



Appendix B

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

Product Name: Folding MIDI keyboard

Trade Mark: **MIDIPLUS**

Test Model: Vboard 49

Environmental Conditions

Temperature:	20.3° C
Relative Humidity:	42.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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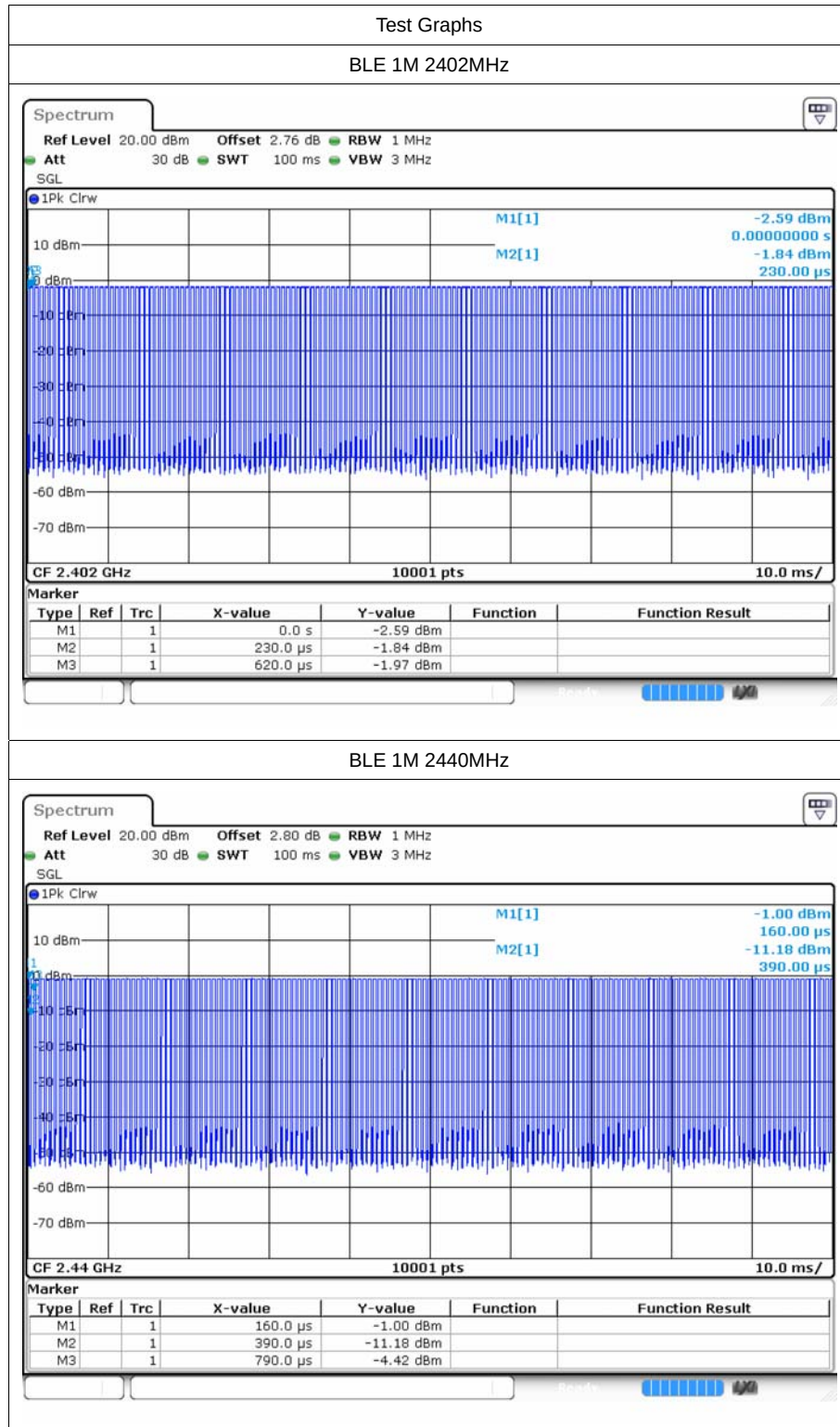


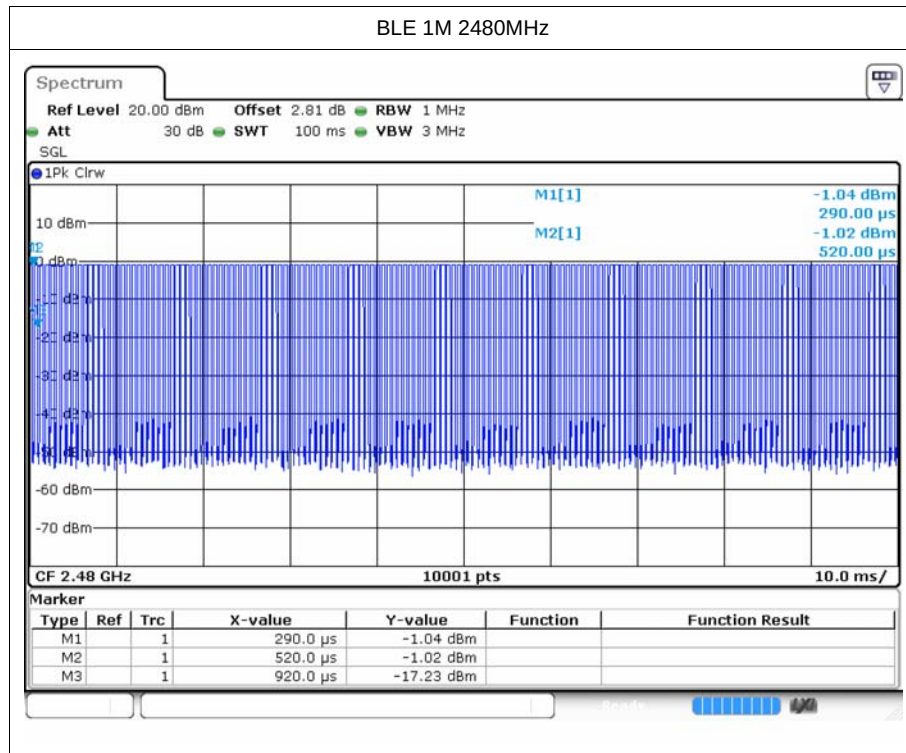
1 Duty Cycle

1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
BLE 1M	2402	64	2.56
BLE 1M	2440	64.29	2.5
BLE 1M	2480	64.8	2.5

1.2 Test Graphs





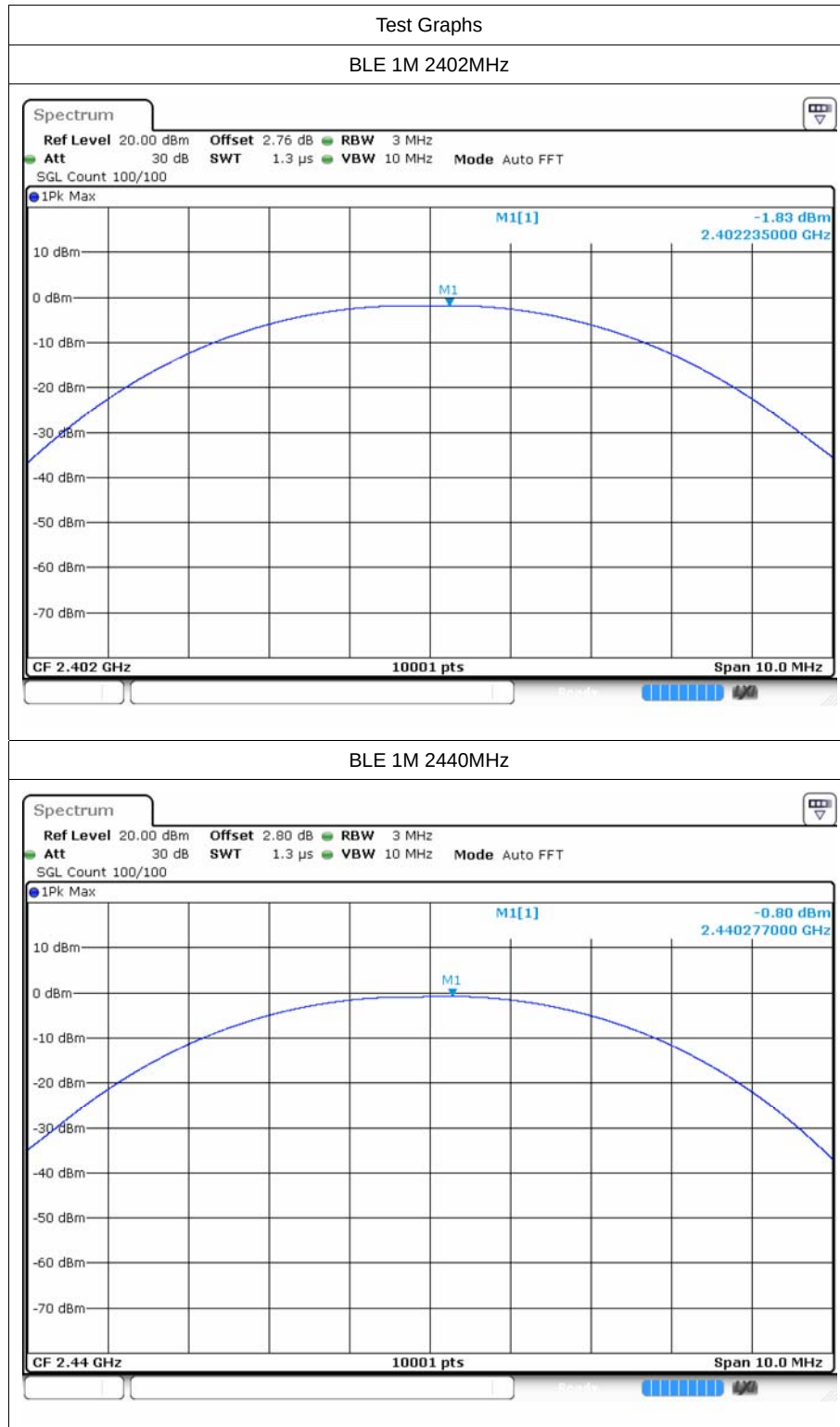


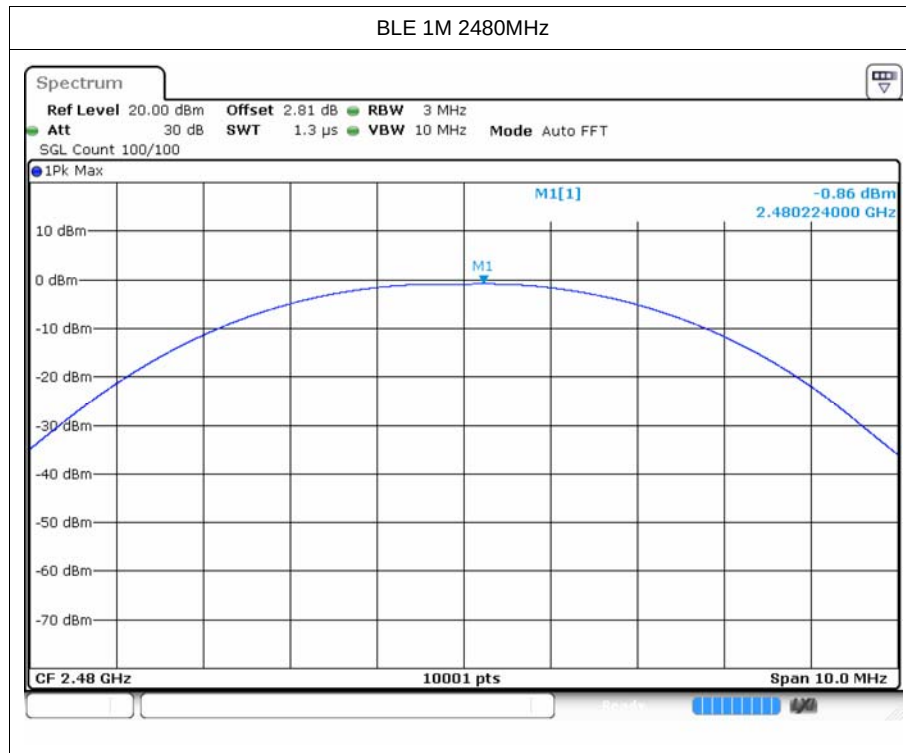
2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	-1.83	30	Pass
BLE 1M	2440	-0.8	30	Pass
BLE 1M	2480	-0.86	30	Pass

2.2 Test Graphs





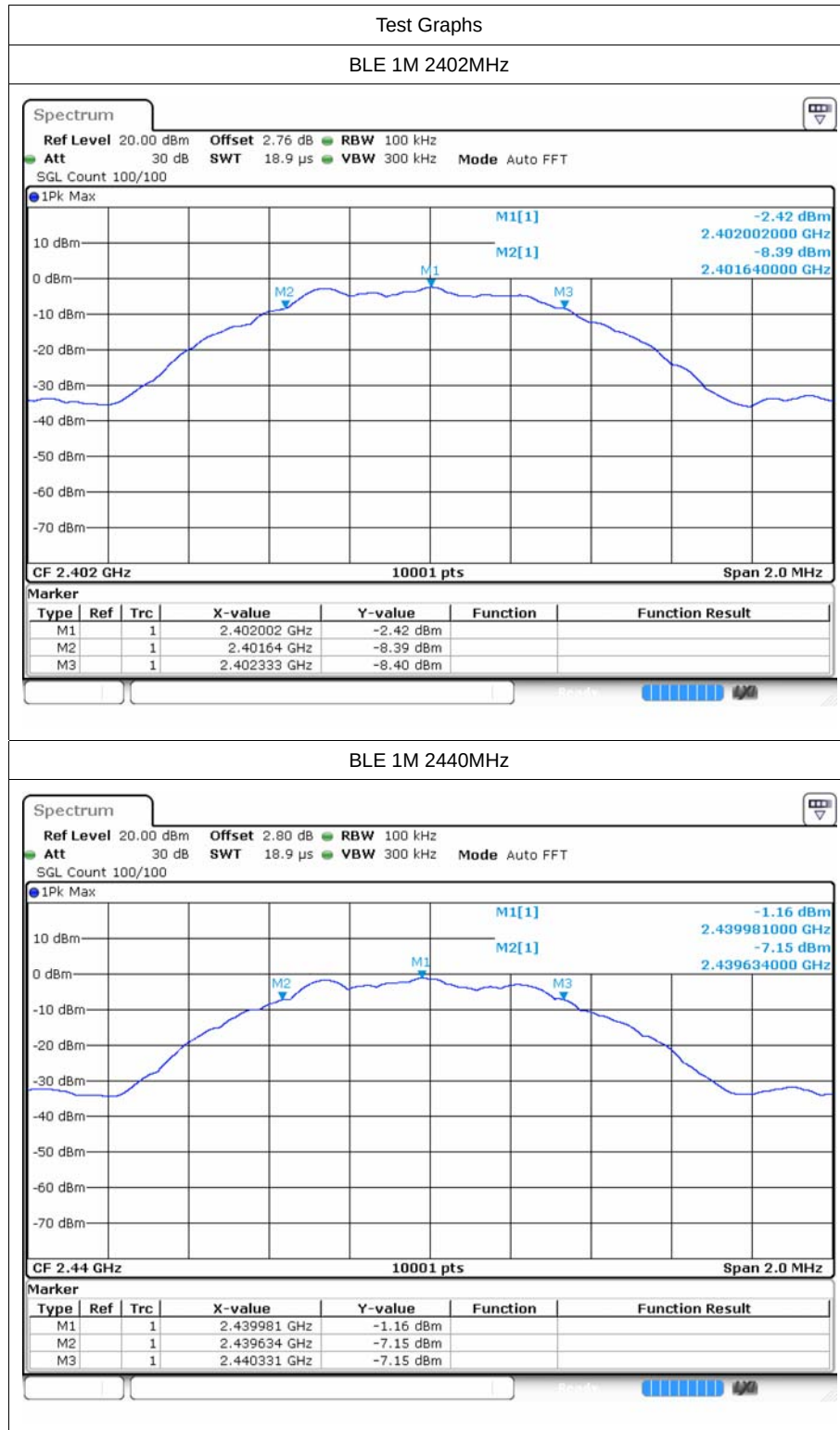


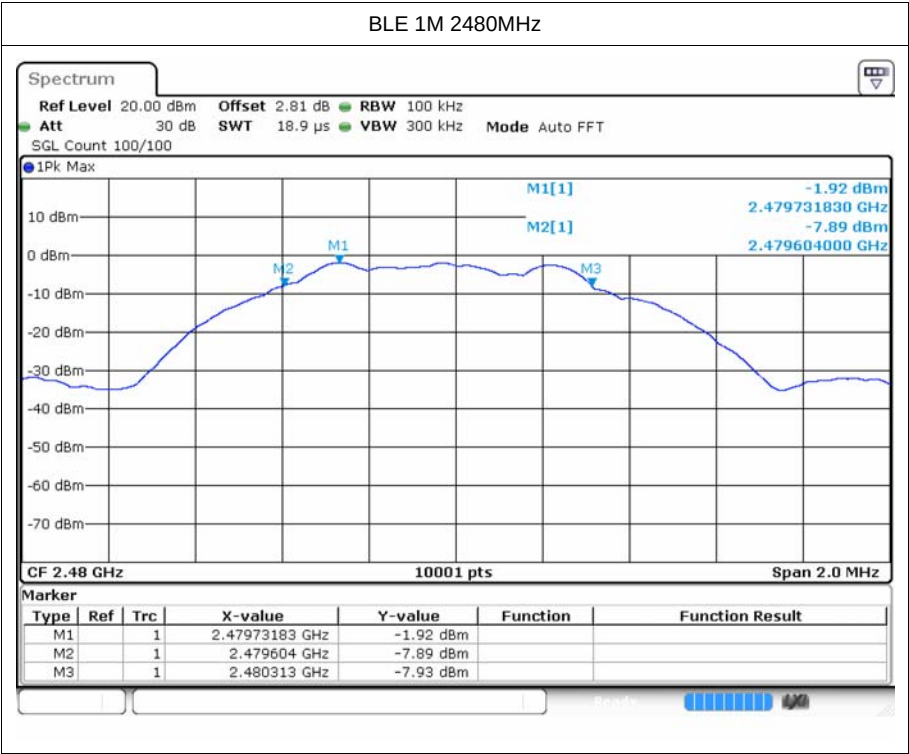
3 -6dB Bandwidth

3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.694	0.5	Pass
BLE 1M	2440	0.698	0.5	Pass
BLE 1M	2480	0.709	0.5	Pass

3.2 Test Graphs





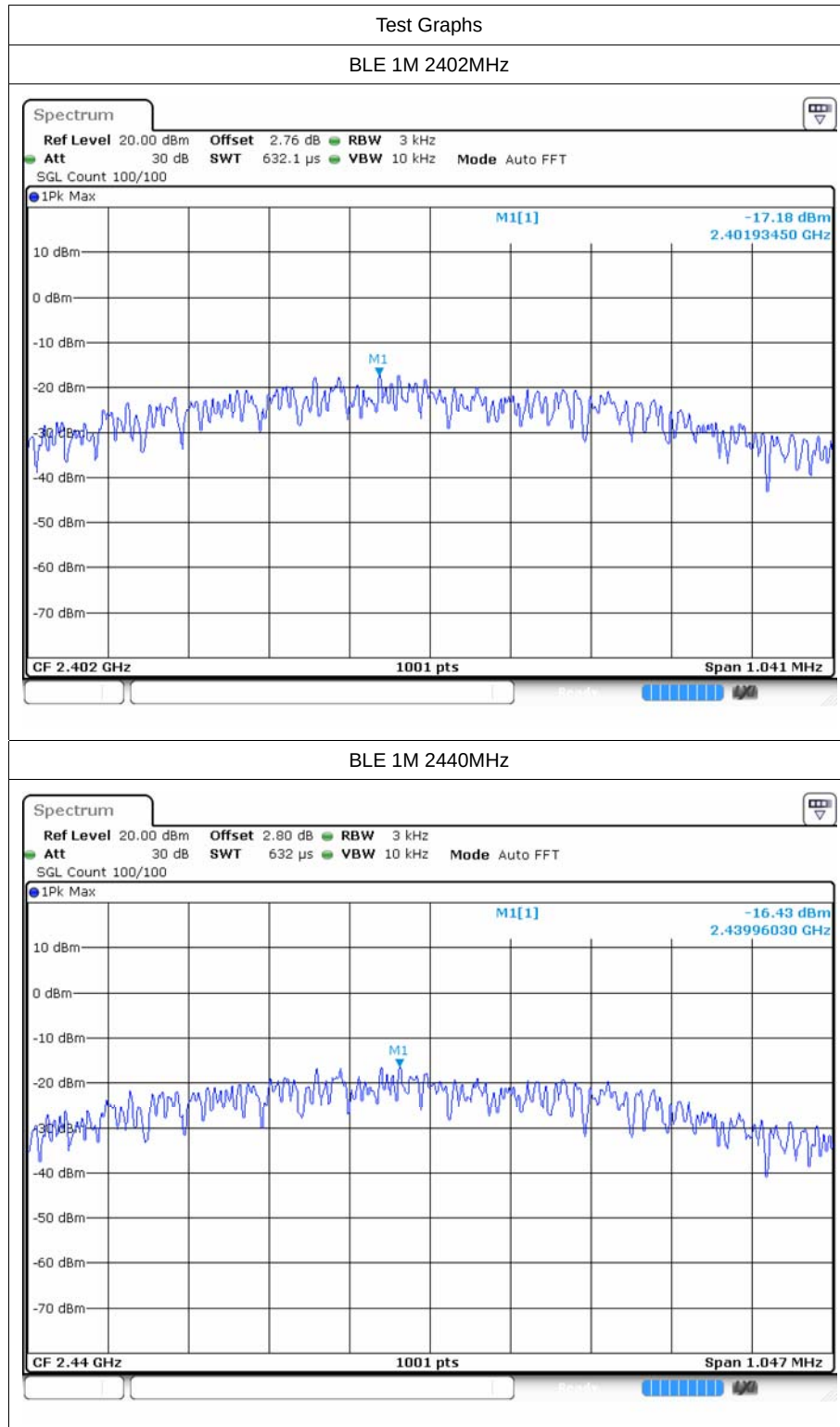


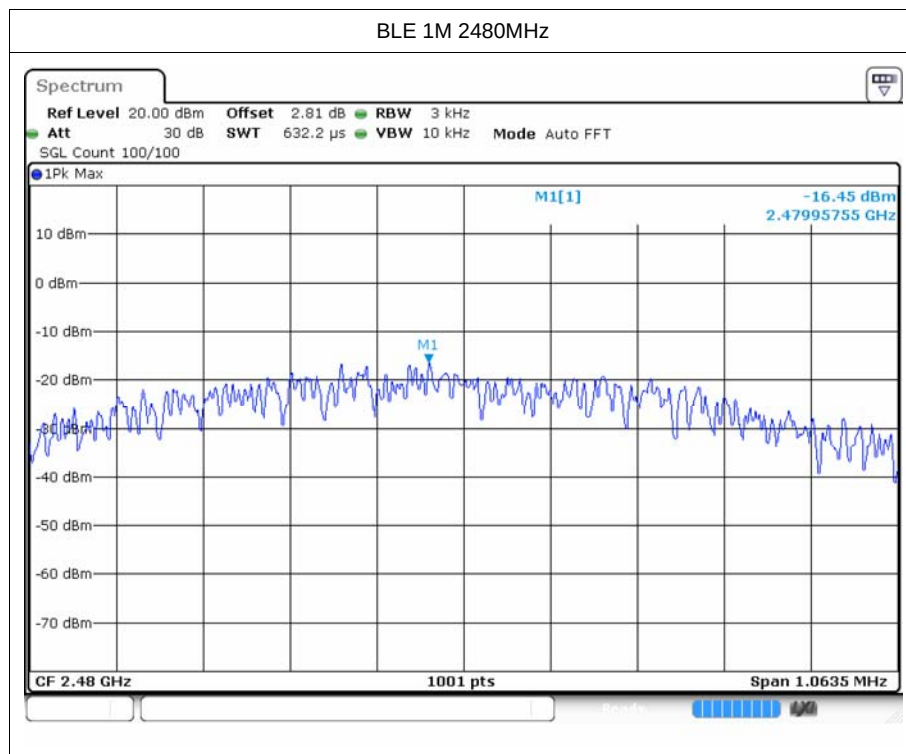
4 Maximum Power Spectral Density Level

4.1 Test Result

Mode	Frequency (MHz)	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-17.18	≤ 8	Pass
BLE 1M	2440	-16.43	≤ 8	Pass
BLE 1M	2480	-16.45	≤ 8	Pass

4.2 Test Graphs





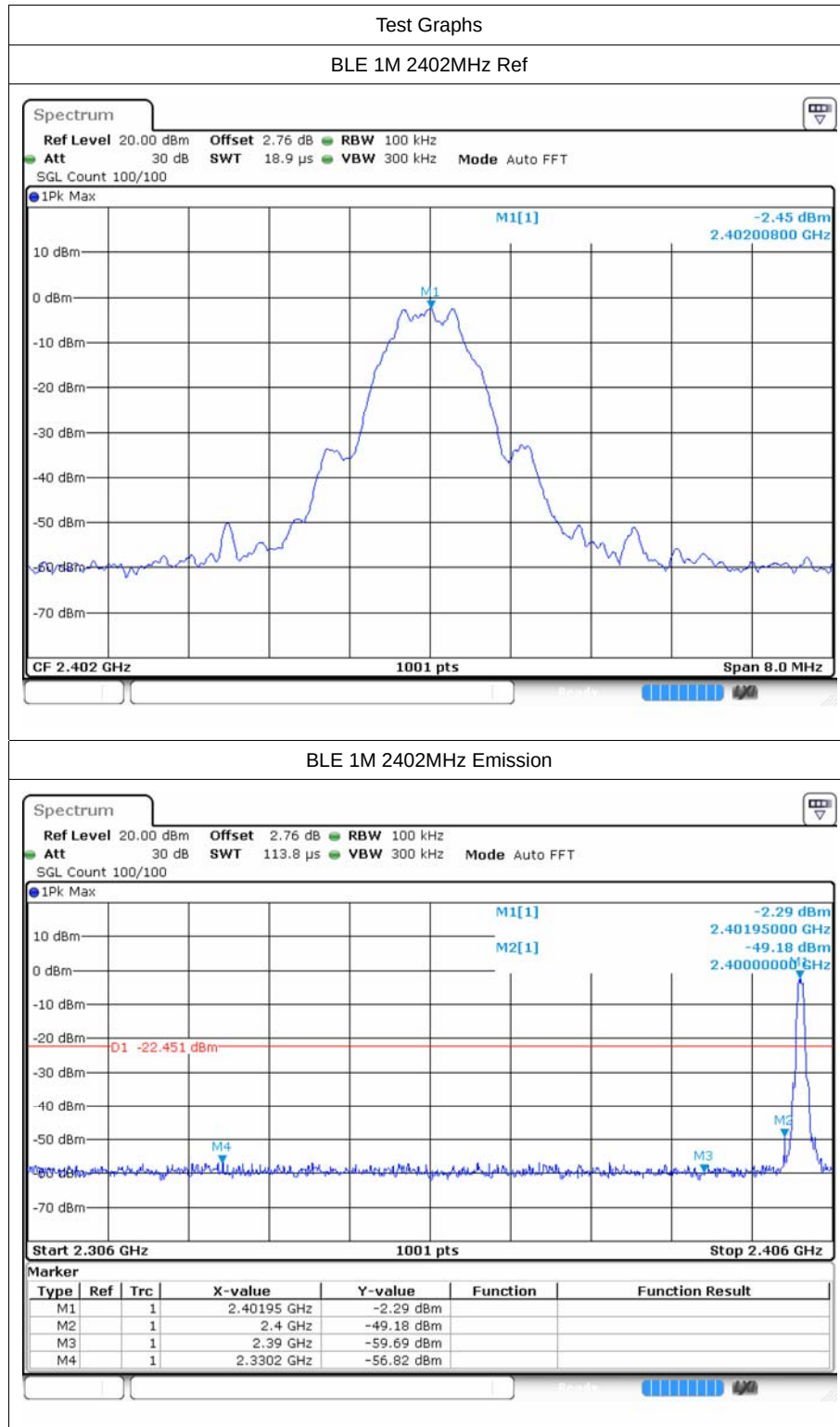


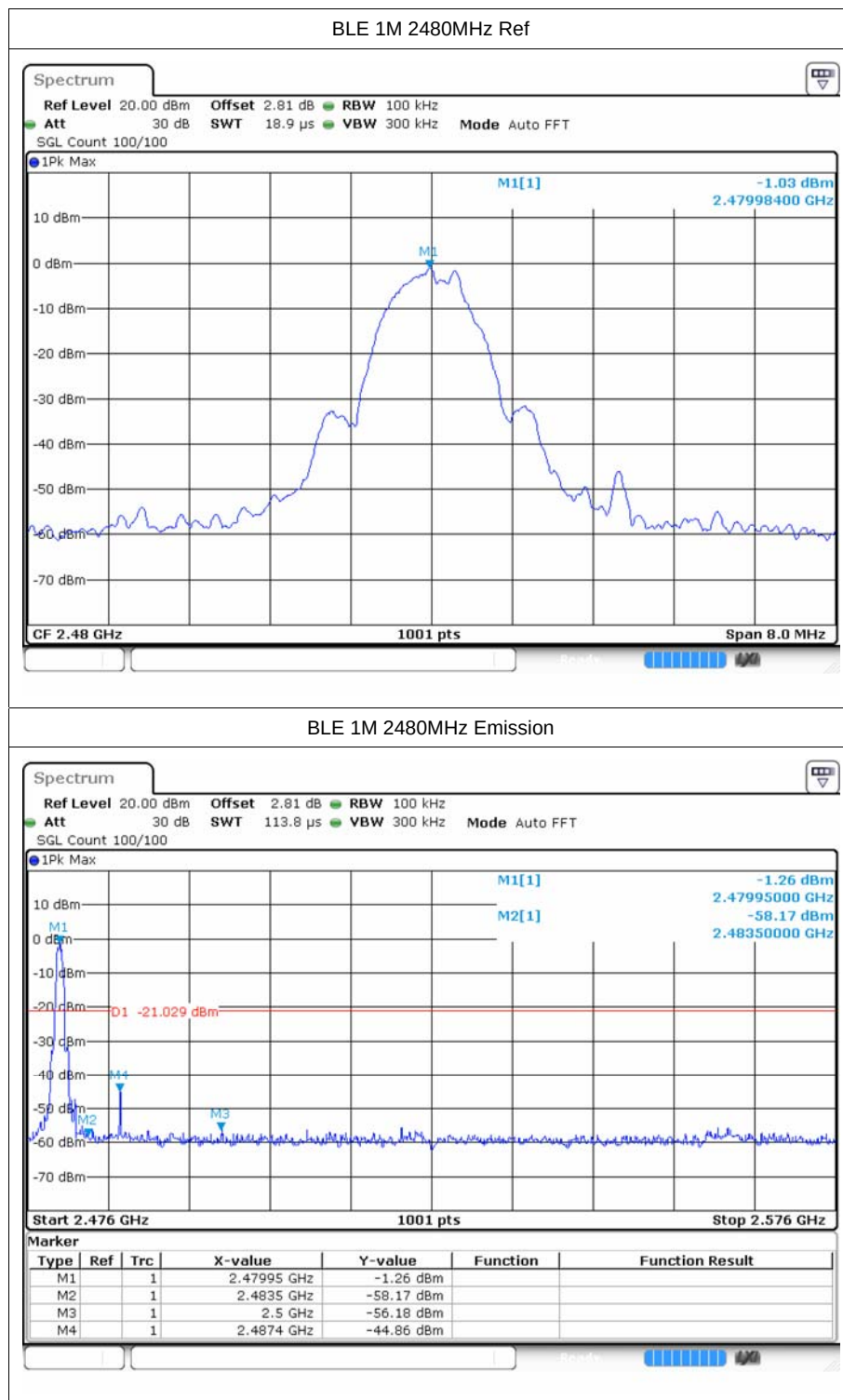
5 Band Edge

5.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-54.37	-20	Pass
BLE 1M	2480	-43.82	-20	Pass

5.2 Test Graphs





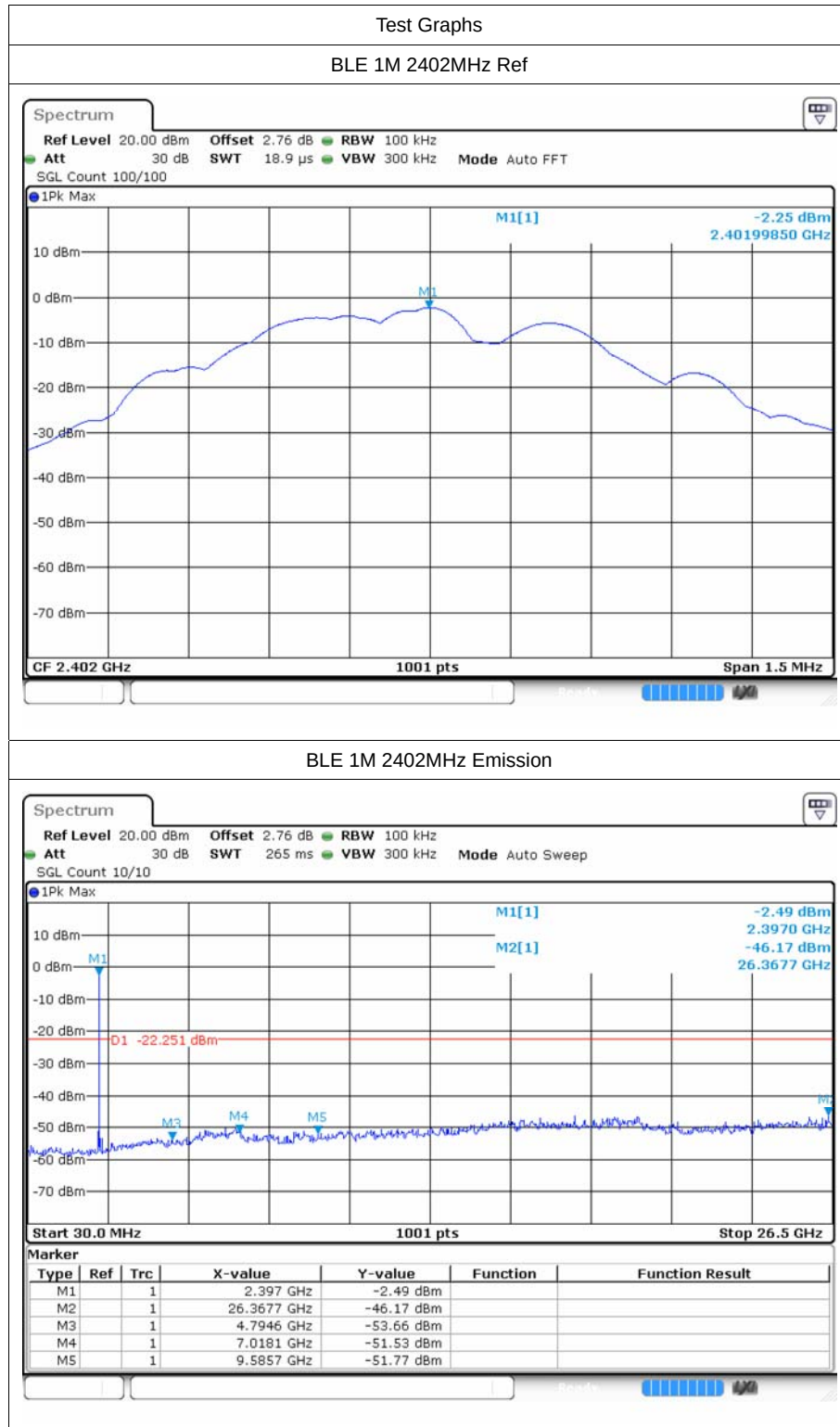


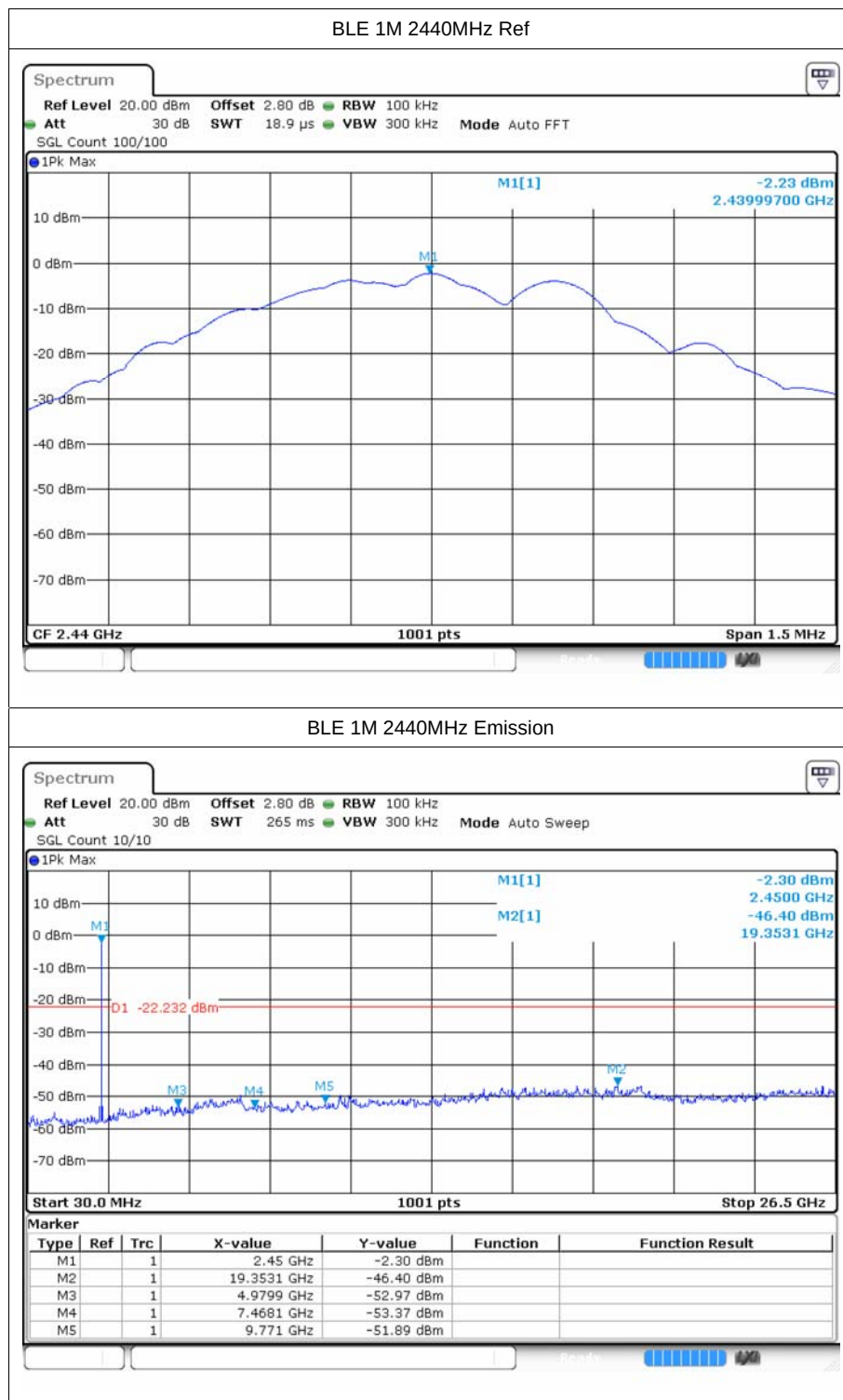
6 Conducted RF Spurious Emission

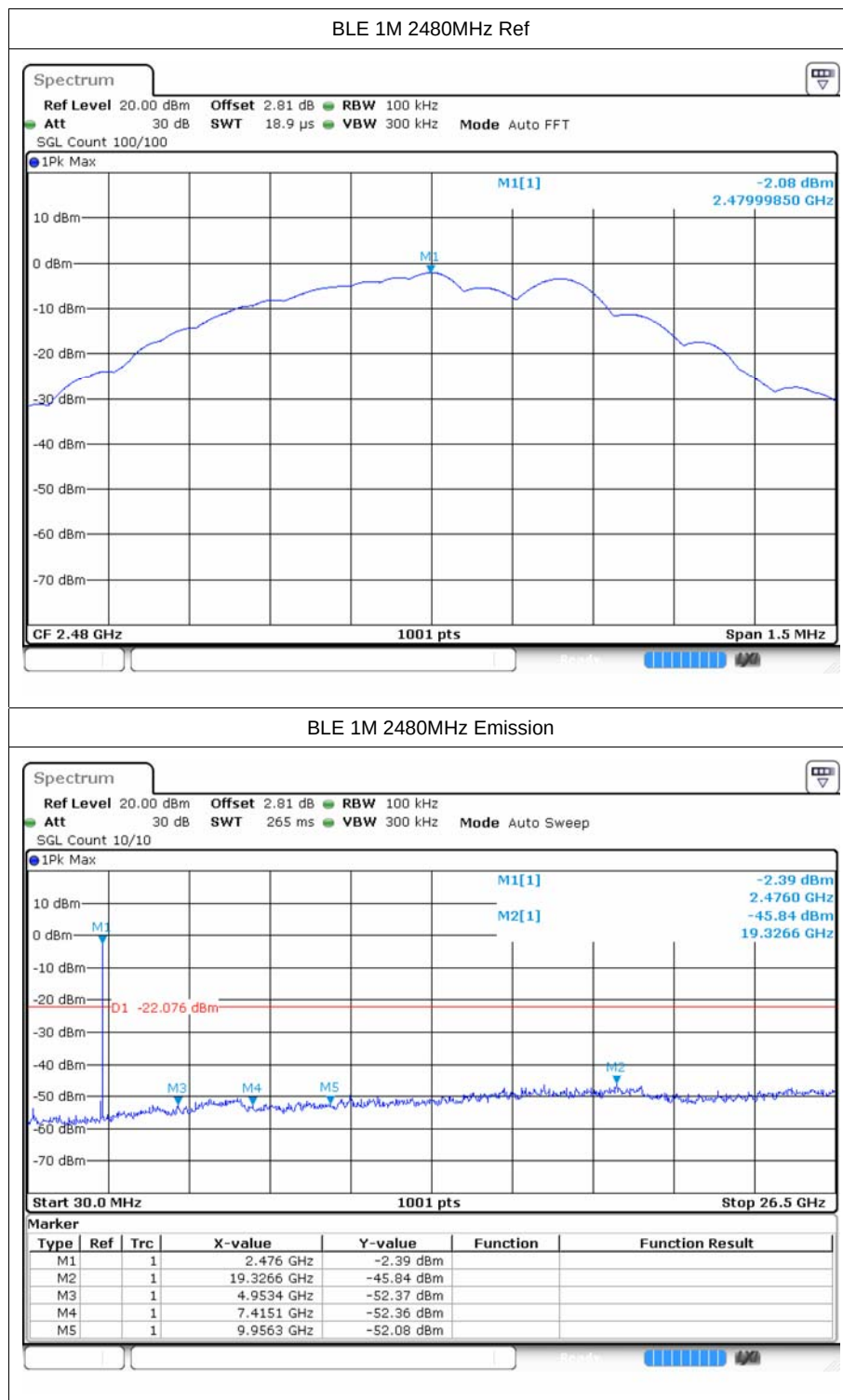
6.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-43.91	-20	Pass
BLE 1M	2440	-44.16	-20	Pass
BLE 1M	2480	-43.76	-20	Pass

6.2 Test Graphs







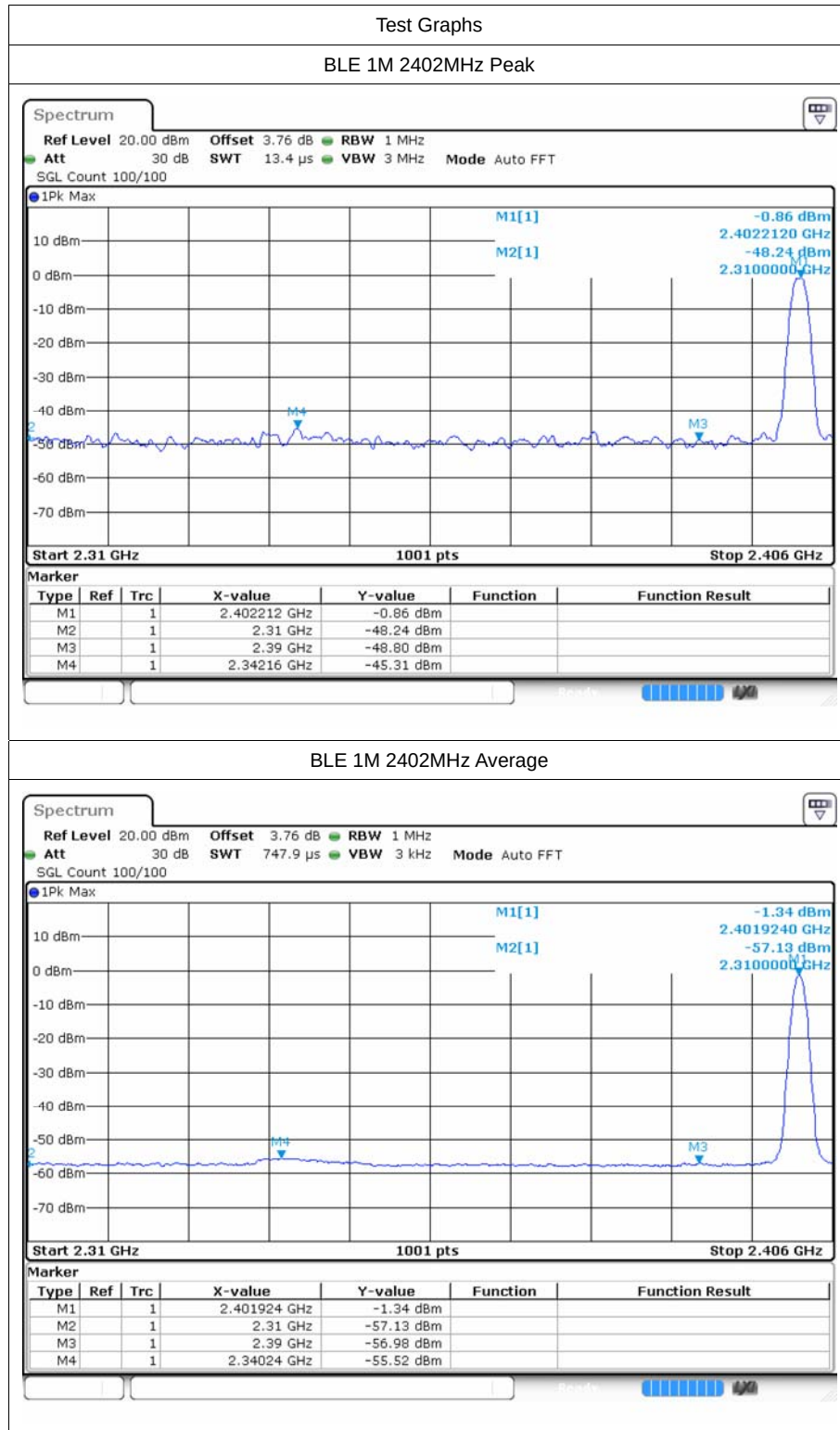


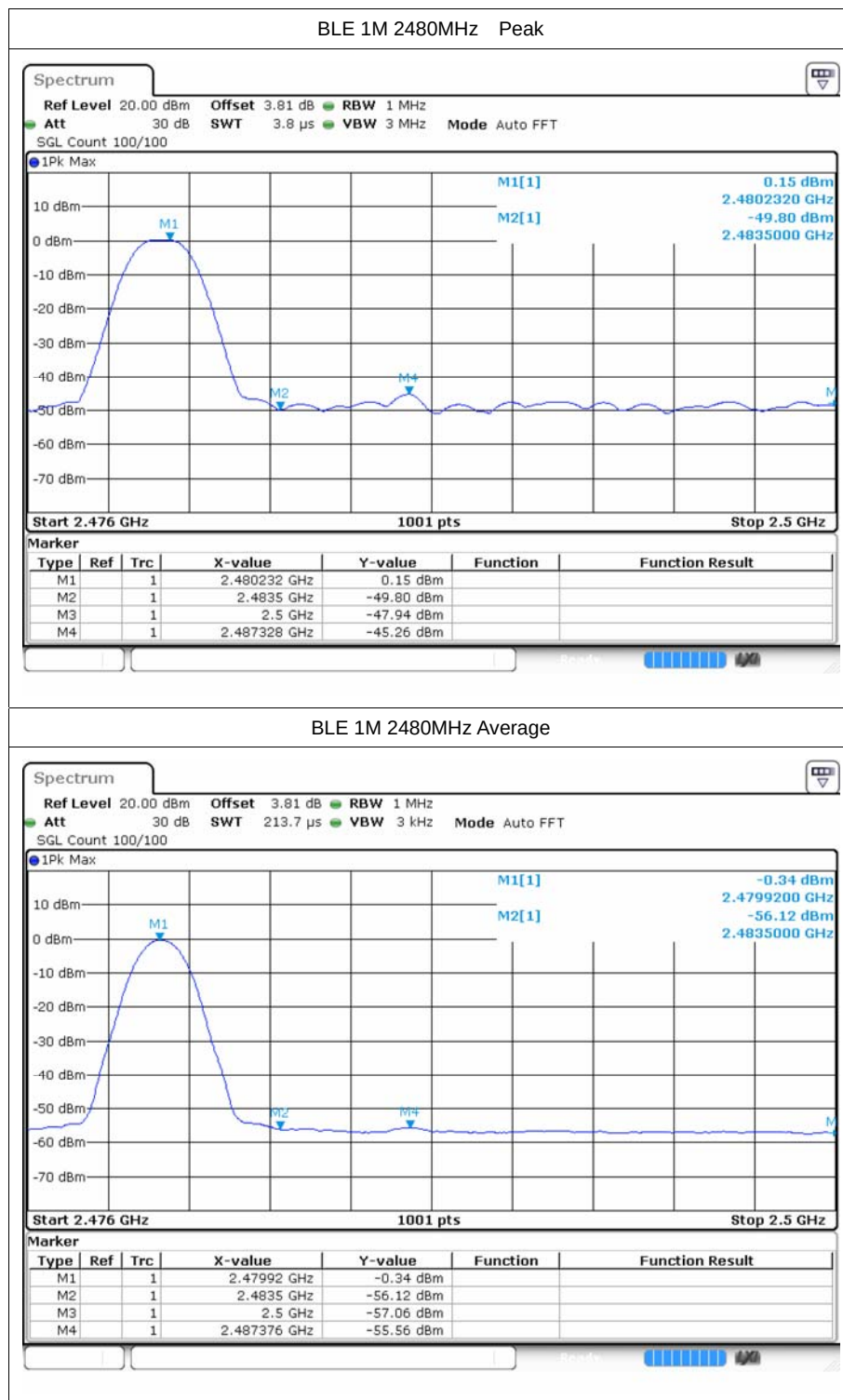
7 Restrict Band

7.1 Test Result

Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
BLE 1M	2402	2310	-48.23	2	49.03	Peak	74	Pass
BLE 1M	2402	2310	-57.12	2	40.14	Average	54	Pass
BLE 1M	2402	2342.16	-45.3	2	51.96	Peak	74	Pass
BLE 1M	2402	2340.24	-55.52	2	41.74	Average	54	Pass
BLE 1M	2402	2390	-48.8	2	48.46	Peak	74	Pass
BLE 1M	2402	2390	-56.98	2	40.28	Average	54	Pass
BLE 1M	2480	2483.5	-49.77	2	47.49	Peak	74	Pass
BLE 1M	2480	2483.5	-56.16	2	41.1	Average	54	Pass
BLE 1M	2480	2487.328	-45.25	2	52.01	Peak	74	Pass
BLE 1M	2480	2487.376	-55.56	2	41.7	Average	54	Pass
BLE 1M	2480	2500	-47.94	2	49.32	Peak	74	Pass
BLE 1M	2480	2500	-57.06	2	40.2	Average	54	Pass

7.2 Test Graphs





---The End---