



## Appendix B

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

Product Name: Spirometer

Trade Mark: N/A

Test Model: Air Smart T1

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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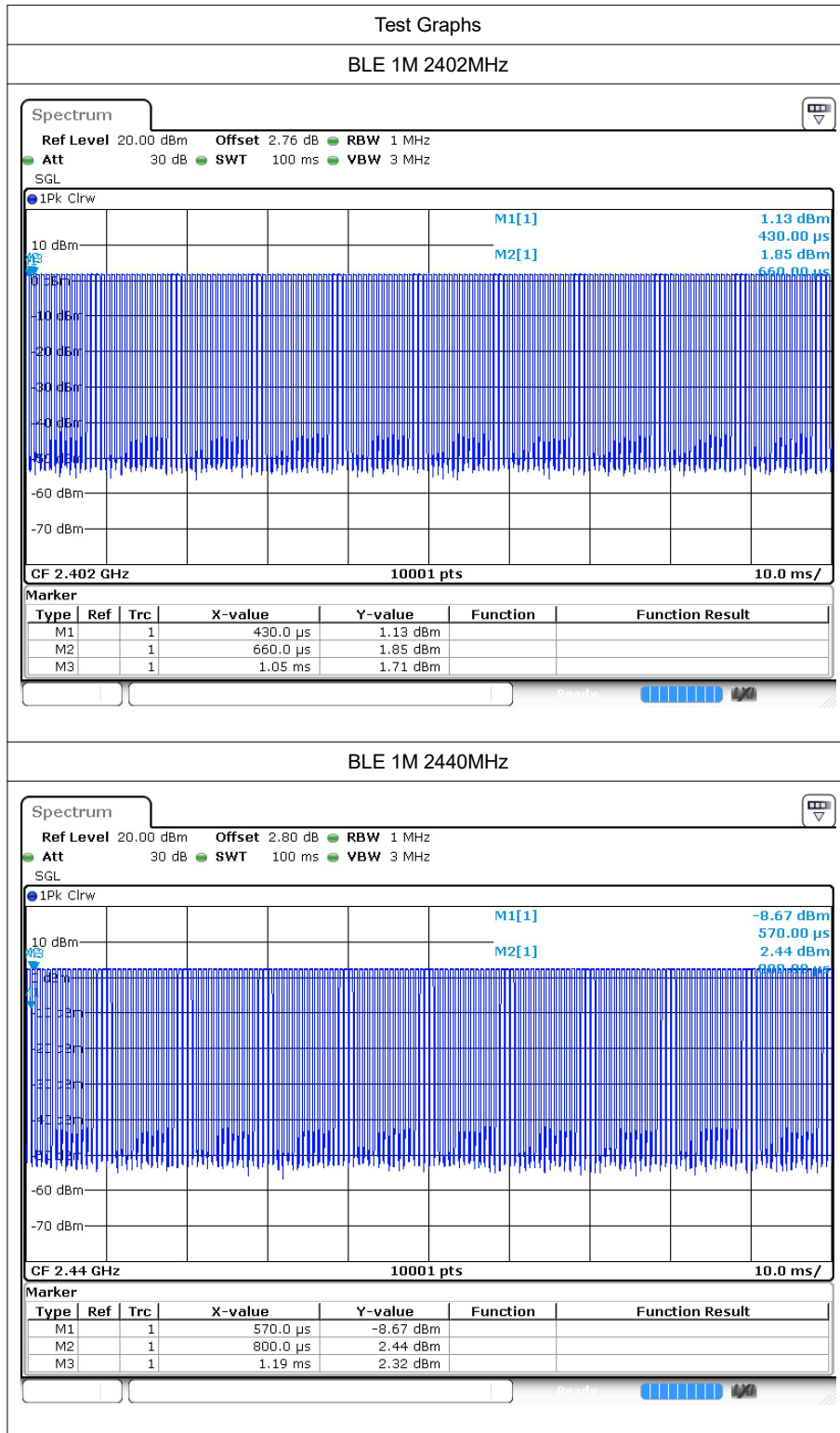


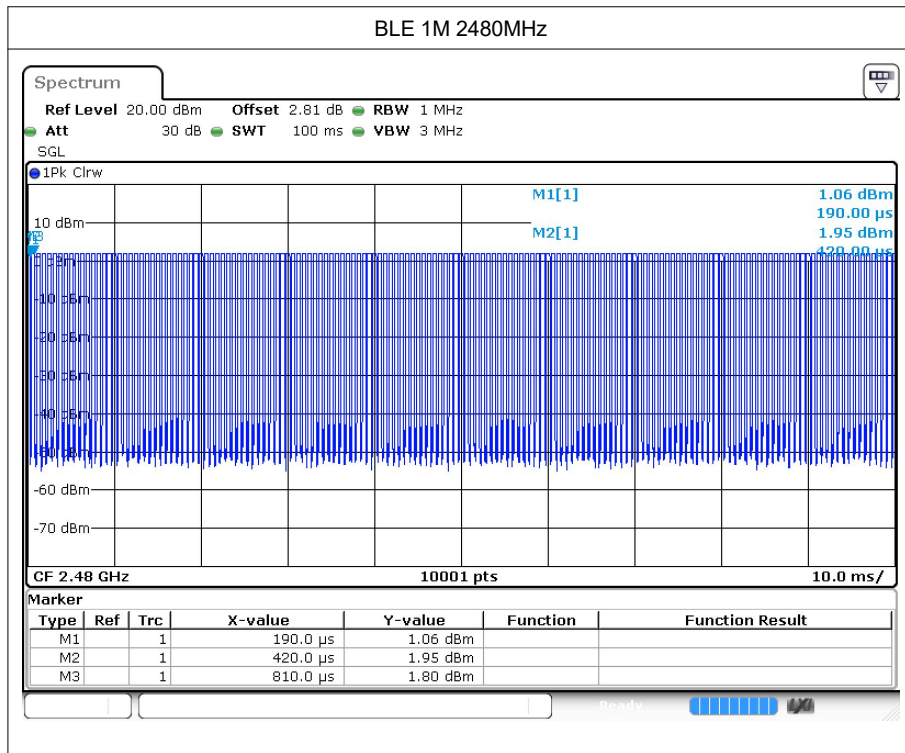
# 1 Duty Cycle

## 1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
BLE 1M	2402	64.39	2.56
BLE 1M	2440	64.79	2.56
BLE 1M	2480	64	2.56

## 1.2 Test Graphs





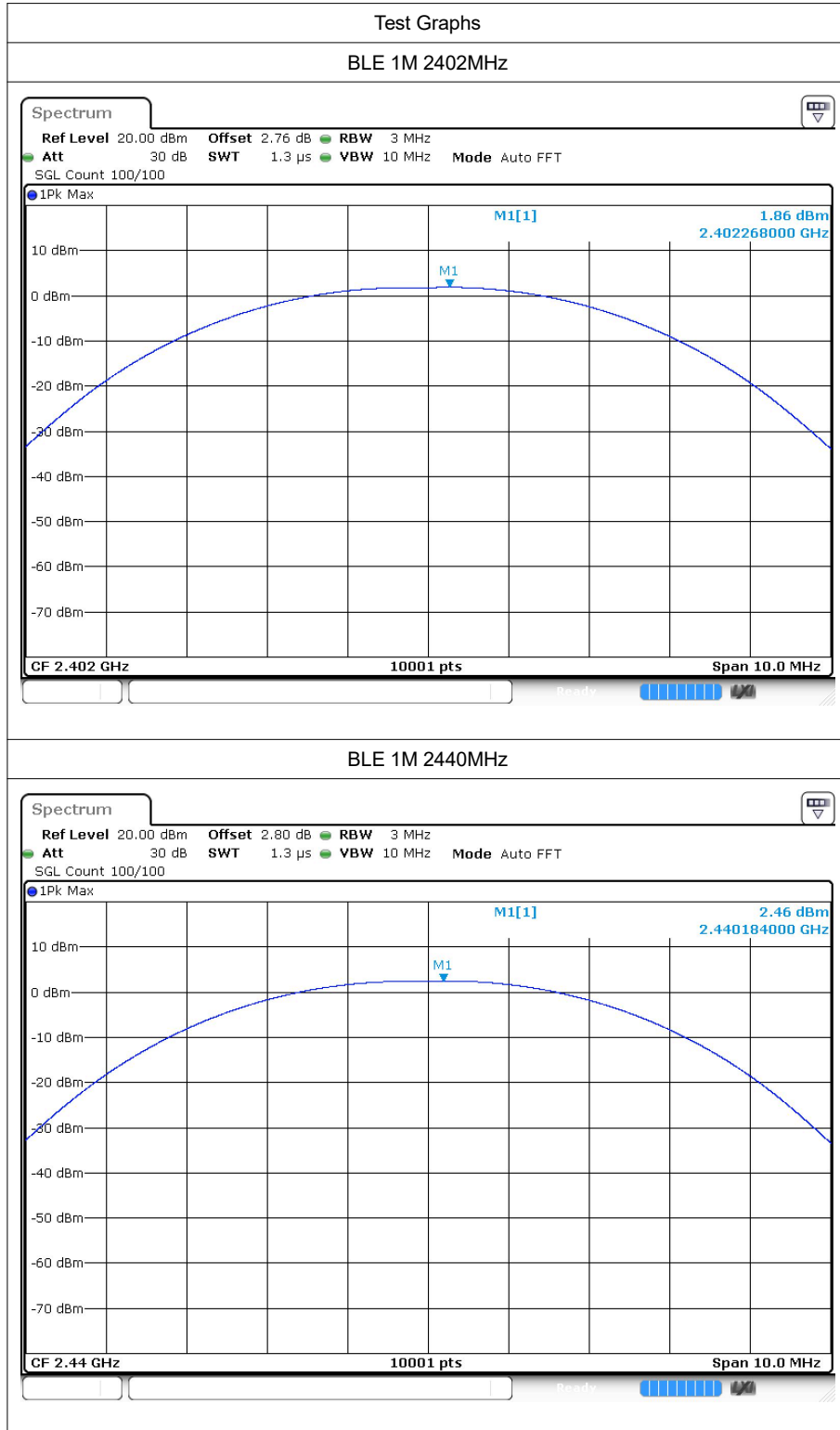


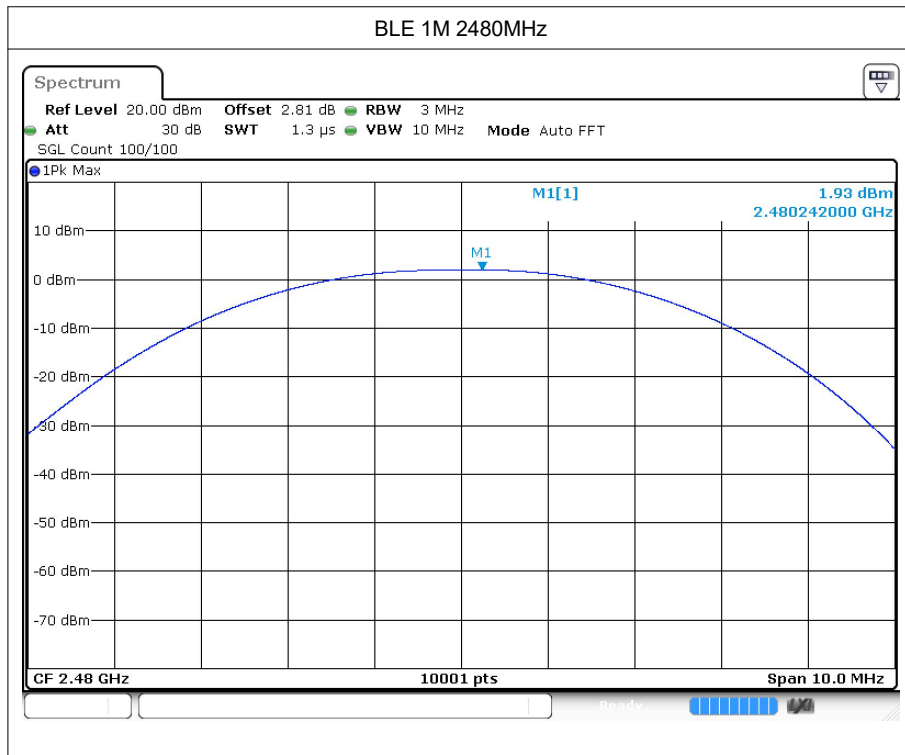
## 2 Maximum Conducted Output Power

### 2.1 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	1.86	30	Pass
BLE 1M	2440	2.46	30	Pass
BLE 1M	2480	1.93	30	Pass

## 2.2 Test Graphs







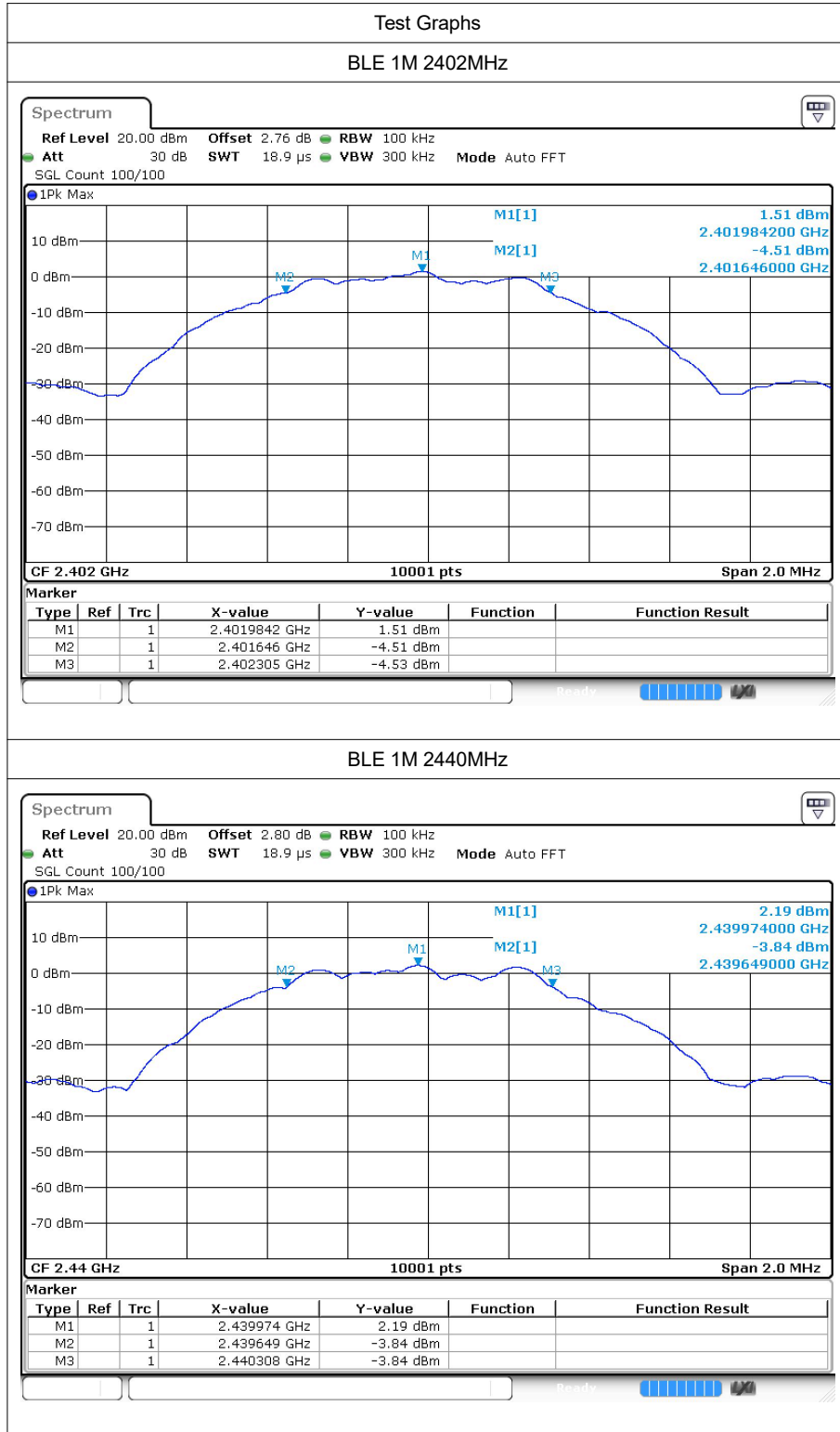


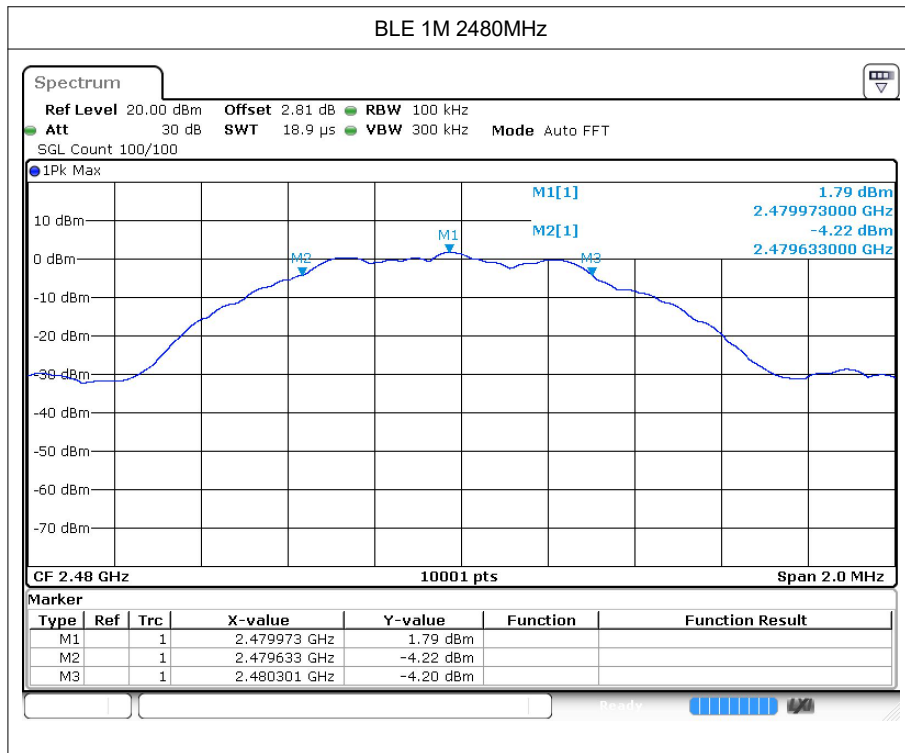
### 3 -6dB Bandwidth

#### 3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.659	0.5	Pass
BLE 1M	2440	0.658	0.5	Pass
BLE 1M	2480	0.668	0.5	Pass

### 3.2 Test Graphs



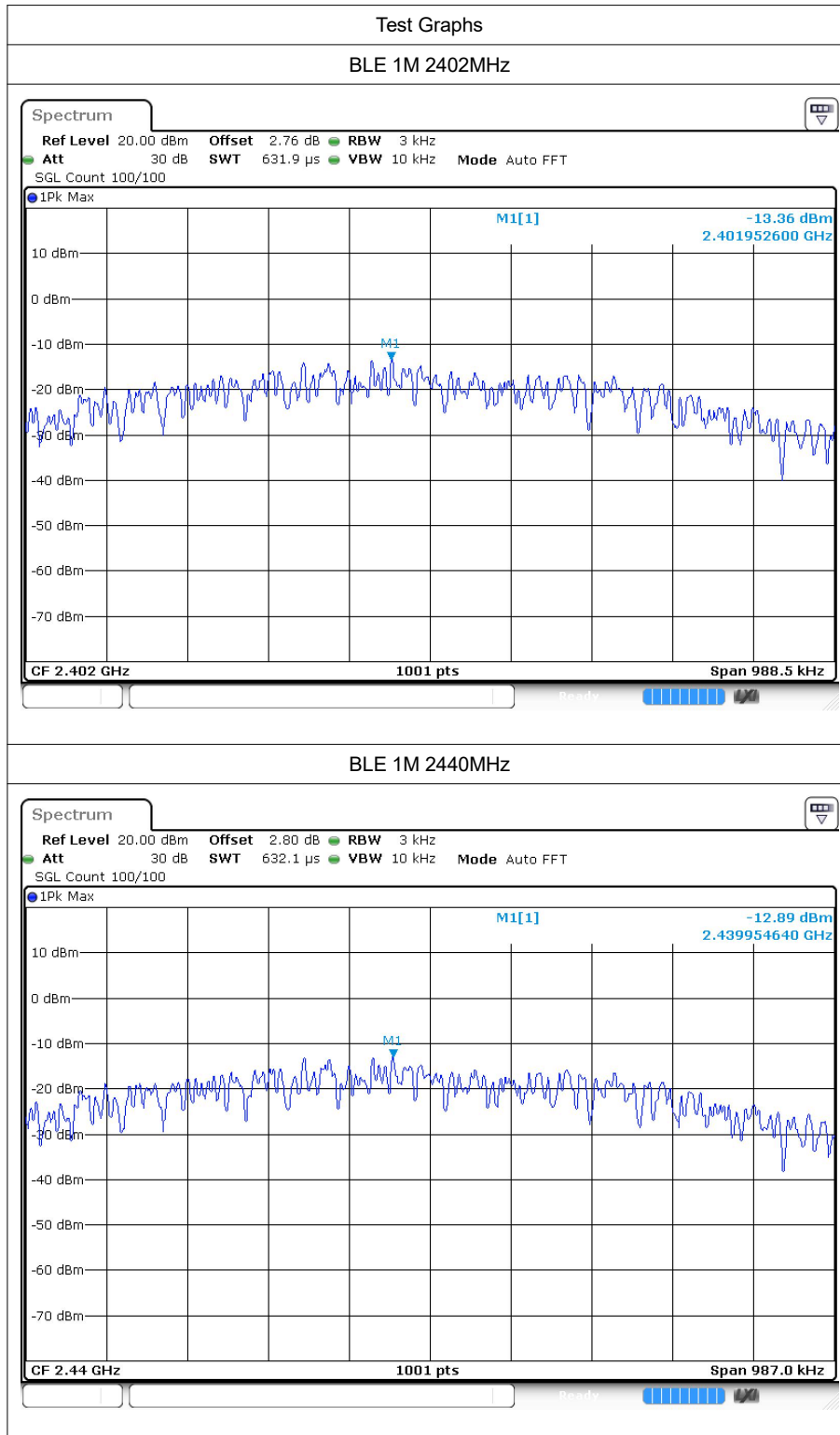


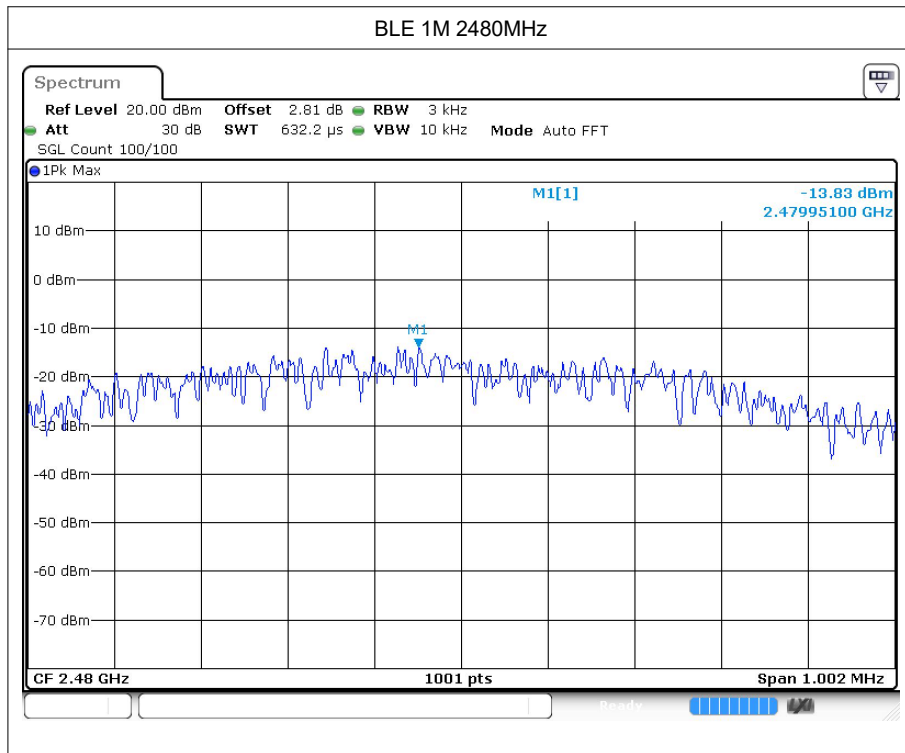
## 4 Maximum Power Spectral Density Level

### 4.1 Test Result

Mode	Frequency (MHz)	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-13.36	$\leq 8$	Pass
BLE 1M	2440	-12.89	$\leq 8$	Pass
BLE 1M	2480	-13.83	$\leq 8$	Pass

## 4.2 Test Graphs





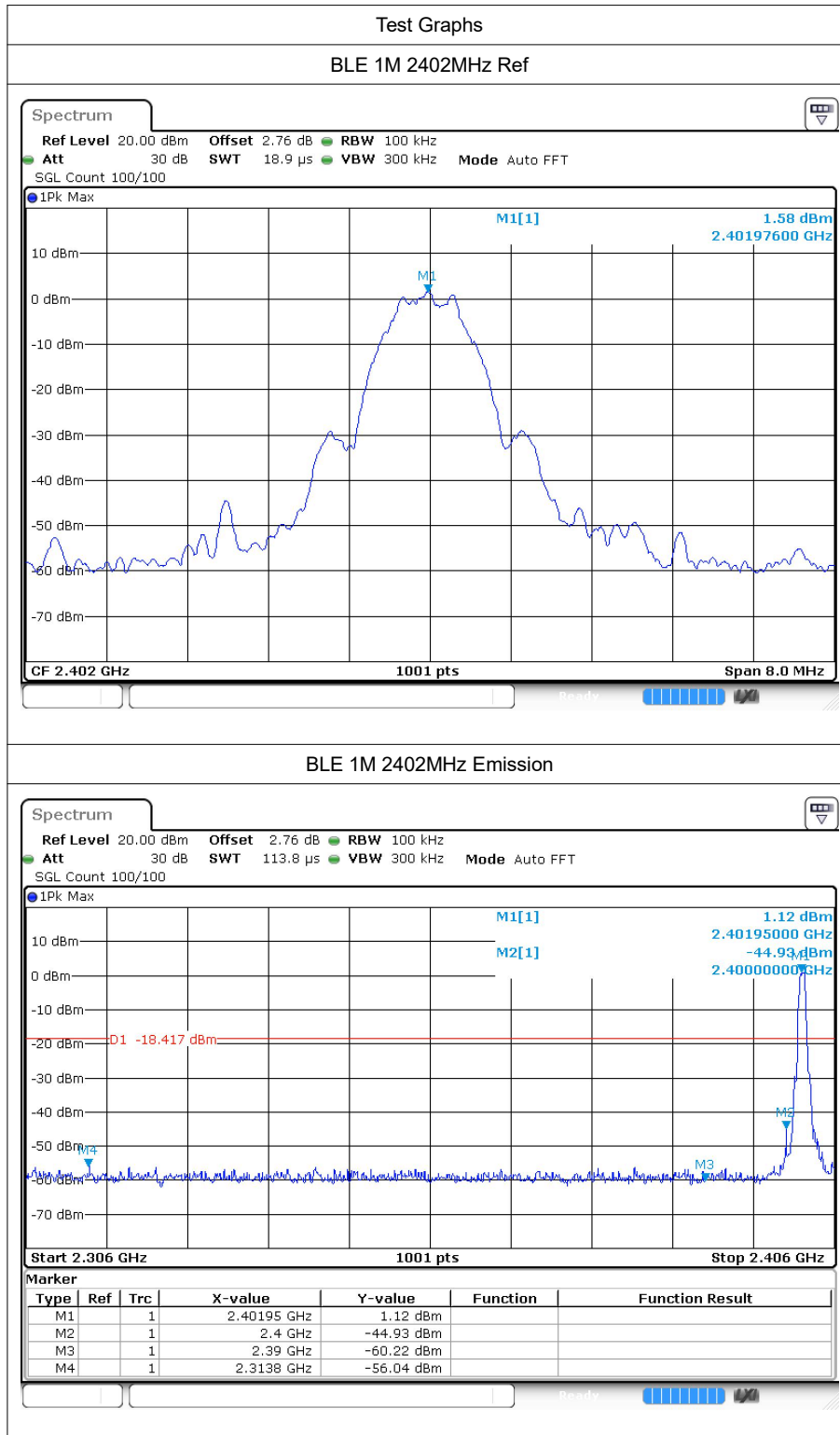


## 5 Band Edge

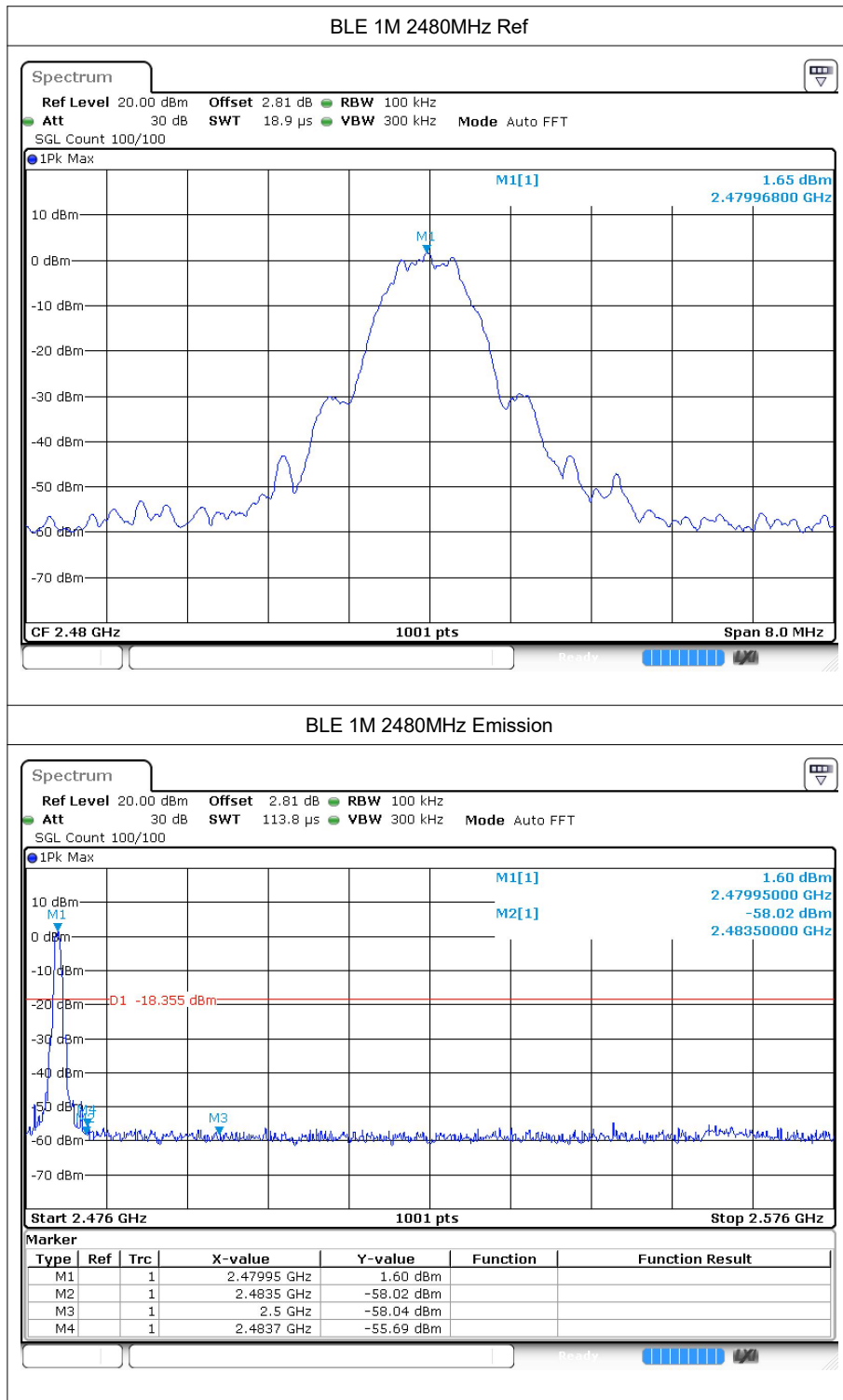
### 5.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-57.62	-20	Pass
BLE 1M	2480	-57.34	-20	Pass

## 5.2 Test Graphs







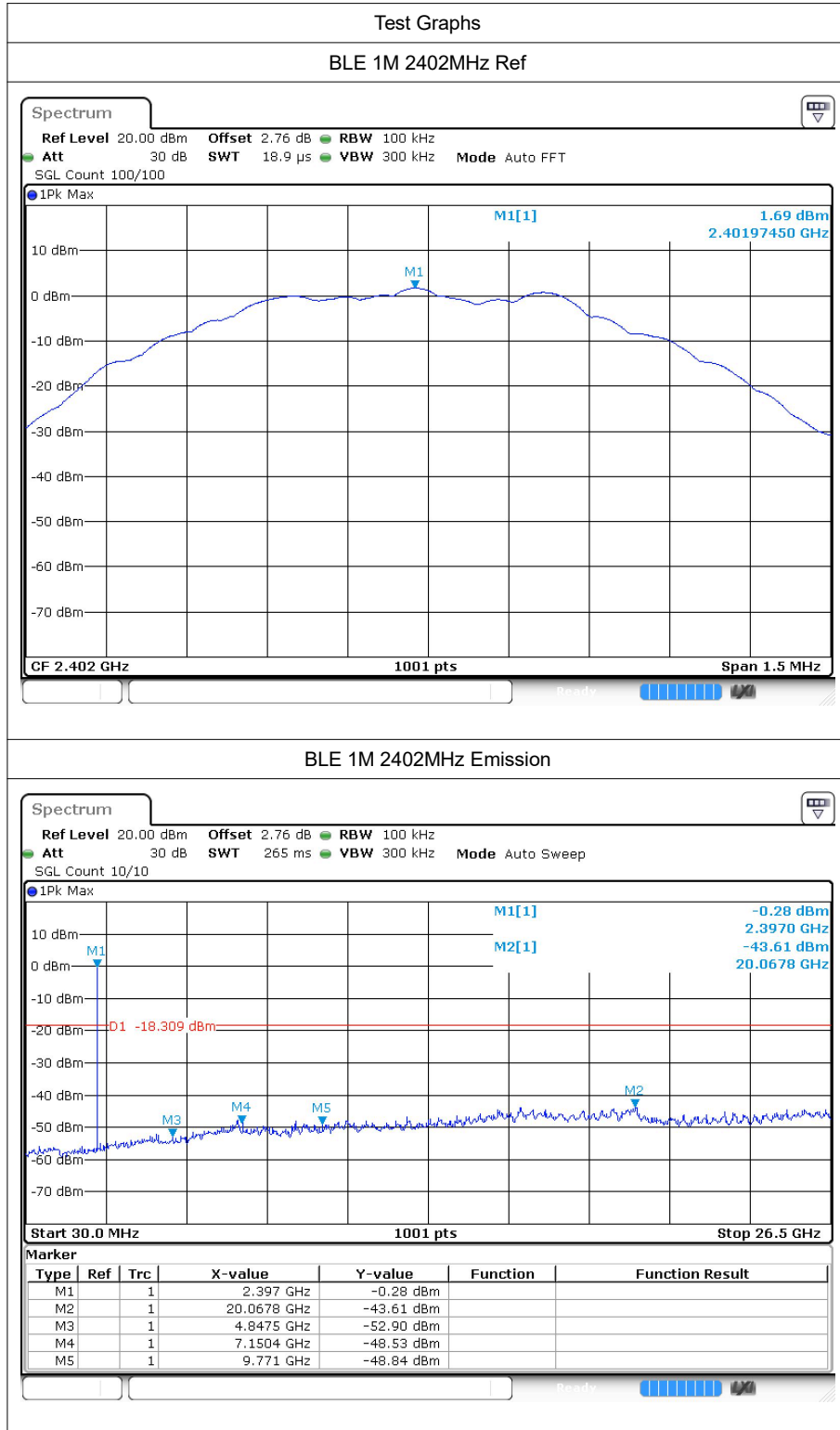


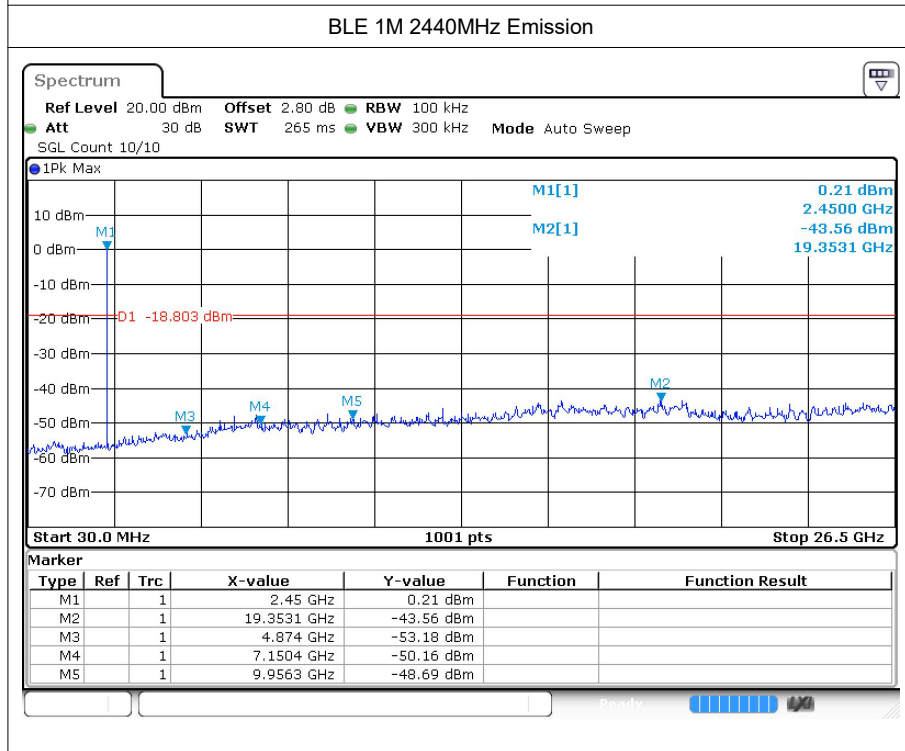
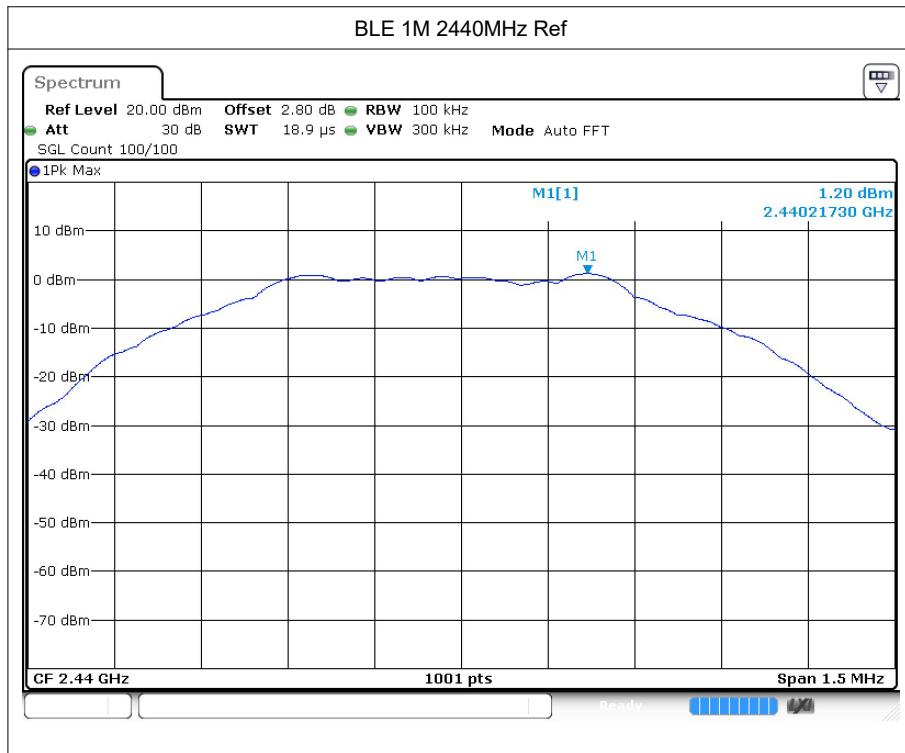
## 6 Conducted RF Spurious Emission

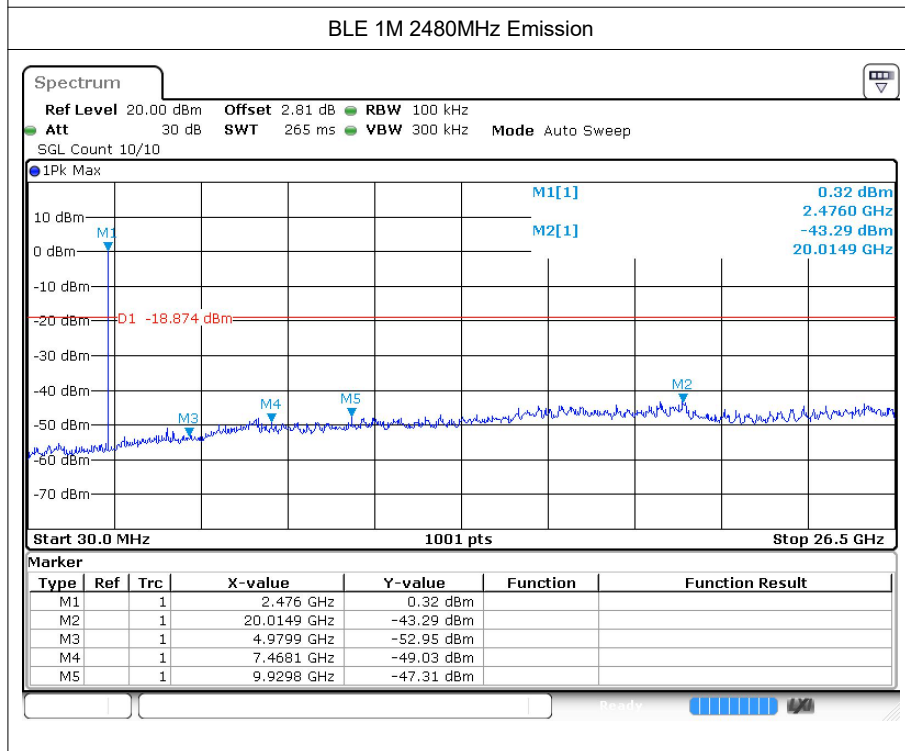
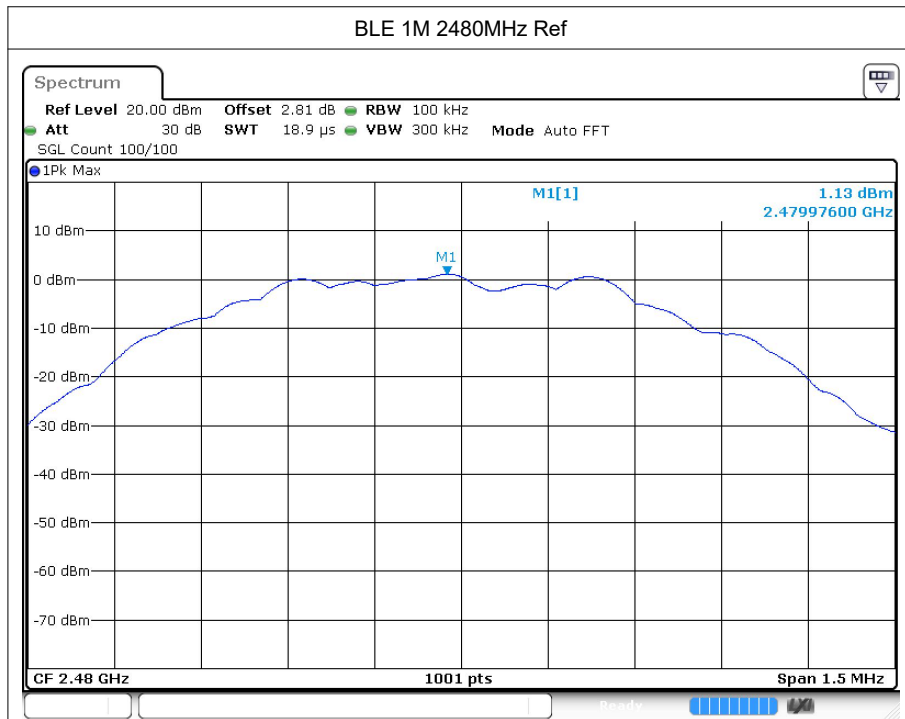
### 6.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-45.3	-20	Pass
BLE 1M	2440	-44.75	-20	Pass
BLE 1M	2480	-44.42	-20	Pass

## 6.2 Test Graphs







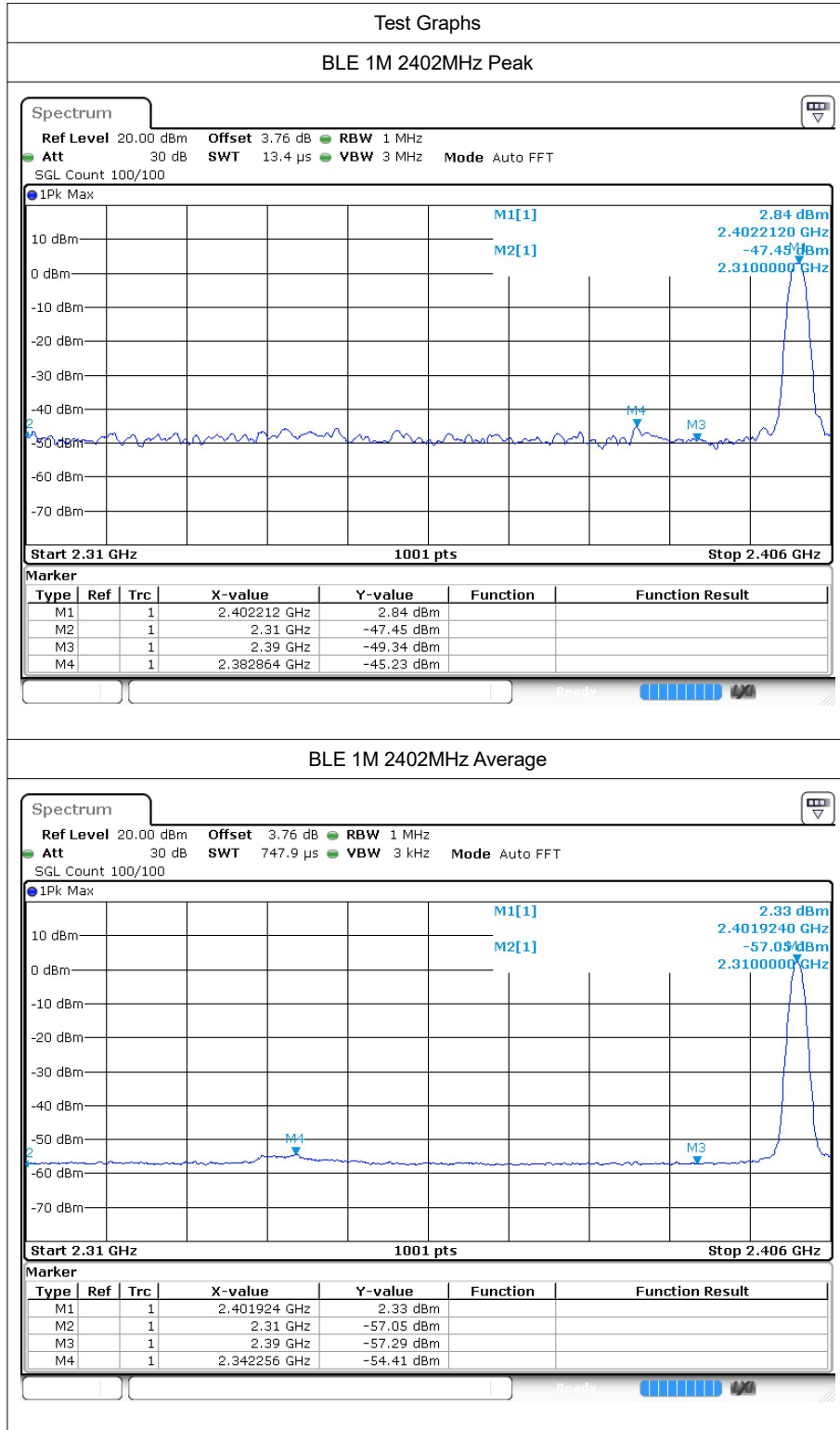


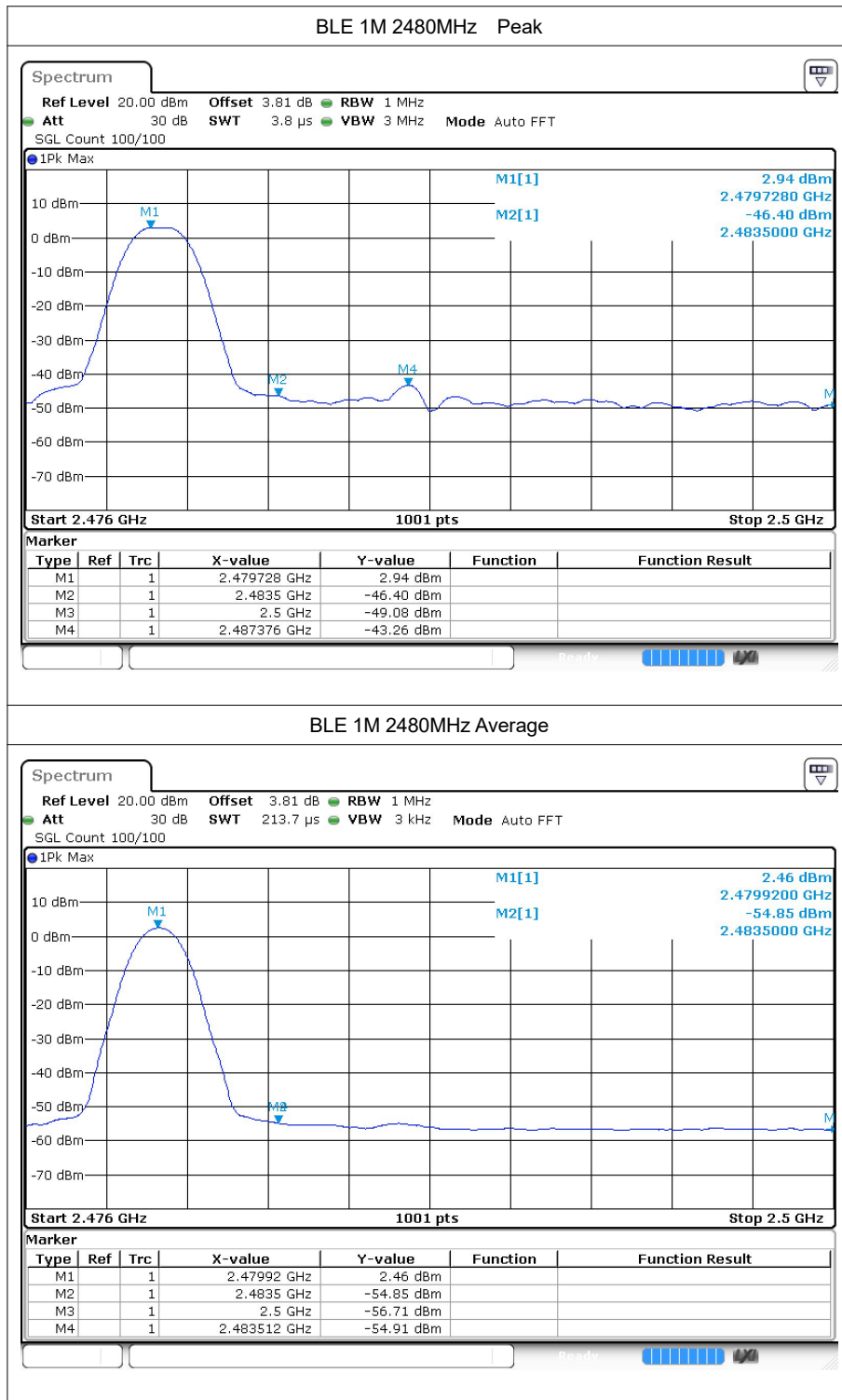
## 7 Restrict Band

### 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	-47.45	2	49.81	Peak	74	Pass
BLE 1M	2402	2310	-57.05	2	40.21	Average	54	Pass
BLE 1M	2402	2382.864	-45.23	2	52.03	Peak	74	Pass
BLE 1M	2402	2342.256	-54.4	2	42.86	Average	54	Pass
BLE 1M	2402	2390	-49.33	2	47.93	Peak	74	Pass
BLE 1M	2402	2390	-57.29	2	39.97	Average	54	Pass
BLE 1M	2480	2483.5	-46.44	2	50.82	Peak	74	Pass
BLE 1M	2480	2483.5	-54.91	2	42.35	Average	54	Pass
BLE 1M	2480	2487.376	-43.25	2	54.01	Peak	74	Pass
BLE 1M	2480	2483.512	-54.91	2	42.35	Average	54	Pass
BLE 1M	2480	2500	-49.07	2	48.19	Peak	74	Pass
BLE 1M	2480	2500	-56.7	2	40.56	Average	54	Pass

## 7.2 Test Graphs





---The End---