



## Appendix B

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

Product Name: Crazy Keyboard

Trade Mark: iWALK

Test Model: BCI003

#### Environmental Conditions

Temperature:	26.2° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



# Contents

	Page
<b>COVER PAGE</b>	
1 Duty Cycle .....	3
1.1 Test Result.....	3
1.2 Test Graphs.....	4
2 Maximum Conducted Output Power .....	6
2.1 Test Result.....	6
2.2 Test Graphs.....	7
3 -6dB Bandwidth .....	9
3.1 Test Result.....	9
3.2 Test Graphs.....	10
4 Maximum Power Spectral Density Level.....	12
4.1 Test Result.....	12
4.2 Test Graphs.....	13
5 Band Edge.....	15
5.1 Test Result.....	15
5.2 Test Graphs.....	16
6 Conducted RF Spurious Emission.....	18
6.1 Test Result.....	18
6.2 Test Graphs.....	19
7 Restrict Band.....	22
7.1 Test Result.....	22
7.2 Test Graphs.....	23

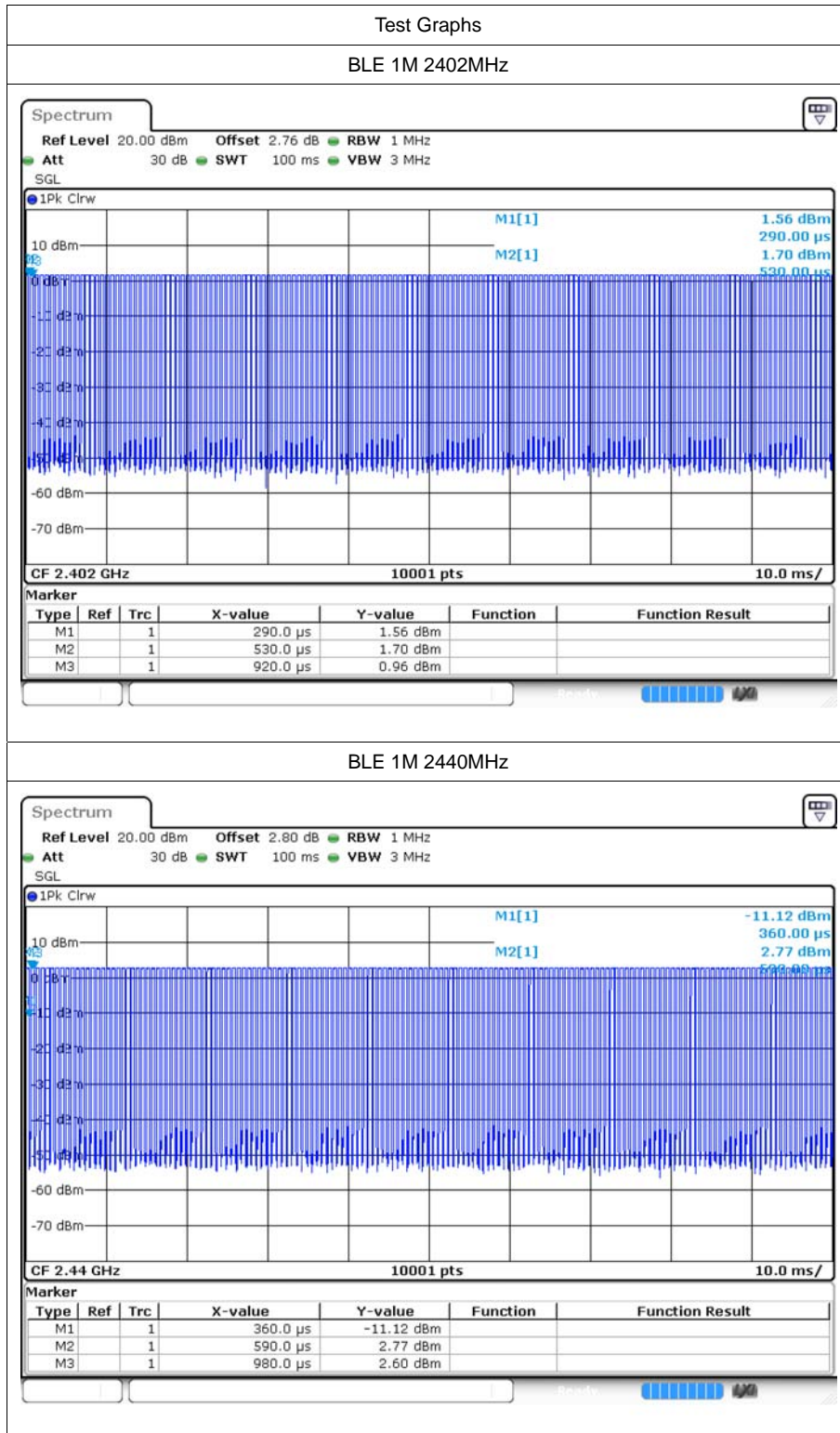


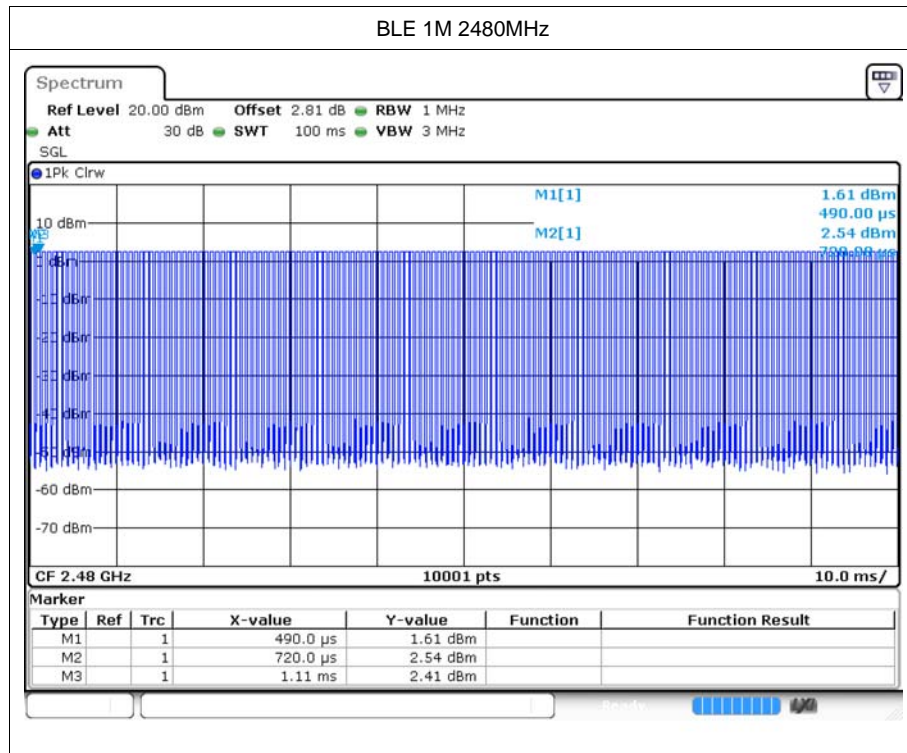
# 1 Duty Cycle

## 1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
BLE 1M	2402	64	2.56
BLE 1M	2440	64.8	2.56
BLE 1M	2480	63.99	2.56

## 1.2 Test Graphs







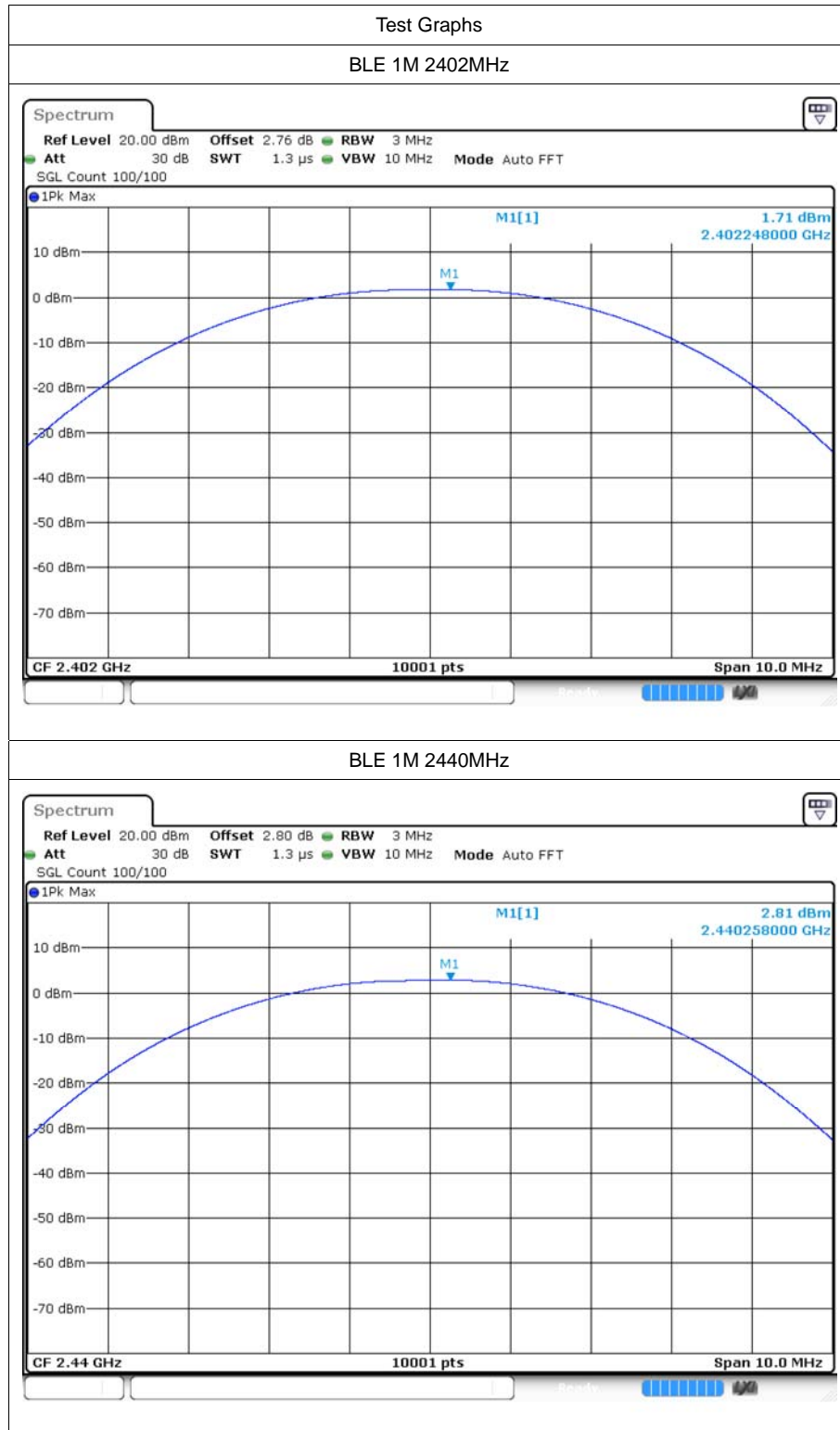
## 2 Maximum Conducted Output Power

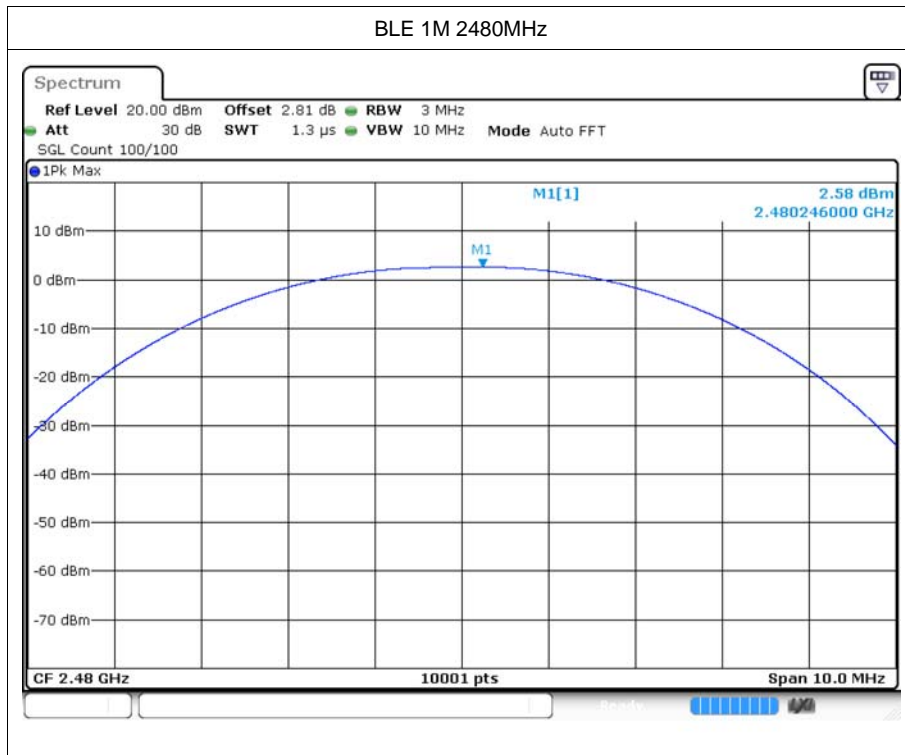
### 2.1 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	1.71	30	Pass
BLE 1M	2440	2.81	30	Pass
BLE 1M	2480	2.58	30	Pass



## 2.2 Test Graphs







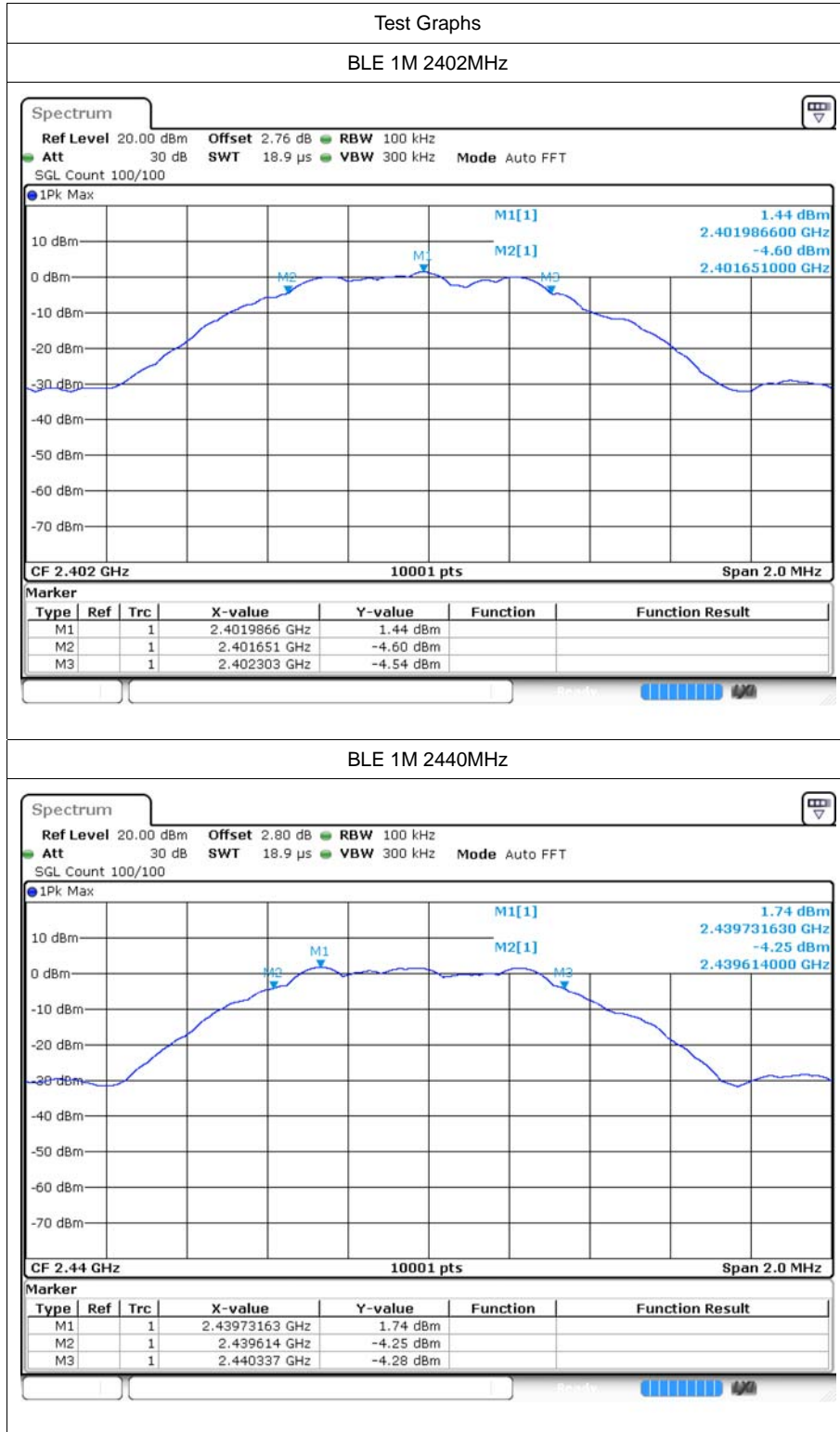


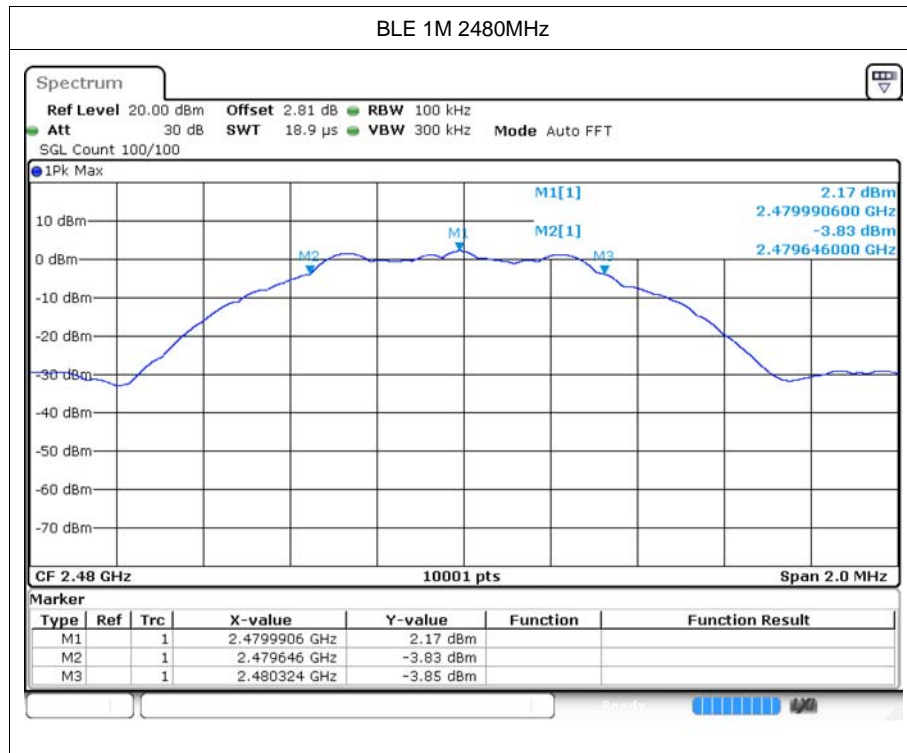
### 3 -6dB Bandwidth

#### 3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.652	0.5	Pass
BLE 1M	2440	0.723	0.5	Pass
BLE 1M	2480	0.678	0.5	Pass

### 3.2 Test Graphs





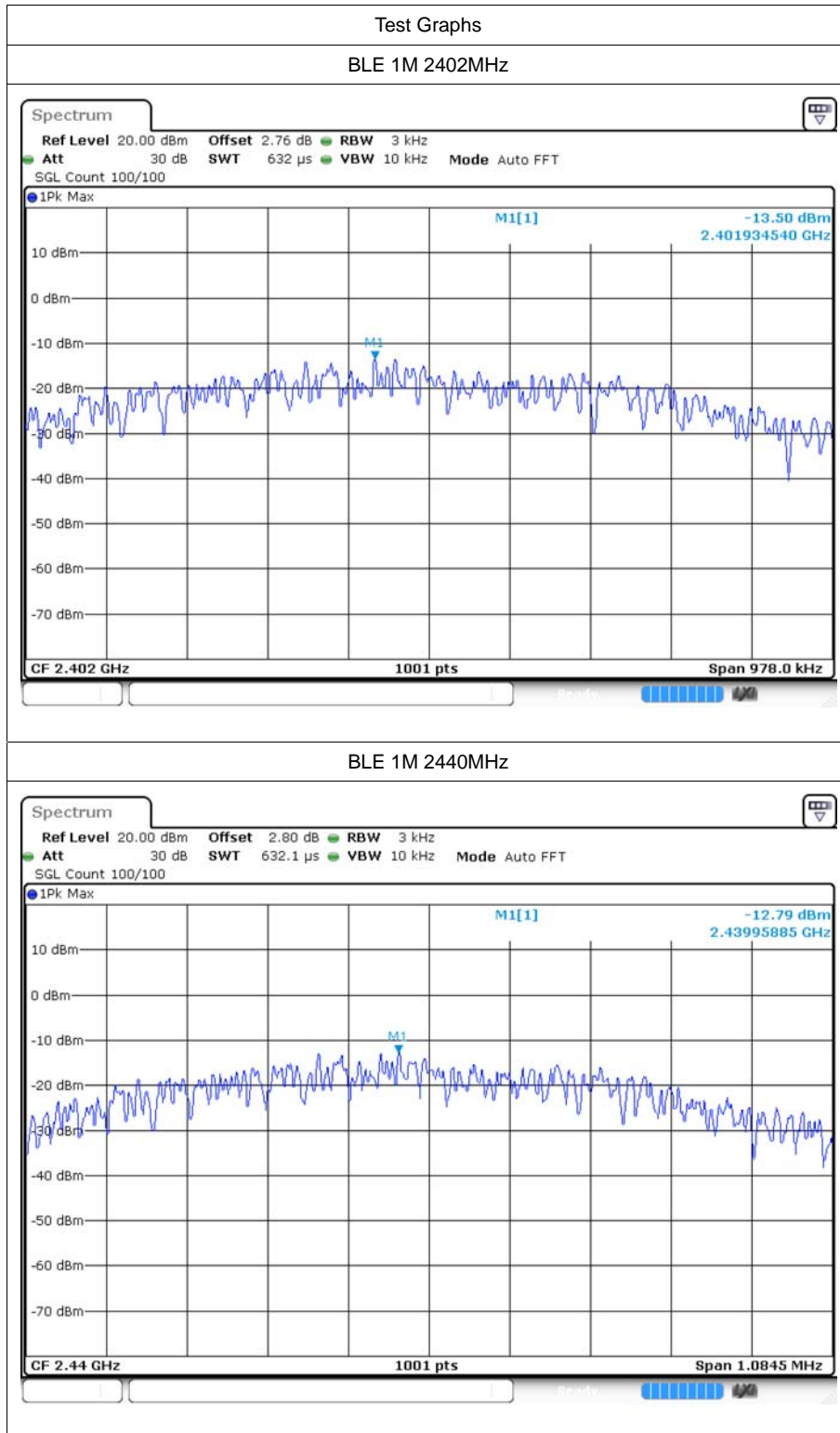


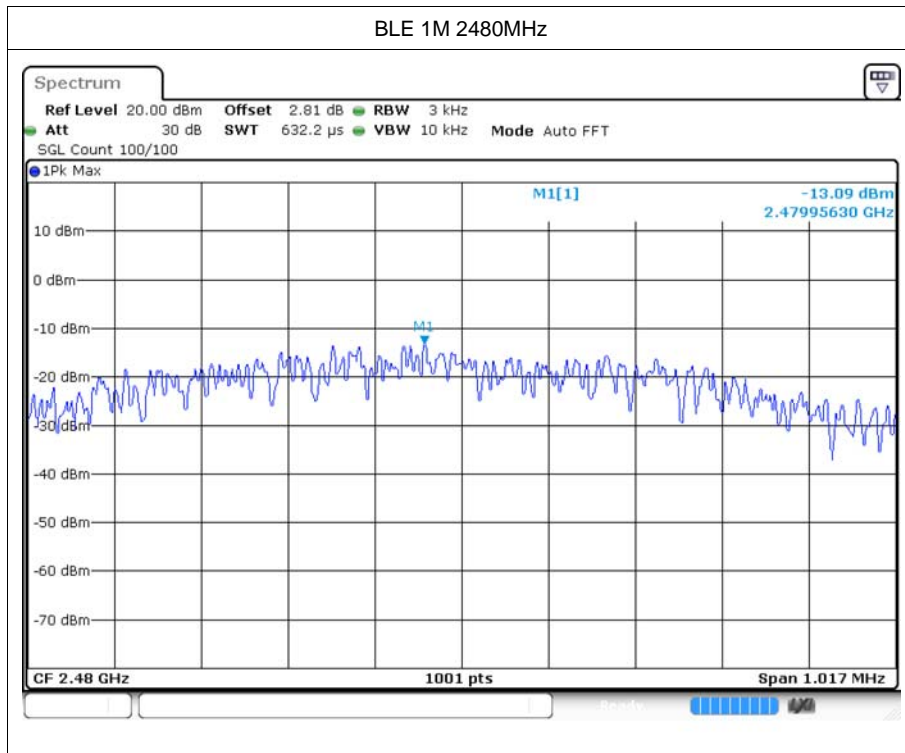
## 4 Maximum Power Spectral Density Level

### 4.1 Test Result

Mode	Frequency (MHz)	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-13.5	≤8	Pass
BLE 1M	2440	-12.79	≤8	Pass
BLE 1M	2480	-13.09	≤8	Pass

## 4.2 Test Graphs





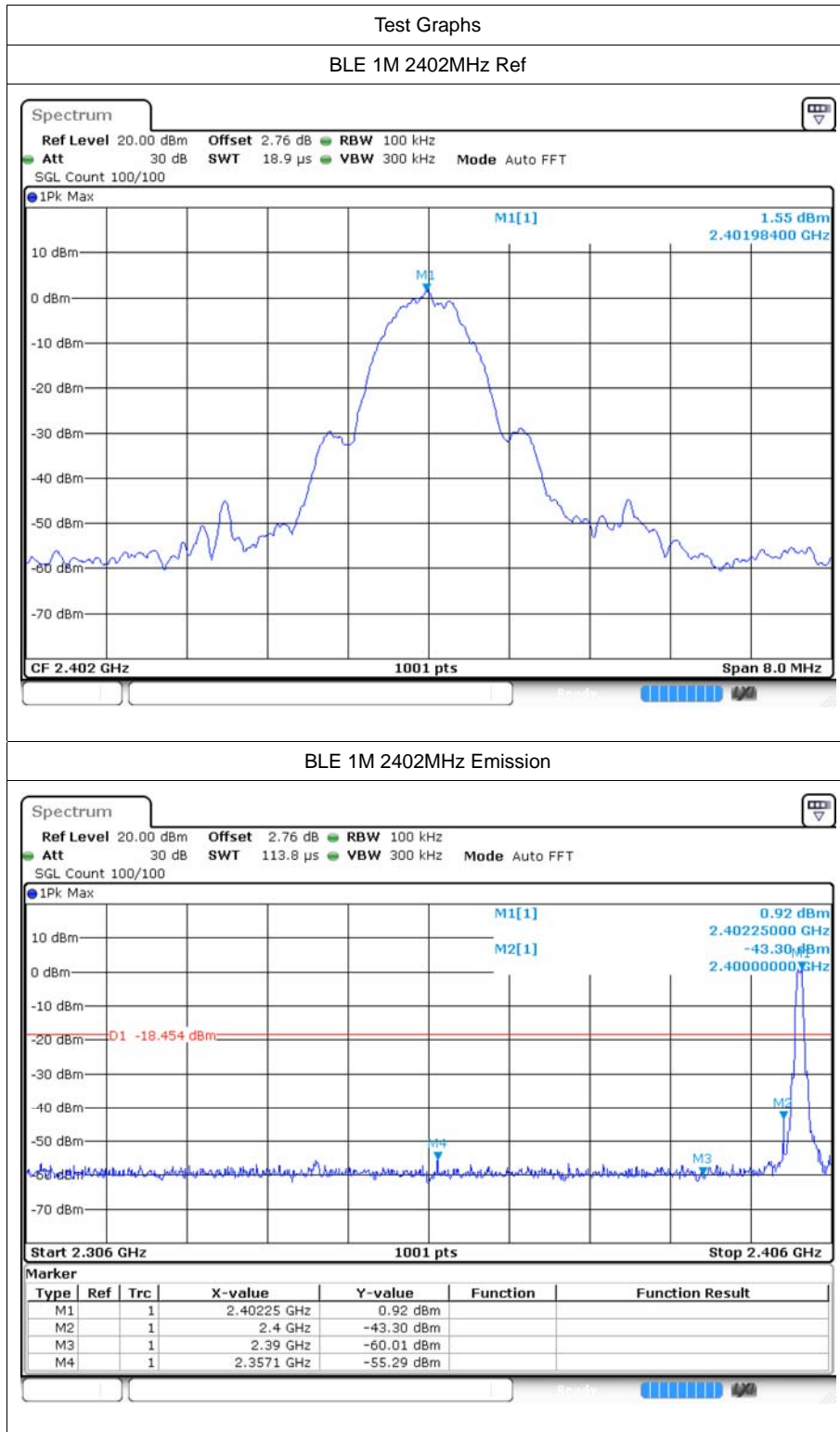


## 5 Band Edge

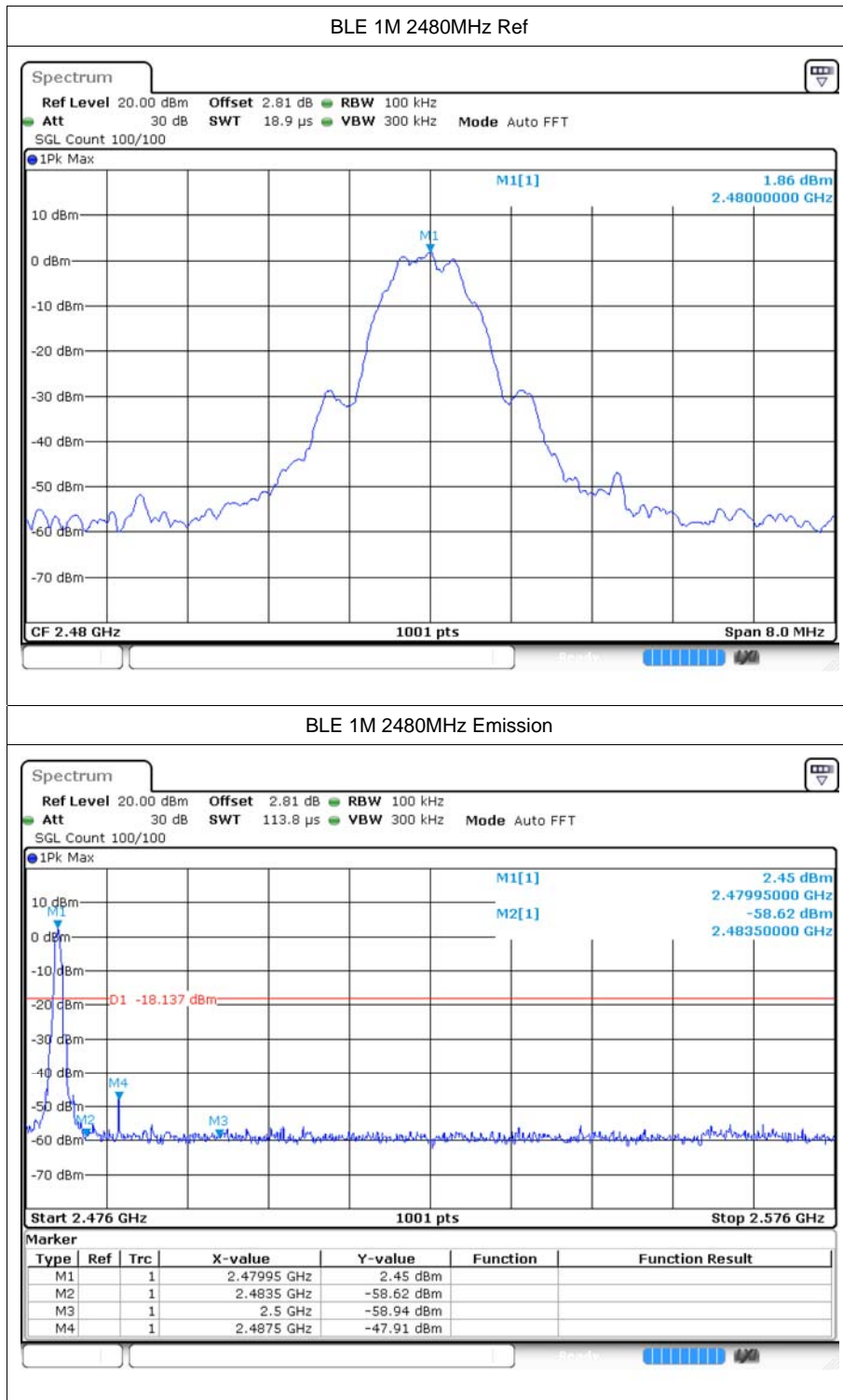
### 5.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-56.83	-20	Pass
BLE 1M	2480	-49.77	-20	Pass

## 5.2 Test Graphs







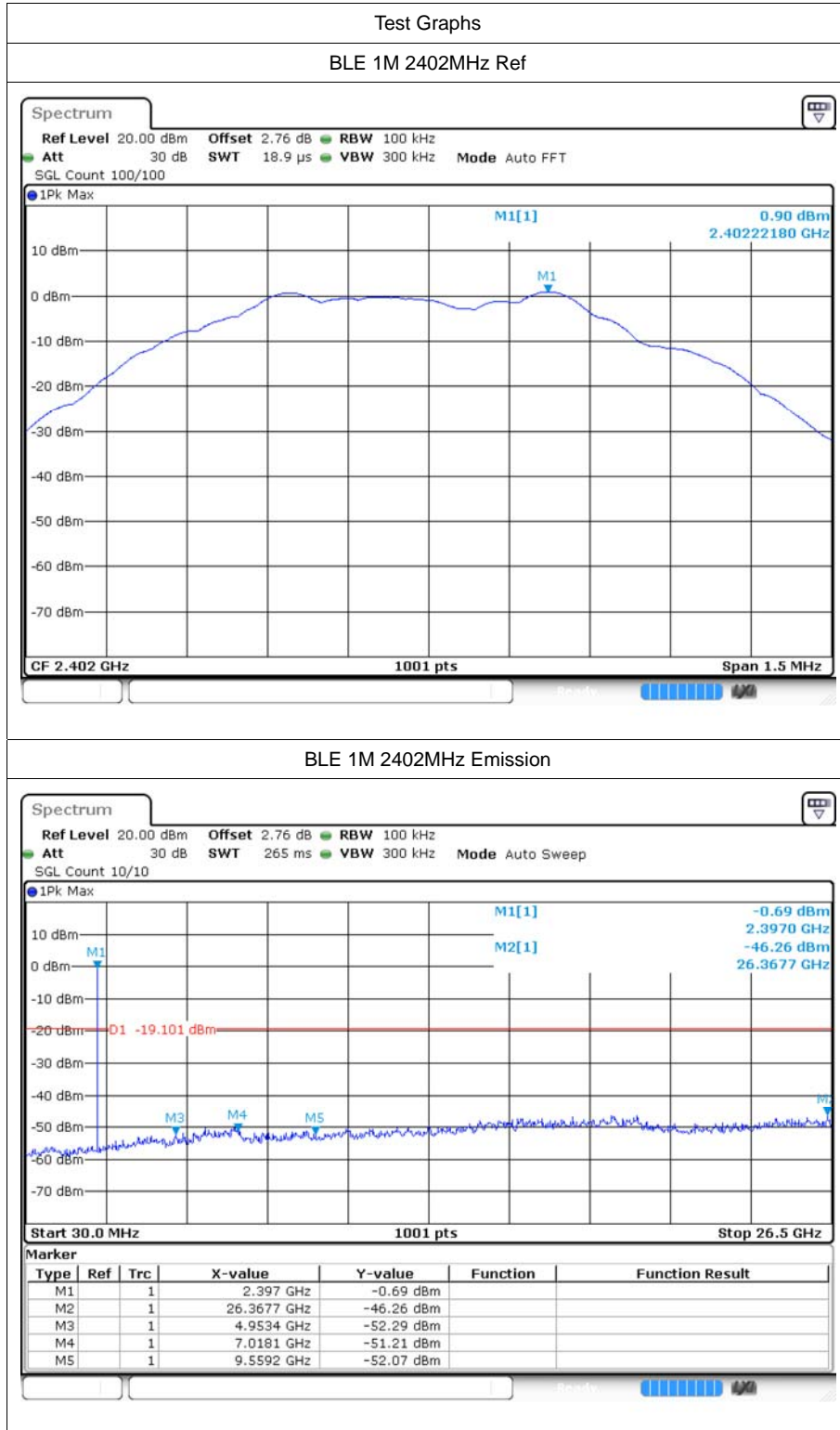


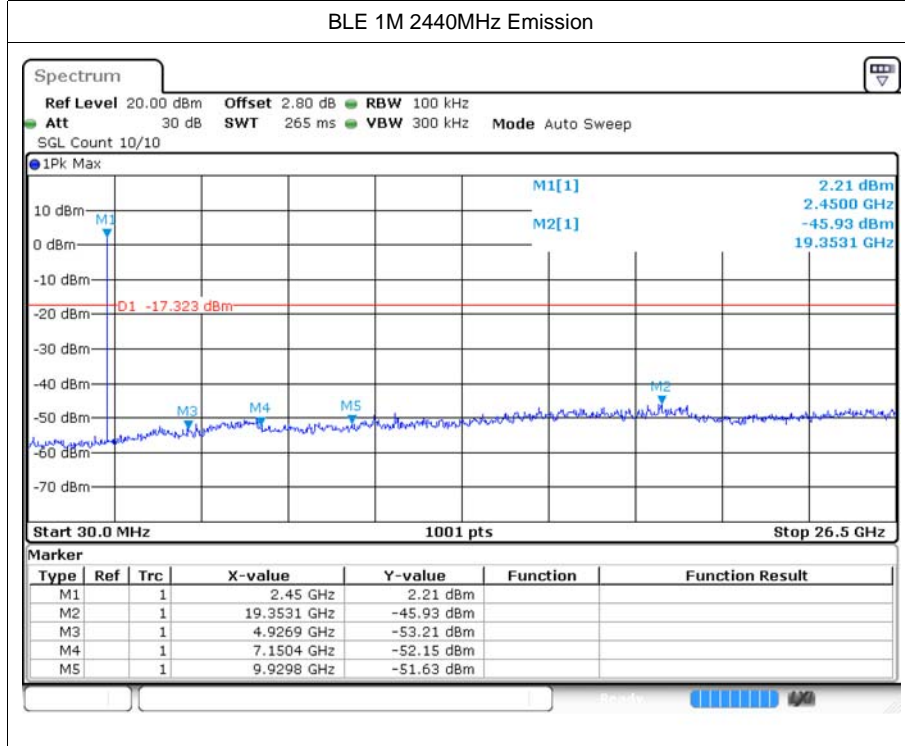
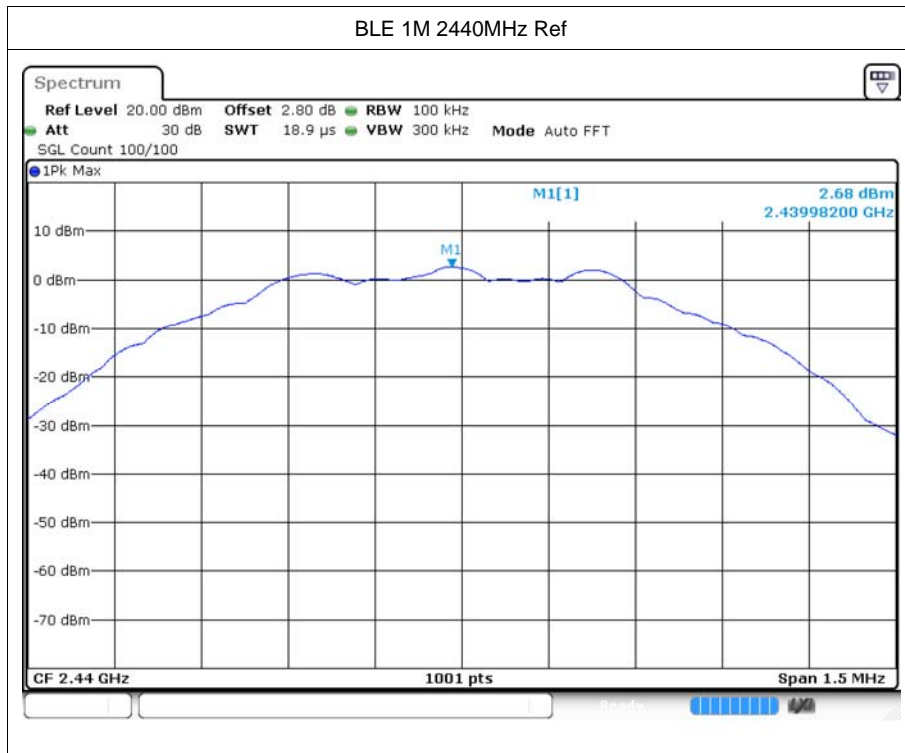
## 6 Conducted RF Spurious Emission

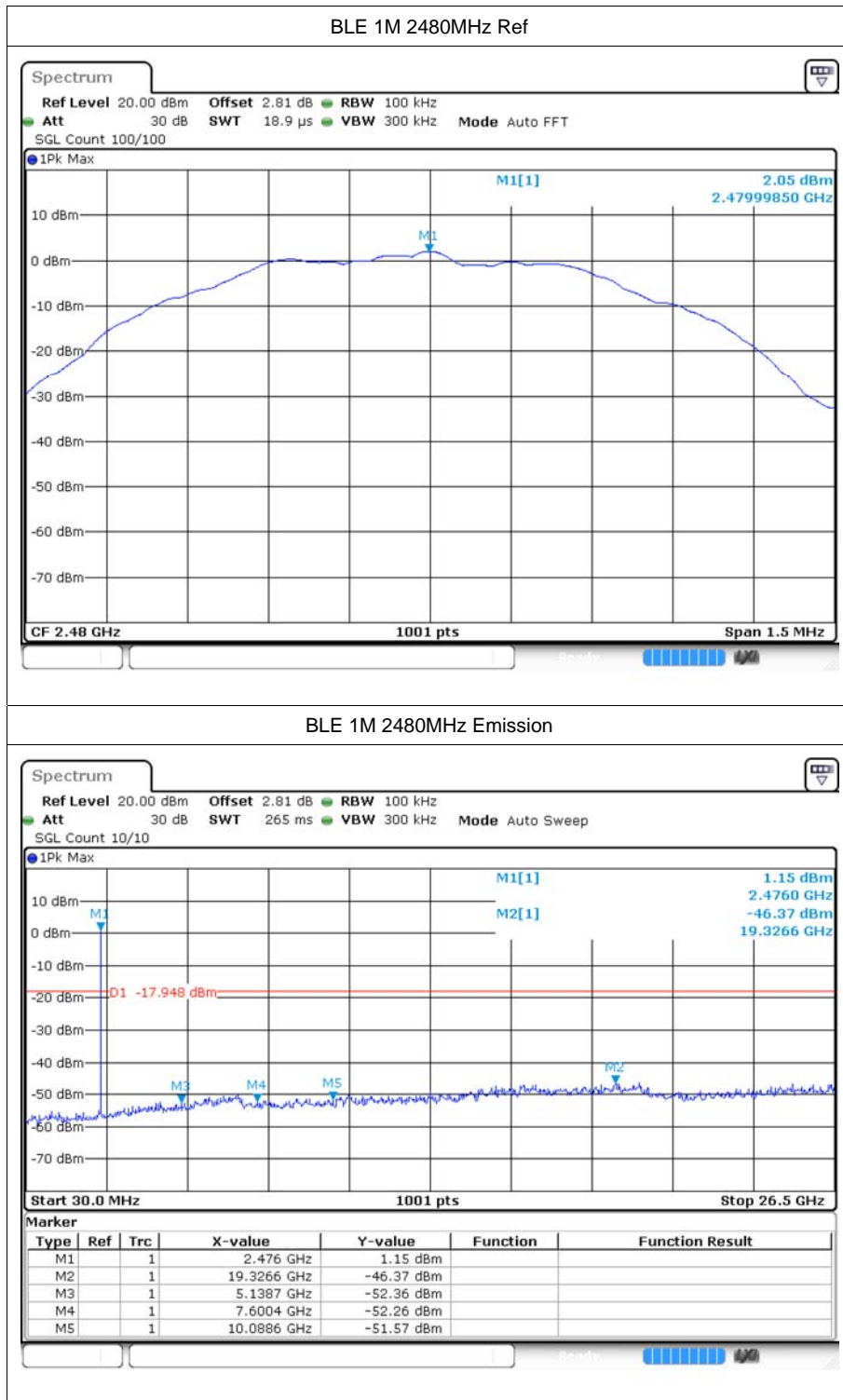
### 6.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-47.15	-20	Pass
BLE 1M	2440	-48.6	-20	Pass
BLE 1M	2480	-48.41	-20	Pass

## 6.2 Test Graphs







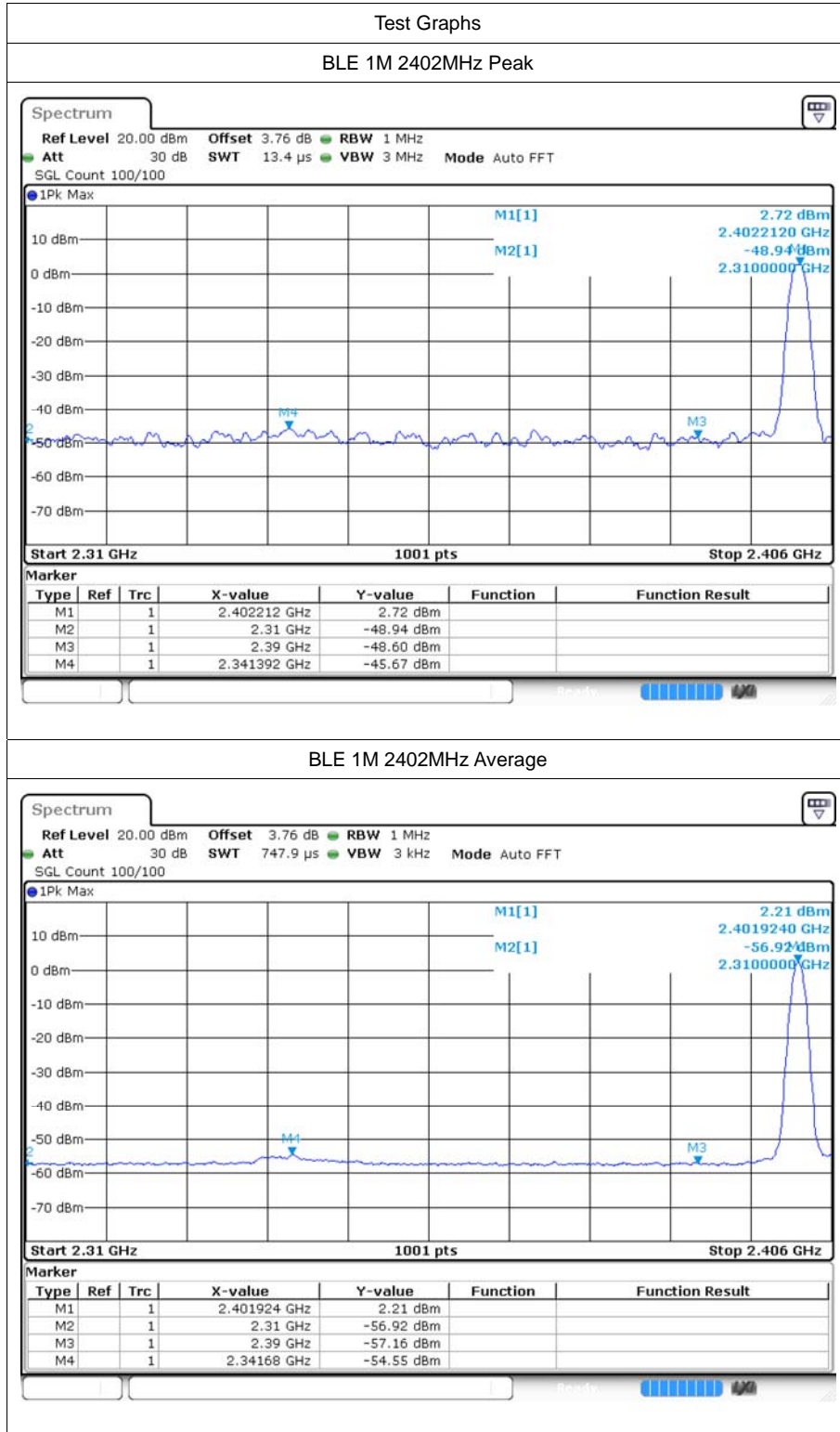


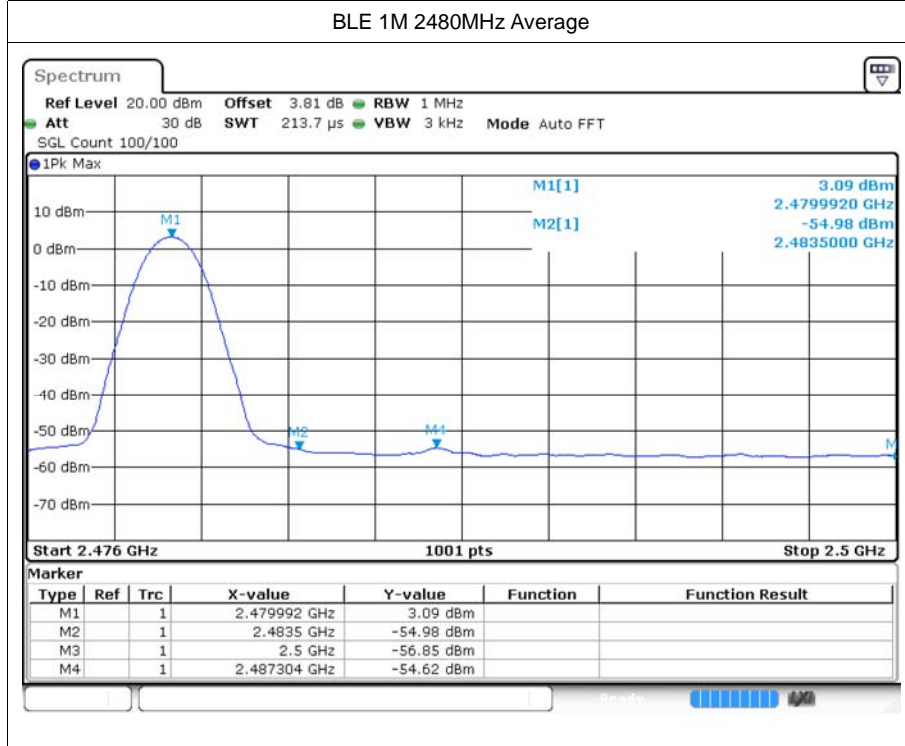
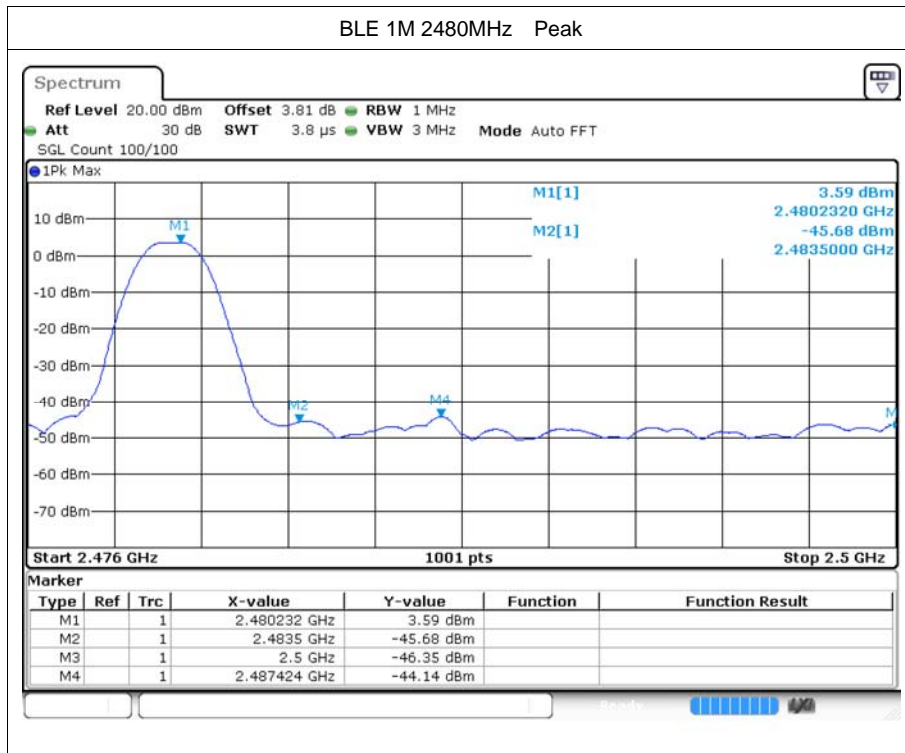
## 7 Restrict Band

### 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	-48.94	2	48.32	Peak	74	Pass
BLE 1M	2402	2310	-56.92	2	40.34	Average	54	Pass
BLE 1M	2402	2341.392	-45.66	2	51.6	Peak	74	Pass
BLE 1M	2402	2341.68	-54.55	2	42.71	Average	54	Pass
BLE 1M	2402	2390	-48.6	2	48.66	Peak	74	Pass
BLE 1M	2402	2390	-57.16	2	40.1	Average	54	Pass
BLE 1M	2480	2483.5	-45.62	2	51.64	Peak	74	Pass
BLE 1M	2480	2483.5	-55.03	2	42.23	Average	54	Pass
BLE 1M	2480	2487.424	-44.14	2	53.12	Peak	74	Pass
BLE 1M	2480	2487.304	-54.61	2	42.65	Average	54	Pass
BLE 1M	2480	2500	-46.35	2	50.91	Peak	74	Pass
BLE 1M	2480	2500	-56.85	2	40.41	Average	54	Pass

## 7.2 Test Graphs





---The End---