



## Appendix B

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

Product Name: Spirometer

Trade Mark: N/A

Test Model: Air Smart TT-Y

Environmental Conditions

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



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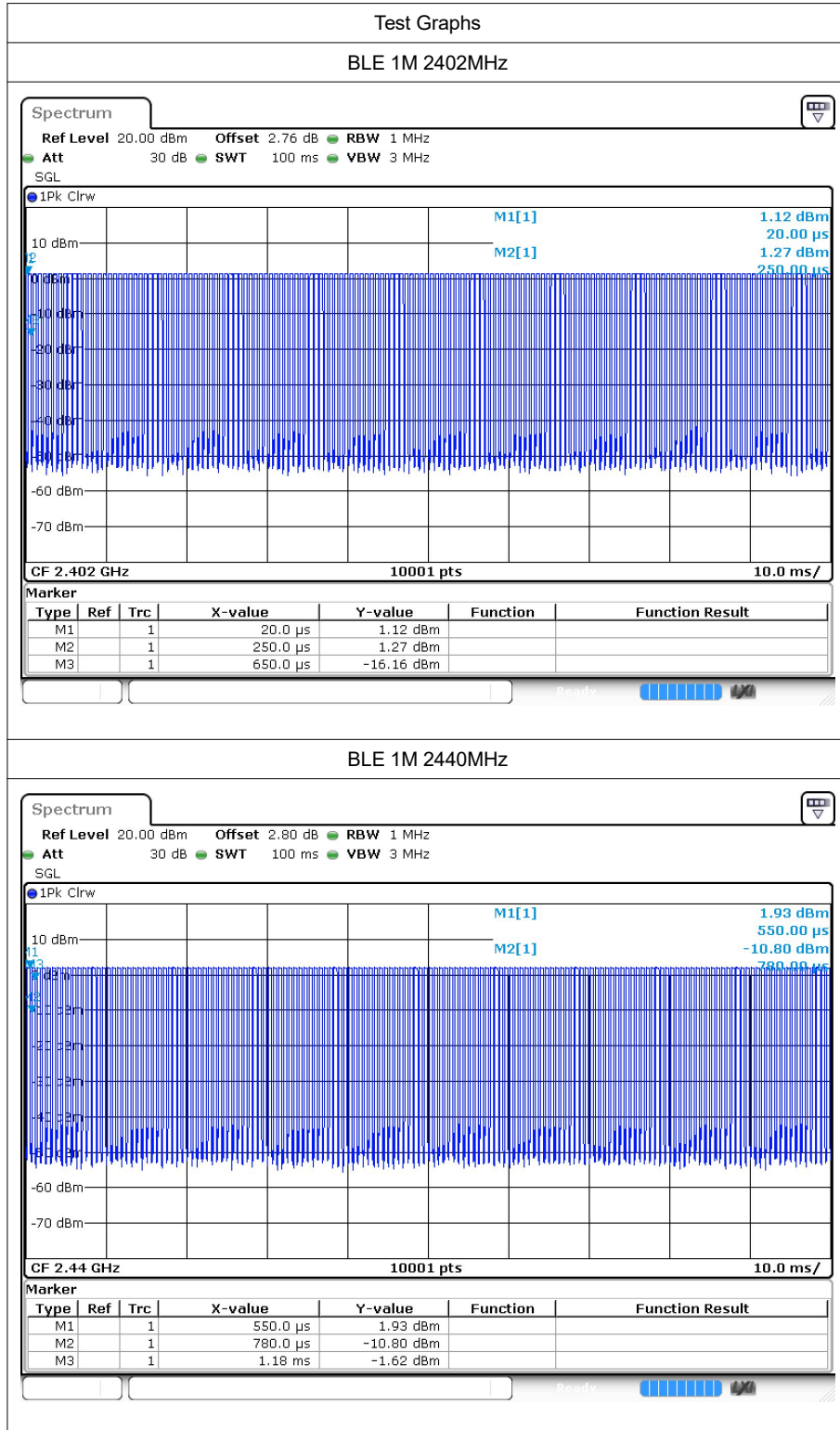


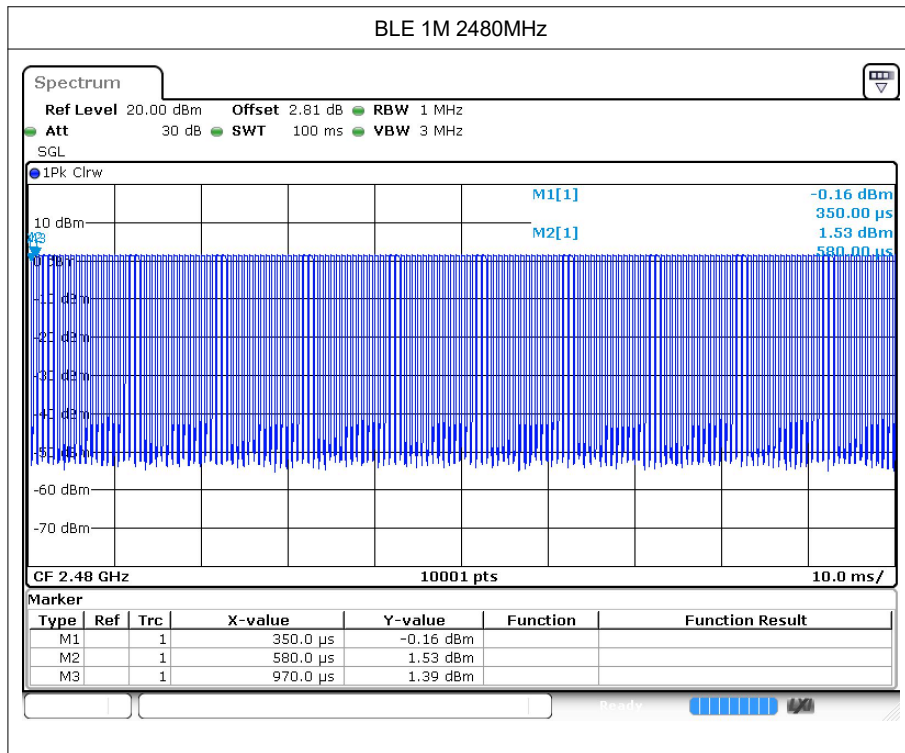
# 1 Duty Cycle

## 1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
BLE 1M	2402	64.8	2.5
BLE 1M	2440	64.22	2.5
BLE 1M	2480	64	2.56

## 1.2 Test Graphs





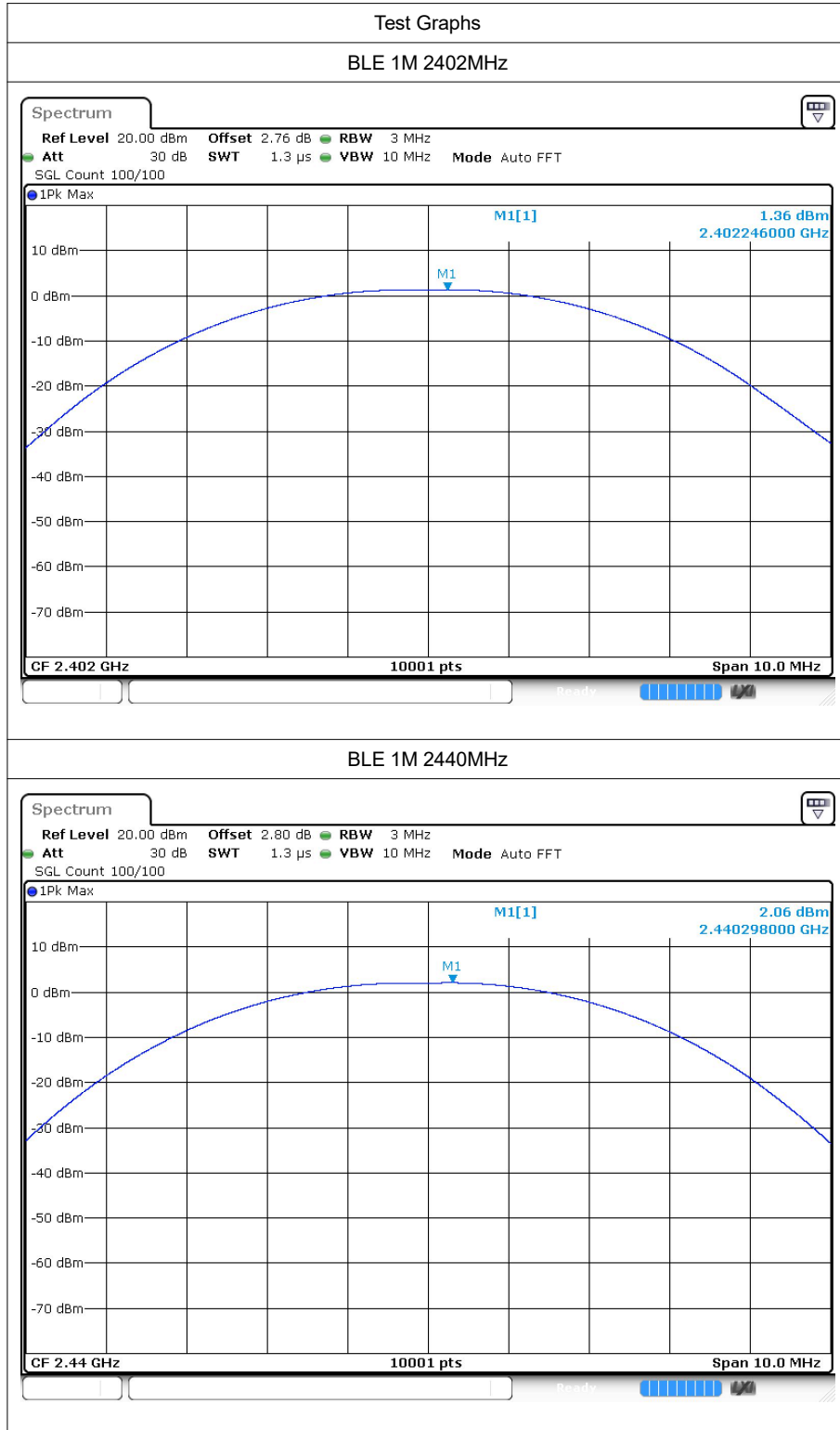


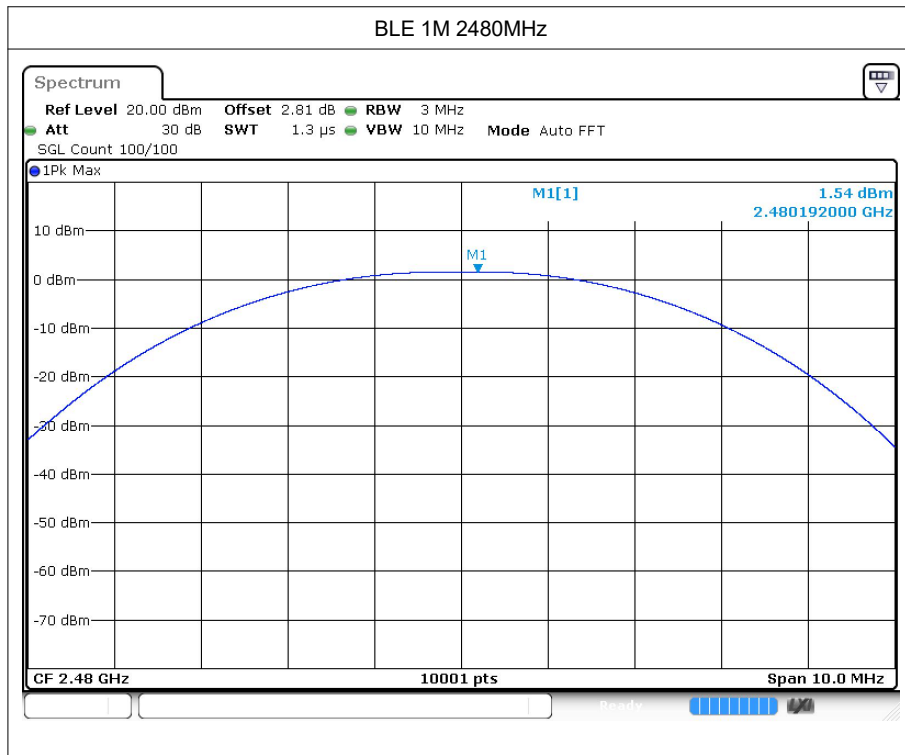
## 2 Maximum Conducted Output Power

### 2.1 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	1.36	30	Pass
BLE 1M	2440	2.06	30	Pass
BLE 1M	2480	1.54	30	Pass

## 2.2 Test Graphs







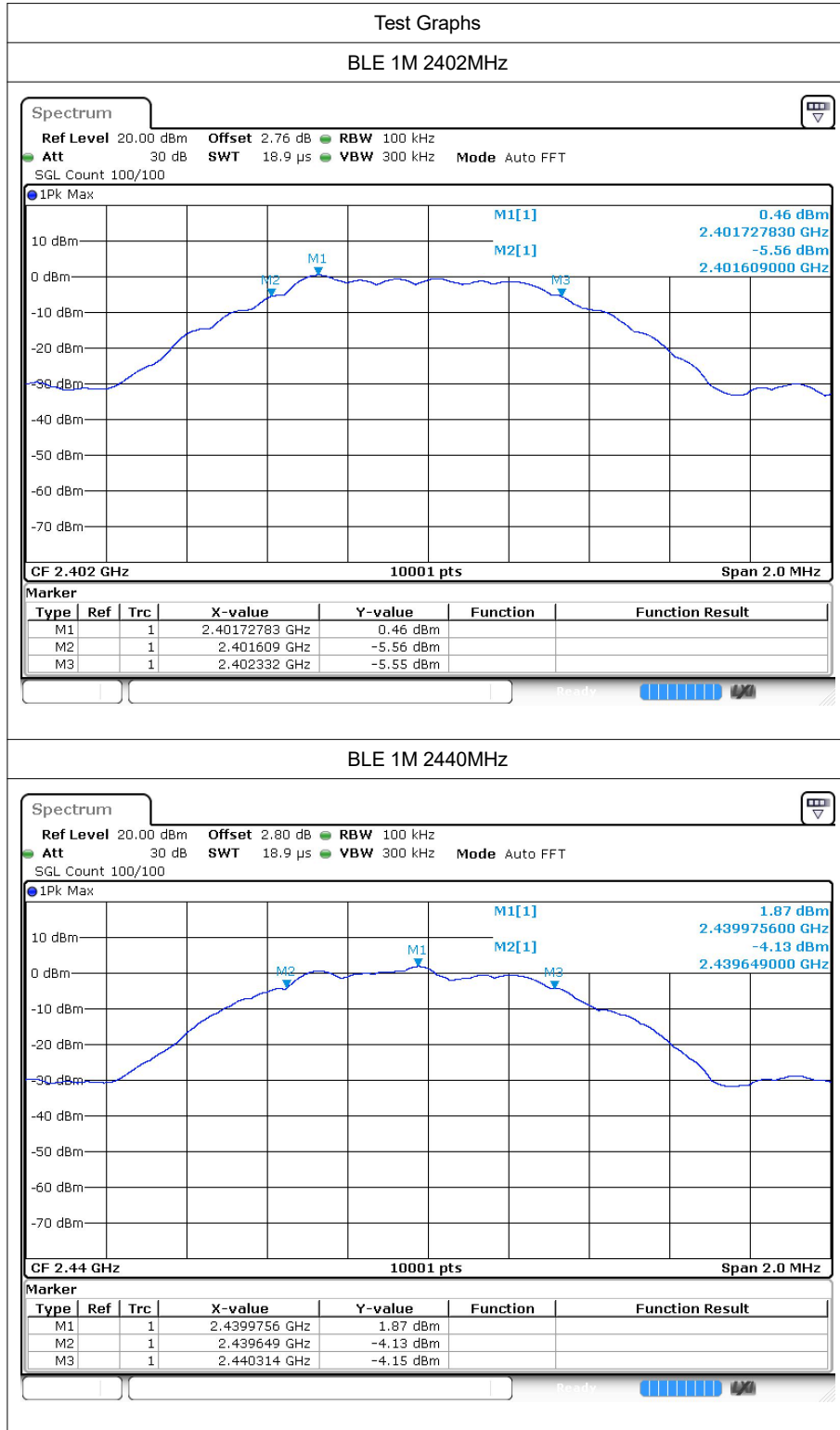


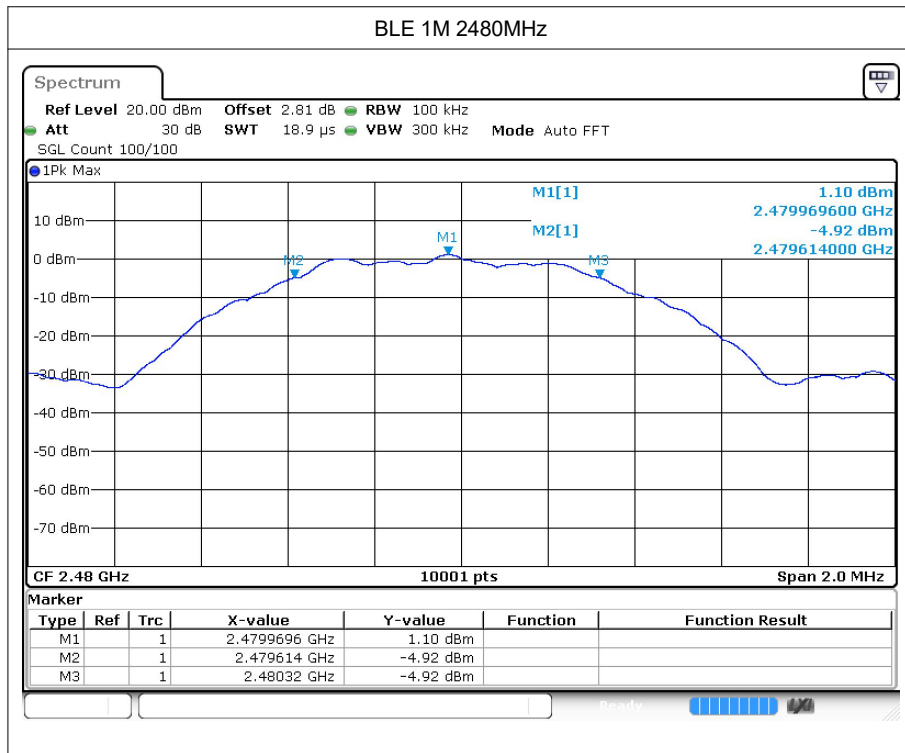
### 3 -6dB Bandwidth

#### 3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.723	0.5	Pass
BLE 1M	2440	0.665	0.5	Pass
BLE 1M	2480	0.705	0.5	Pass

### 3.2 Test Graphs





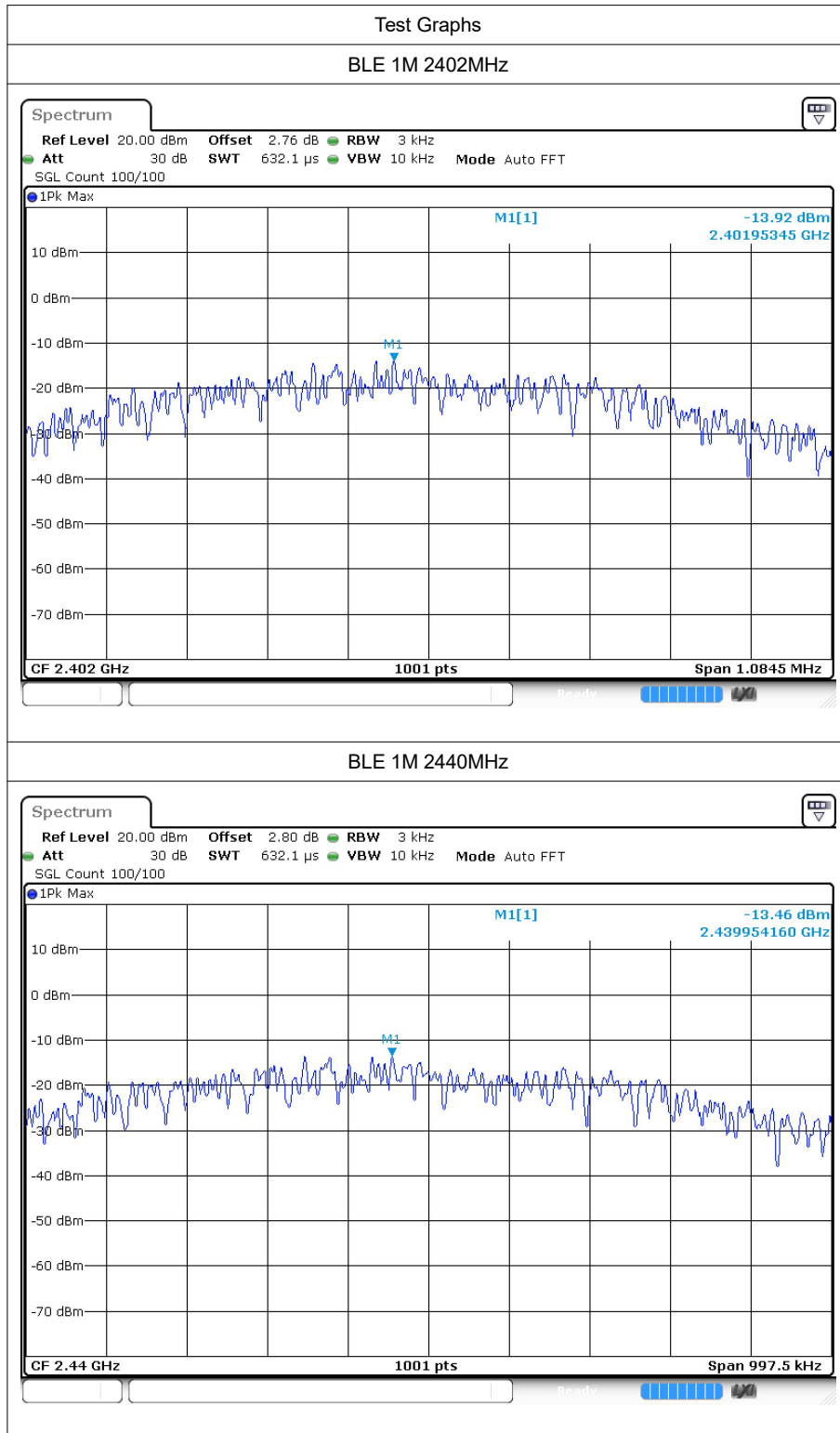


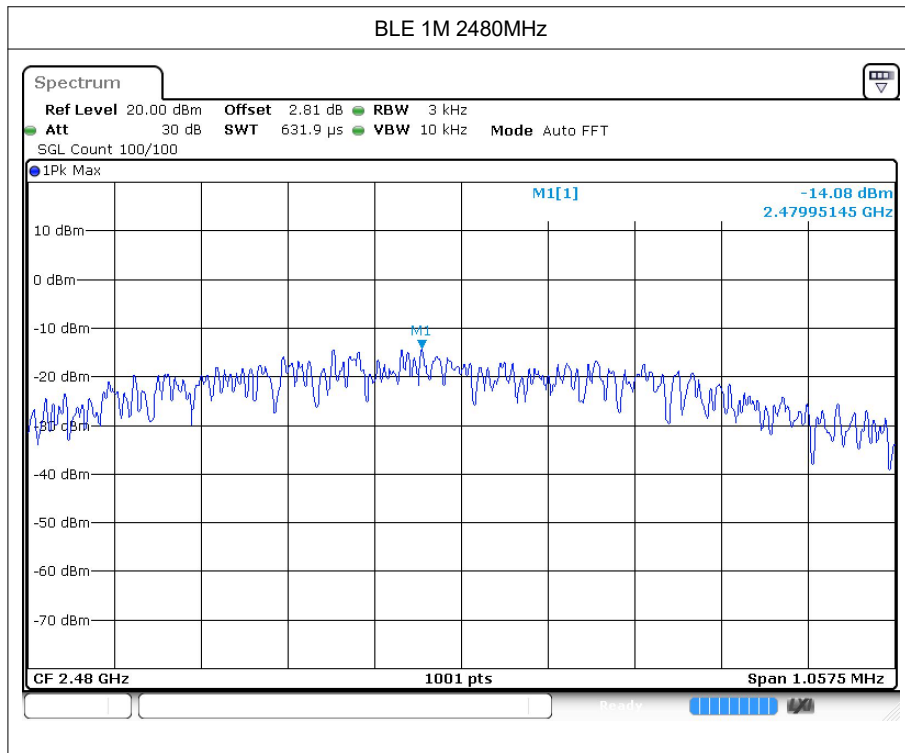
## 4 Maximum Power Spectral Density Level

### 4.1 Test Result

Mode	Frequency (MHz)	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-13.92	≤8	Pass
BLE 1M	2440	-13.46	≤8	Pass
BLE 1M	2480	-14.08	≤8	Pass

## 4.2 Test Graphs





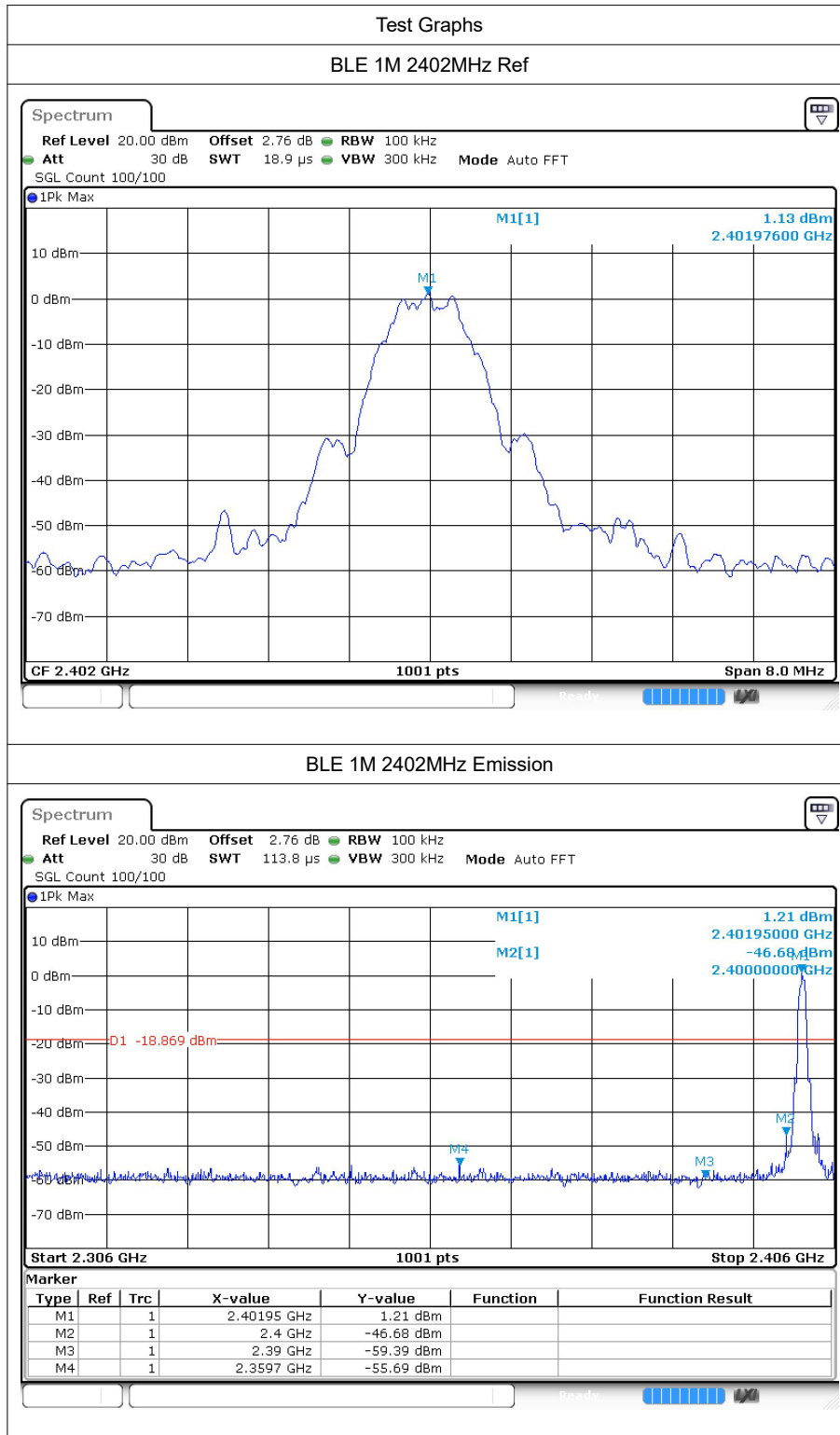


## 5 Band Edge

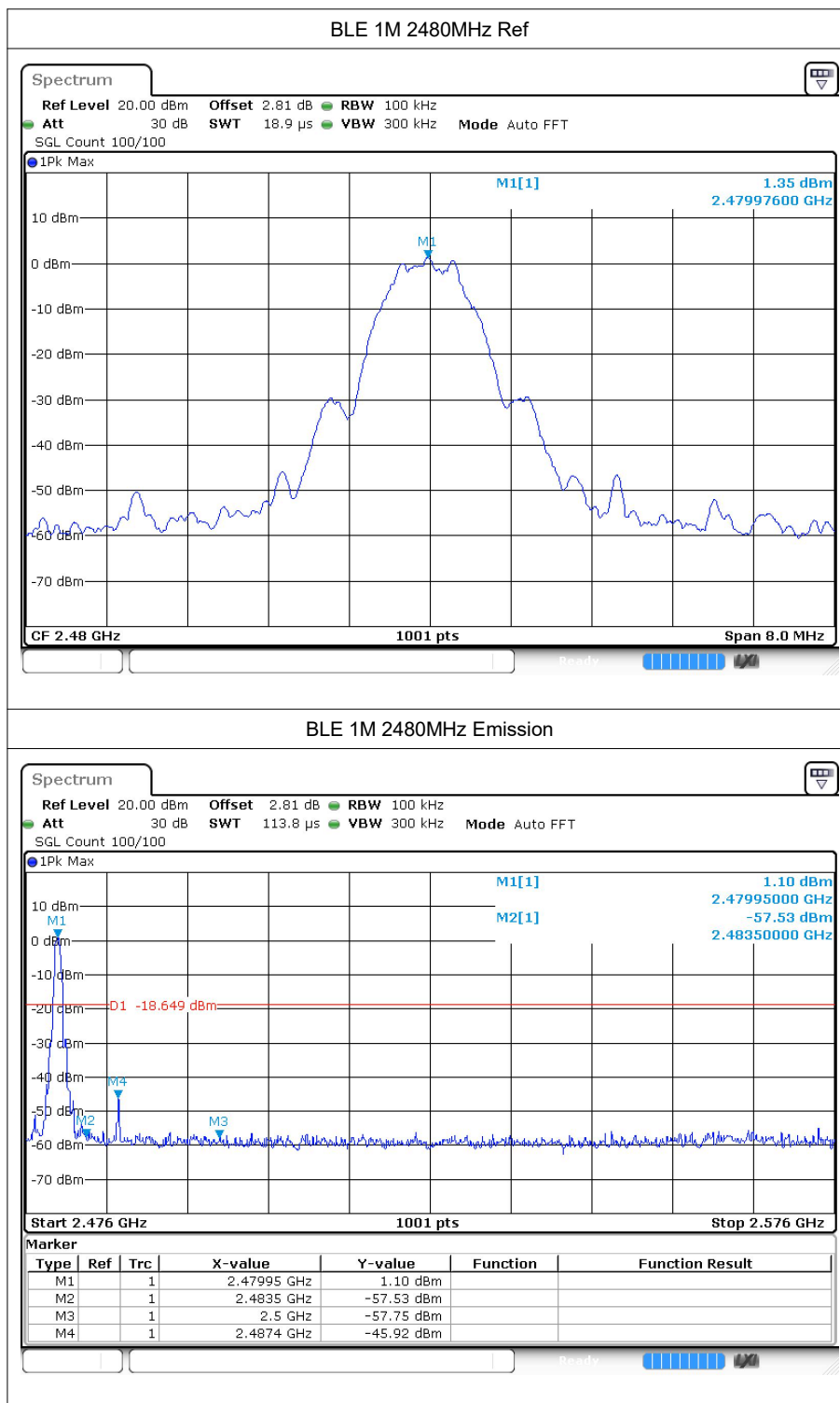
### 5.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-56.82	-20	Pass
BLE 1M	2480	-47.26	-20	Pass

## 5.2 Test Graphs







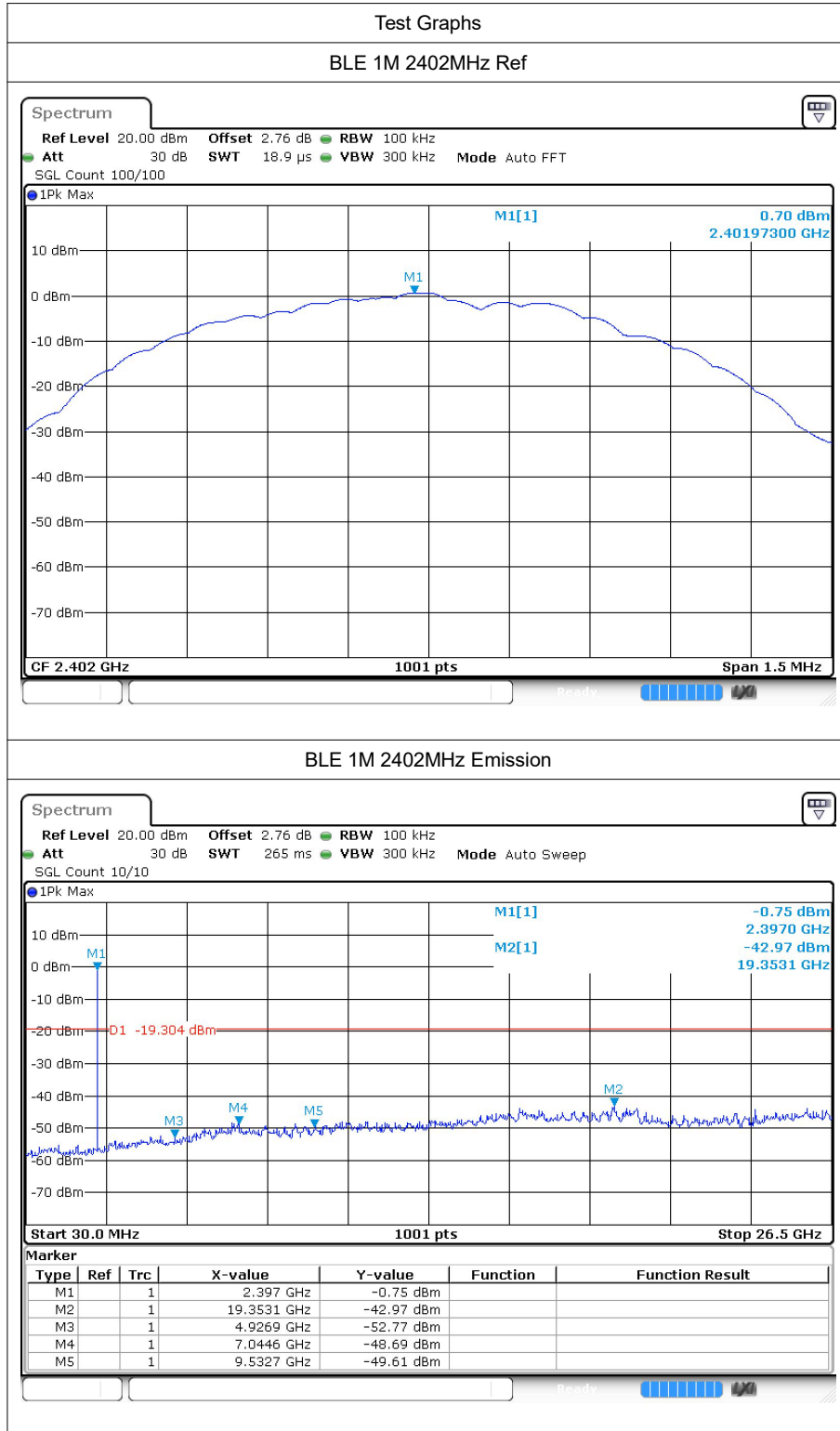


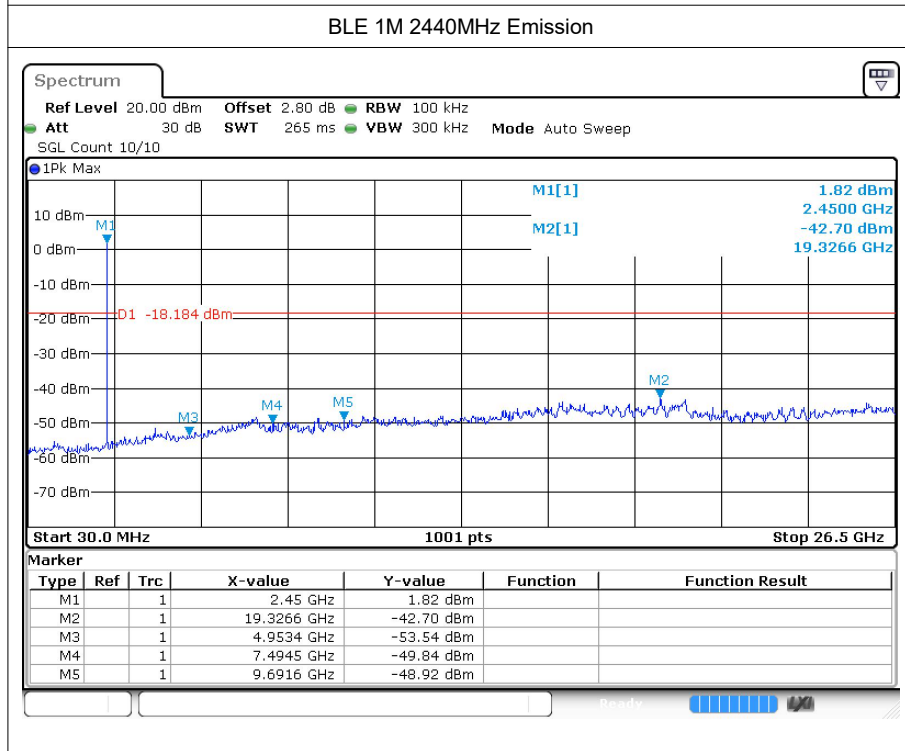
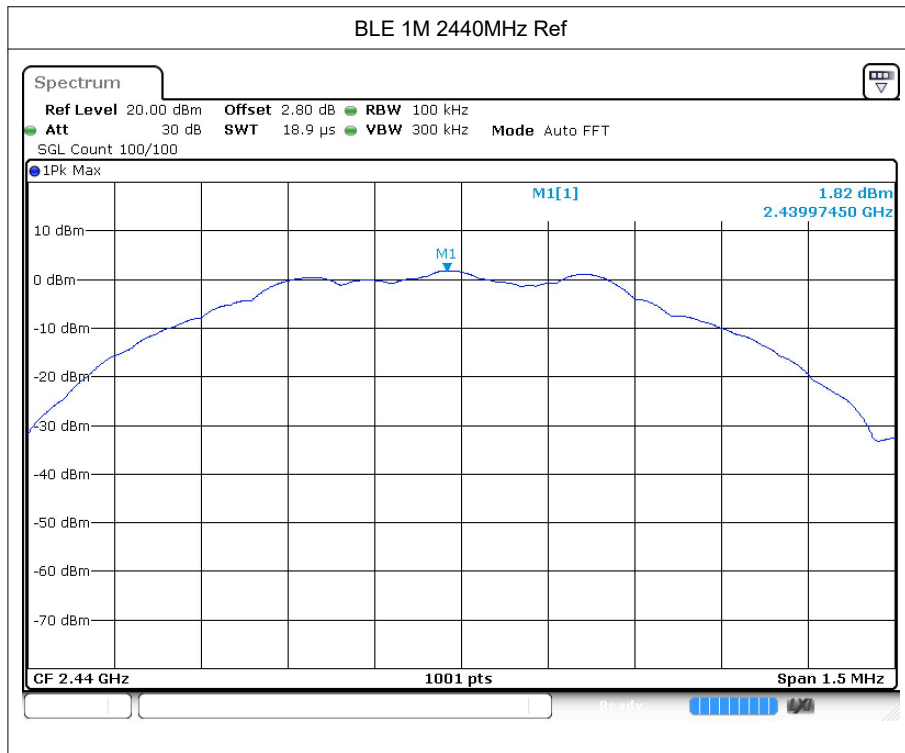
## 6 Conducted RF Spurious Emission

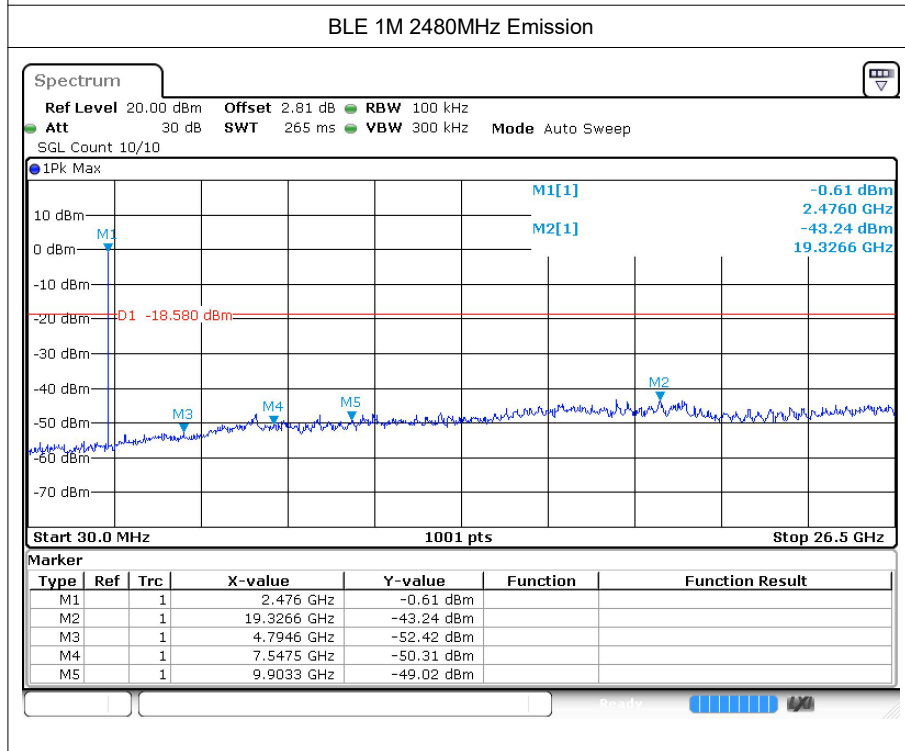
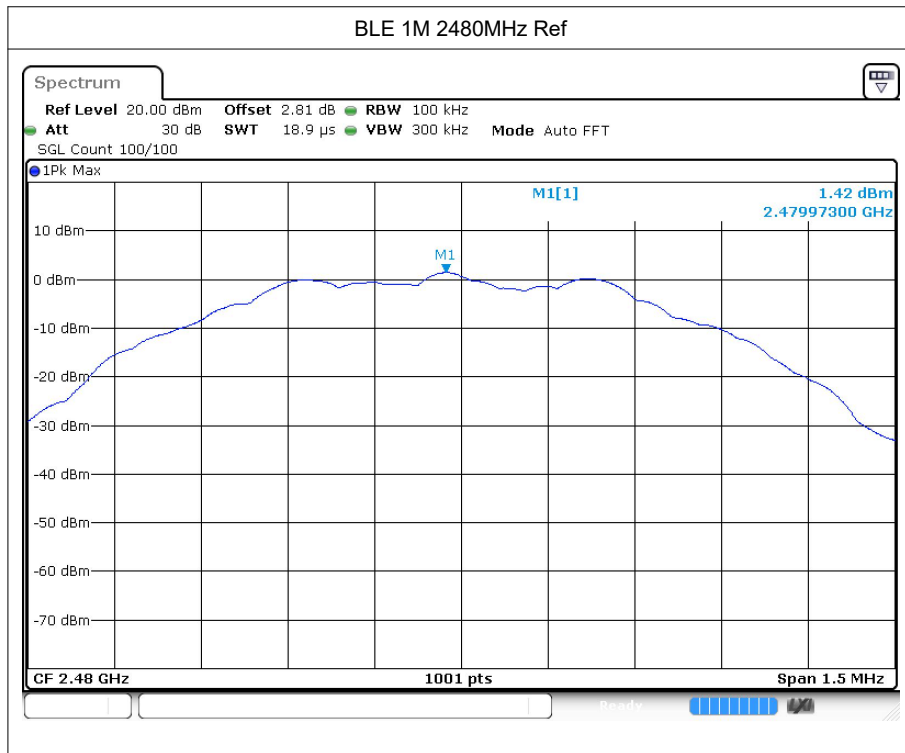
### 6.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-43.67	-20	Pass
BLE 1M	2440	-44.51	-20	Pass
BLE 1M	2480	-44.66	-20	Pass

## 6.2 Test Graphs







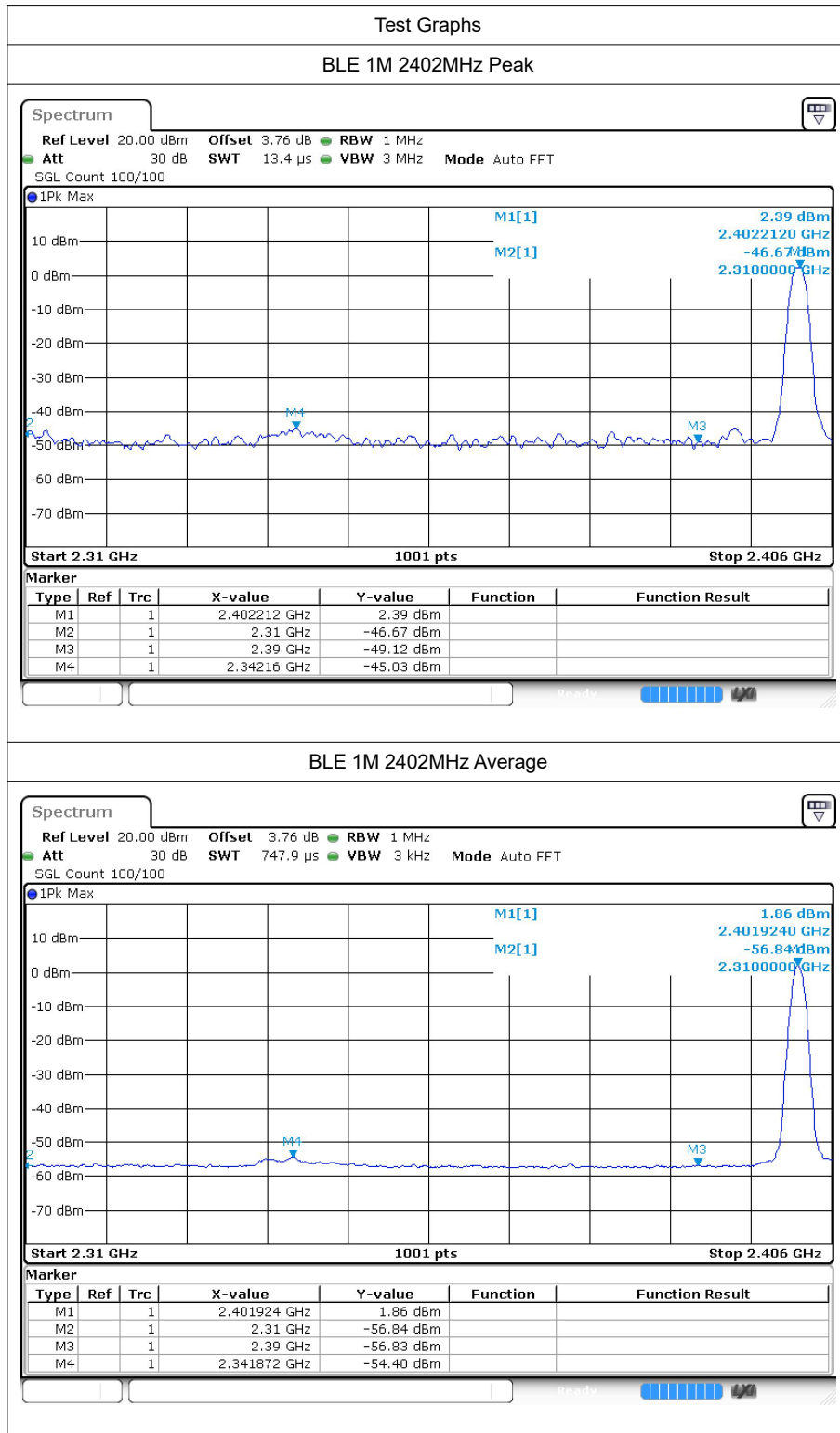


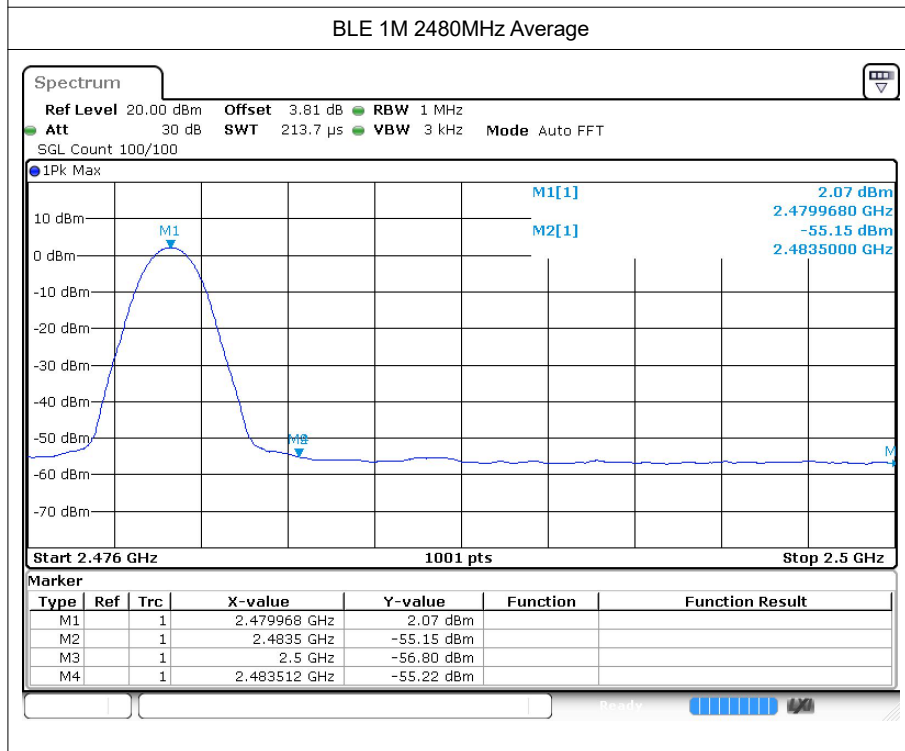
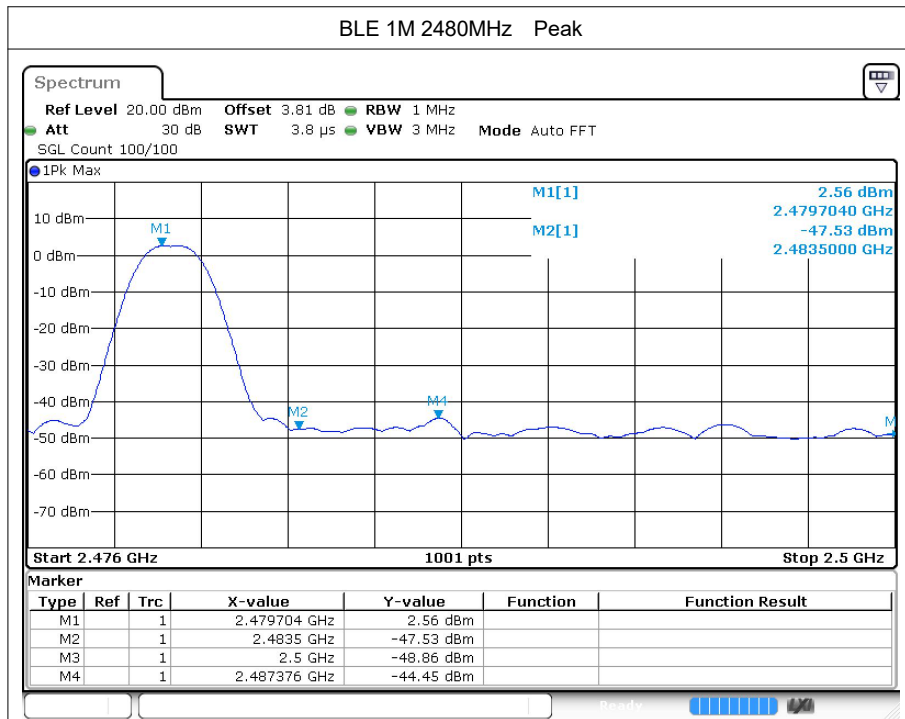
## 7 Restrict Band

### 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	-46.66	2	50.6	Peak	74	Pass
BLE 1M	2402	2310	-56.84	2	40.42	Average	54	Pass
BLE 1M	2402	2342.16	-45.02	2	52.24	Peak	74	Pass
BLE 1M	2402	2341.872	-54.4	2	42.86	Average	54	Pass
BLE 1M	2402	2390	-49.12	2	48.14	Peak	74	Pass
BLE 1M	2402	2390	-56.82	2	40.44	Average	54	Pass
BLE 1M	2480	2483.5	-47.53	2	49.73	Peak	74	Pass
BLE 1M	2480	2483.5	-55.21	2	42.05	Average	54	Pass
BLE 1M	2480	2487.376	-44.44	2	52.82	Peak	74	Pass
BLE 1M	2480	2483.512	-55.21	2	42.05	Average	54	Pass
BLE 1M	2480	2500	-48.86	2	48.4	Peak	74	Pass
BLE 1M	2480	2500	-56.8	2	40.46	Average	54	Pass

## 7.2 Test Graphs





---The End---