



## Appendix B

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

Product Name: Comms Gateway

Trade Mark: Acorn Stairlifts

Test Model: T715 Comms Gateway

#### 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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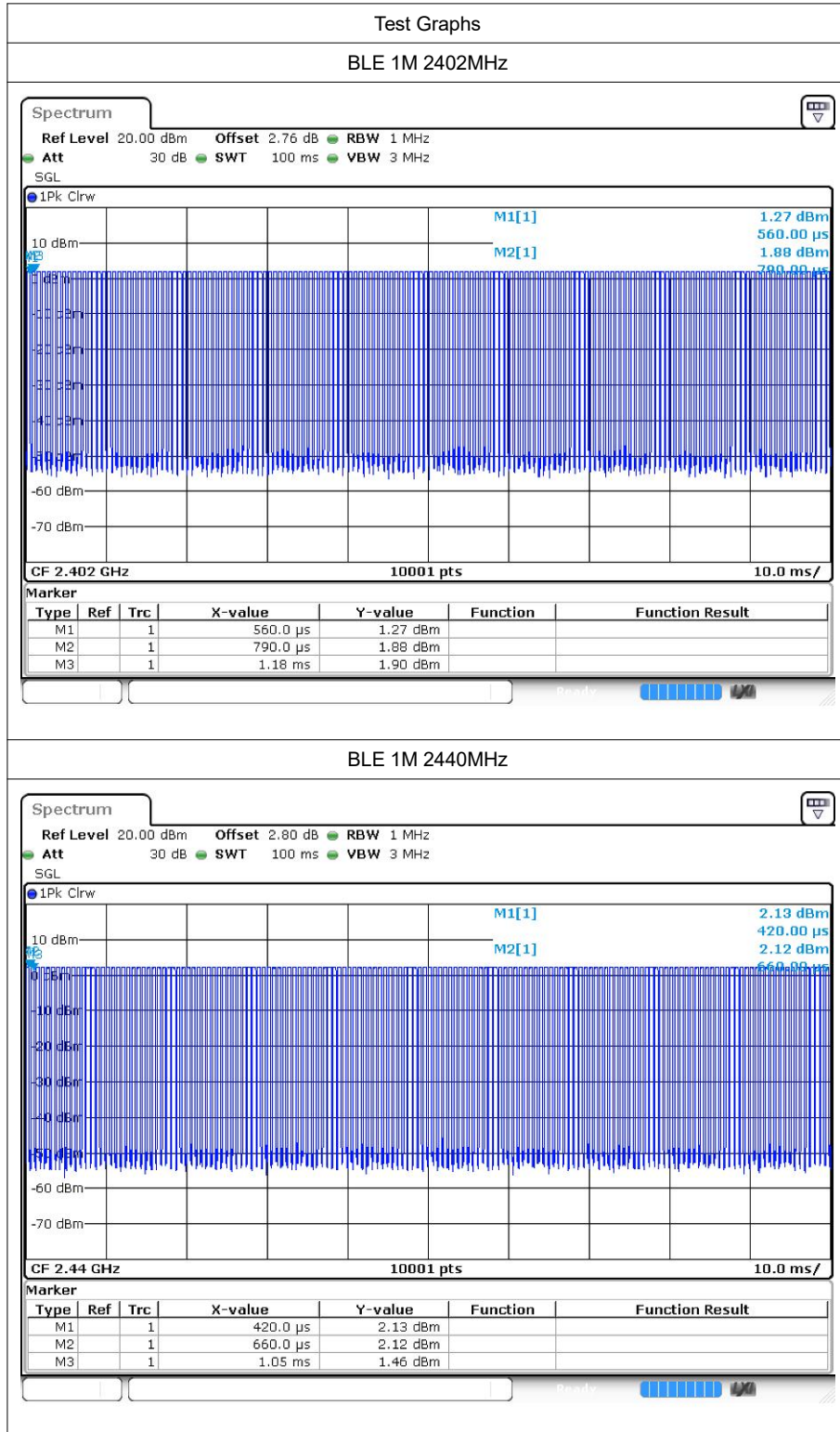


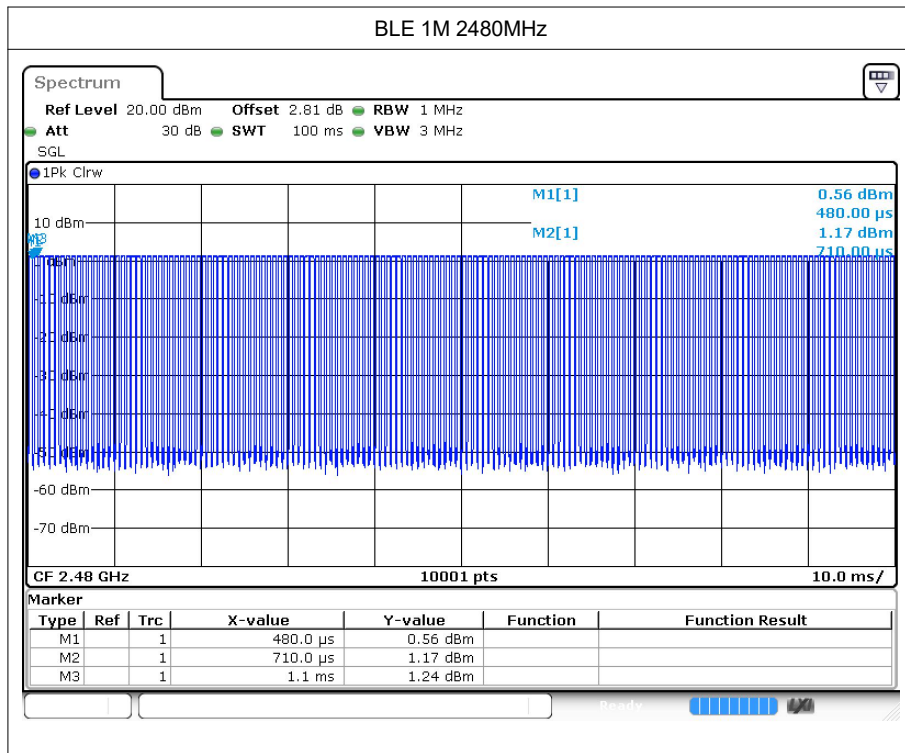
# 1 Duty Cycle

## 1.1 Test Result

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

## 1.2 Test Graphs





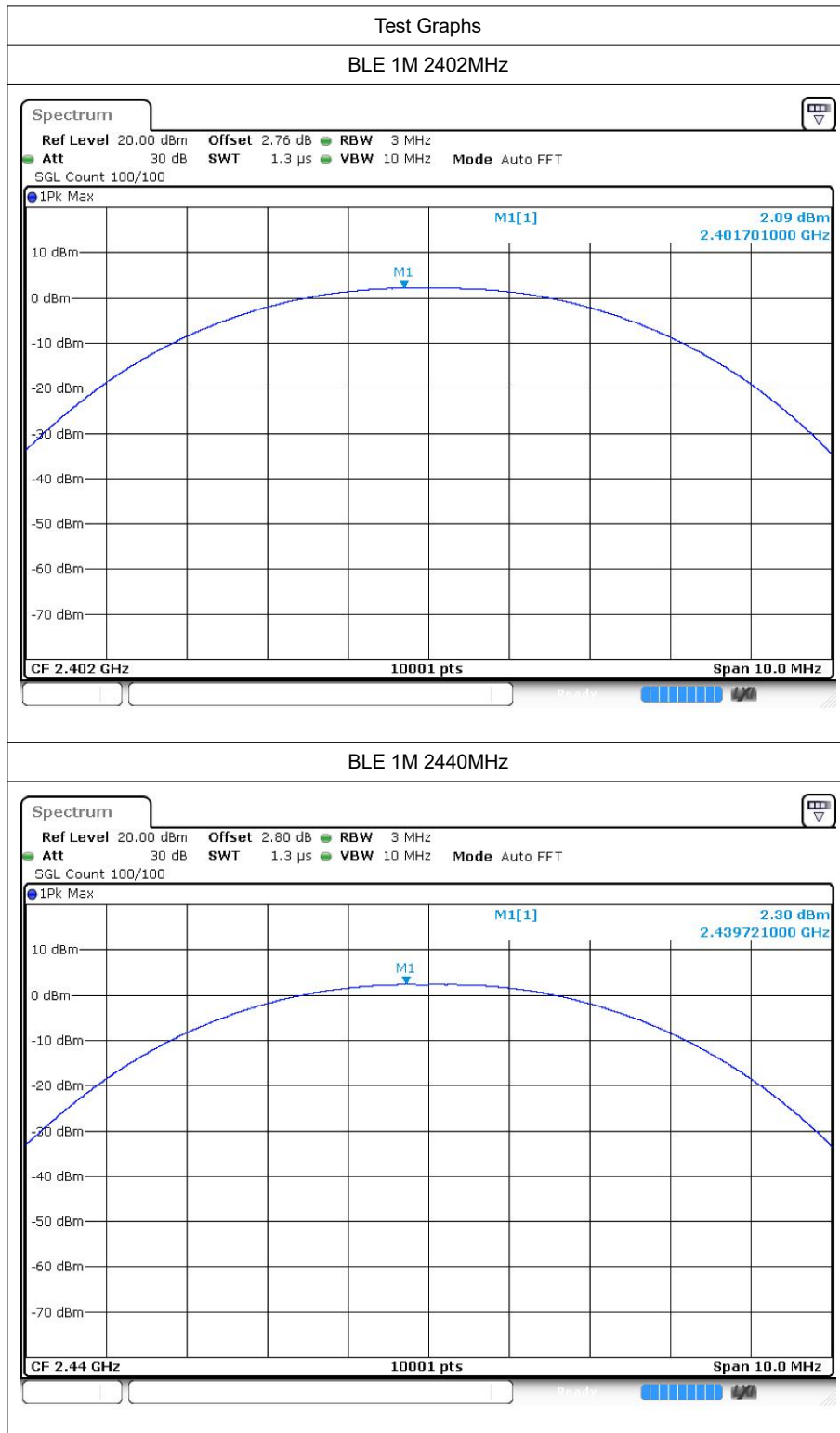


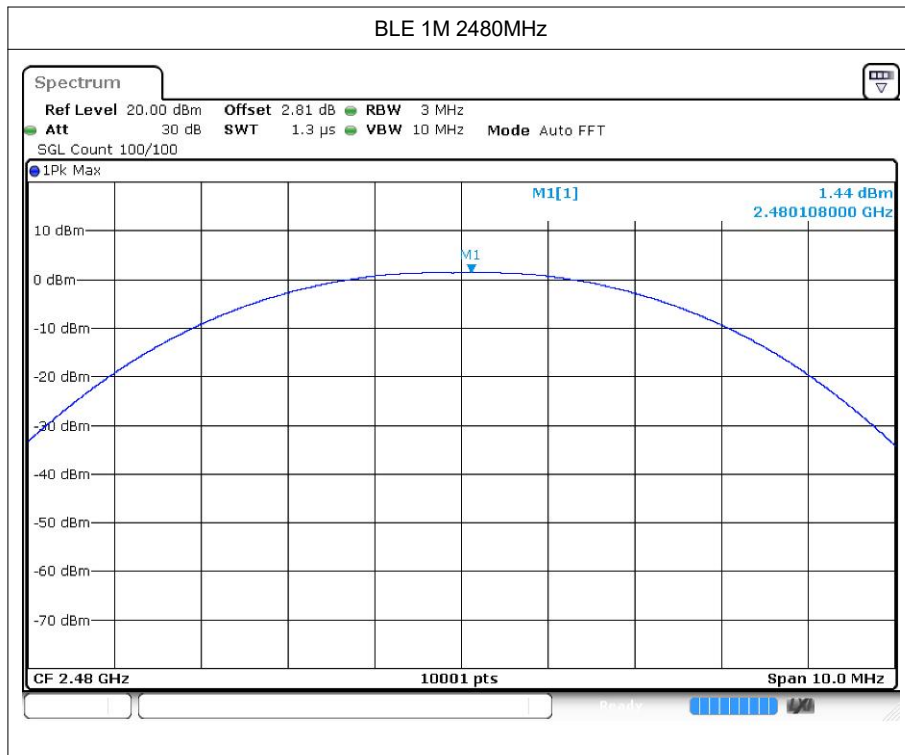
## 2 Maximum Conducted Output Power

### 2.1 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	2.09	30	Pass
BLE 1M	2440	2.3	30	Pass
BLE 1M	2480	1.44	30	Pass

## 2.2 Test Graphs







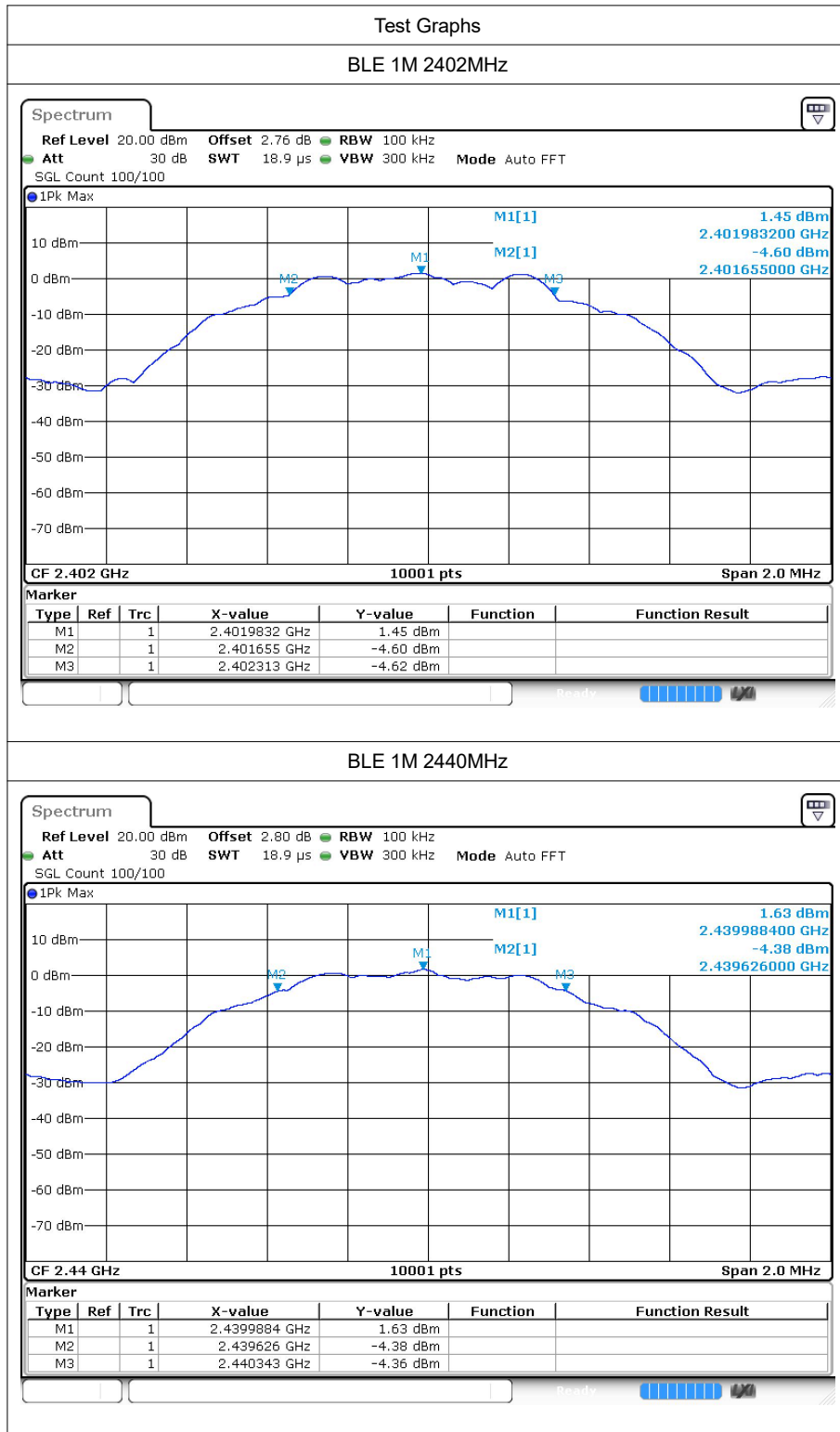


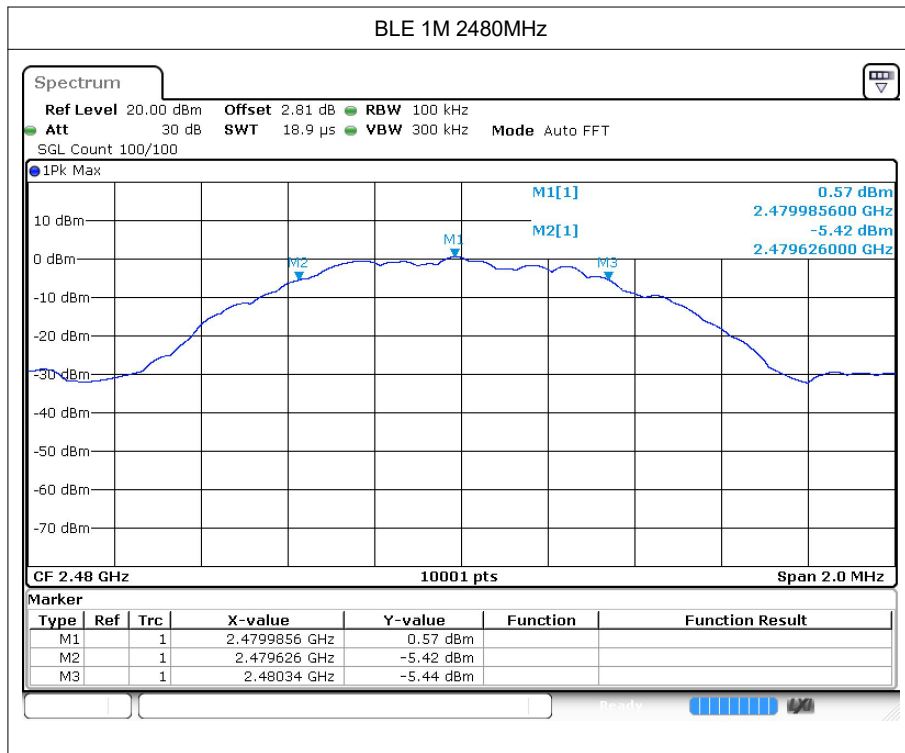
### 3 -6dB Bandwidth

#### 3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.657	0.5	Pass
BLE 1M	2440	0.717	0.5	Pass
BLE 1M	2480	0.714	0.5	Pass

### 3.2 Test Graphs





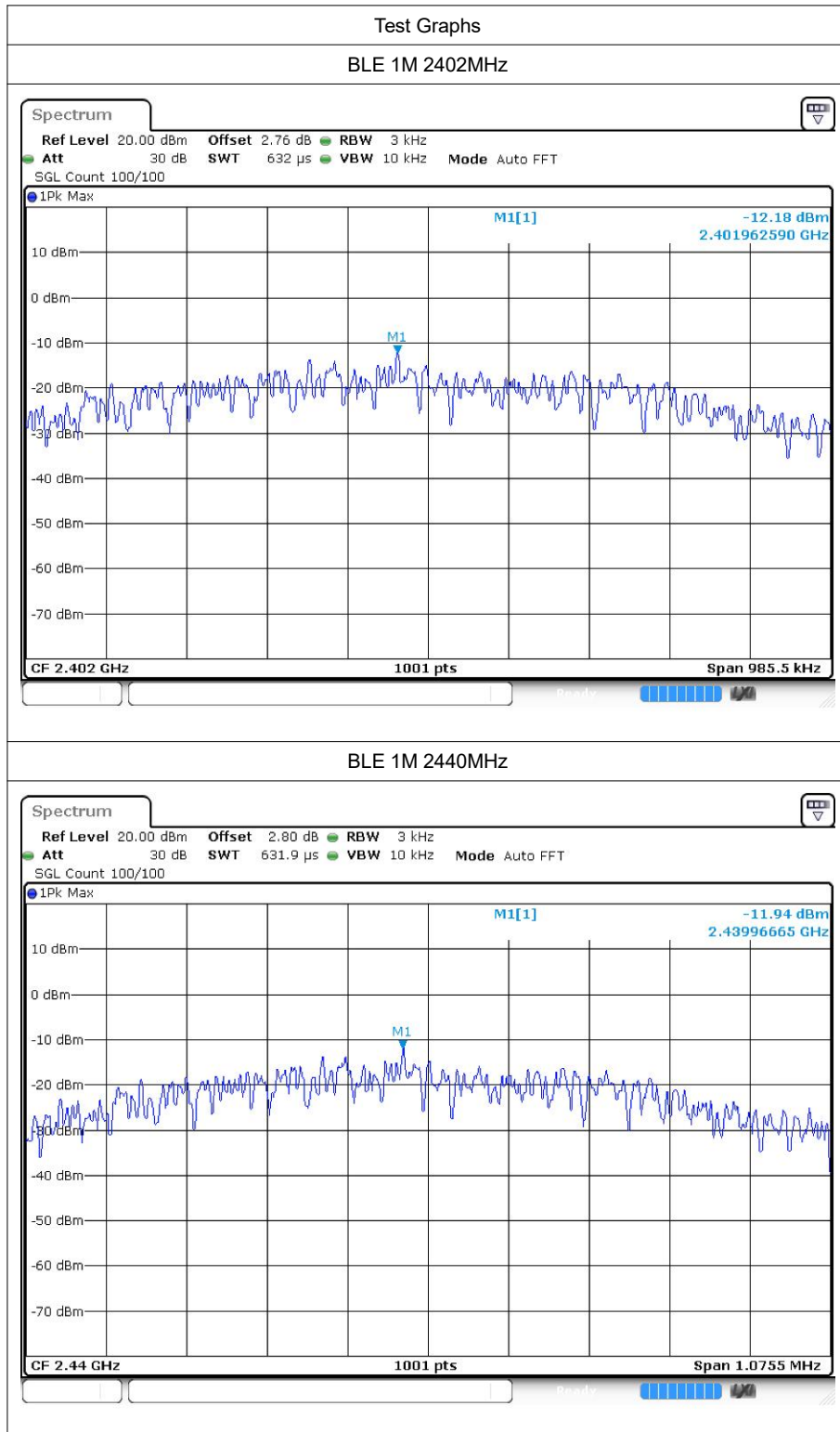


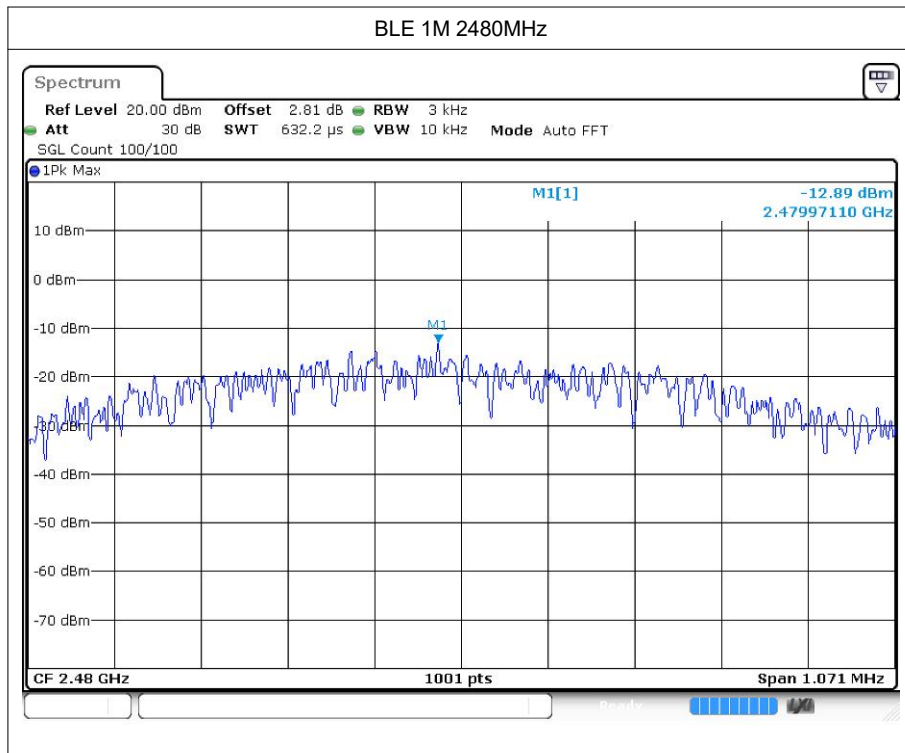
## 4 Maximum Power Spectral Density Level

### 4.1 Test Result

Mode	Frequency (MHz)	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-12.18	≤8	Pass
BLE 1M	2440	-11.94	≤8	Pass
BLE 1M	2480	-12.89	≤8	Pass

## 4.2 Test Graphs





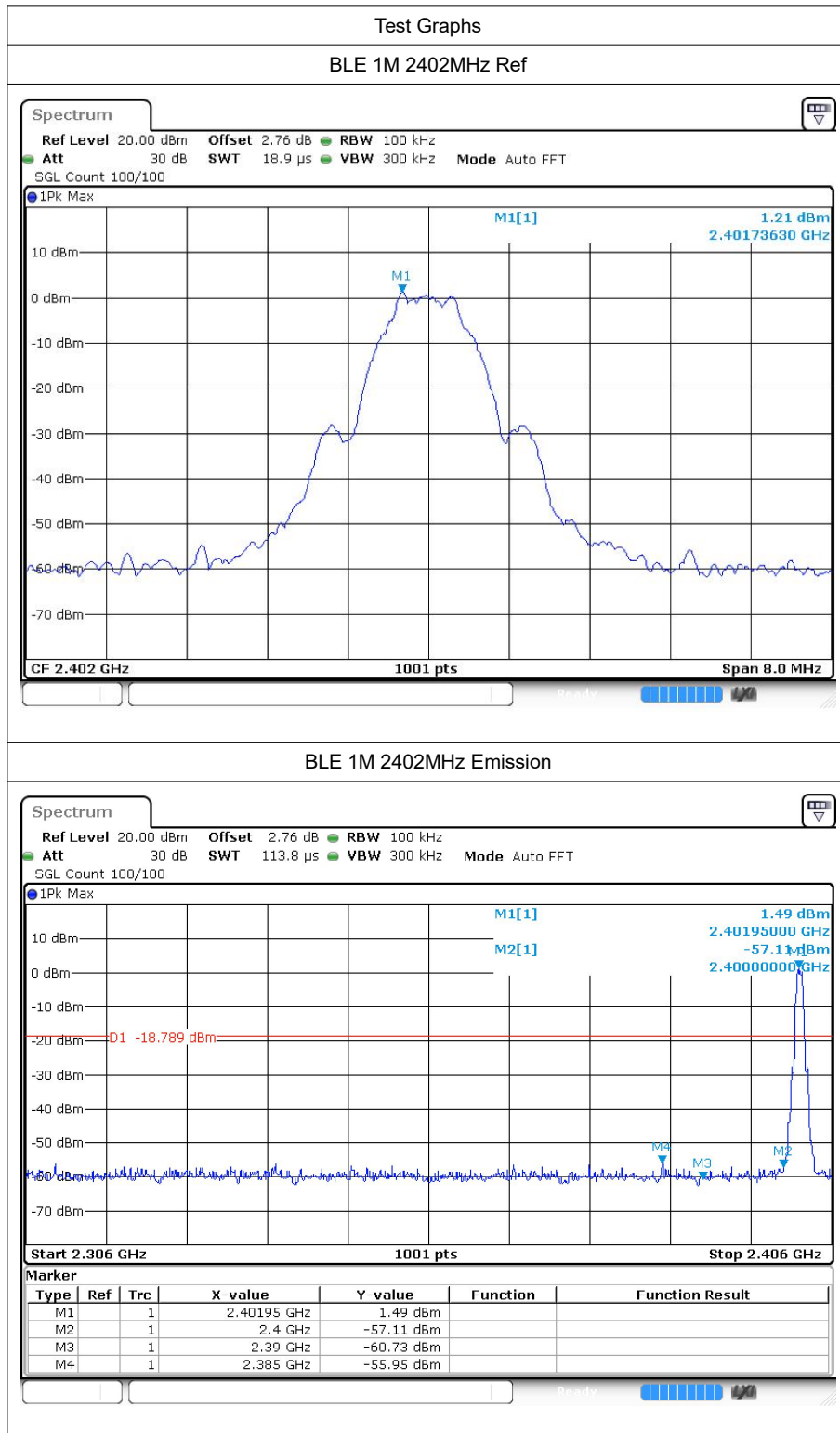


## 5 Band Edge

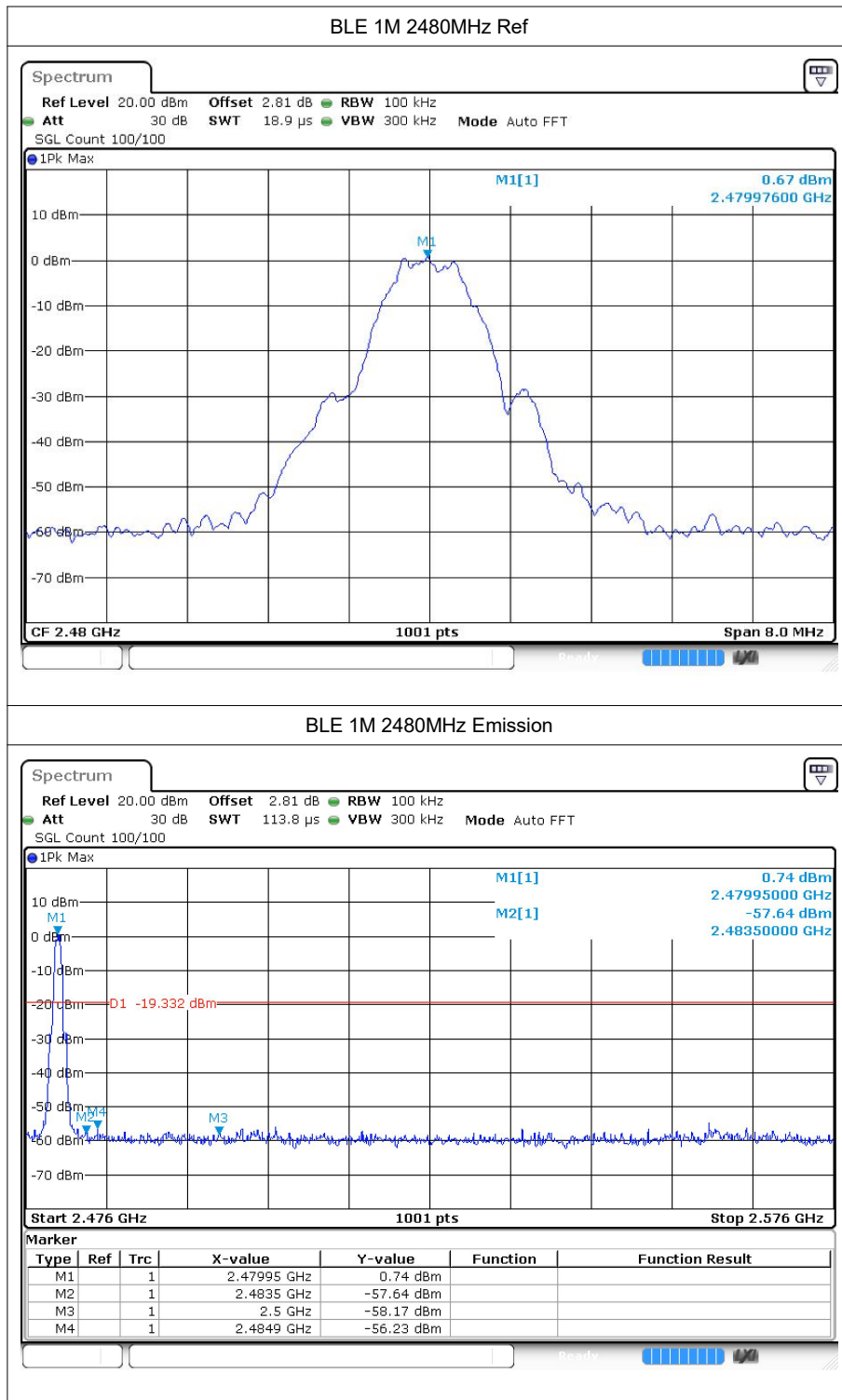
### 5.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-57.16	-20	Pass
BLE 1M	2480	-56.9	-20	Pass

## 5.2 Test Graphs









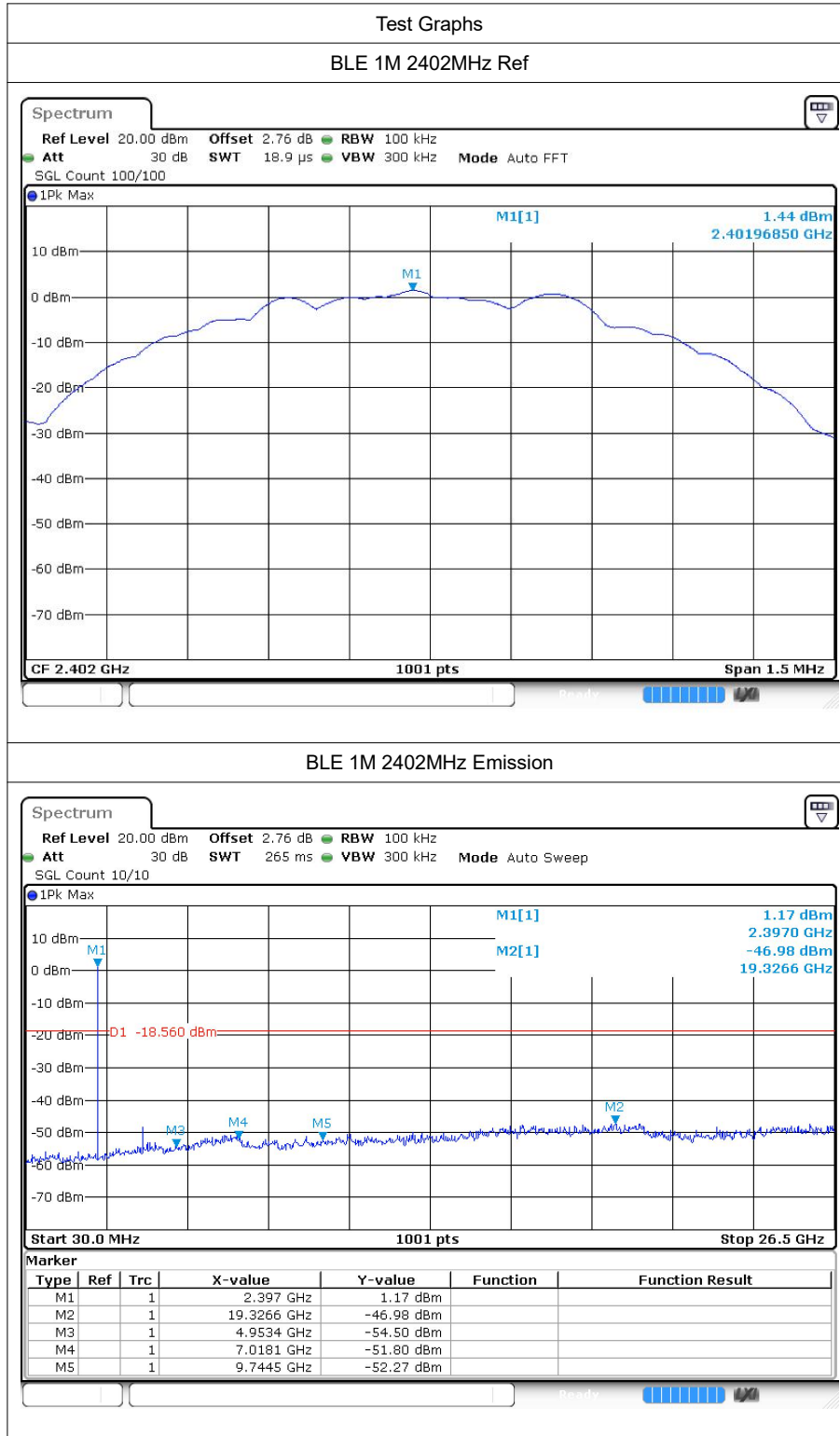
## 6 Conducted RF Spurious Emission

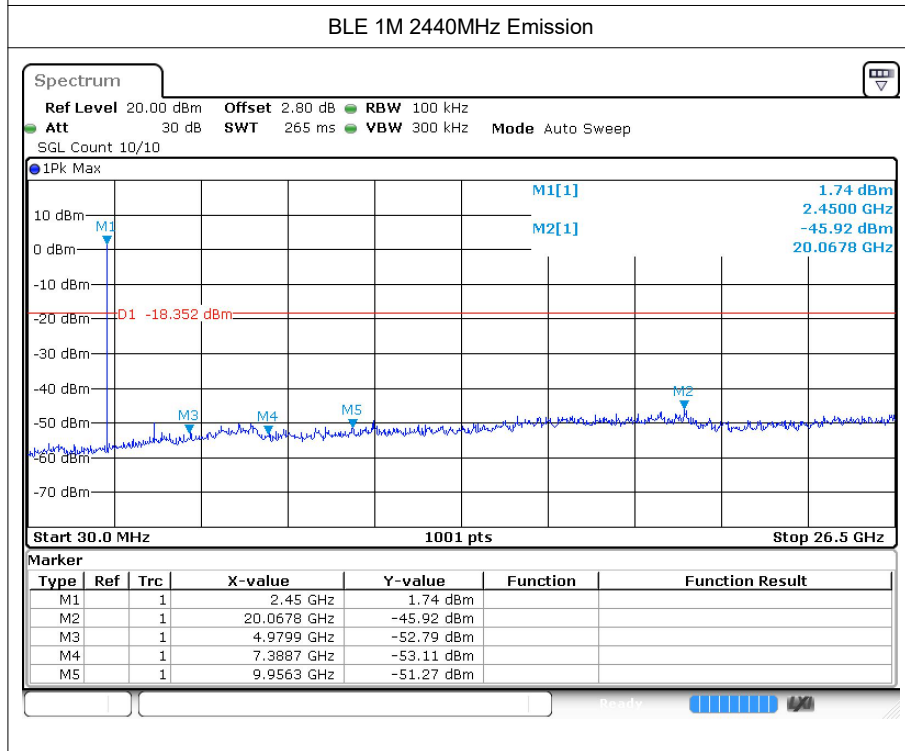
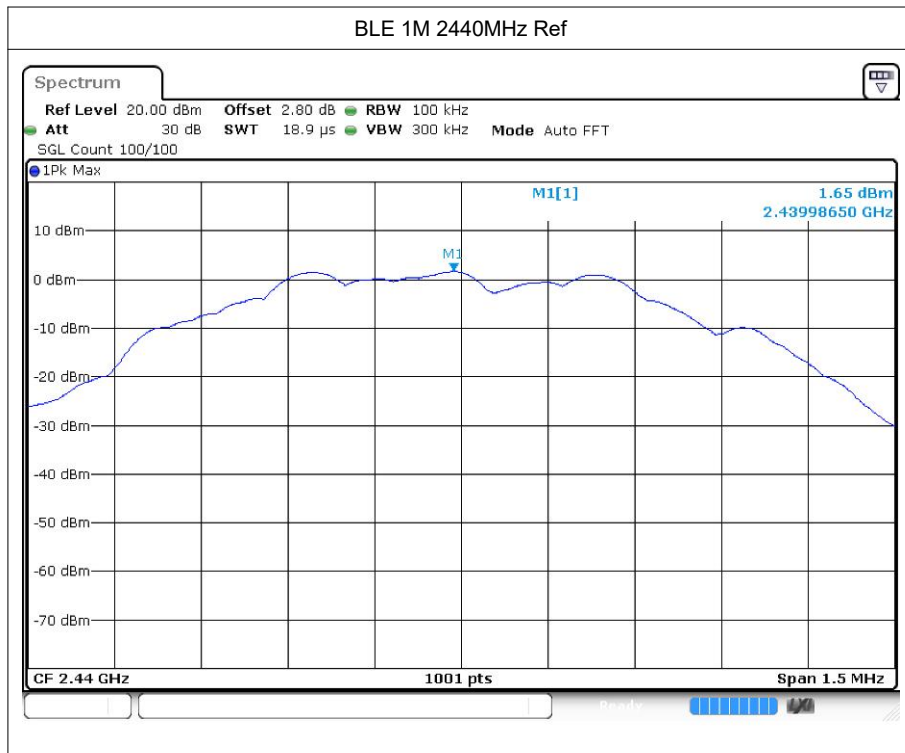
### 6.1 Test Result

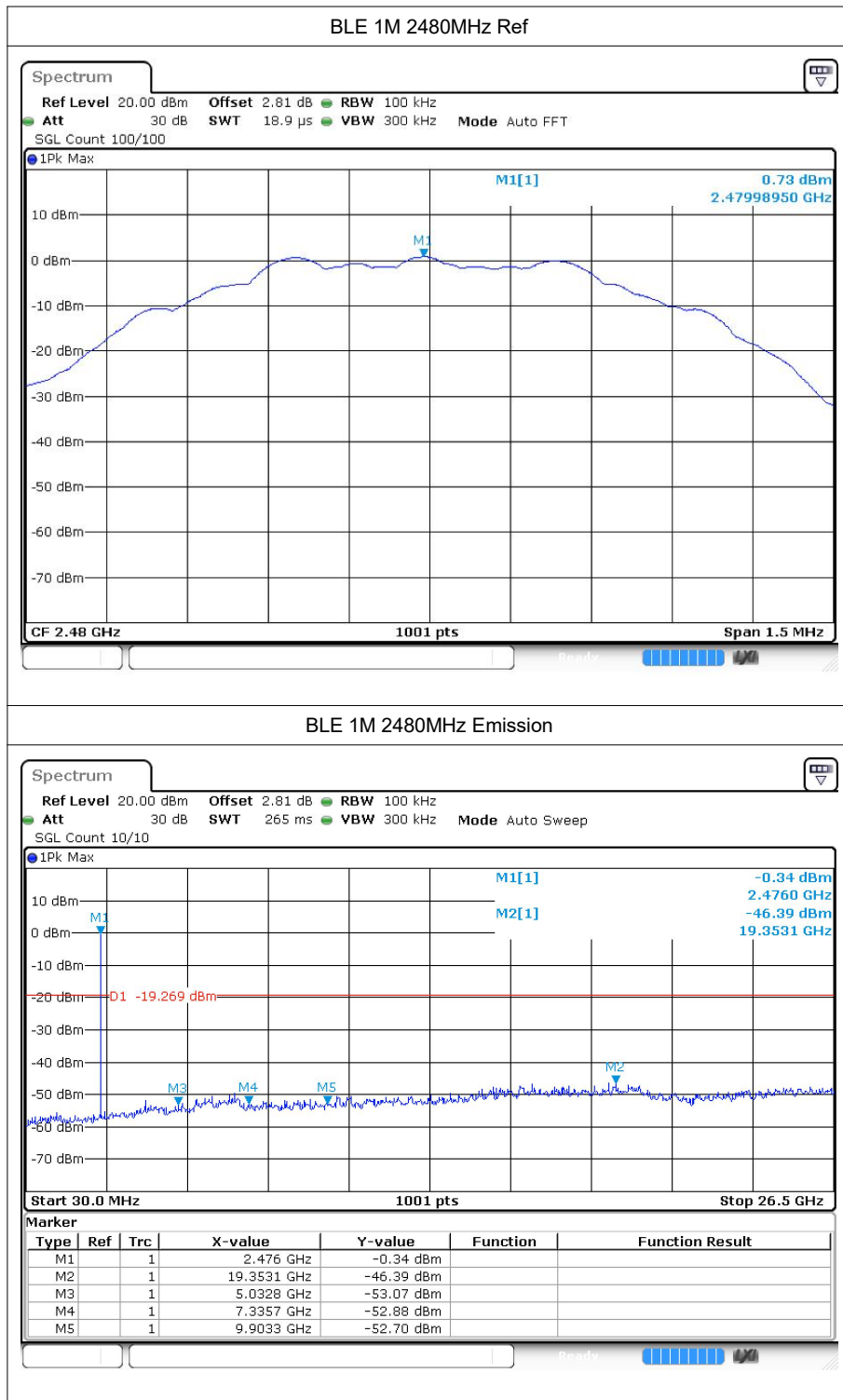
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-48.41	-20	Pass
BLE 1M	2440	-47.57	-20	Pass
BLE 1M	2480	-47.11	-20	Pass



## 6.2 Test Graphs









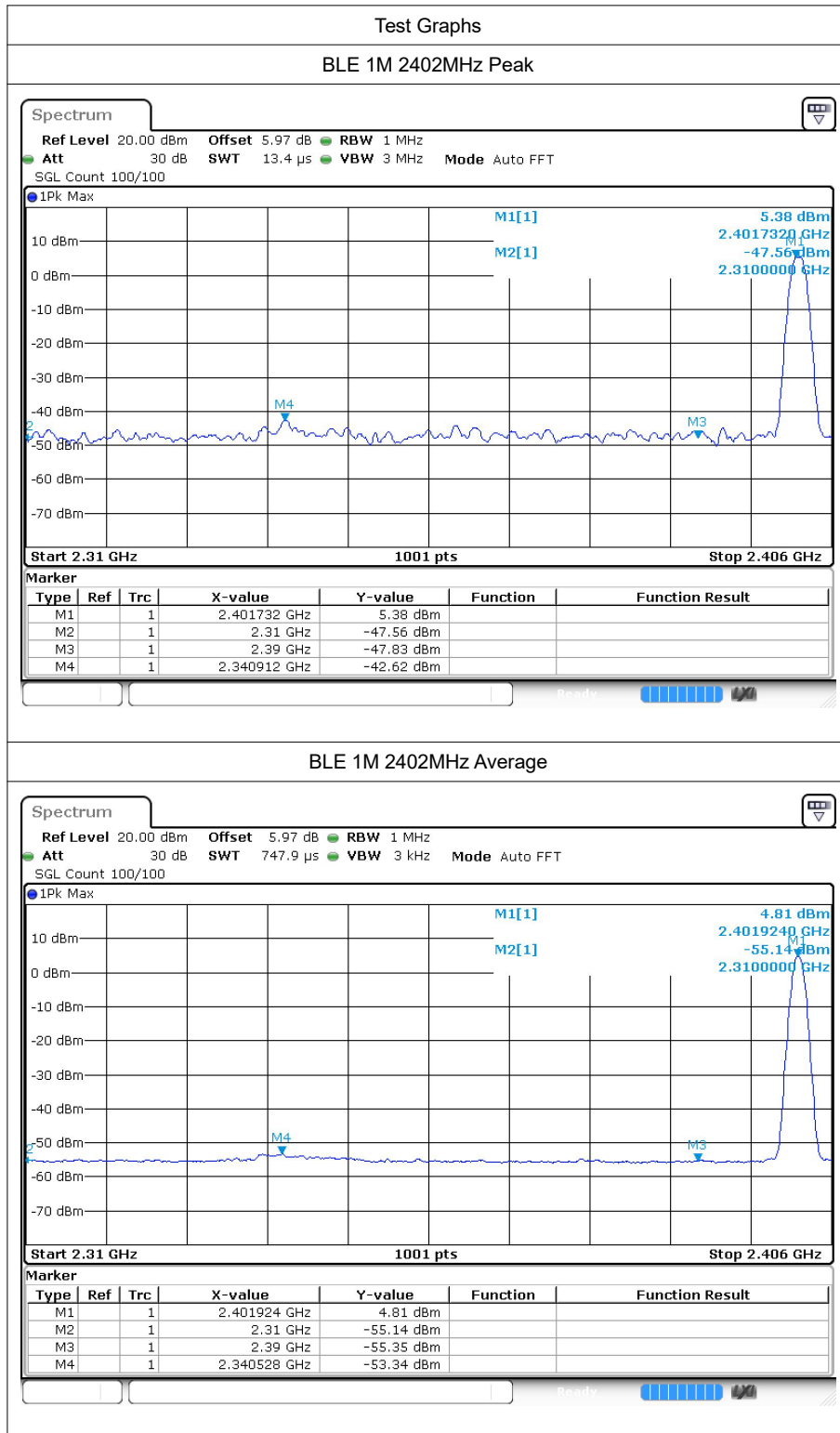
## 7 Restrict Band

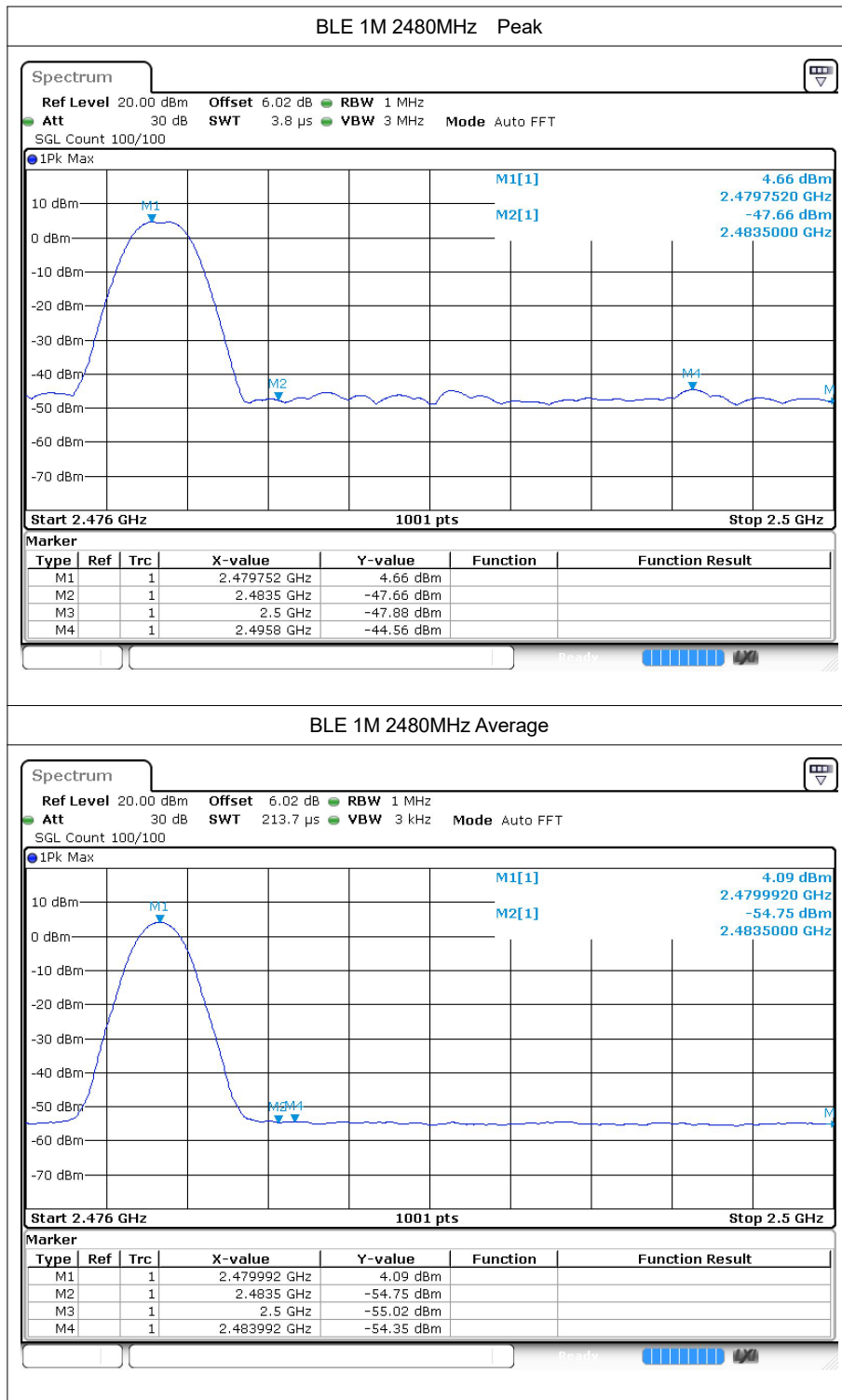
### 7.1 Test Result

Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
BLE 1M	2402	2310	-47.55	3.21	50.89	Peak	74	Pass
BLE 1M	2402	2310	-55.14	3.21	43.3	Average	54	Pass
BLE 1M	2402	2340.912	-42.61	3.21	55.83	Peak	74	Pass
BLE 1M	2402	2340.528	-53.33	3.21	45.11	Average	54	Pass
BLE 1M	2402	2390	-47.82	3.21	50.62	Peak	74	Pass
BLE 1M	2402	2390	-55.35	3.21	43.09	Average	54	Pass
BLE 1M	2480	2483.5	-47.72	3.21	50.72	Peak	74	Pass
BLE 1M	2480	2483.5	-54.78	3.21	43.66	Average	54	Pass
BLE 1M	2480	2495.8	-44.55	3.21	53.89	Peak	74	Pass
BLE 1M	2480	2483.992	-54.34	3.21	44.1	Average	54	Pass
BLE 1M	2480	2500	-47.87	3.21	50.57	Peak	74	Pass
BLE 1M	2480	2500	-55.02	3.21	43.42	Average	54	Pass



## 7.2 Test Graphs





---The End---