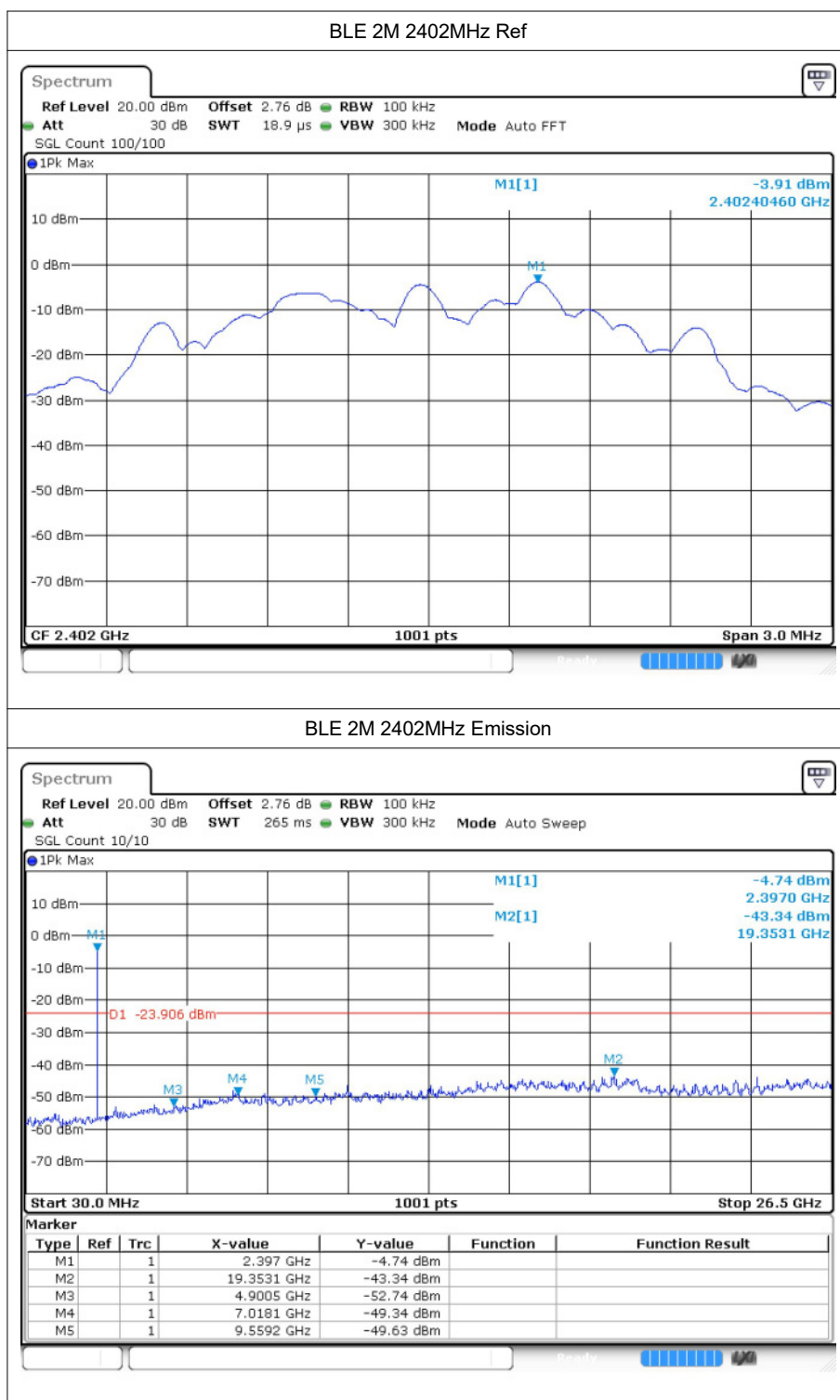
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-40.6	-20	Pass
BLE 1M	2440	-40.52	-20	Pass
BLE 1M	2480	-41.26	-20	Pass
BLE 2M	2402	-39.42	-20	Pass
BLE 2M	2440	-38.82	-20	Pass
BLE 2M	2480	-40.17	-20	Pass

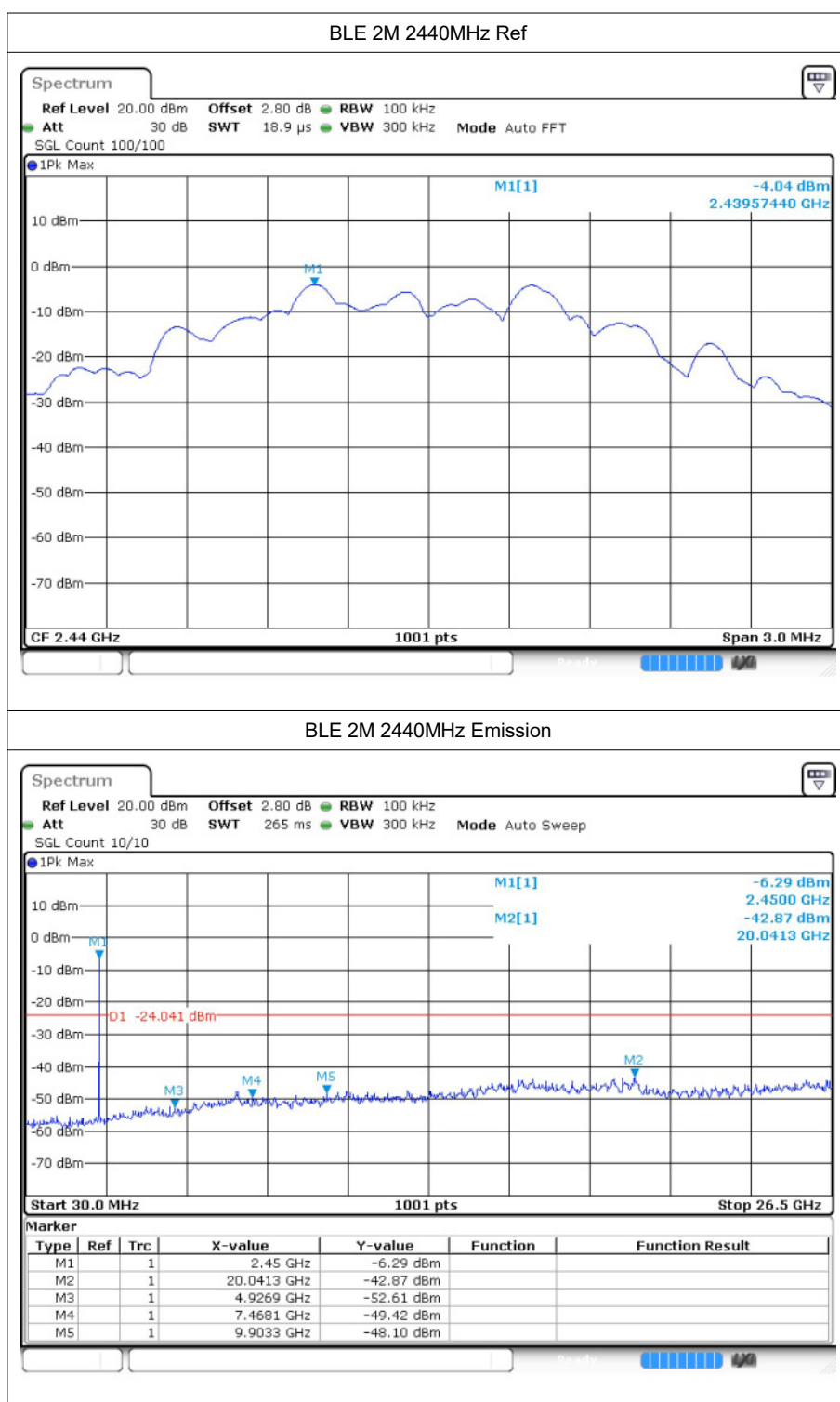
6.2 Test Graphs

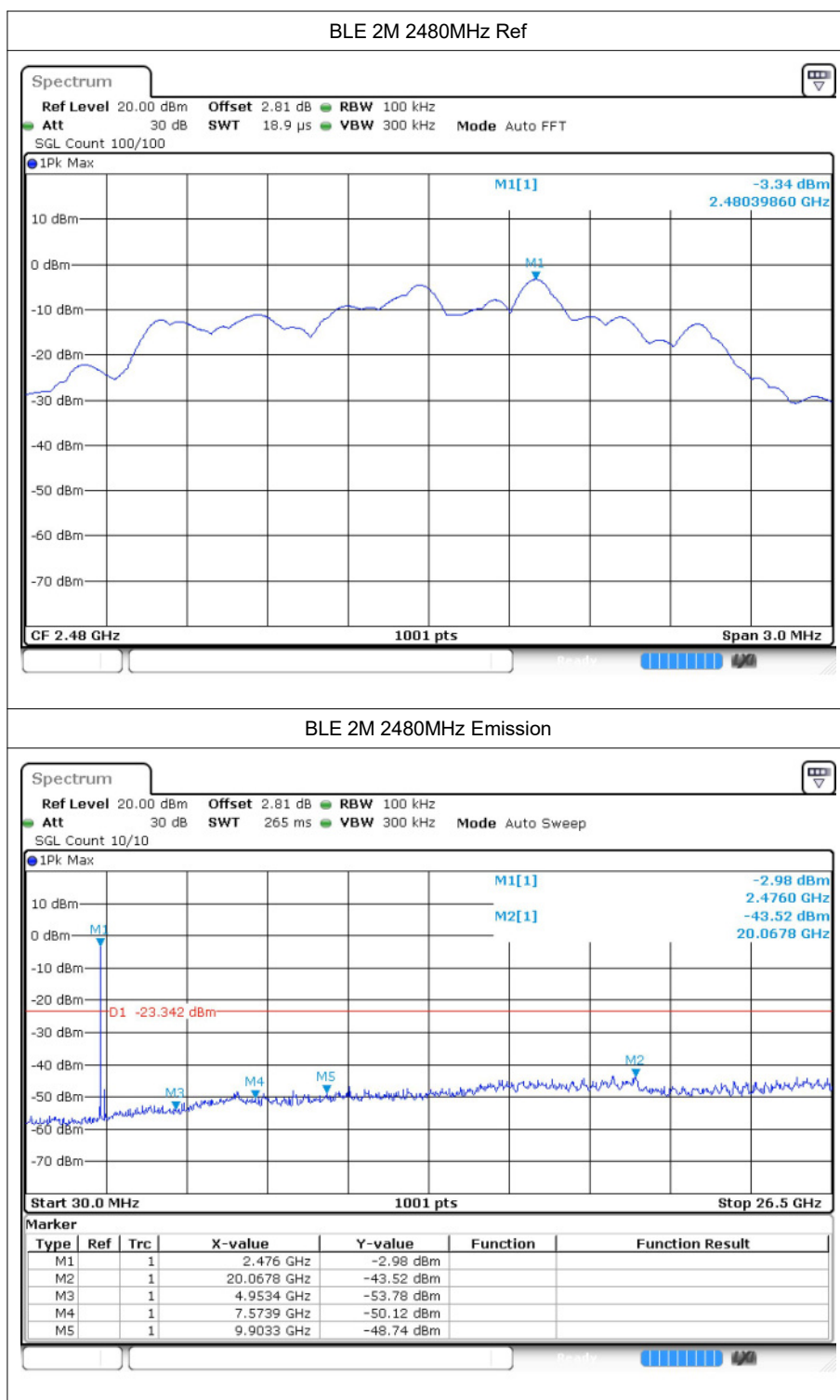














7 Restrict Band

7.1 Test Result

Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
BLE 1M	2402	2310	-49.38	3.3	-	49.18	Peak	74	Pass
BLE 1M	2402	2310	-56.22	3.3	5.78	48.12	Average	54	Pass
BLE 1M	2402	2374.224	-42.35	3.3	-	56.21	Peak	74	Pass
BLE 1M	2402	2343.12	-54.34	3.3	5.78	50	Average	54	Pass
BLE 1M	2402	2390	-45.92	3.3	-	52.64	Peak	74	Pass
BLE 1M	2402	2390	-56.42	3.3	5.78	47.92	Average	54	Pass
BLE 1M	2480	2483.5	-50.21	3.3	-	48.35	Peak	74	Pass
BLE 1M	2480	2483.5	-56.18	3.3	5.73	48.11	Average	54	Pass
BLE 1M	2480	2492.08	-47.36	3.3	-	51.2	Peak	74	Pass
BLE 1M	2480	2496.664	-55.75	3.3	5.73	48.54	Average	54	Pass
BLE 1M	2480	2500	-48.28	3.3	-	50.28	Peak	74	Pass
BLE 1M	2480	2500	-56.65	3.3	5.73	47.64	Average	54	Pass
BLE 2M	2402	2310	-50.38	3.3	-	48.18	Peak	74	Pass
BLE 2M	2402	2310	-56.48	3.3	7.94	50.02	Average	54	Pass
BLE 2M	2402	2326.992	-45.71	3.3	-	52.85	Peak	74	Pass
BLE 2M	2402	2340.912	-54.74	3.3	7.94	51.76	Average	54	Pass
BLE 2M	2402	2390	-47.64	3.3	-	50.92	Peak	74	Pass
BLE 2M	2402	2390	-55.87	3.3	7.94	50.63	Average	54	Pass
BLE 2M	2480	2483.5	-46.86	3.3	-	51.7	Peak	74	Pass
BLE 2M	2480	2483.5	-55.53	3.3	7.93	50.96	Average	54	Pass
BLE 2M	2480	2487.352	-44.51	3.3	-	54.05	Peak	74	Pass
BLE 2M	2480	2489.032	-55.53	3.3	7.93	50.96	Average	54	Pass
BLE 2M	2480	2500	-49.21	3.3	-	49.35	Peak	74	Pass
BLE 2M	2480	2500	-56.63	3.3	7.93	49.86	Average	54	Pass

7.2 Test Graphs

