



Appendix B

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

Product Name: UNDERWATER-CASE

Trade Mark: N/A

Test Model: PF-IPHONE15PROMAX

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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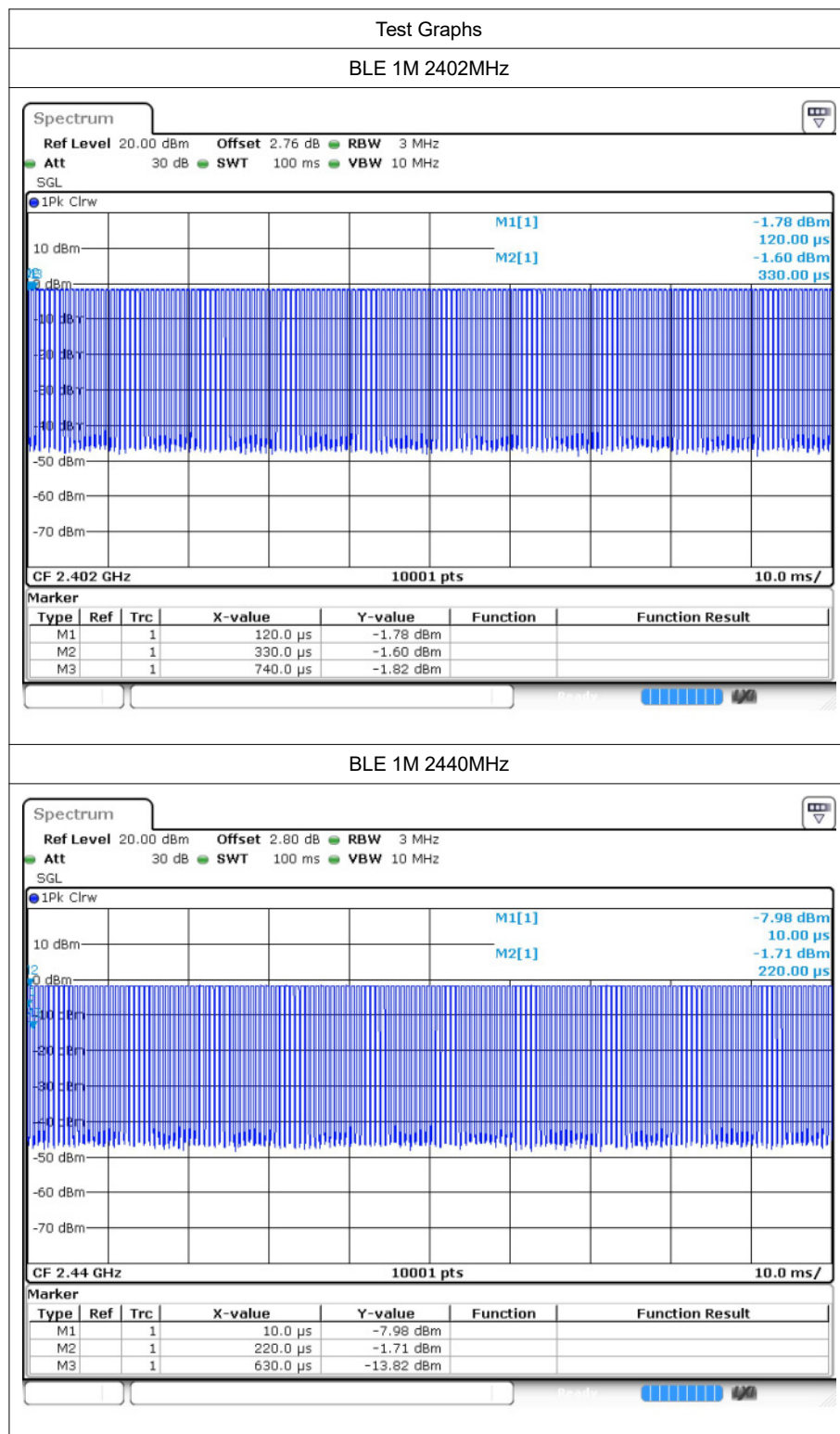


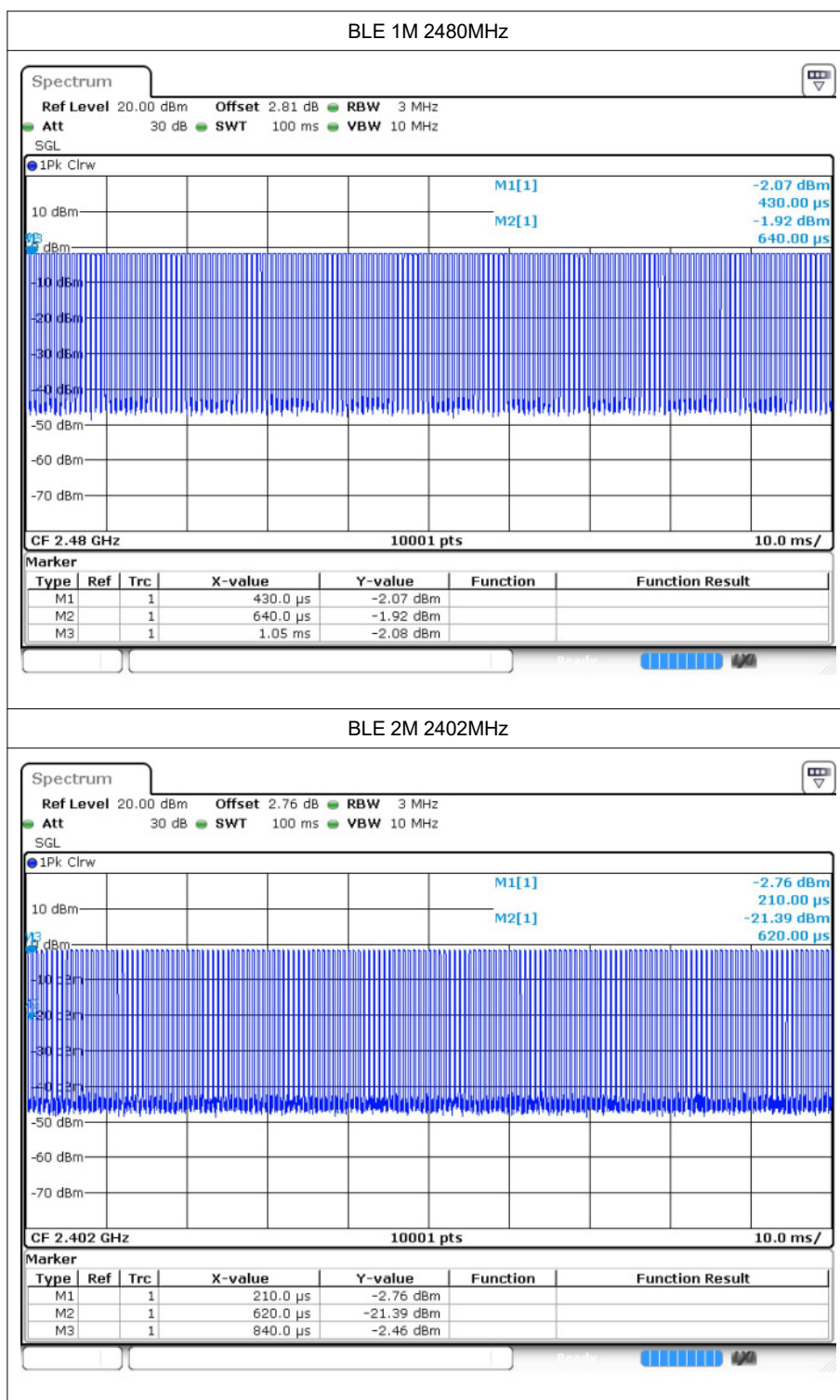
1 Duty Cycle

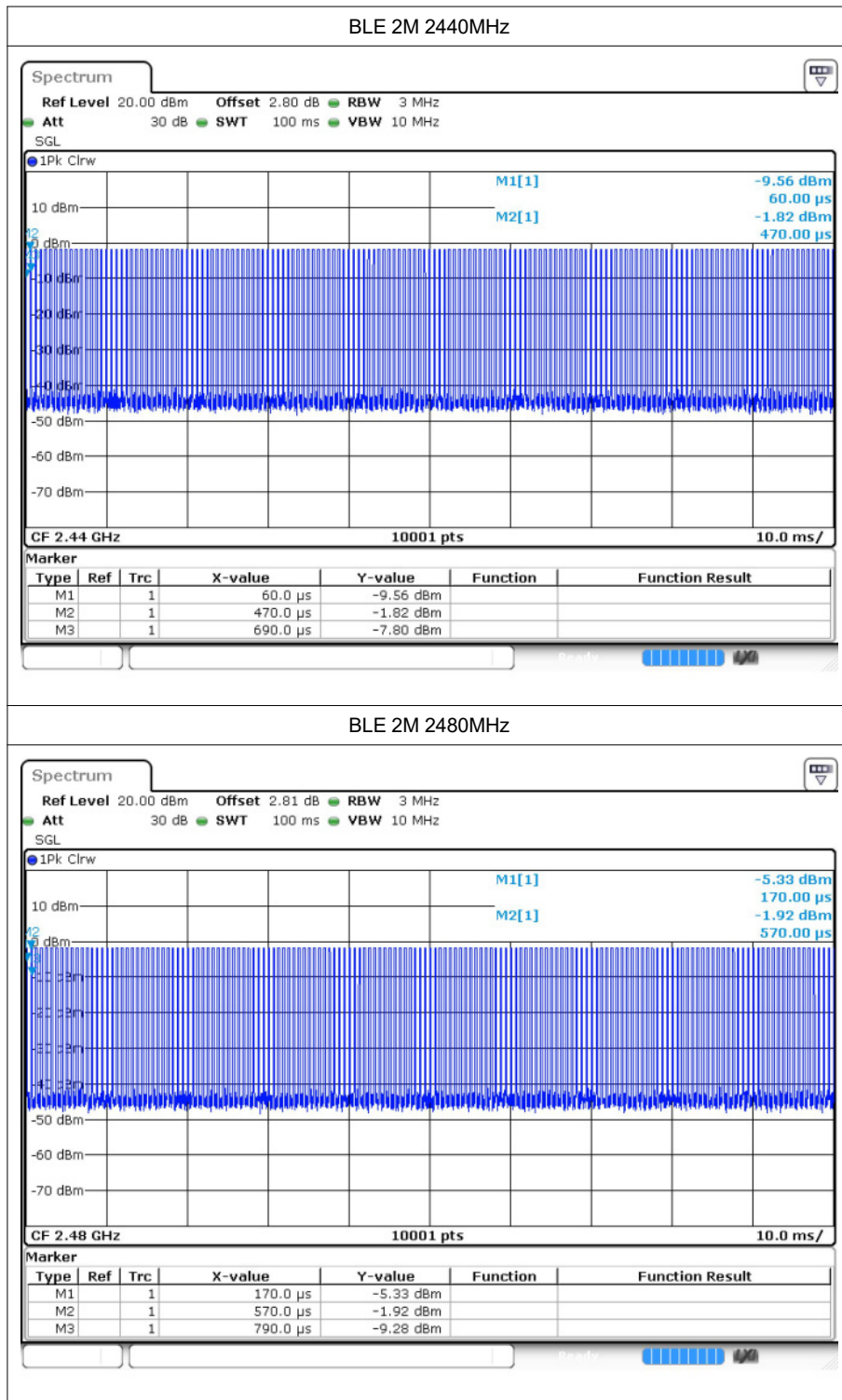
1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
BLE 1M	2402	67.09	1.73	2.44
BLE 1M	2440	67.05	1.74	2.44
BLE 1M	2480	67.08	1.73	2.44
BLE 2M	2402	35.76	4.47	4.55
BLE 2M	2440	35.74	4.47	4.55
BLE 2M	2480	35.77	4.47	4.55

1.2 Test Graphs







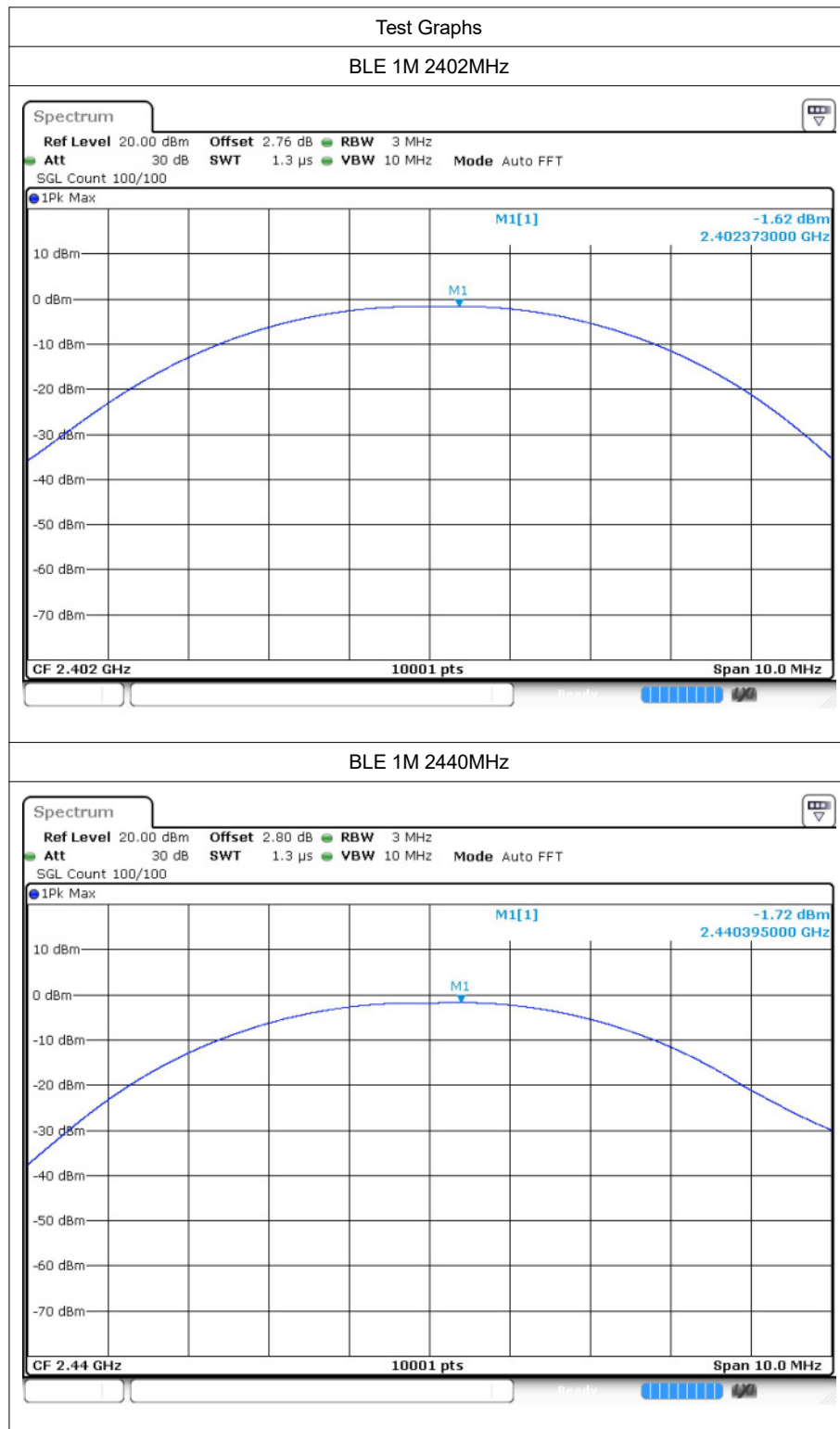


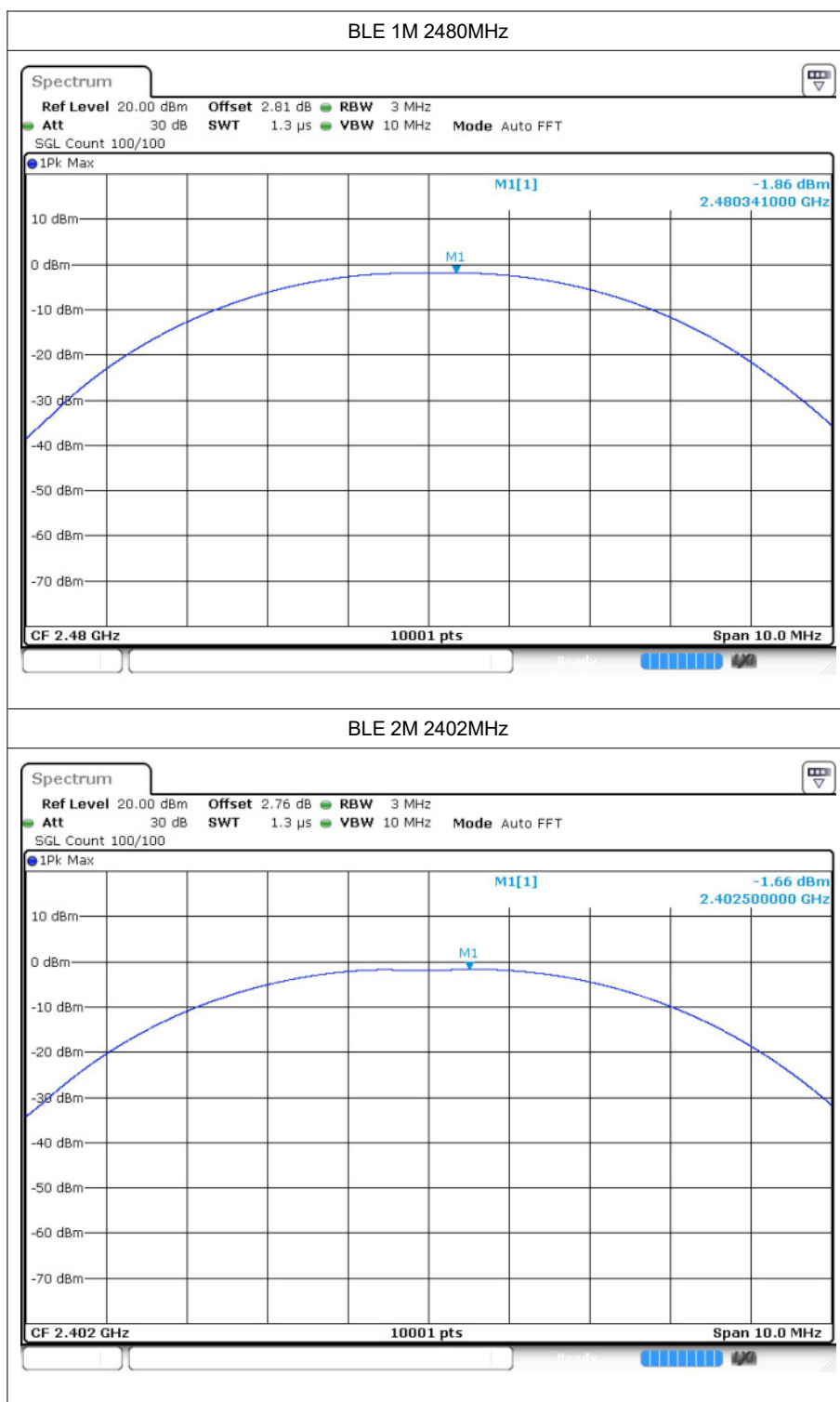
2 Maximum Conducted Output Power

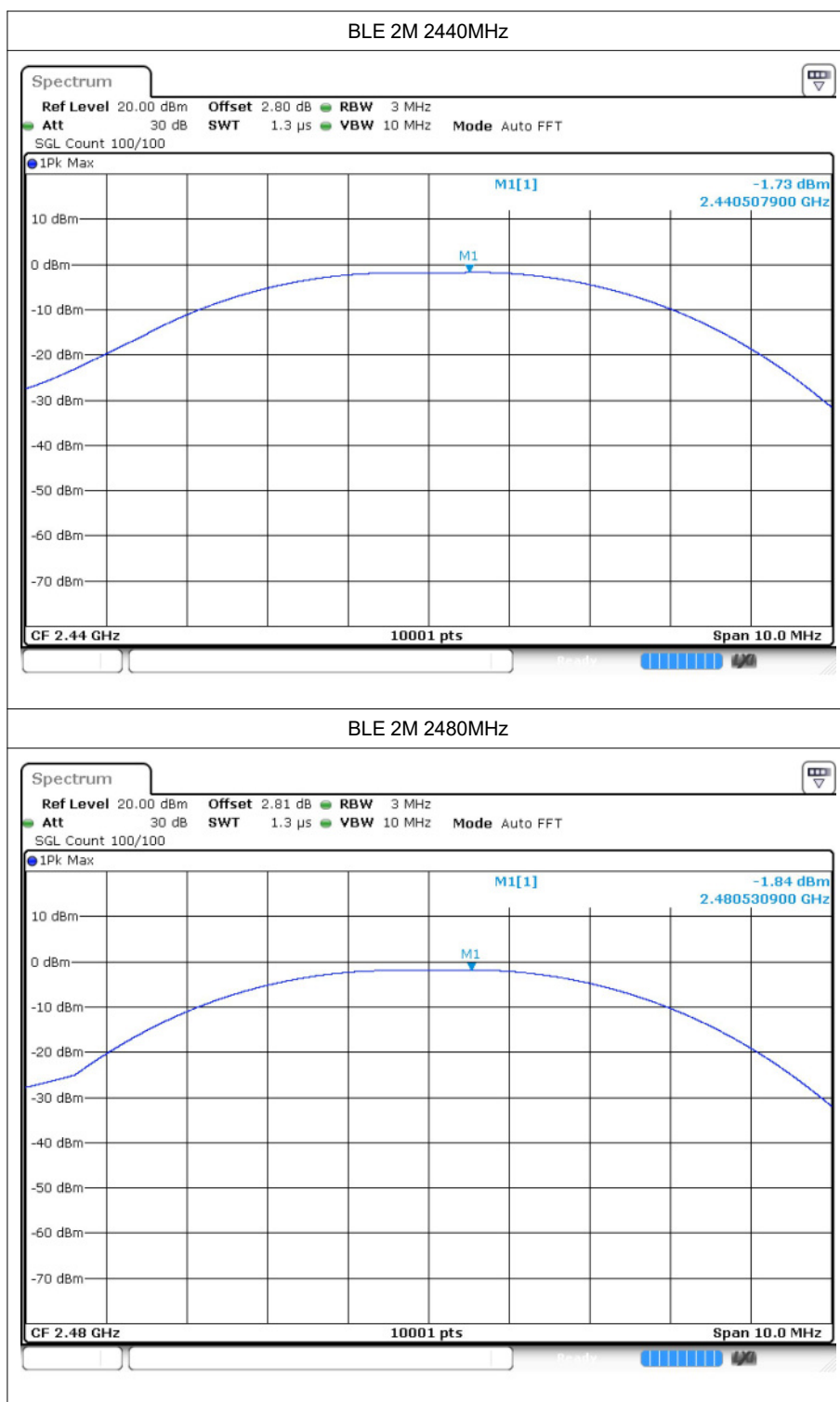
2.1 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	-1.62	30	Pass
BLE 1M	2440	-1.72	30	Pass
BLE 1M	2480	-1.86	30	Pass
BLE 2M	2402	-1.66	30	Pass
BLE 2M	2440	-1.73	30	Pass
BLE 2M	2480	-1.84	30	Pass

2.2 Test Graphs







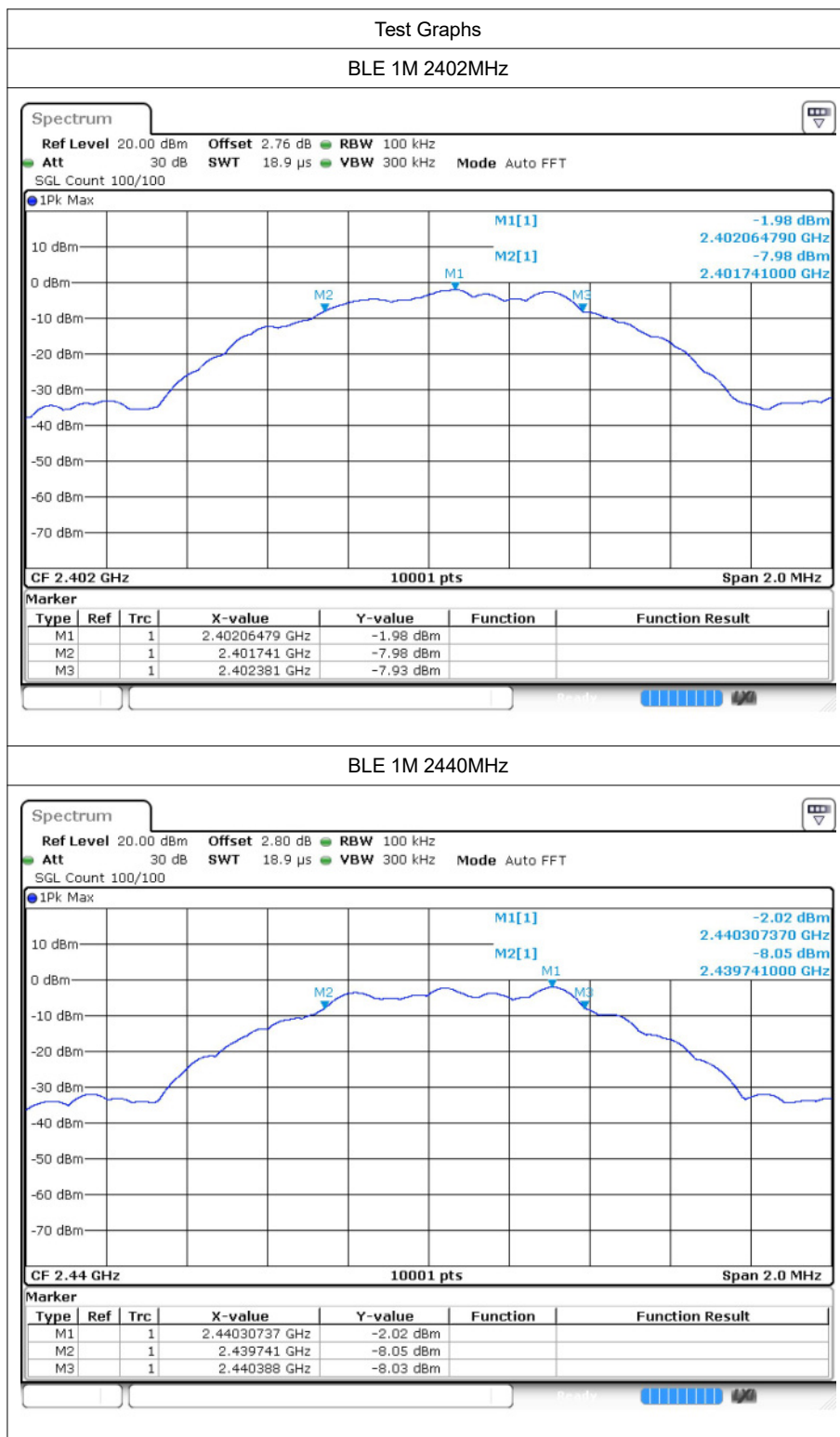


3 -6dB Bandwidth

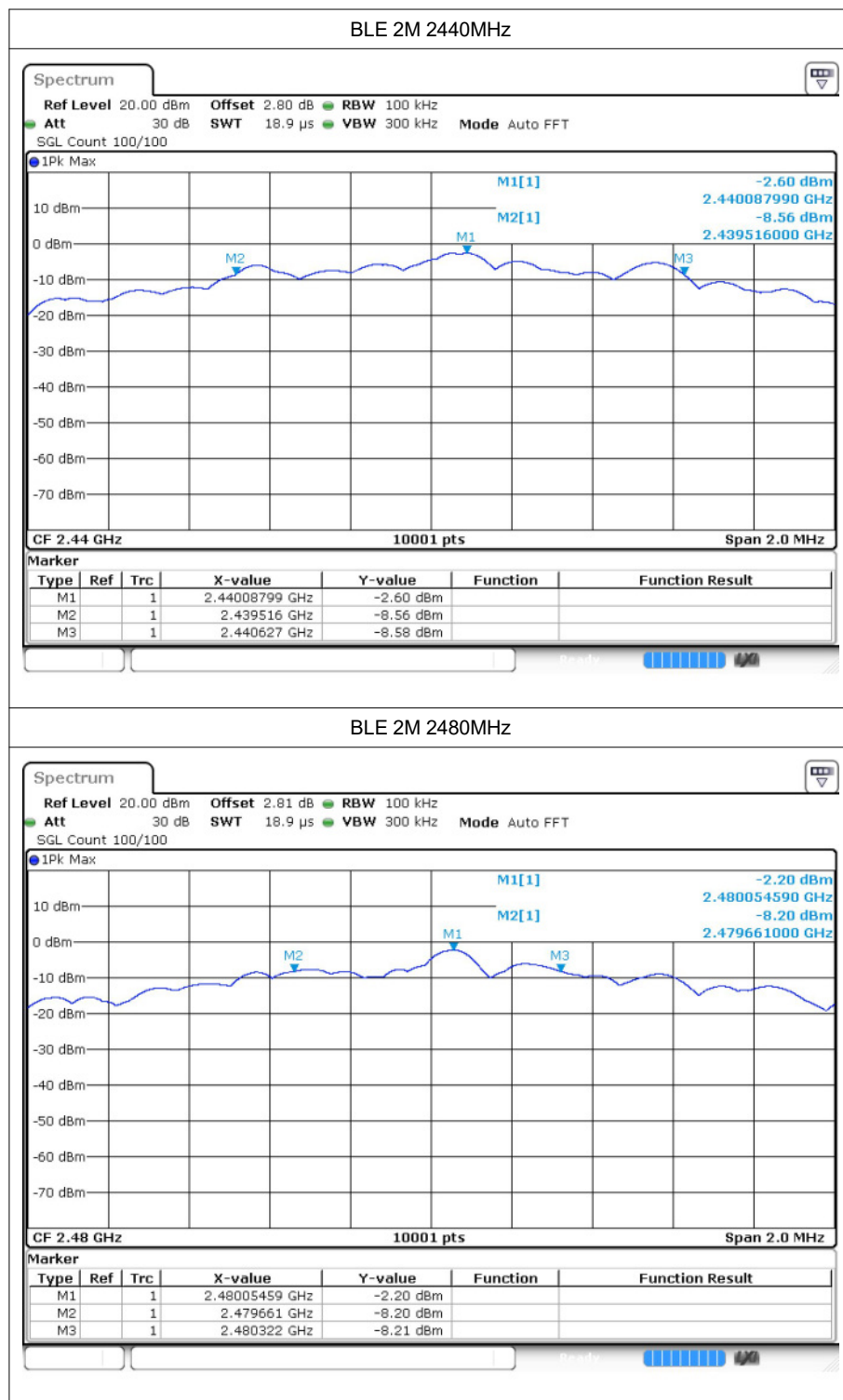
3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.64	0.5	Pass
BLE 1M	2440	0.647	0.5	Pass
BLE 1M	2480	0.633	0.5	Pass
BLE 2M	2402	1.1	0.5	Pass
BLE 2M	2440	1.112	0.5	Pass
BLE 2M	2480	0.661	0.5	Pass

3.2 Test Graphs





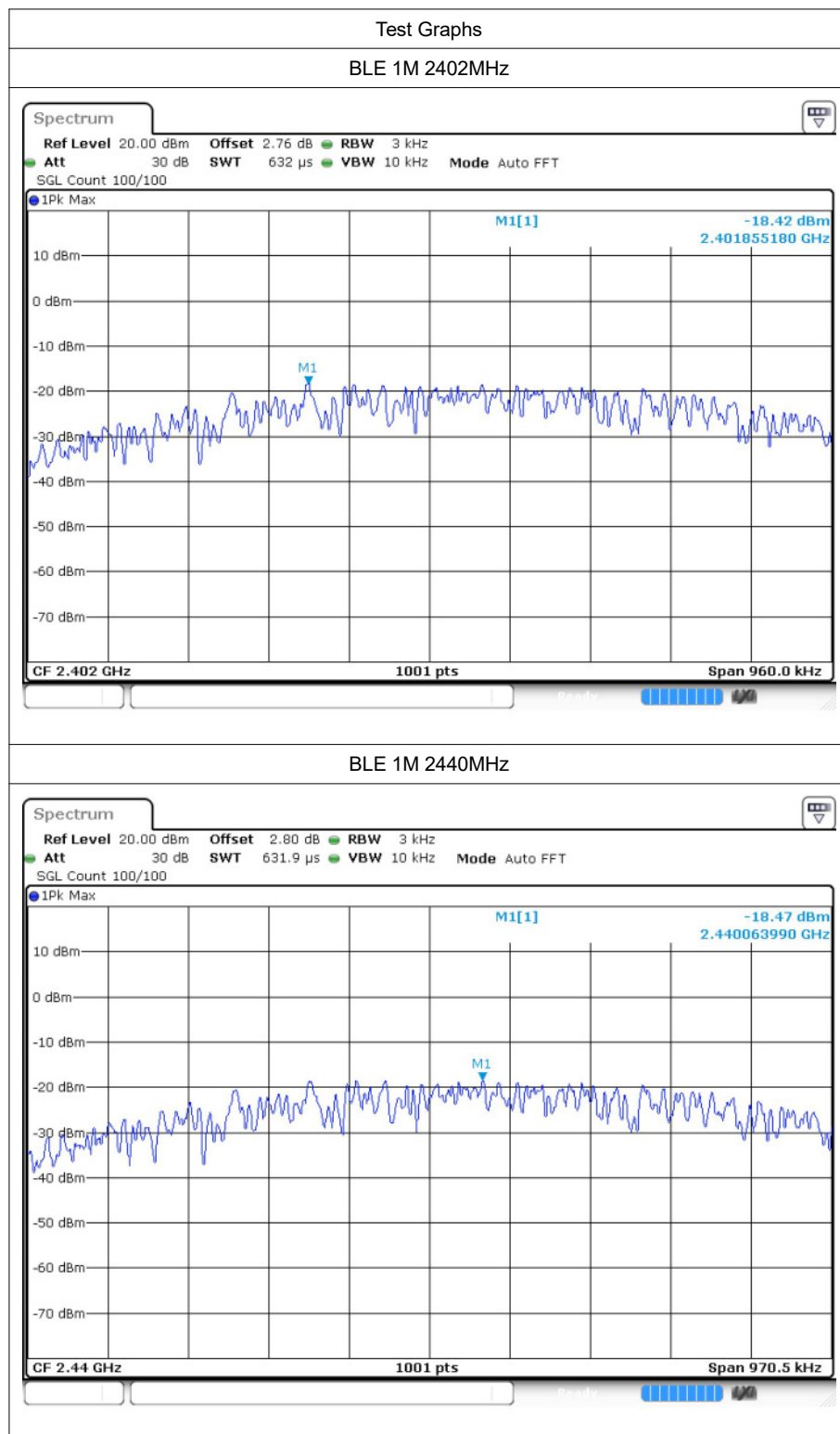


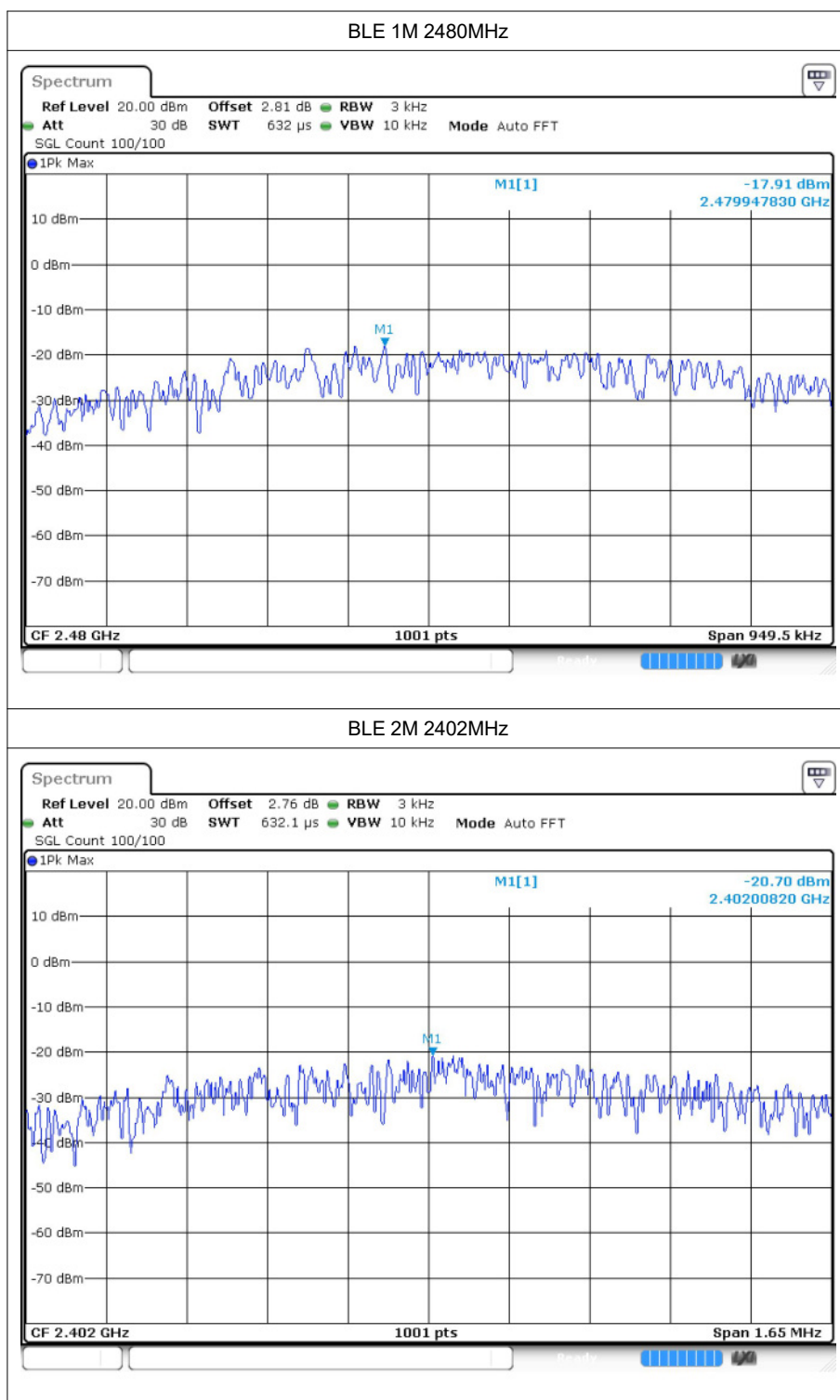
4 Maximum Power Spectral Density Level

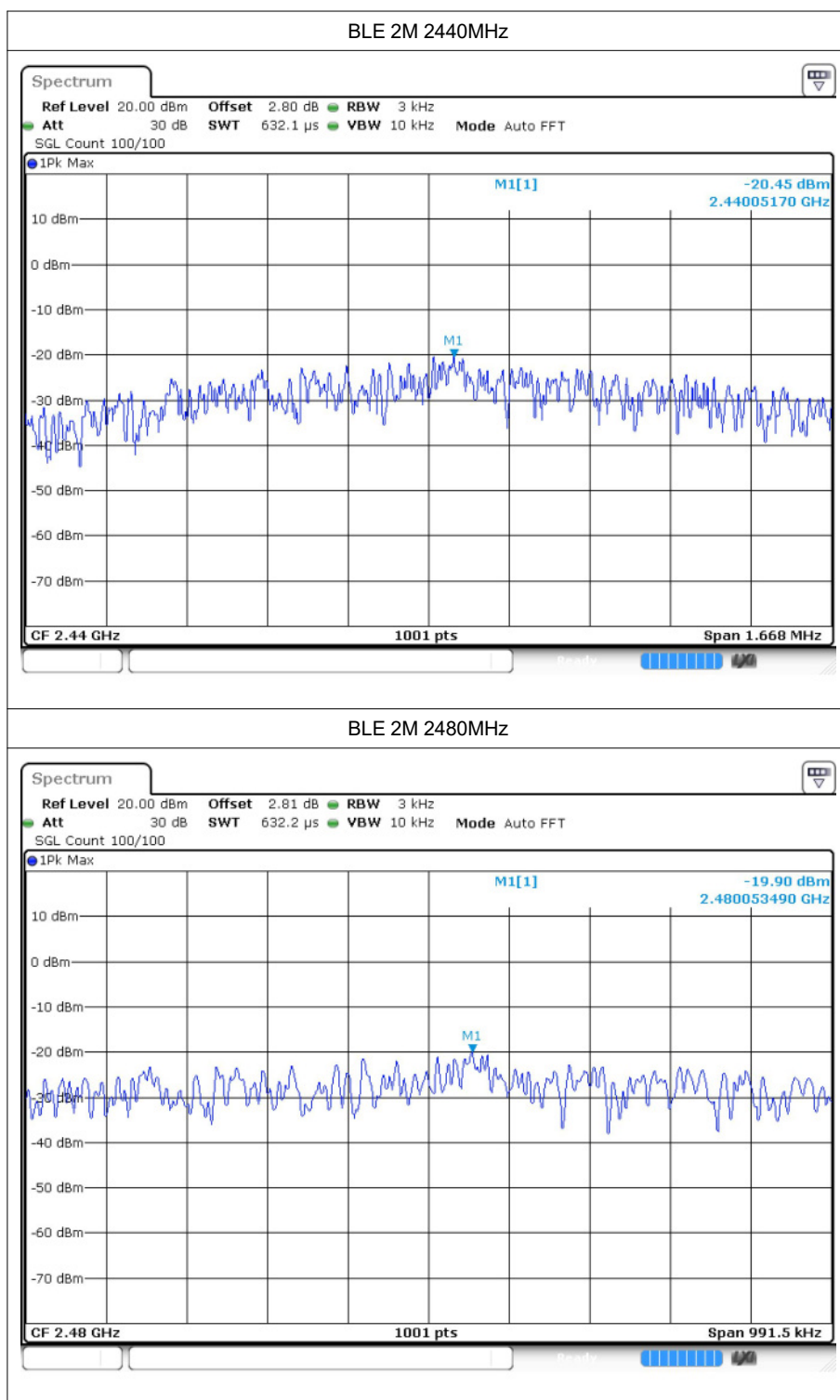
4.1 Test Result

Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-18.42	≤8	Pass
BLE 1M	2440	-18.47	≤8	Pass
BLE 1M	2480	-17.91	≤8	Pass
BLE 2M	2402	-20.7	≤8	Pass
BLE 2M	2440	-20.45	≤8	Pass
BLE 2M	2480	-19.9	≤8	Pass

4.2 Test Graphs







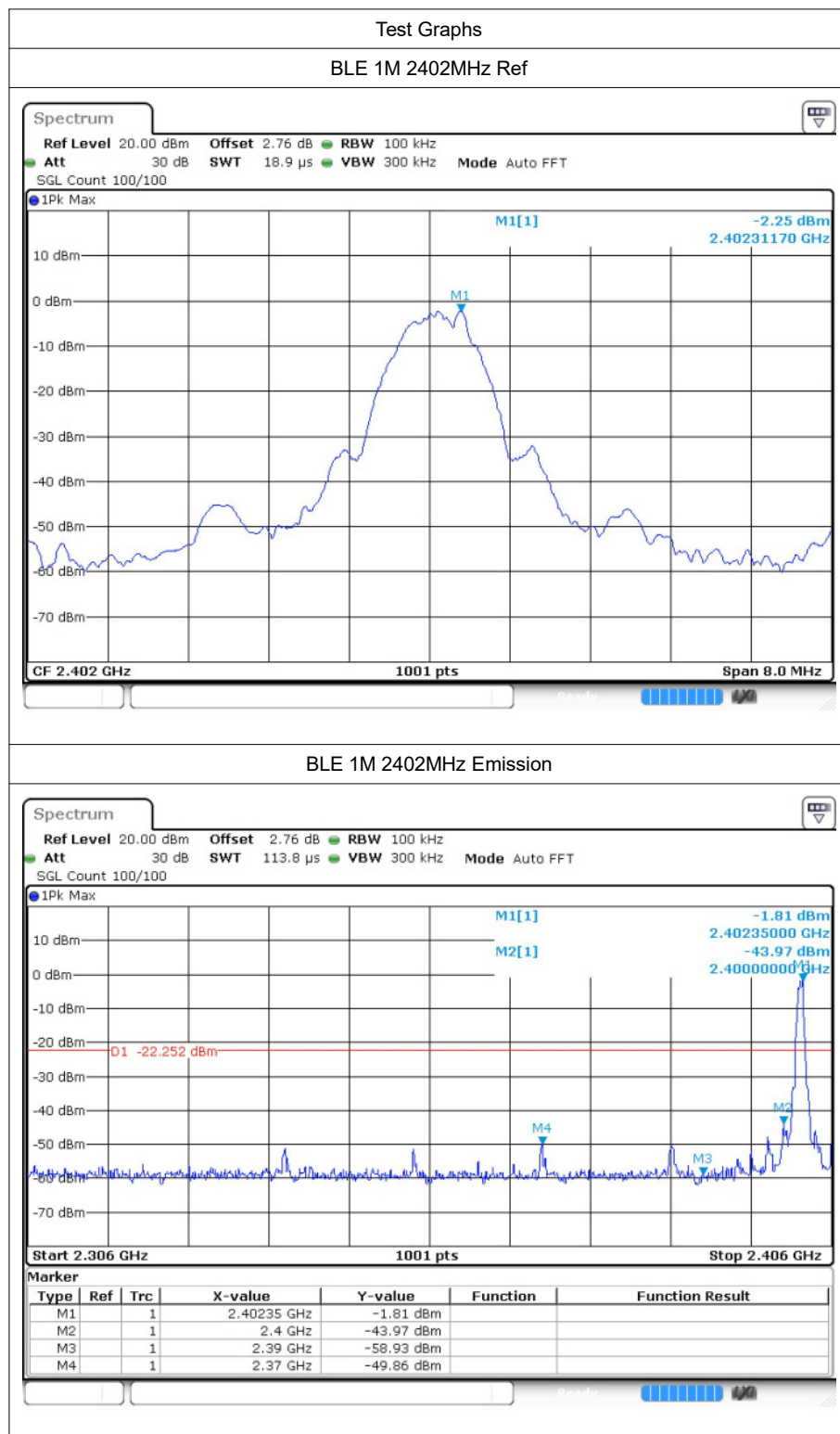


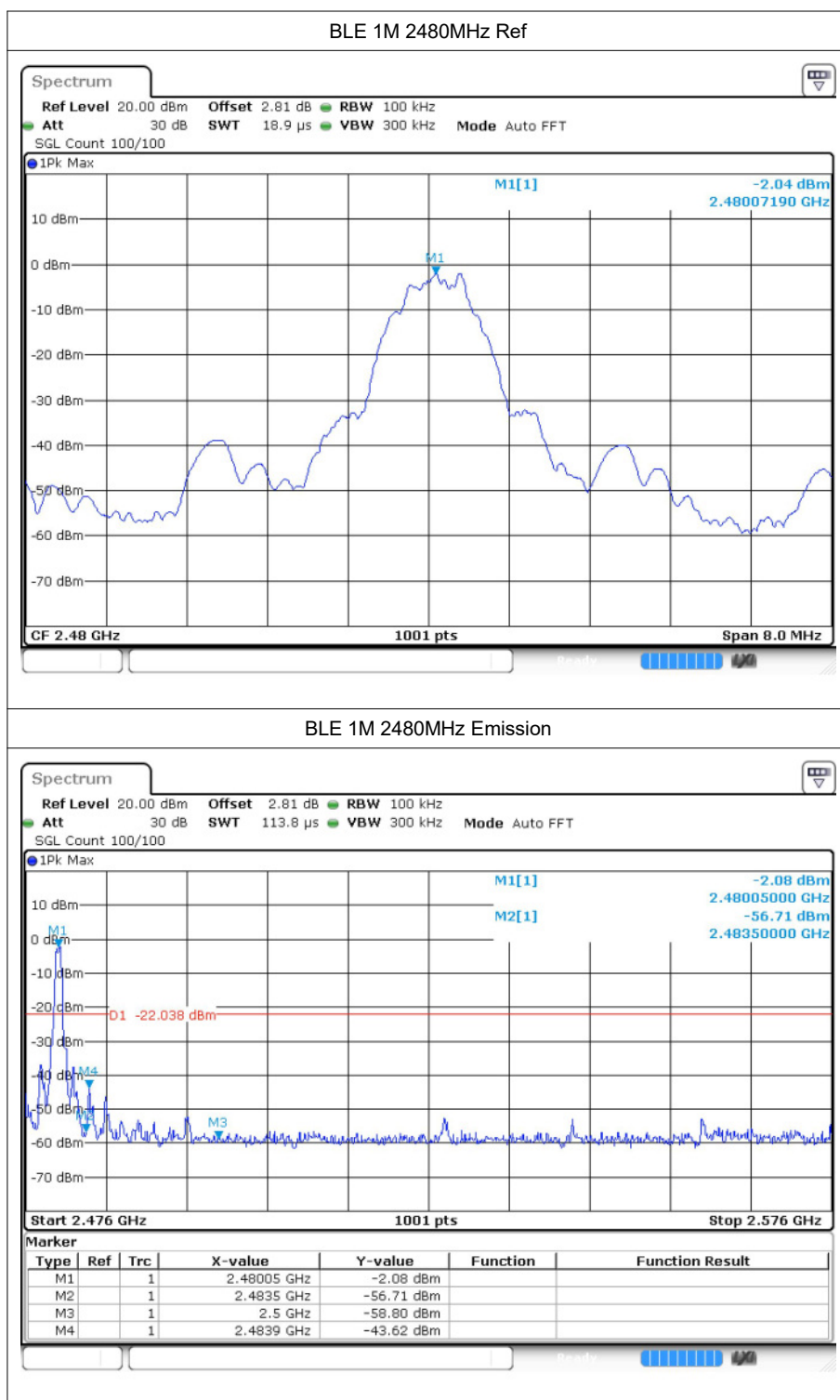
5 Band Edge

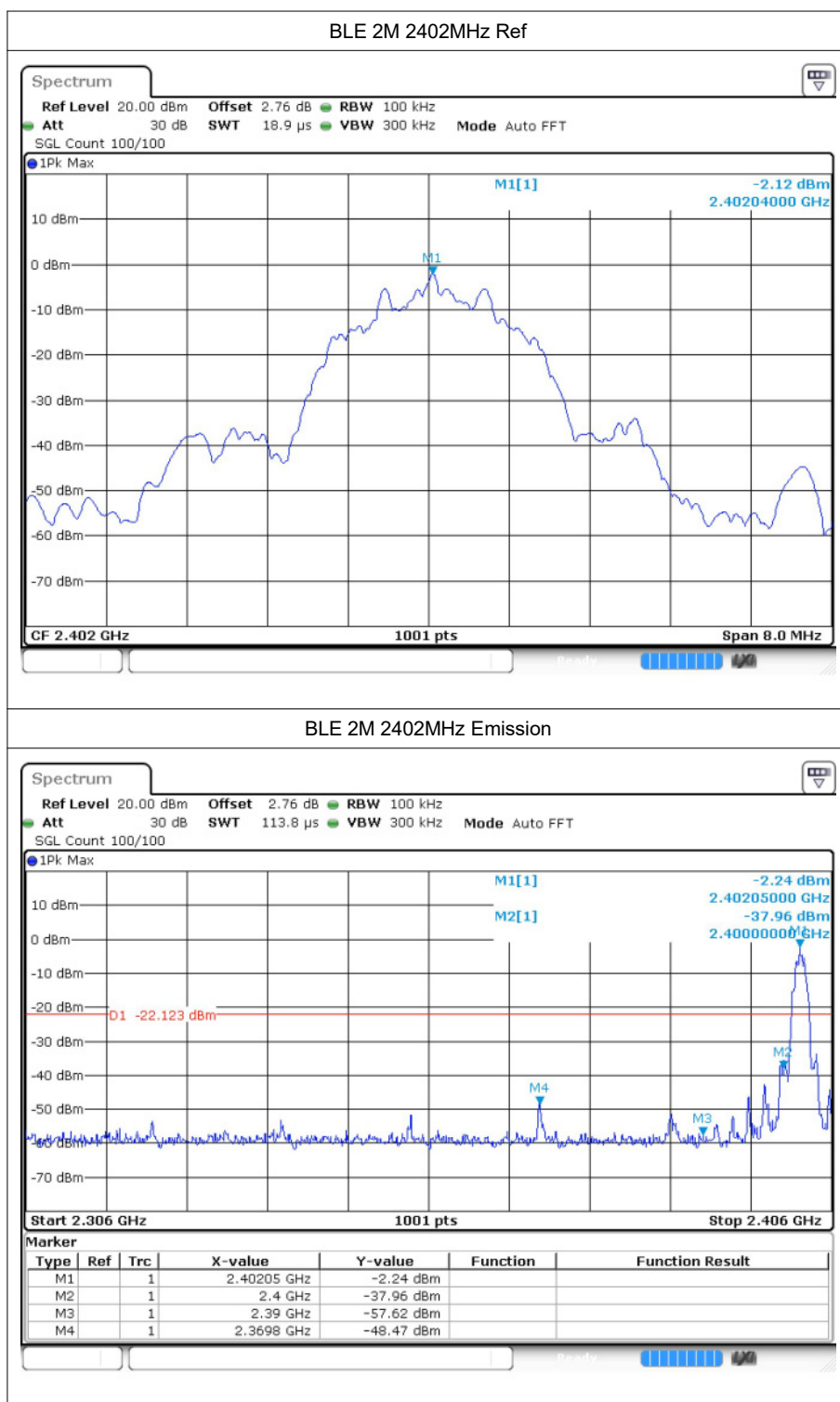
5.1 Test Result

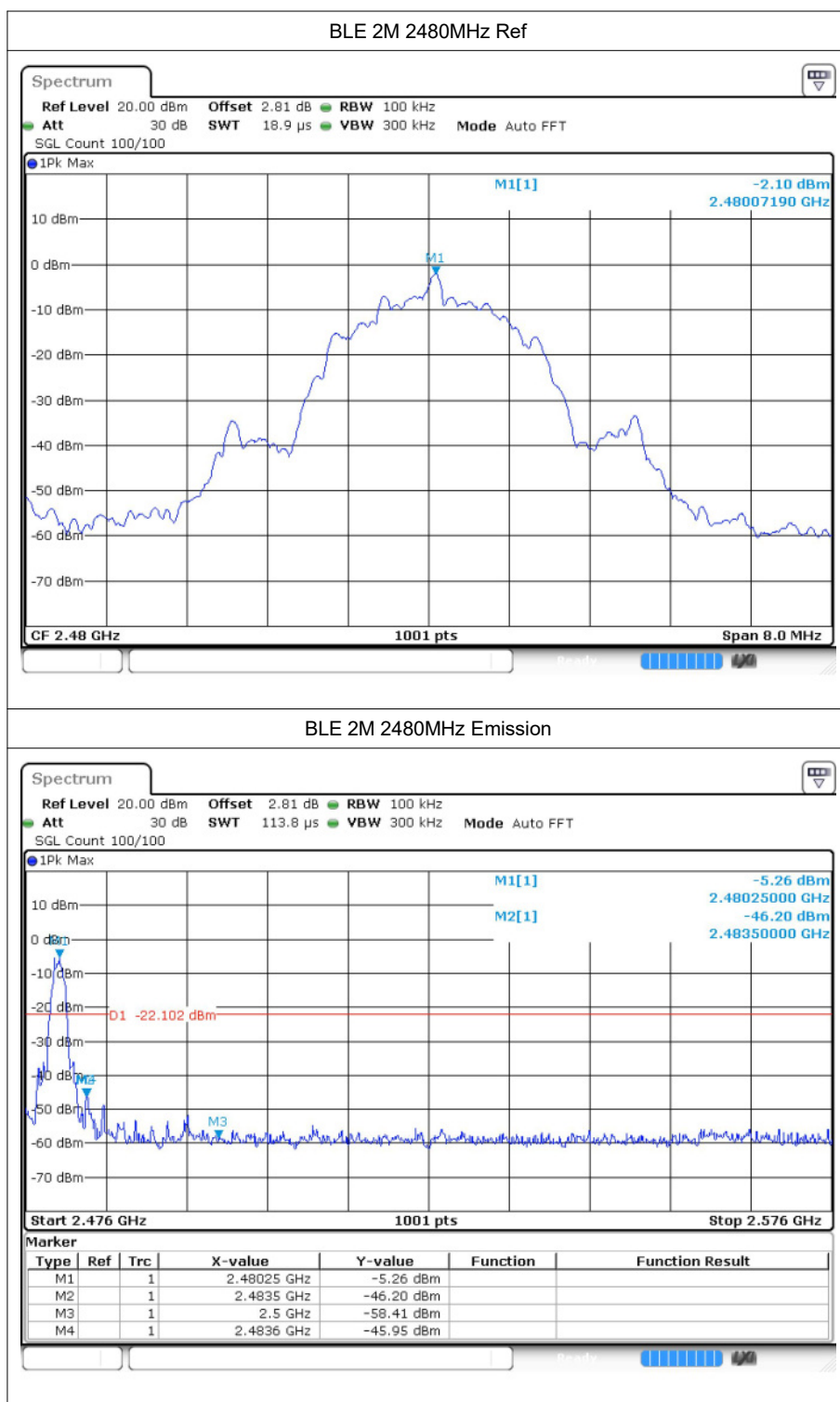
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-47.61	-20	Pass
BLE 1M	2480	-41.57	-20	Pass
BLE 2M	2402	-46.34	-20	Pass
BLE 2M	2480	-43.84	-20	Pass

5.2 Test Graphs









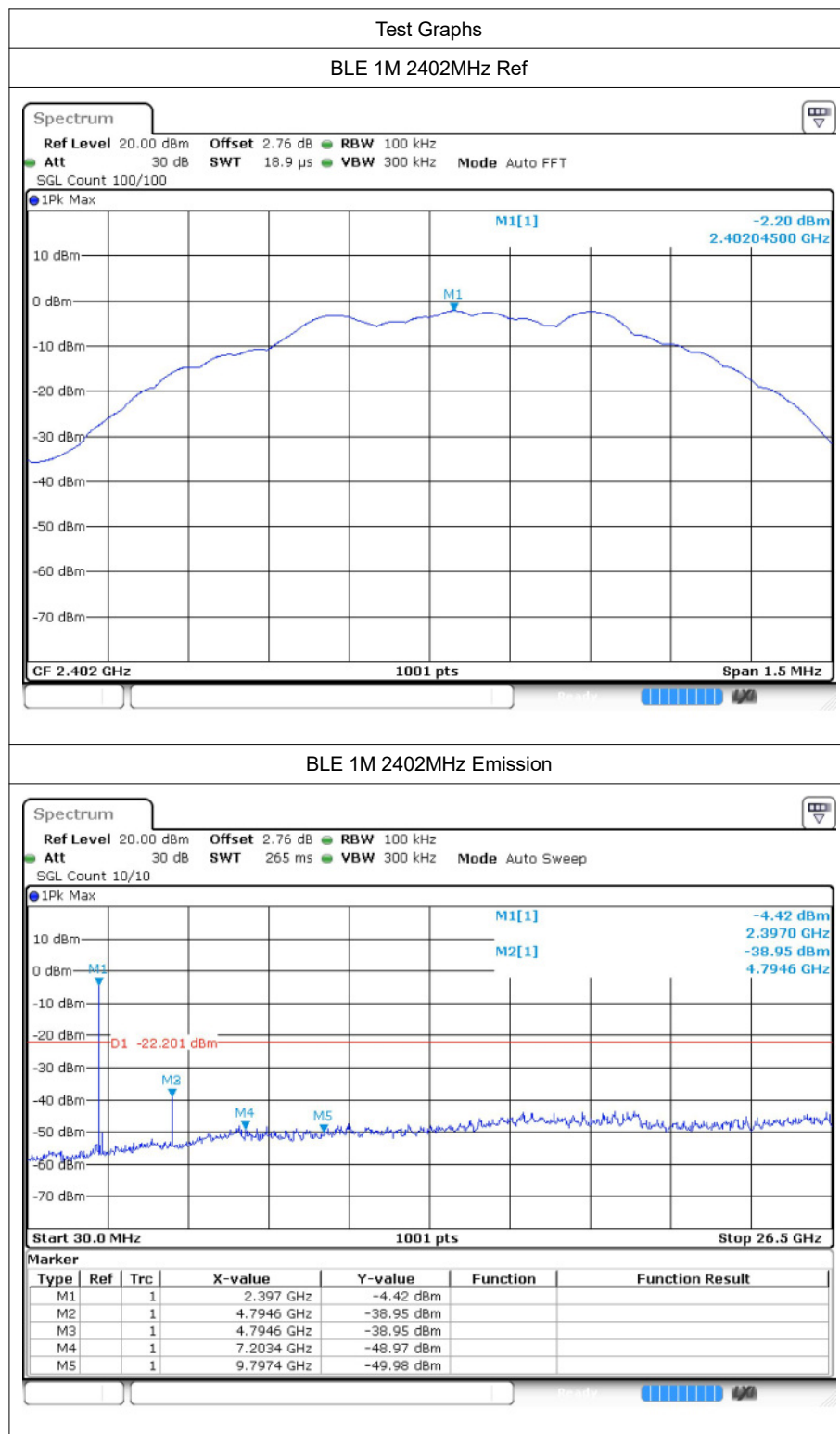


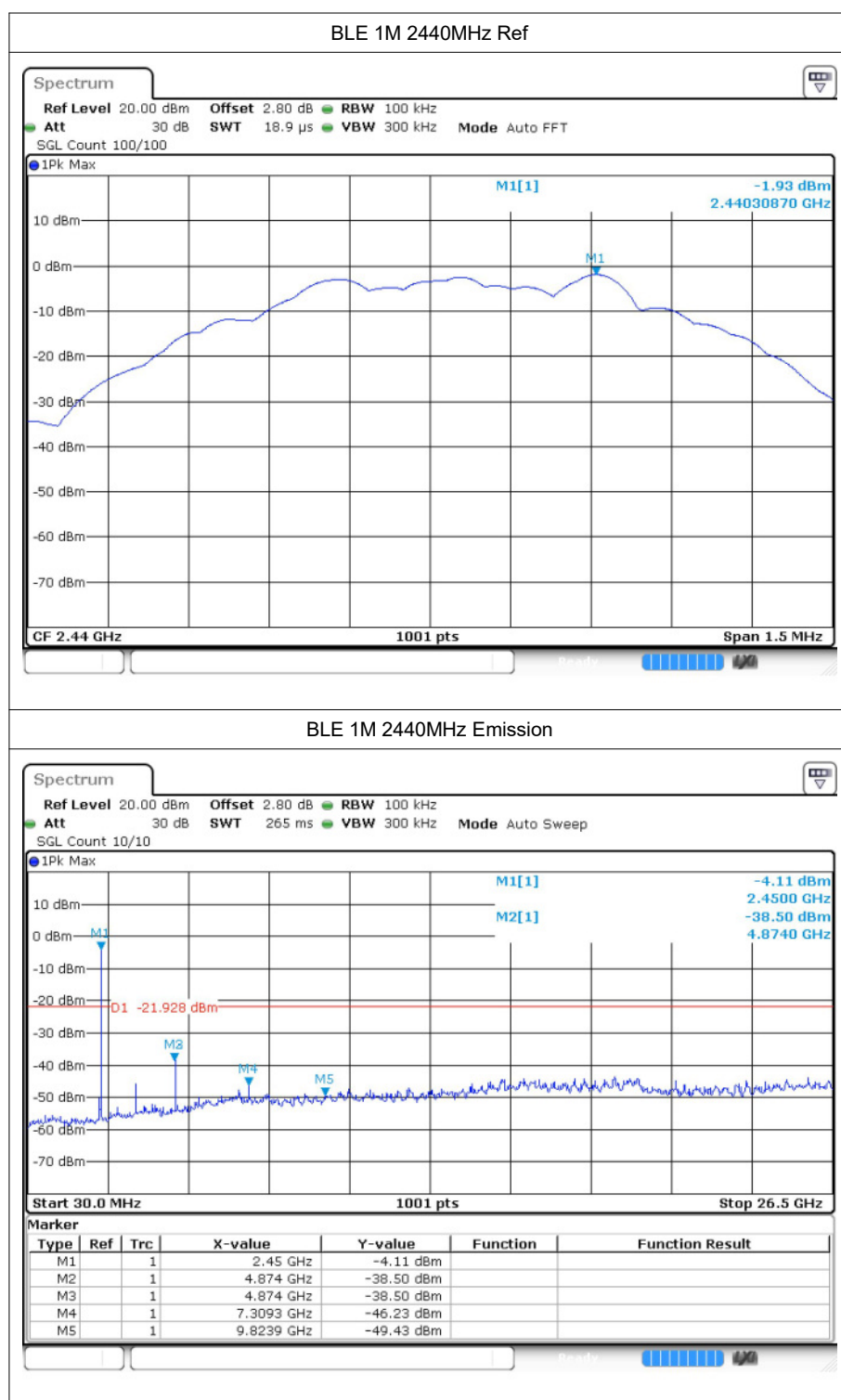
6 Conducted RF Spurious Emission

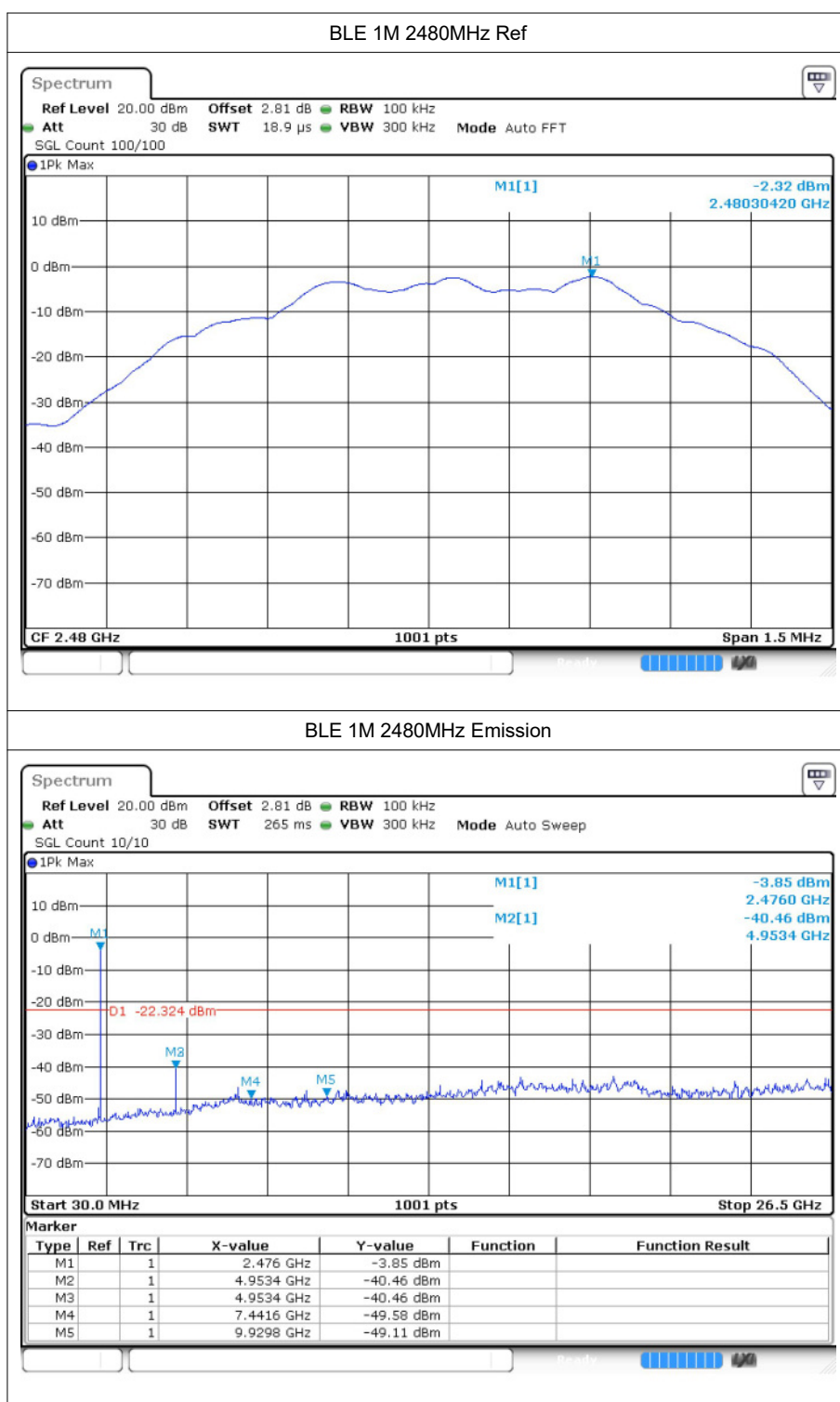
6.1 Test Result

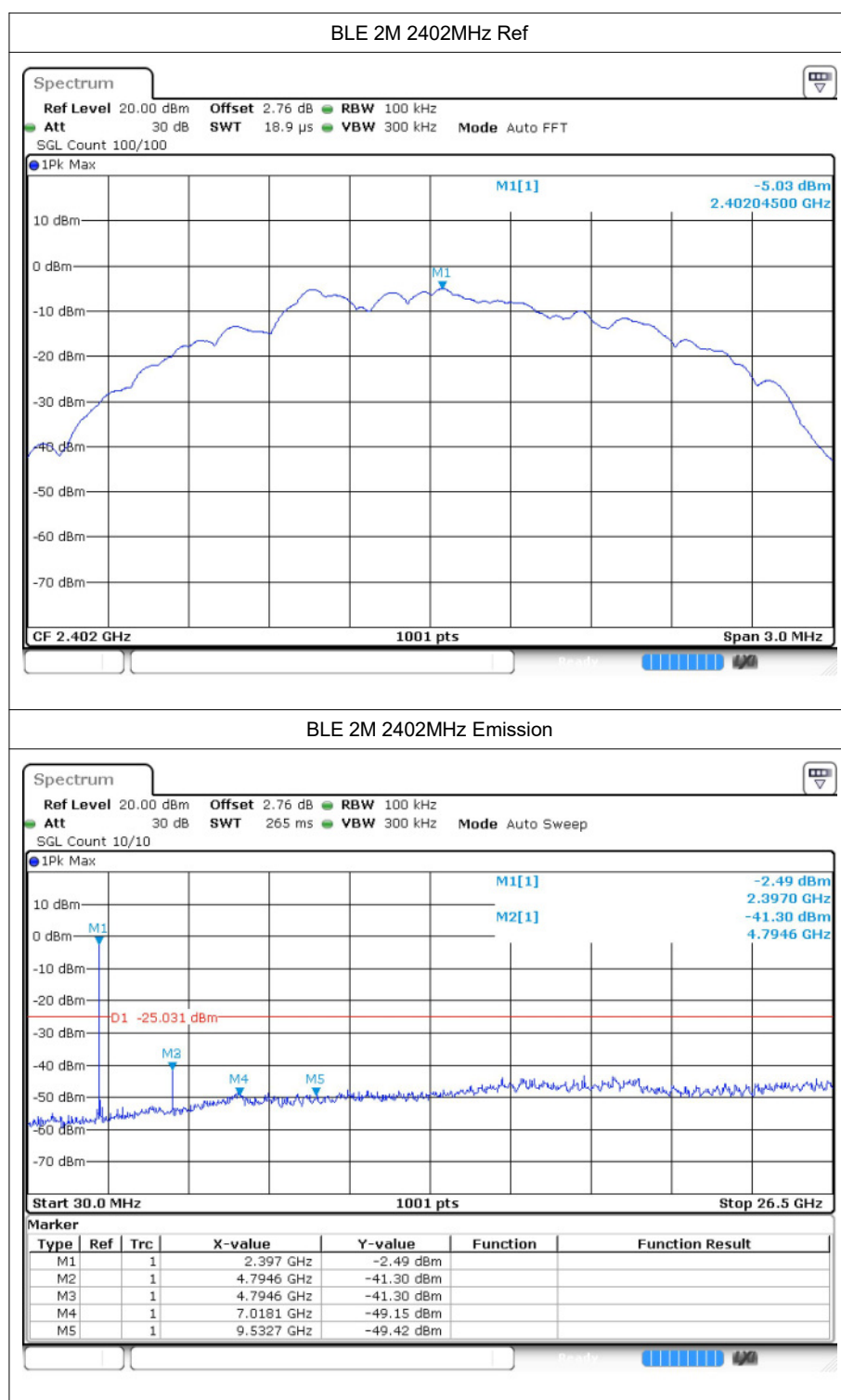
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-36.74	-20	Pass
BLE 1M	2440	-36.56	-20	Pass
BLE 1M	2480	-38.14	-20	Pass
BLE 2M	2402	-36.26	-20	Pass
BLE 2M	2440	-38.79	-20	Pass
BLE 2M	2480	-39.66	-20	Pass

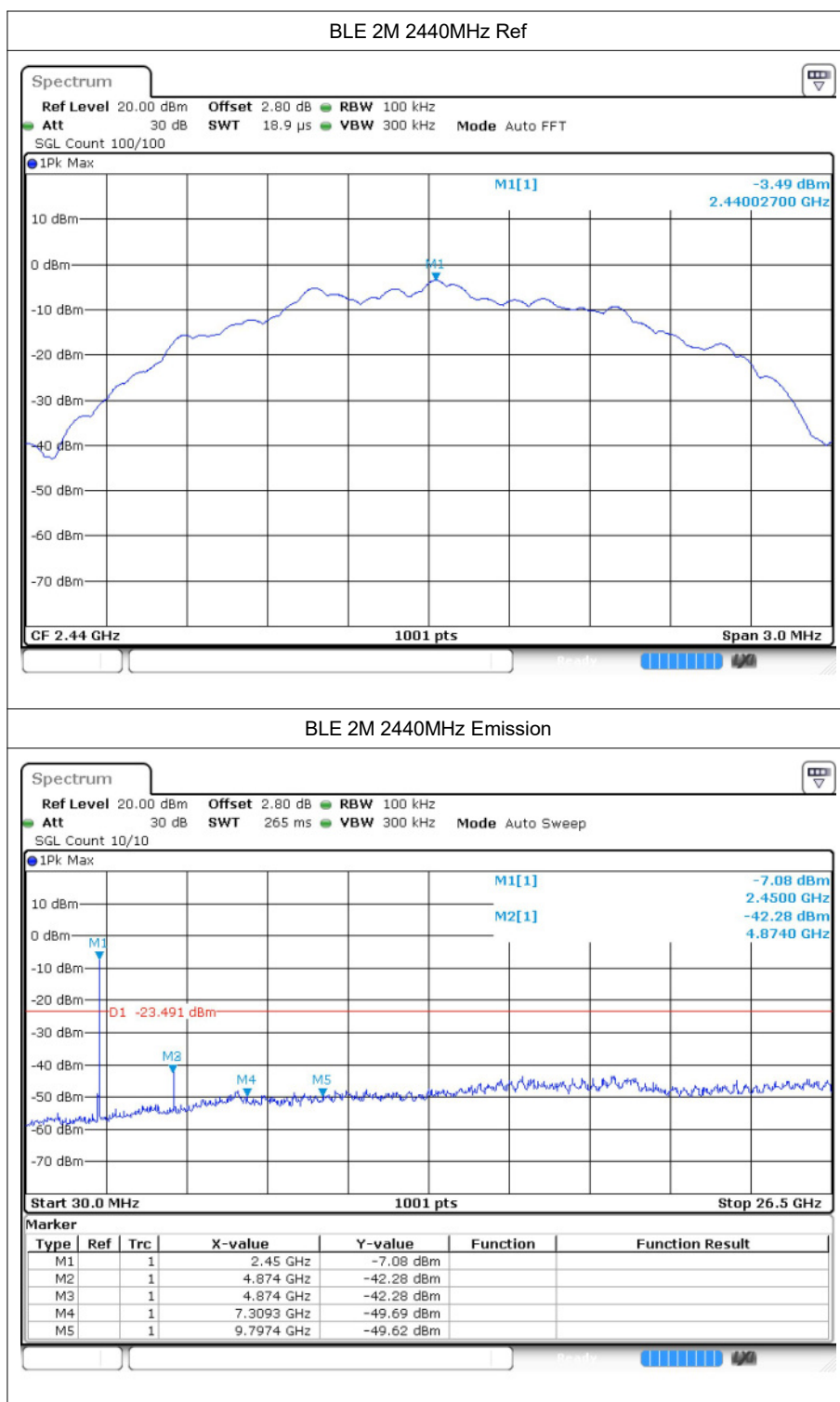
6.2 Test Graphs

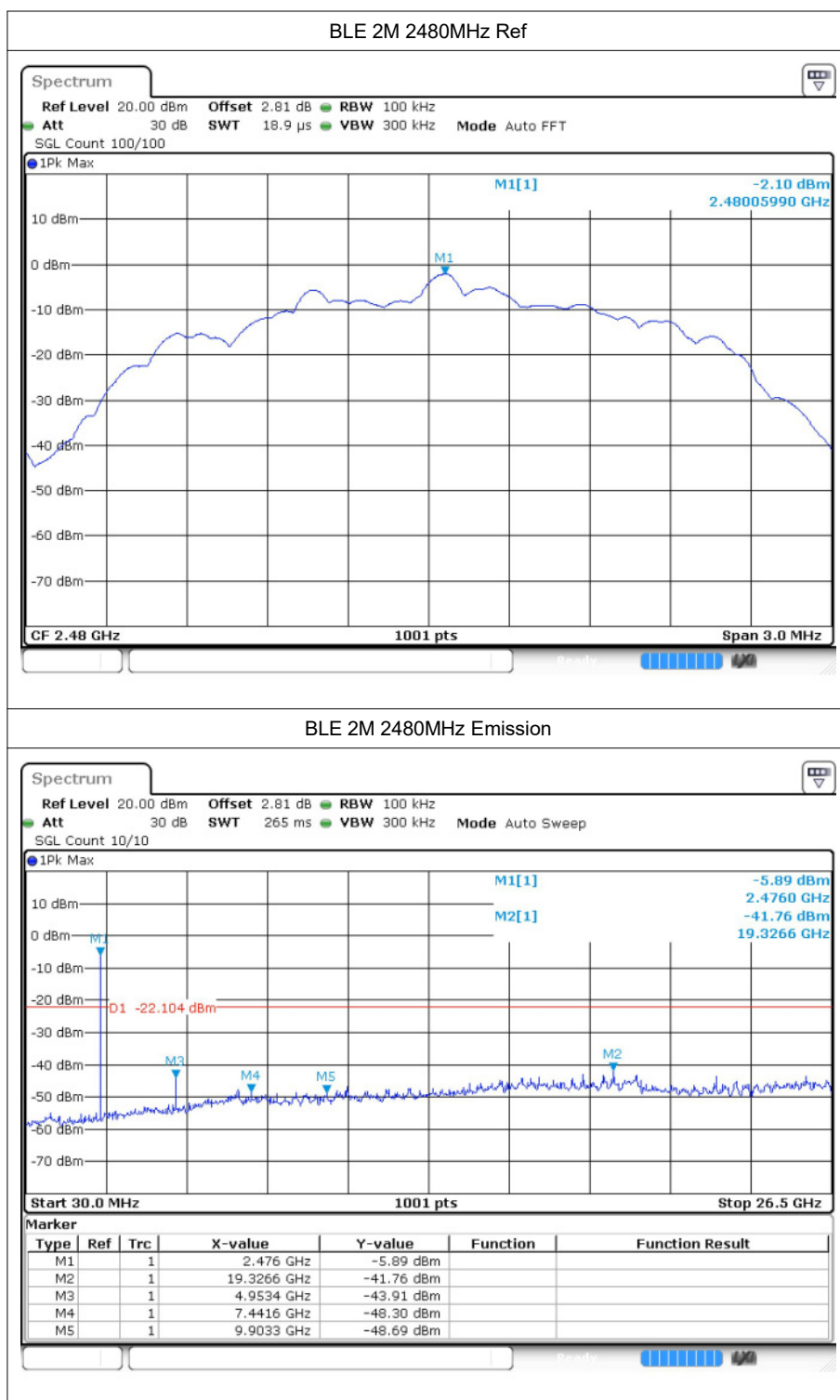












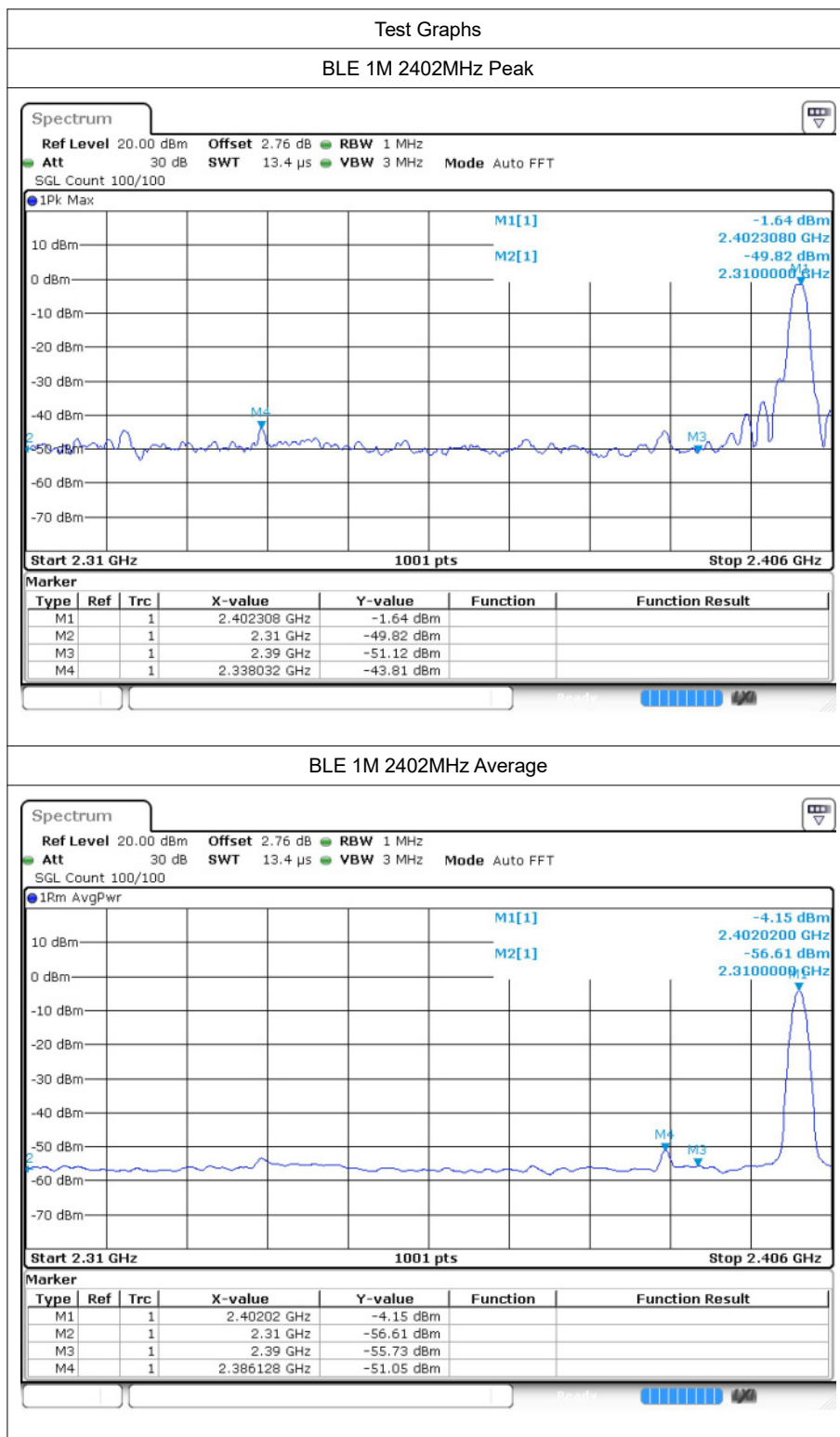


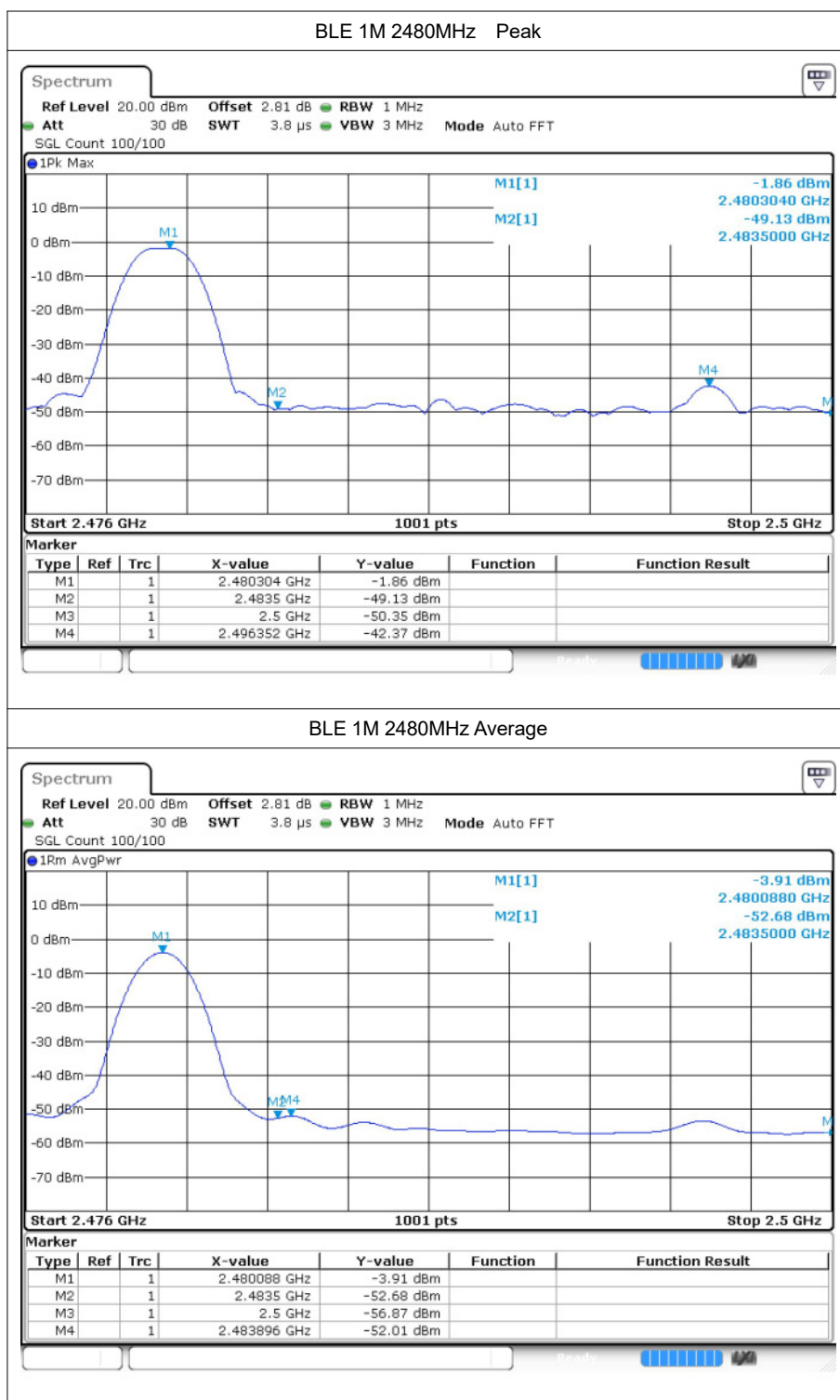
7 Restrict Band

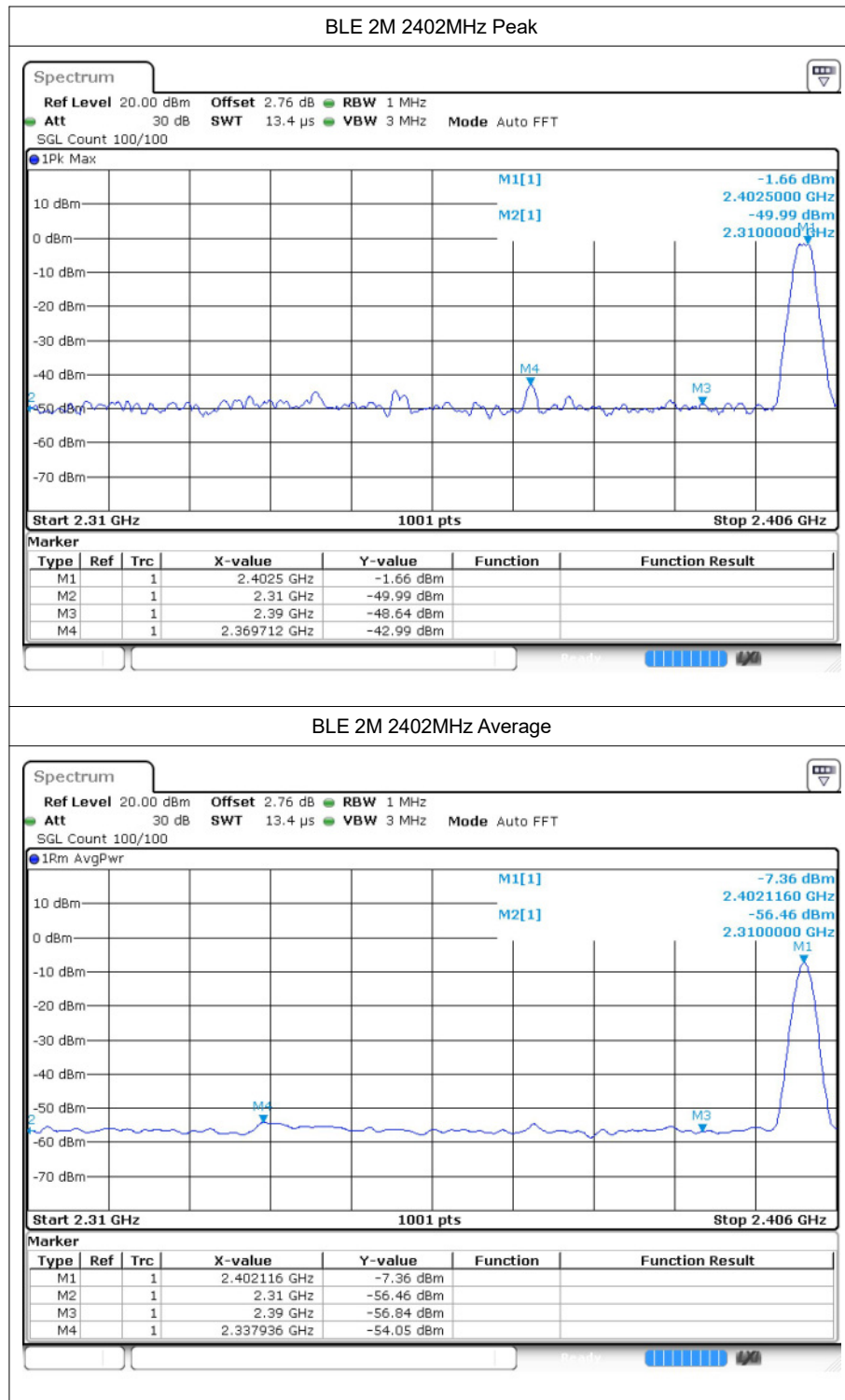
7.1 Test Result

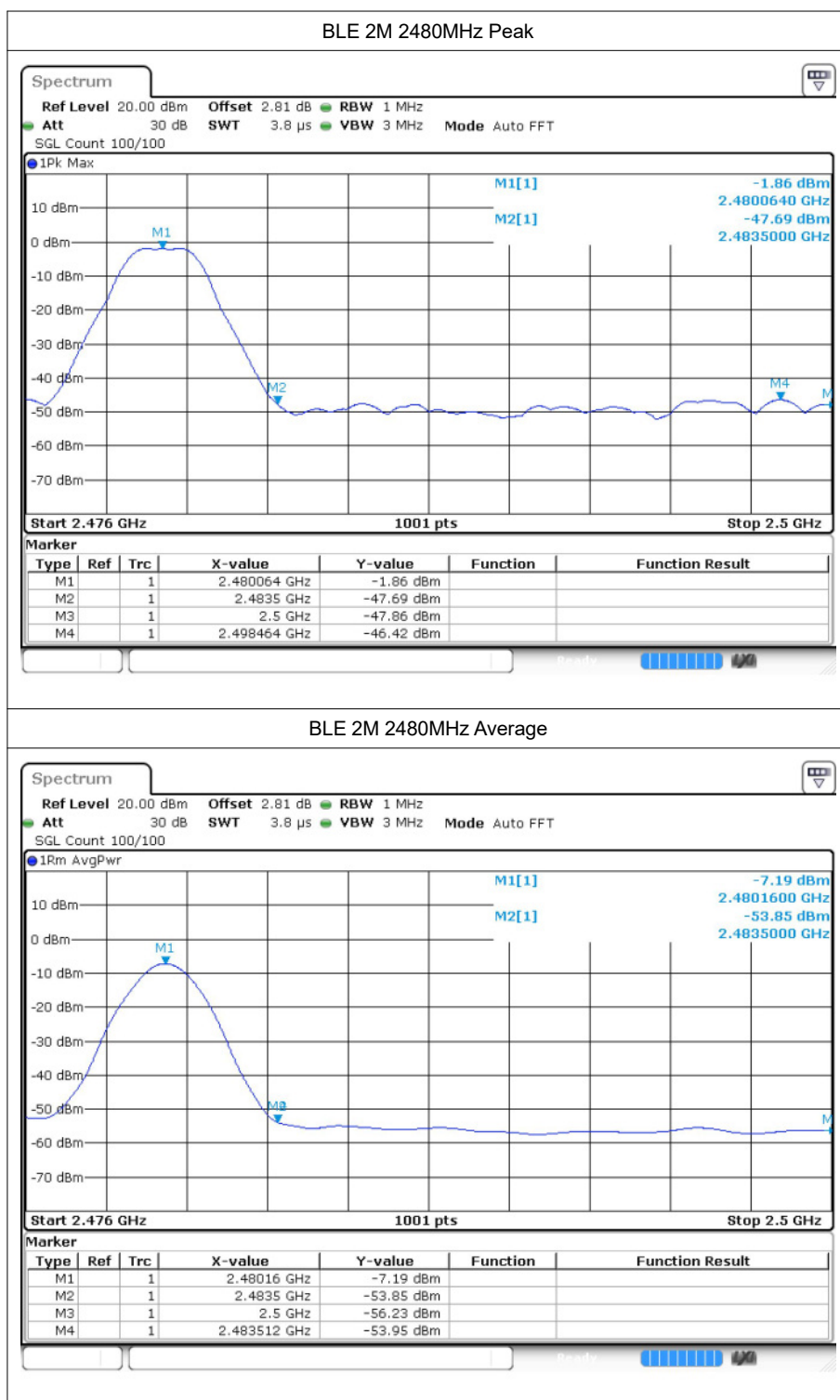
Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
BLE 1M	2402	2310	-49.82	2	-	47.44	Peak	74	Pass
BLE 1M	2402	2310	-56.61	2	1.73	42.38	Average	54	Pass
BLE 1M	2402	2338.032	-43.81	2	-	53.45	Peak	74	Pass
BLE 1M	2402	2386.128	-51.04	2	1.73	47.95	Average	54	Pass
BLE 1M	2402	2390	-51.12	2	-	46.14	Peak	74	Pass
BLE 1M	2402	2390	-55.73	2	1.73	43.26	Average	54	Pass
BLE 1M	2480	2483.5	-49.13	2	-	48.13	Peak	74	Pass
BLE 1M	2480	2483.5	-52.68	2	1.73	46.31	Average	54	Pass
BLE 1M	2480	2496.352	-42.36	2	-	54.9	Peak	74	Pass
BLE 1M	2480	2483.896	-52.01	2	1.73	46.98	Average	54	Pass
BLE 1M	2480	2500	-50.35	2	-	46.91	Peak	74	Pass
BLE 1M	2480	2500	-56.87	2	1.73	42.12	Average	54	Pass
BLE 2M	2402	2310	-49.99	2	-	47.27	Peak	74	Pass
BLE 2M	2402	2310	-56.46	2	4.47	45.27	Average	54	Pass
BLE 2M	2402	2369.712	-42.98	2	-	54.28	Peak	74	Pass
BLE 2M	2402	2337.936	-54.04	2	4.47	47.69	Average	54	Pass
BLE 2M	2402	2390	-48.64	2	-	48.62	Peak	74	Pass
BLE 2M	2402	2390	-56.84	2	4.47	44.89	Average	54	Pass
BLE 2M	2480	2483.5	-47.69	2	-	49.57	Peak	74	Pass
BLE 2M	2480	2483.5	-53.85	2	4.47	47.88	Average	54	Pass
BLE 2M	2480	2498.464	-46.41	2	-	50.85	Peak	74	Pass
BLE 2M	2480	2483.512	-53.94	2	4.47	47.79	Average	54	Pass
BLE 2M	2480	2500	-47.86	2	-	49.4	Peak	74	Pass
BLE 2M	2480	2500	-56.23	2	4.47	45.5	Average	54	Pass

7.2 Test Graphs









---The End---