



Appendix B

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

Product Name: Smart Watch

Trade Mark: N/A

Test Model: F1680

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



Contents

Page

COVER PAGE

1	Duty Cycle	3
1.1	Test Result	3
1.2	Test Graphs	4
2	Maximum Conducted Output Power	7
2.1	Test Result	7
2.2	Test Graphs	8
3	-6dB Bandwidth	11
3.1	Test Result	11
3.2	Test Graphs	12
4	Maximum Power Spectral Density Level	15
4.1	Test Result	15
4.2	Test Graphs	16
5	Band Edge	19
5.1	Test Result	19
5.2	Test Graphs	20
6	Conducted RF Spurious Emission	24
6.1	Test Result	24
6.2	Test Graphs	25
7	Restrict Band	31
7.1	Test Result	31
7.2	Test Graphs	33

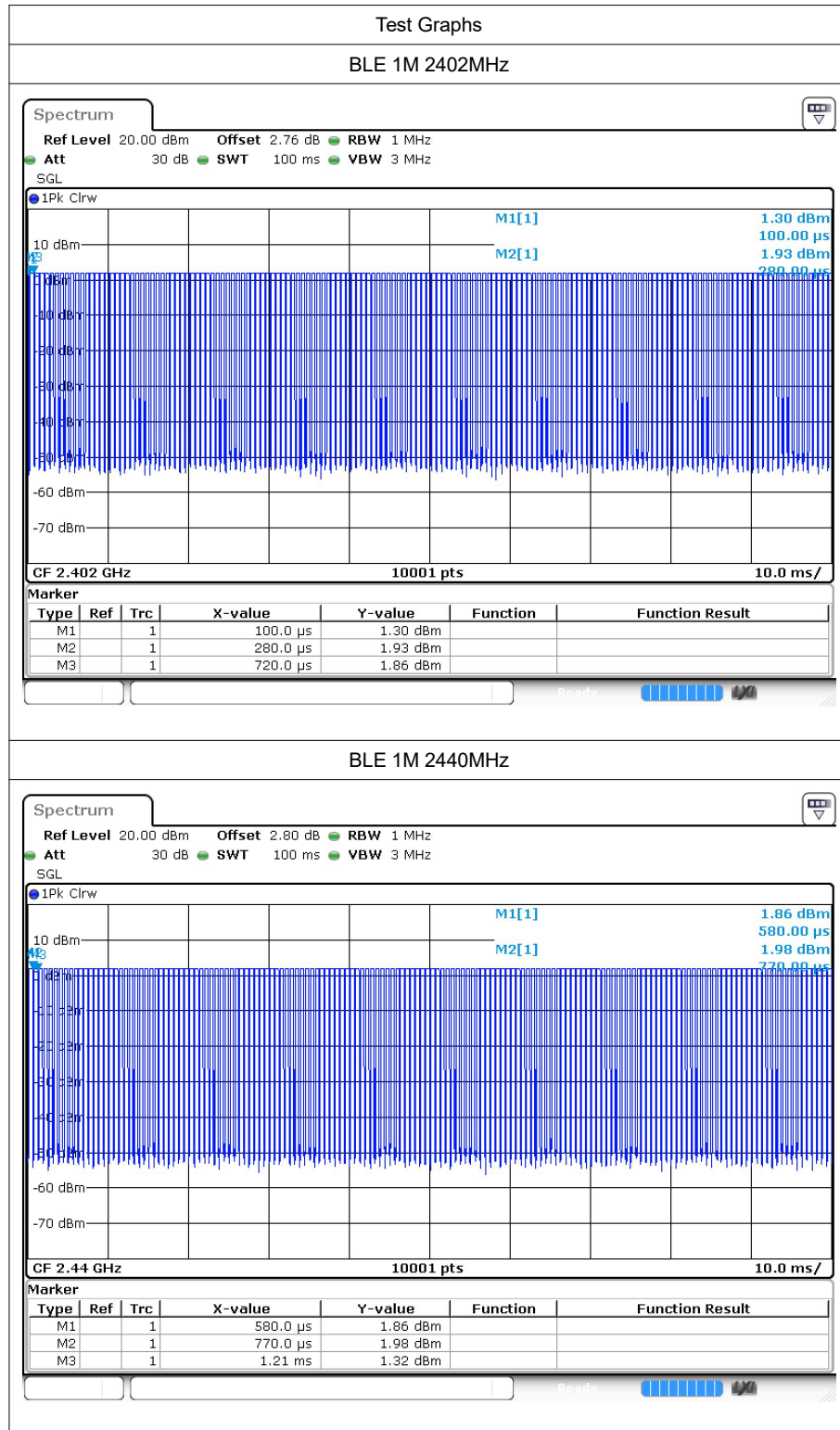


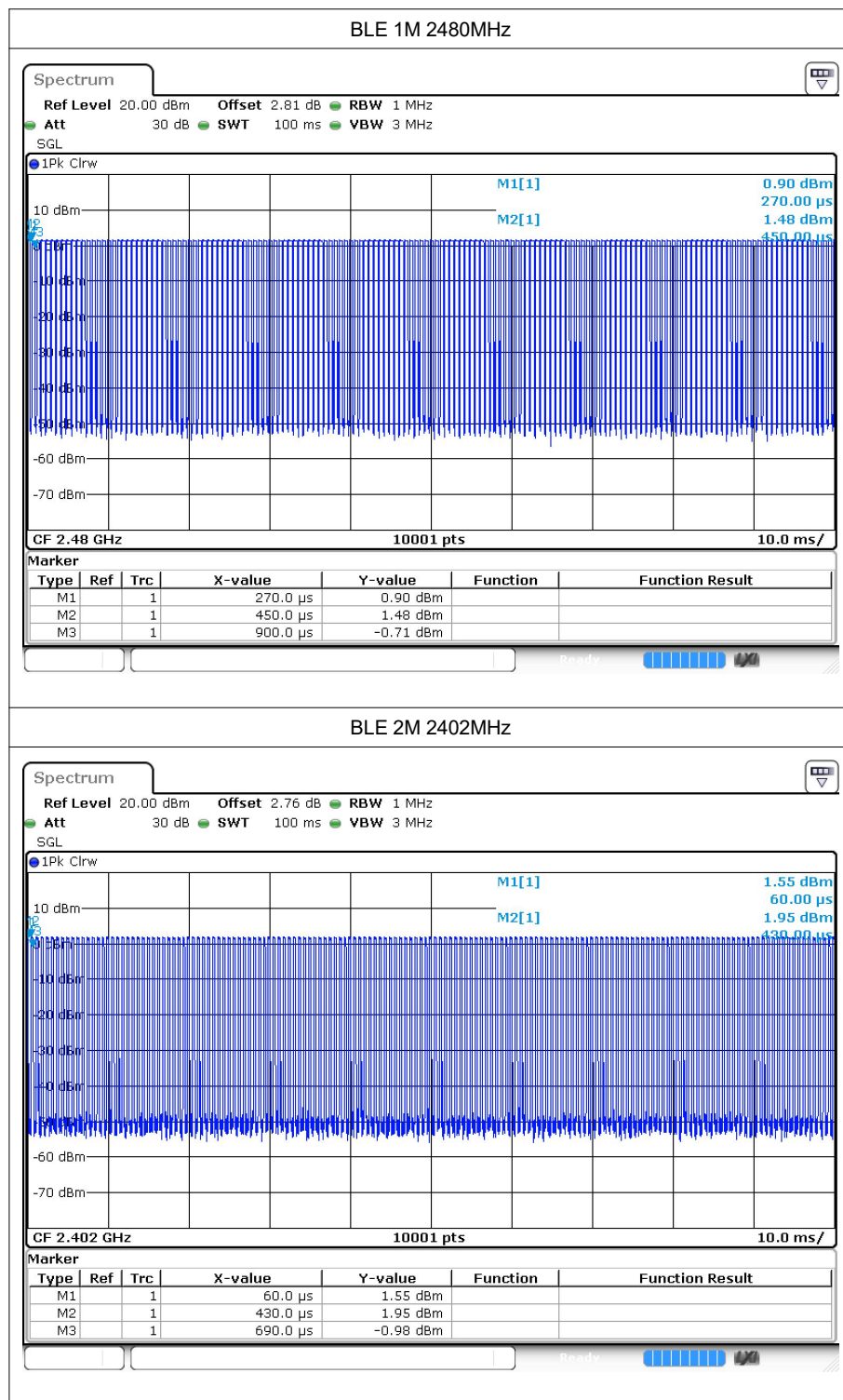
1 Duty Cycle

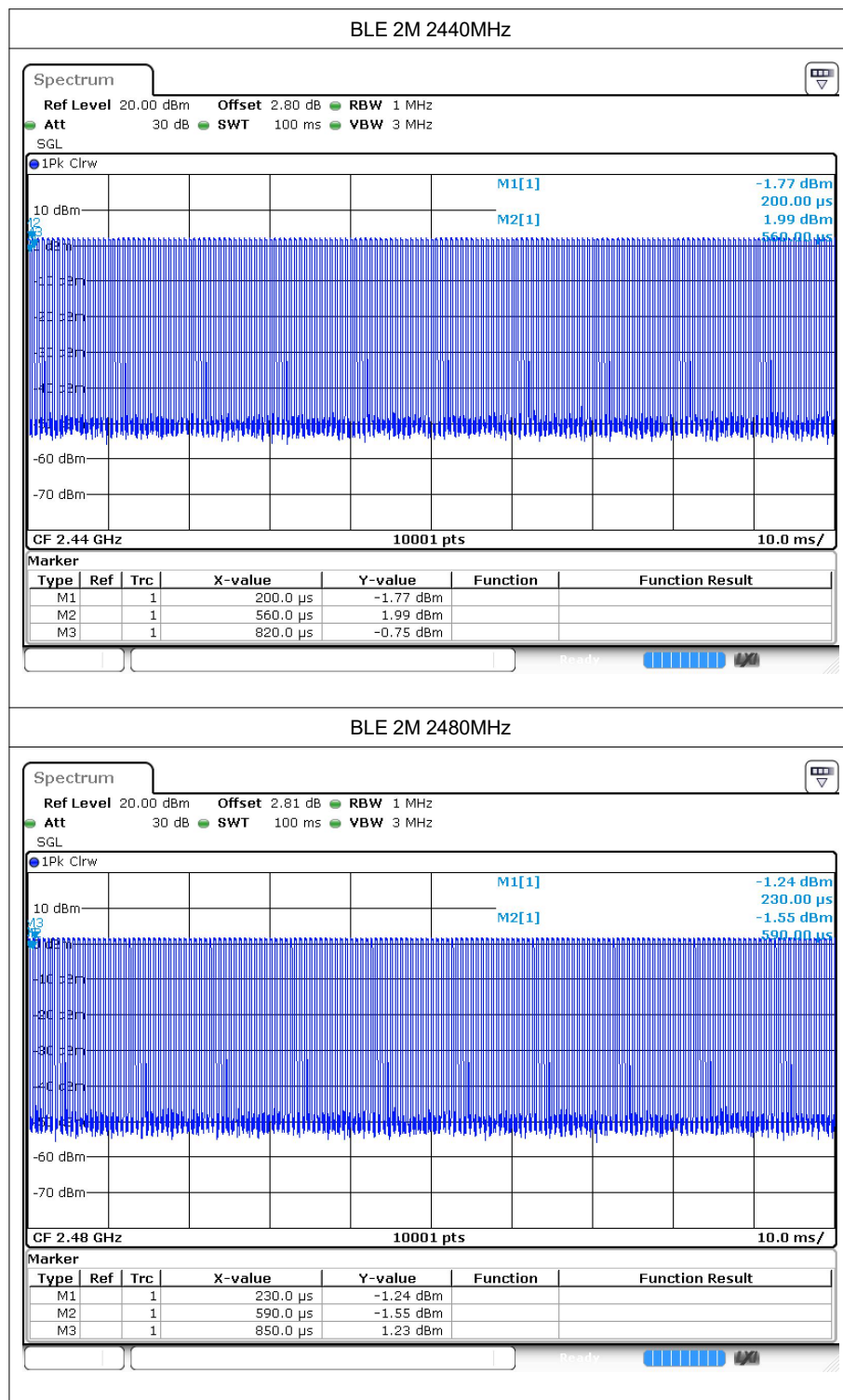
1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
BLE 1M	2402	72	2.27
BLE 1M	2440	71.99	2.27
BLE 1M	2480	72.8	2.22
BLE 2M	2402	43.21	3.85
BLE 2M	2440	43.21	3.85
BLE 2M	2480	43.21	3.85

1.2 Test Graphs







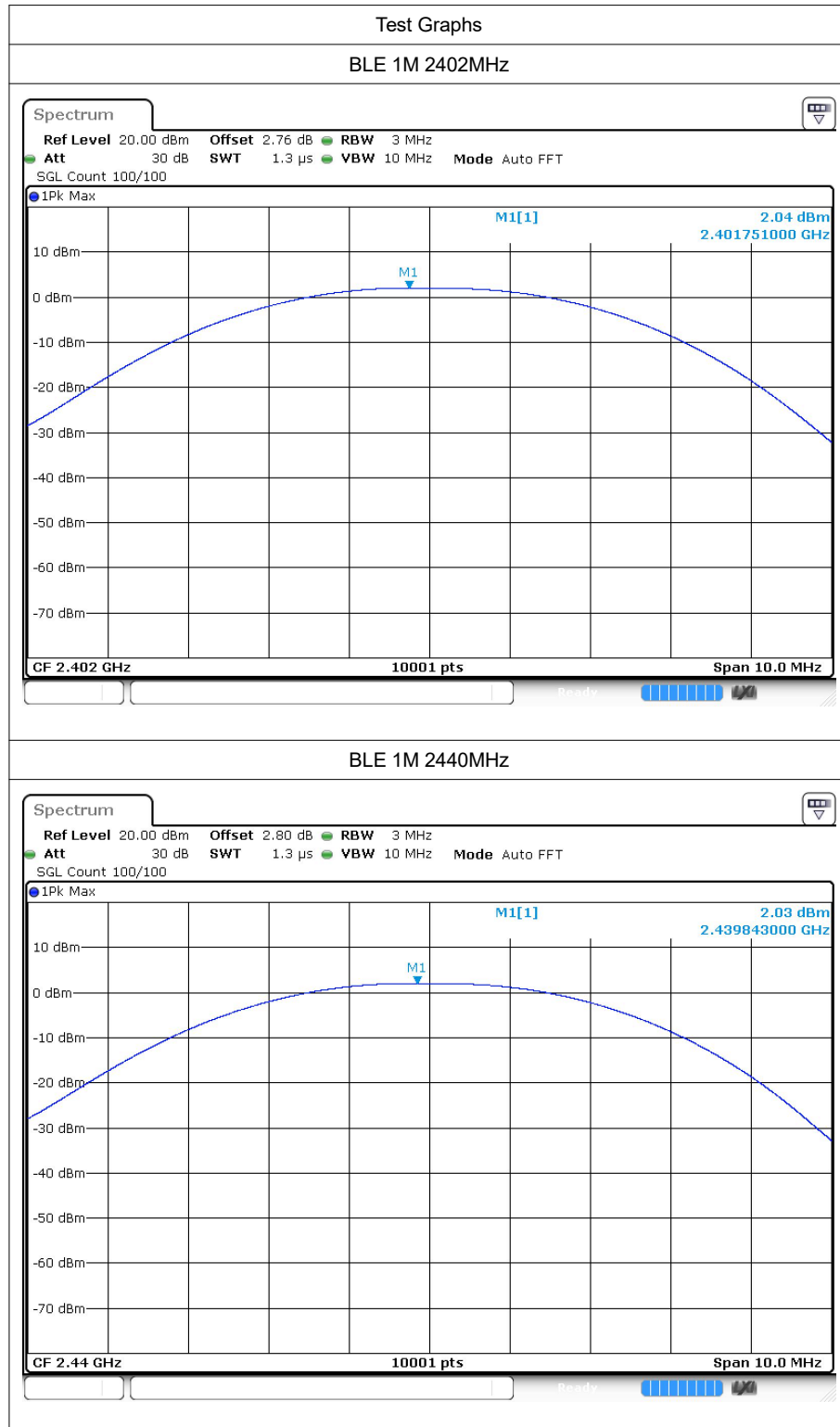


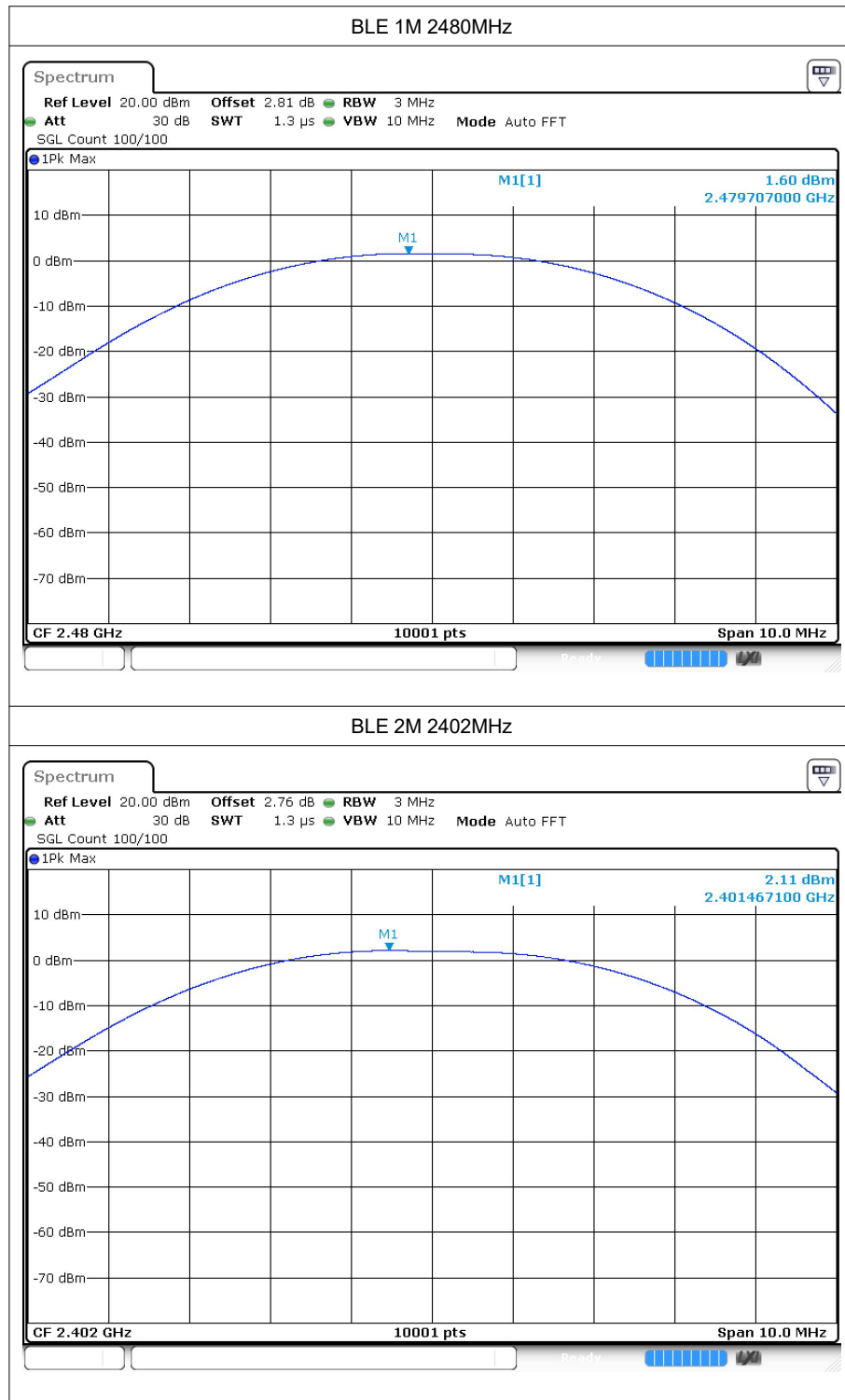
2 Maximum Conducted Output Power

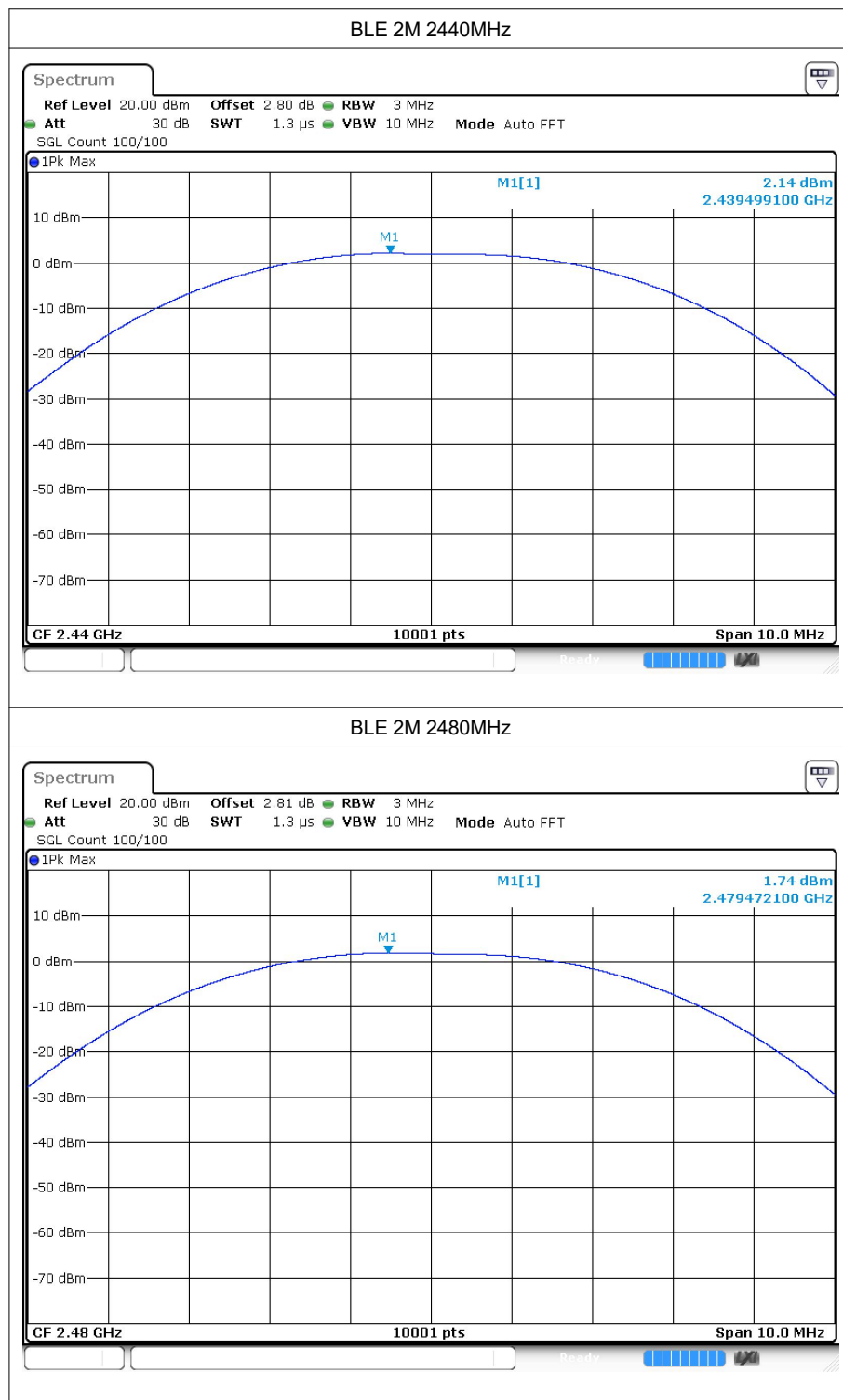
2.1 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	2.04	30	Pass
BLE 1M	2440	2.03	30	Pass
BLE 1M	2480	1.6	30	Pass
BLE 2M	2402	2.11	30	Pass
BLE 2M	2440	2.14	30	Pass
BLE 2M	2480	1.74	30	Pass

2.2 Test Graphs







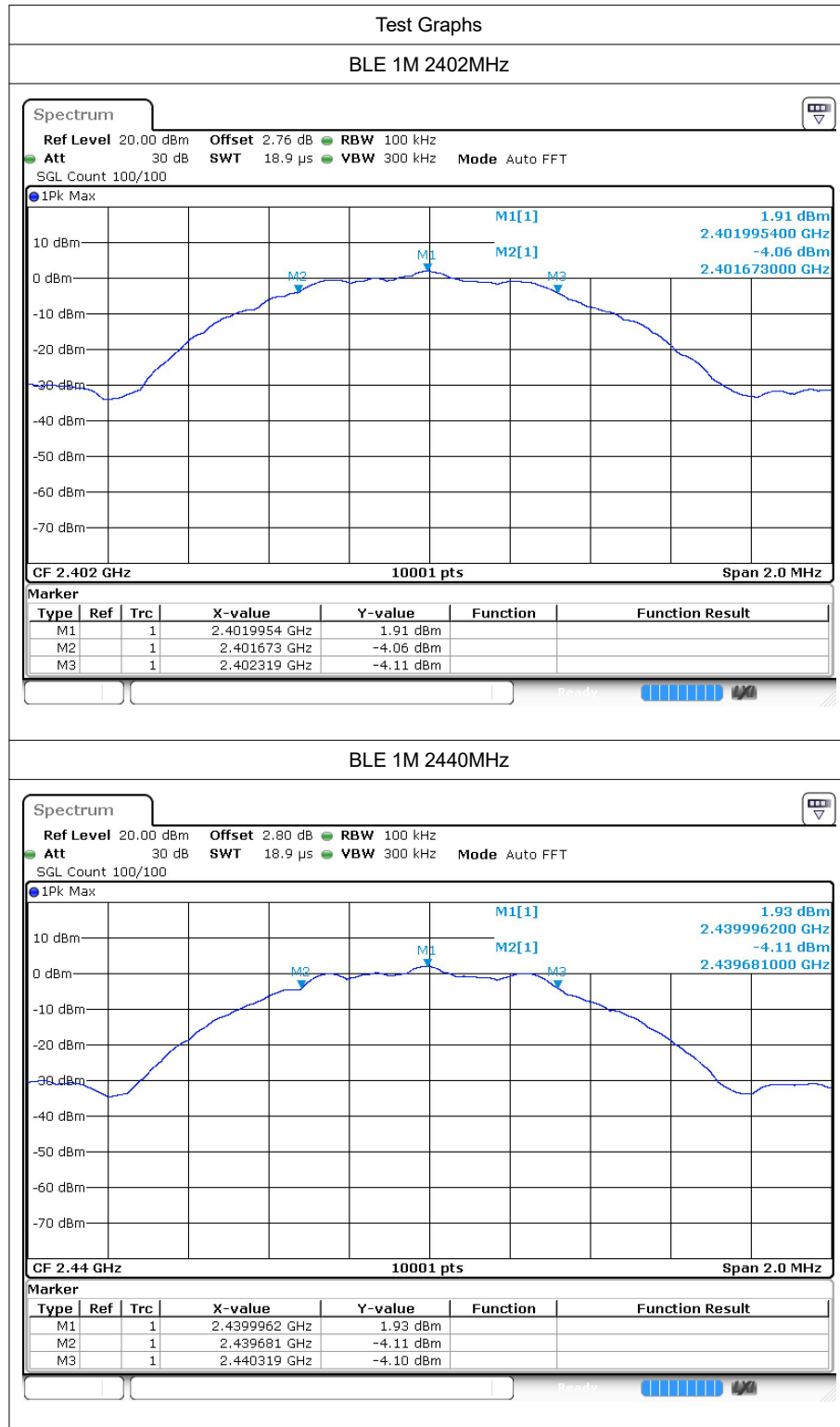


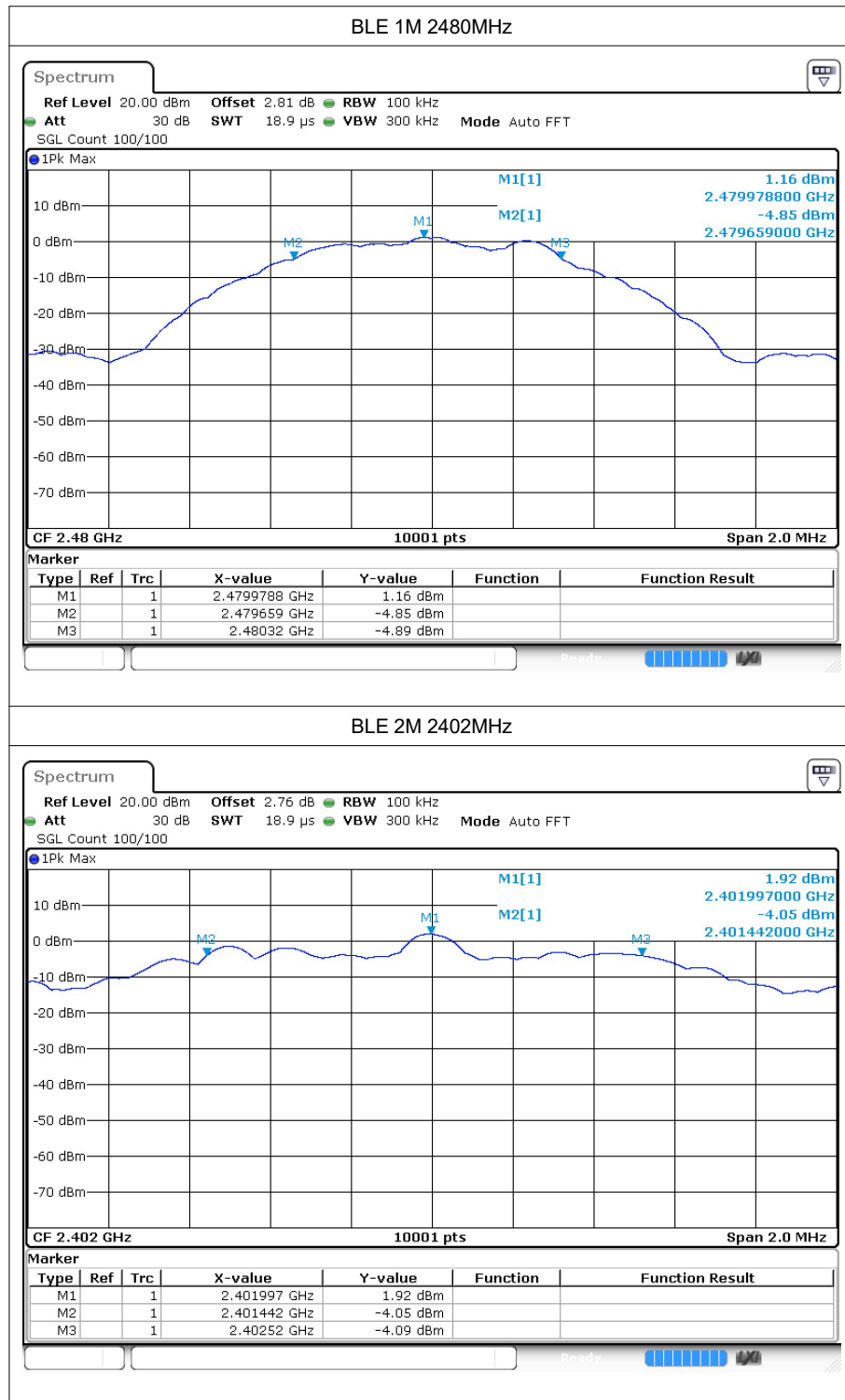
3 -6dB Bandwidth

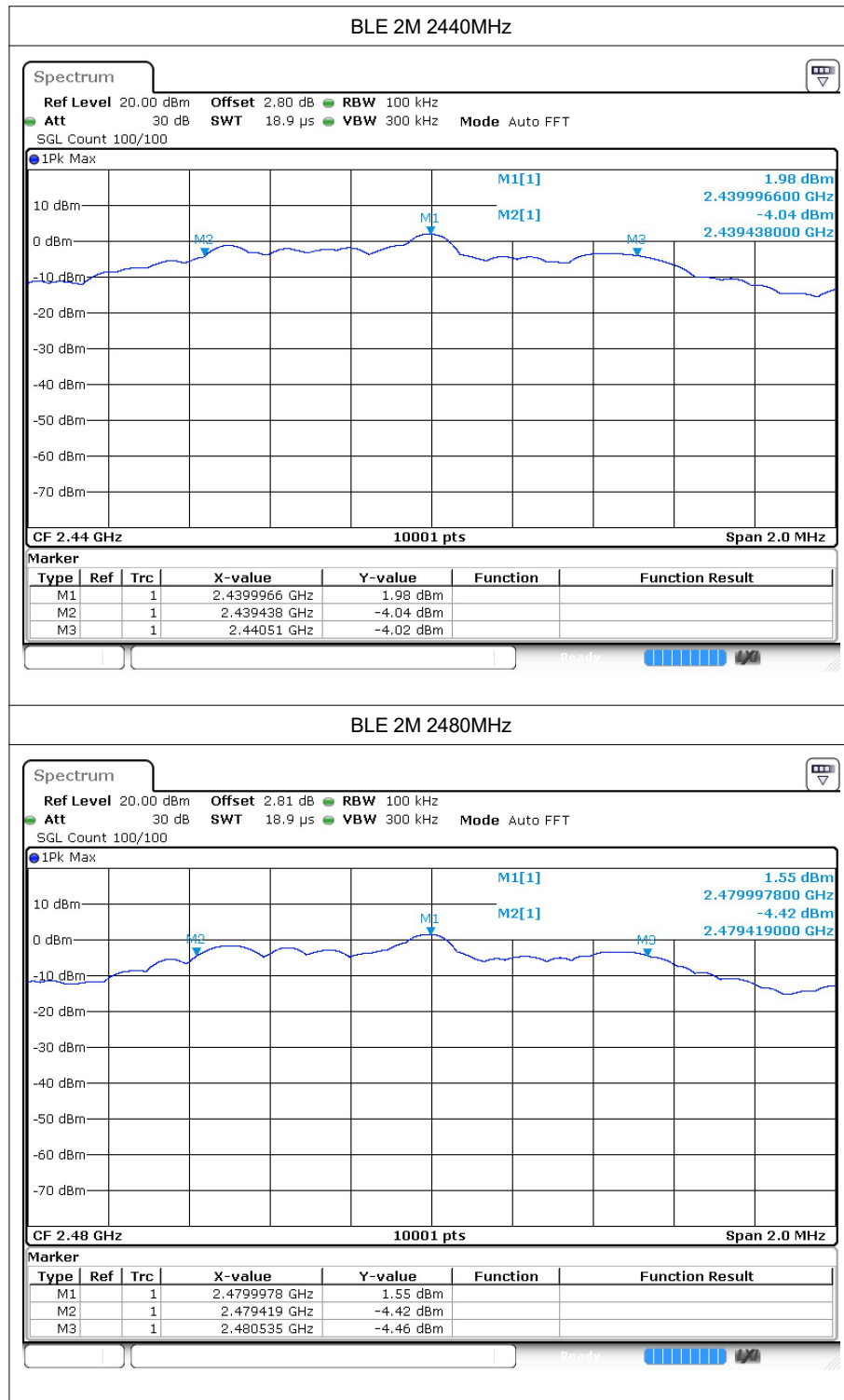
3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.646	0.5	Pass
BLE 1M	2440	0.638	0.5	Pass
BLE 1M	2480	0.661	0.5	Pass
BLE 2M	2402	1.078	0.5	Pass
BLE 2M	2440	1.071	0.5	Pass
BLE 2M	2480	1.116	0.5	Pass

3.2 Test Graphs





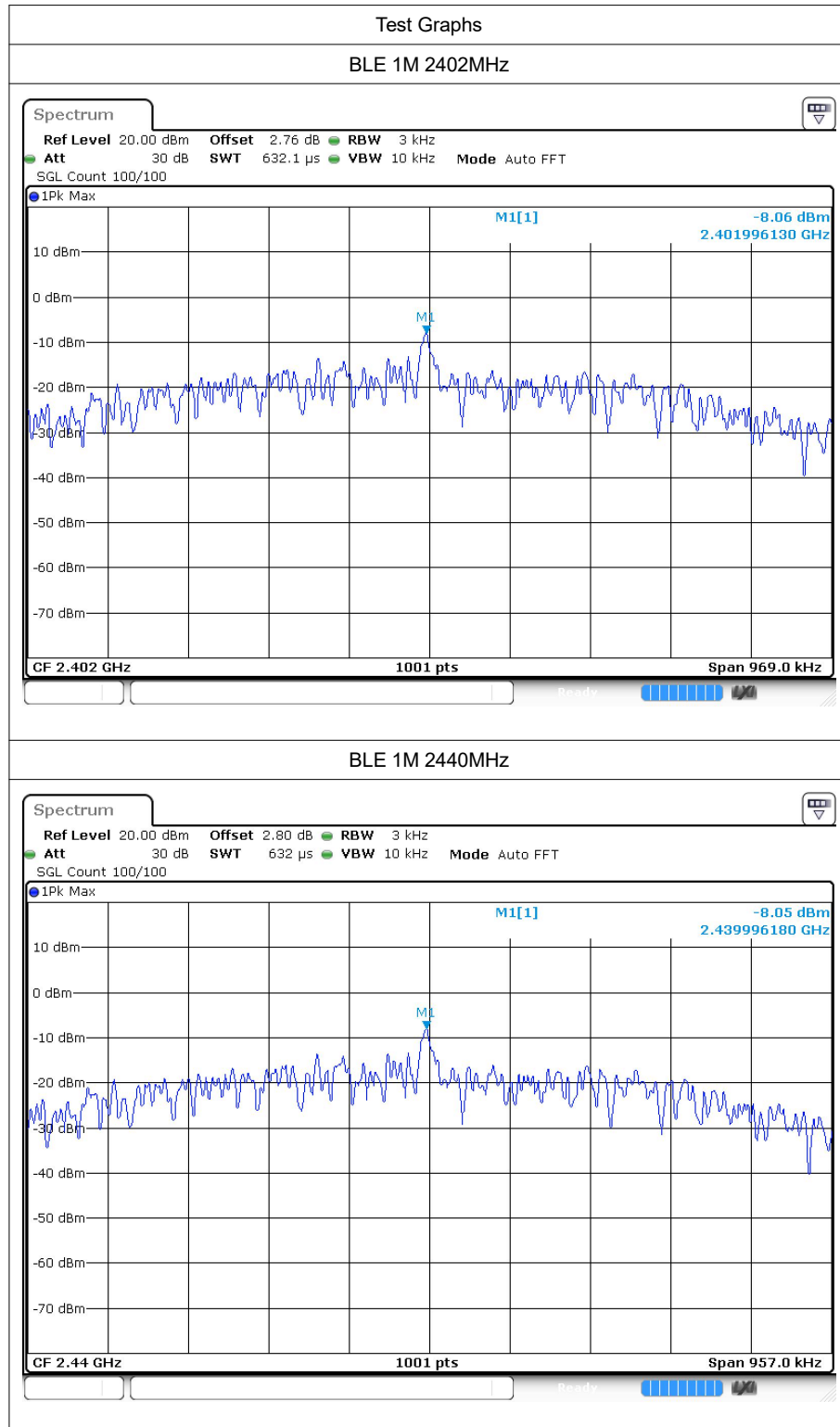


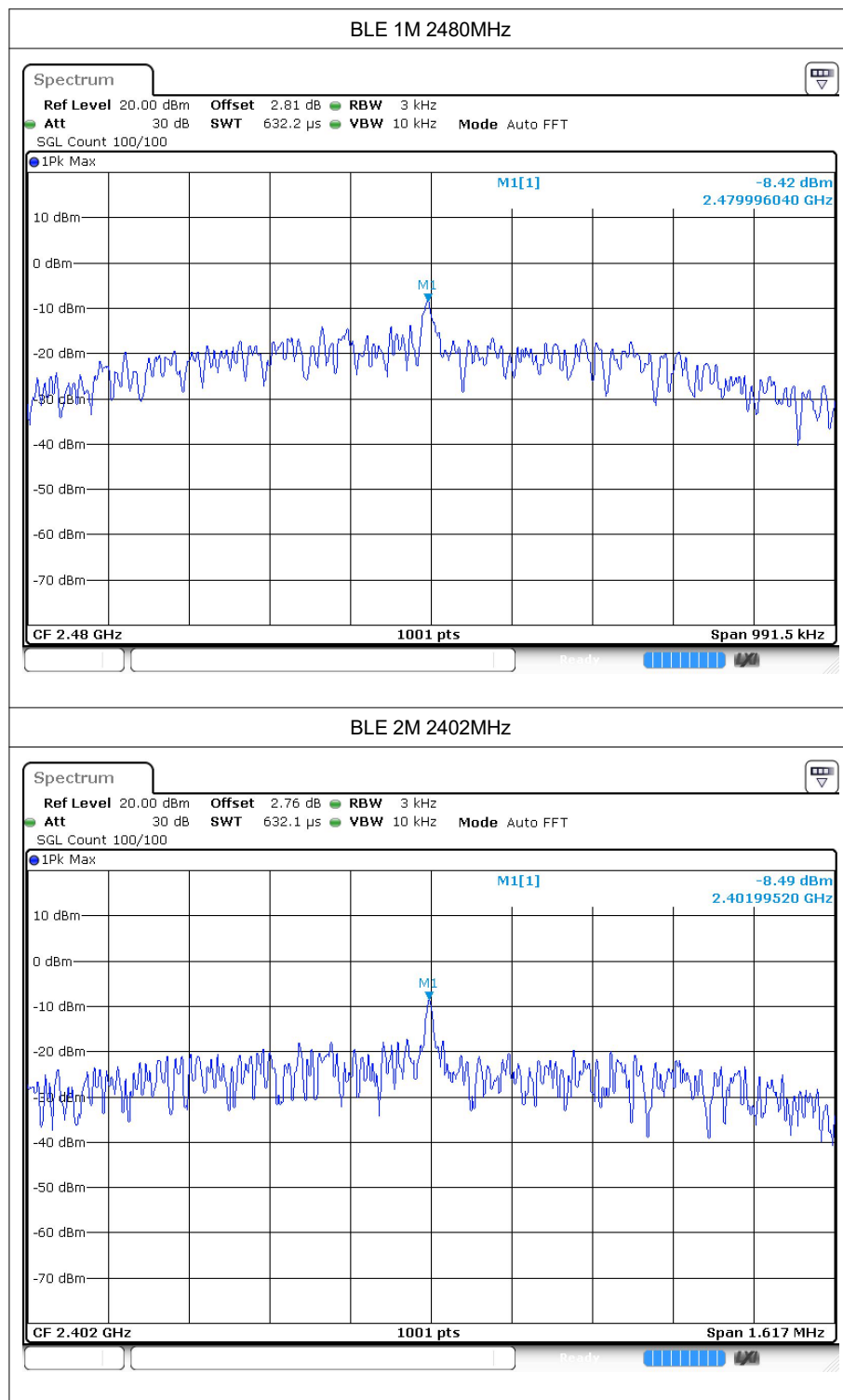
4 Maximum Power Spectral Density Level

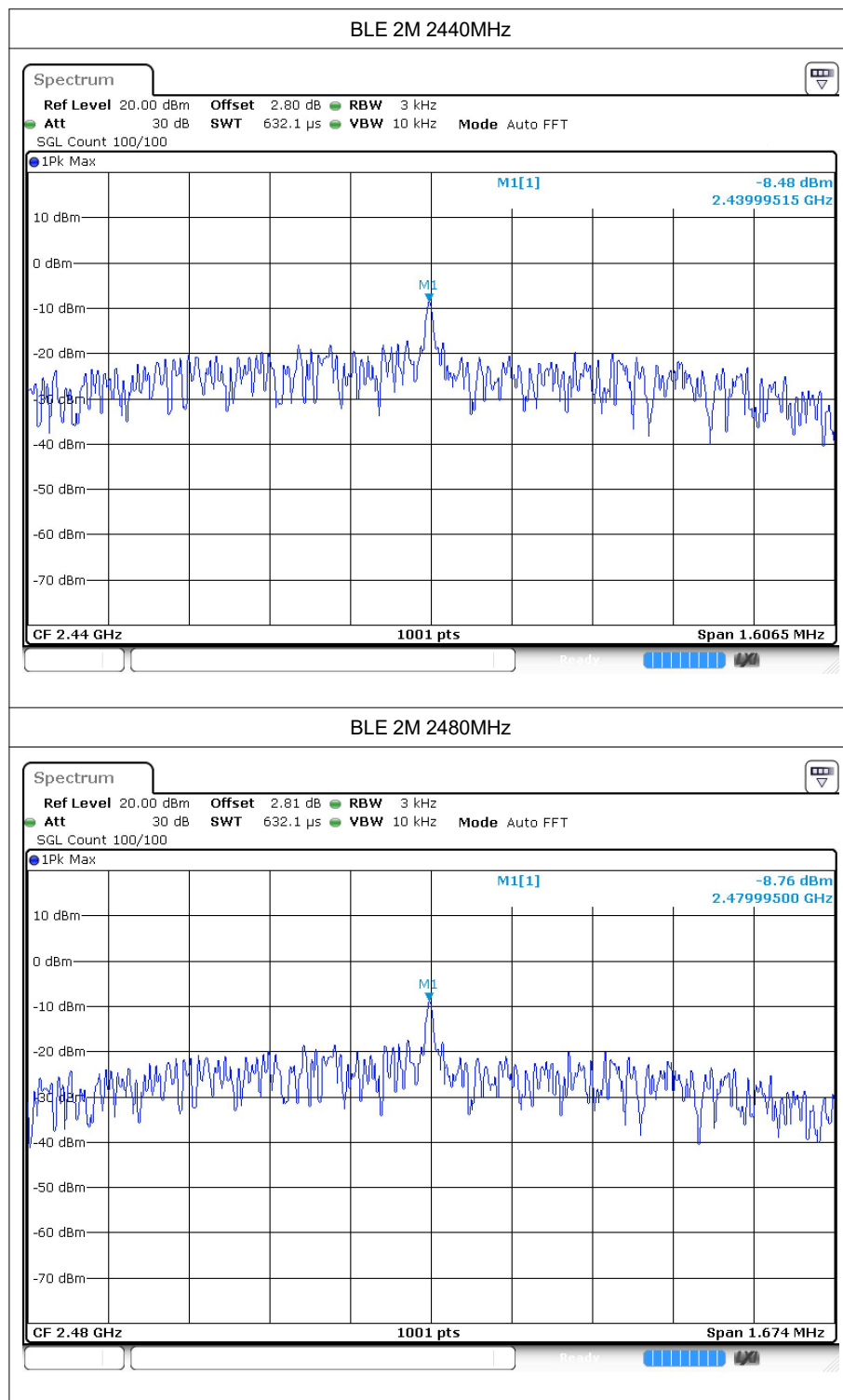
4.1 Test Result

Mode	Frequency (MHz)	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-8.06	≤ 8	Pass
BLE 1M	2440	-8.05	≤ 8	Pass
BLE 1M	2480	-8.42	≤ 8	Pass
BLE 2M	2402	-8.49	≤ 8	Pass
BLE 2M	2440	-8.48	≤ 8	Pass
BLE 2M	2480	-8.76	≤ 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	-57	-20	Pass
BLE 1M	2480	-47.29	-20	Pass
BLE 2M	2402	-55.98	-20	Pass
BLE 2M	2480	-51.52	-20	Pass

5.2 Test Graphs

