



## Appendix B

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

Product Name: keyboard

Trade Mark: N/A

Test Model: K486

#### Environmental Conditions

|                    |             |
|--------------------|-------------|
| Temperature:       | 24.4° C     |
| Relative Humidity: | 52.2%       |
| ATM Pressure:      | 100.0 kPa   |
| Test Engineer:     | Simba Huang |
| Supervised by:     | Seal Chen   |



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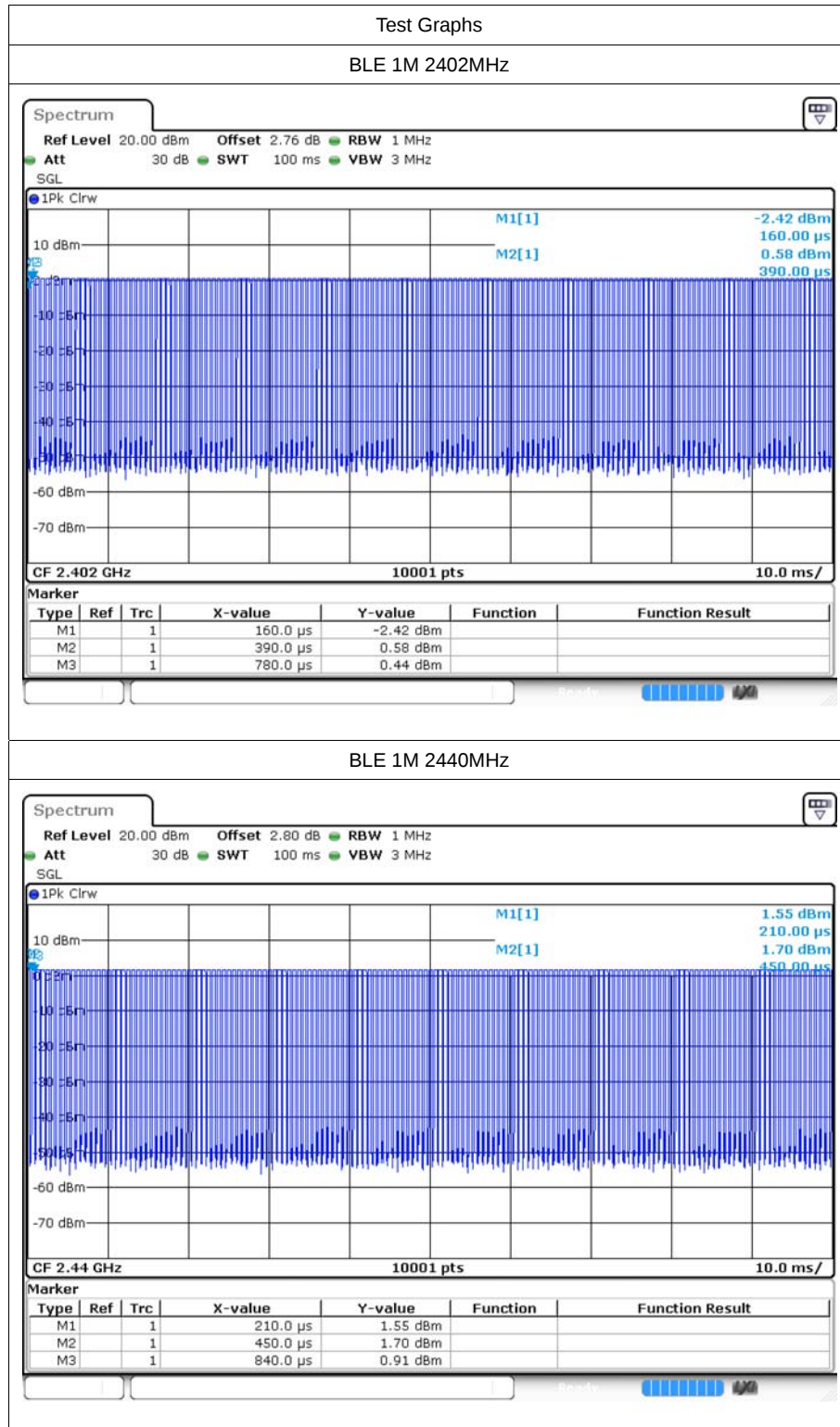


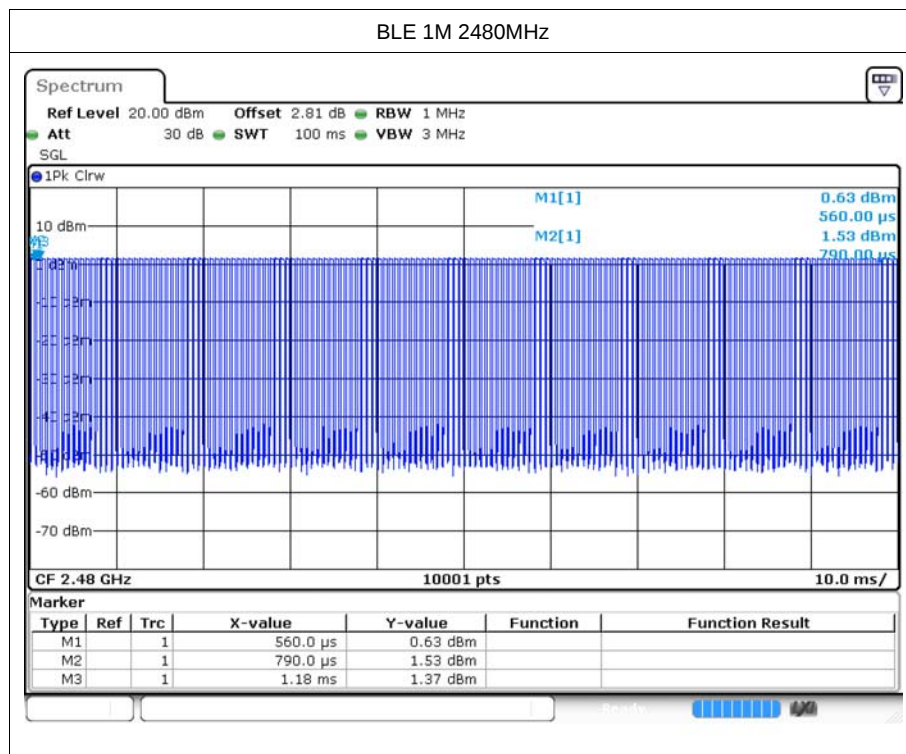
# 1 Duty Cycle

## 1.1 Test Result

| Mode   | Frequency (MHz) | Duty Cycle (%) | 1/T (kHz) |
|--------|-----------------|----------------|-----------|
| BLE 1M | 2402            | 64.27          | 2.56      |
| BLE 1M | 2440            | 64             | 2.56      |
| BLE 1M | 2480            | 63.99          | 2.56      |

## 1.2 Test Graphs





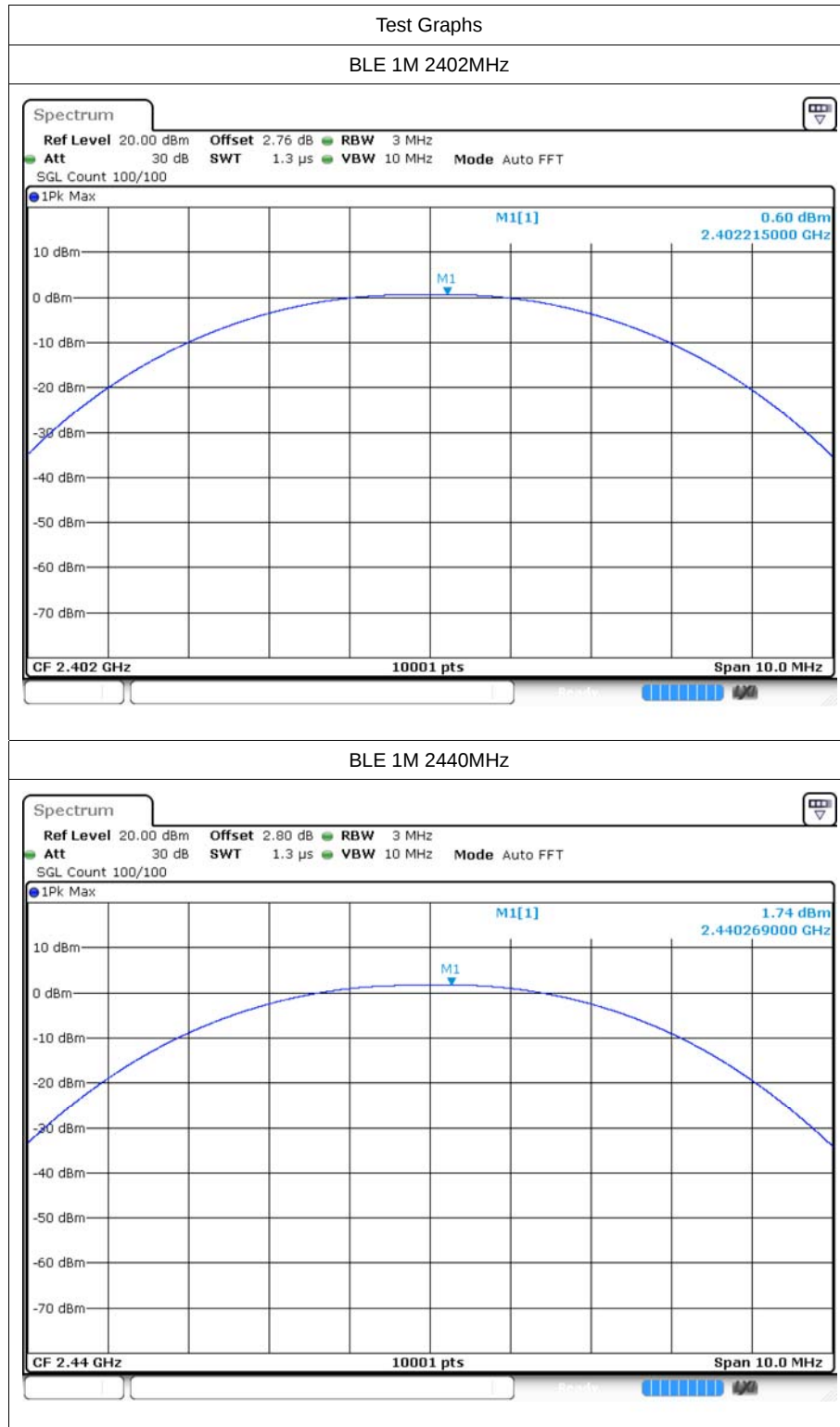


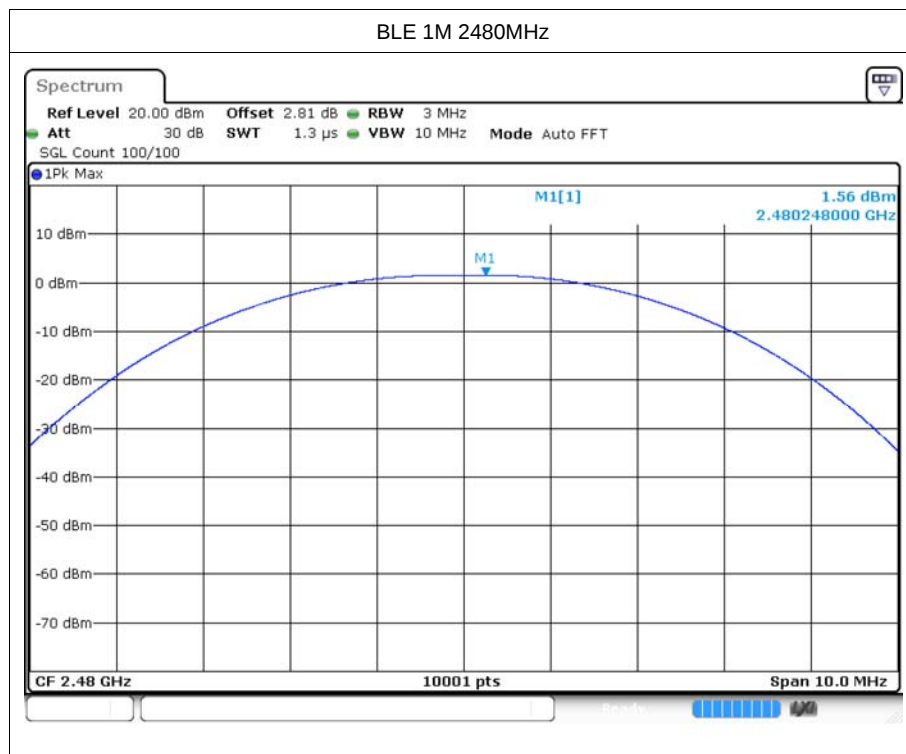
## 2 Maximum Conducted Output Power

### 2.1 Test Result

| Mode   | Frequency (MHz) | Conducted Power<br>(dBm) | Limit (dBm) | Verdict |
|--------|-----------------|--------------------------|-------------|---------|
| BLE 1M | 2402            | 0.6                      | 30          | Pass    |
| BLE 1M | 2440            | 1.74                     | 30          | Pass    |
| BLE 1M | 2480            | 1.56                     | 30          | Pass    |

## 2.2 Test Graphs





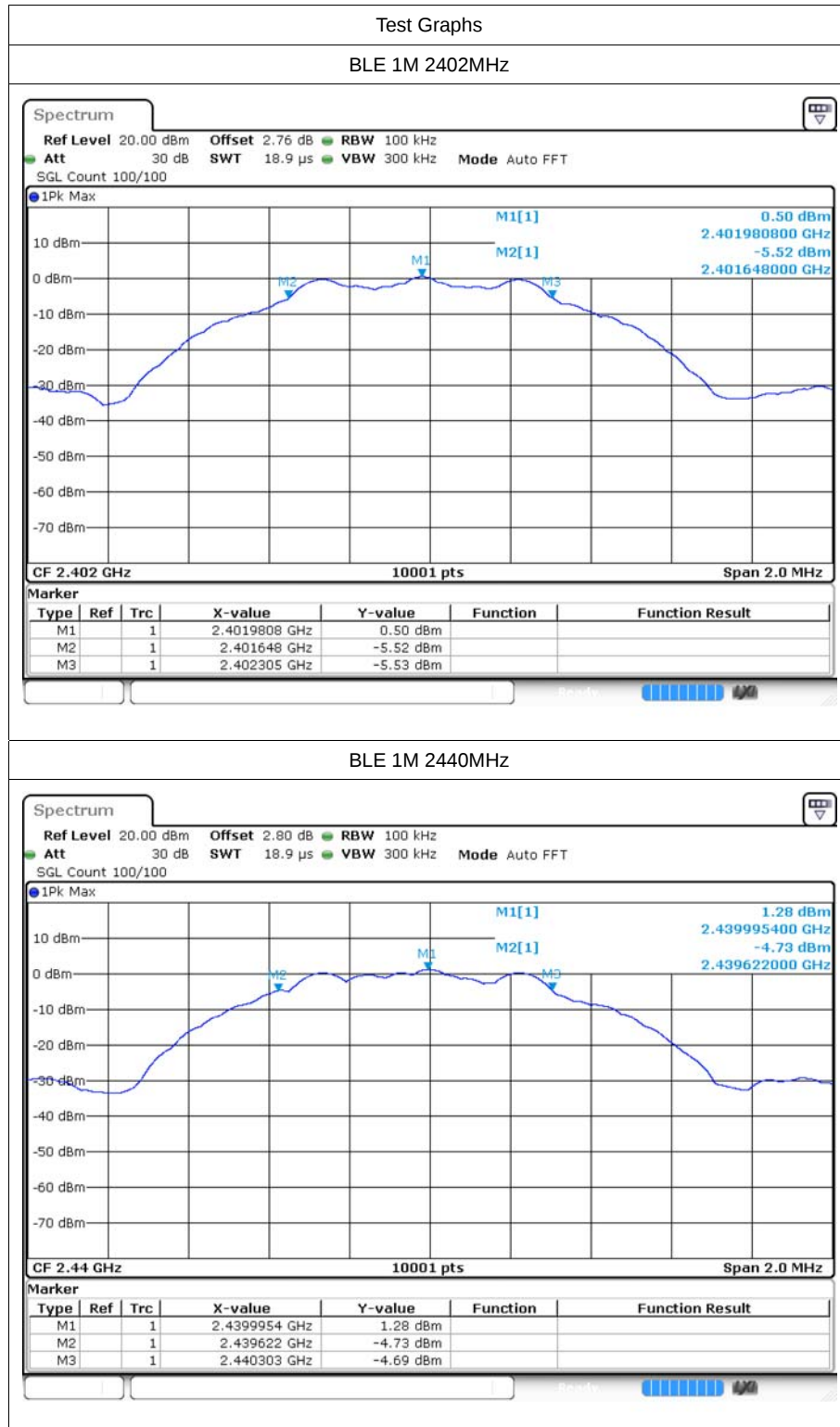


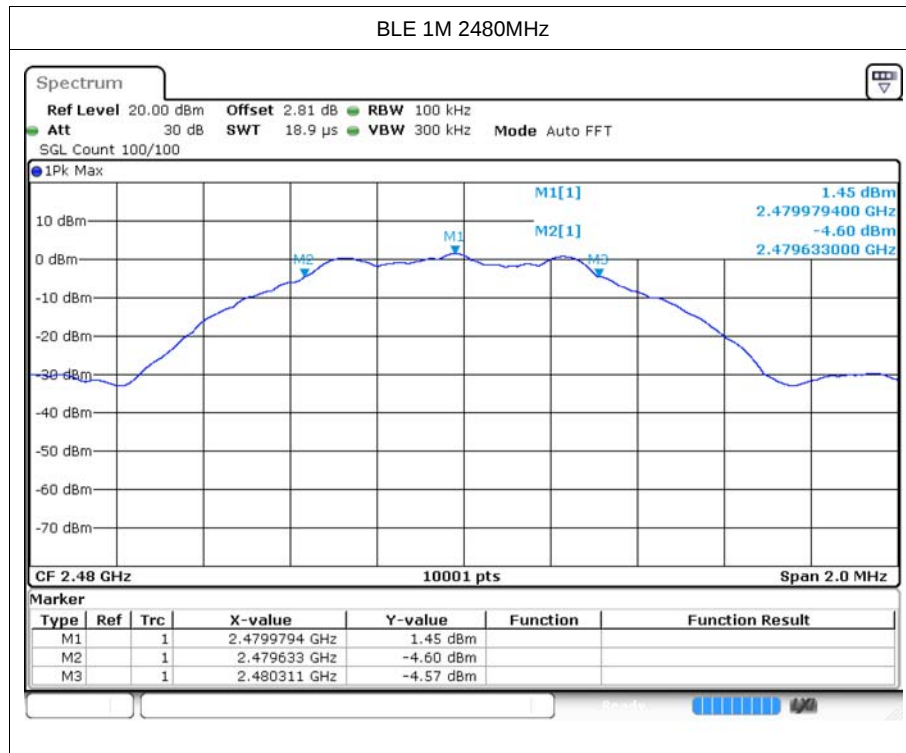
### 3 -6dB Bandwidth

#### 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            | 0.681                 | 0.5                         | Pass    |
| BLE 1M | 2480            | 0.678                 | 0.5                         | Pass    |

### 3.2 Test Graphs



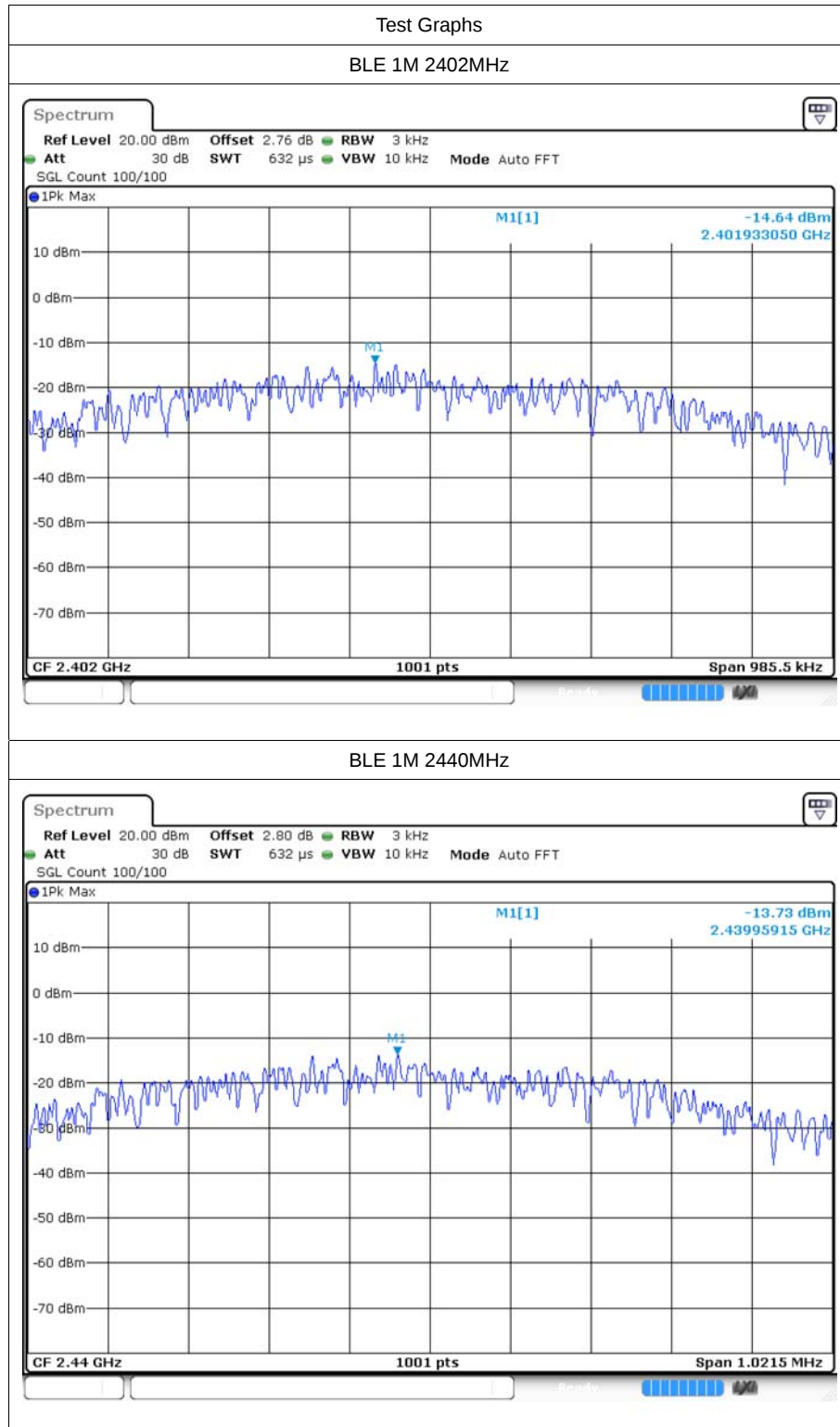


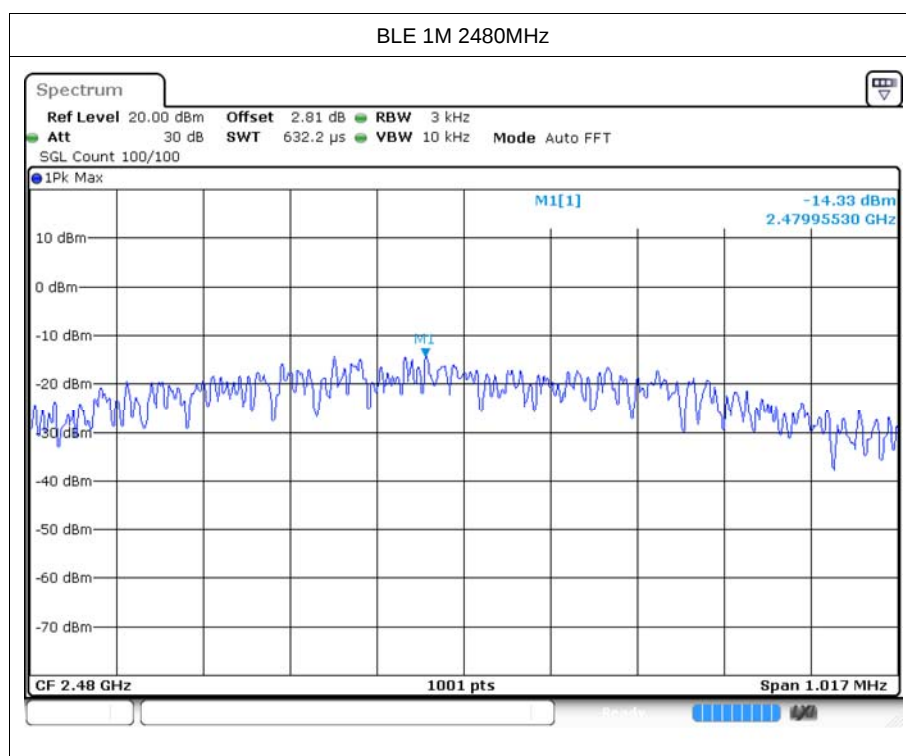
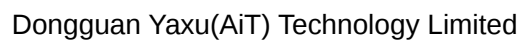
## 4 Maximum Power Spectral Density Level

### 4.1 Test Result

| Mode   | Frequency (MHz) | Conducted PSD<br>(dBm/3-100kHz) | Limit<br>(dBm/3kHz) | Verdict |
|--------|-----------------|---------------------------------|---------------------|---------|
| BLE 1M | 2402            | -14.64                          | $\leq 8$            | Pass    |
| BLE 1M | 2440            | -13.73                          | $\leq 8$            | Pass    |
| BLE 1M | 2480            | -14.33                          | $\leq 8$            | Pass    |

## 4.2 Test Graphs





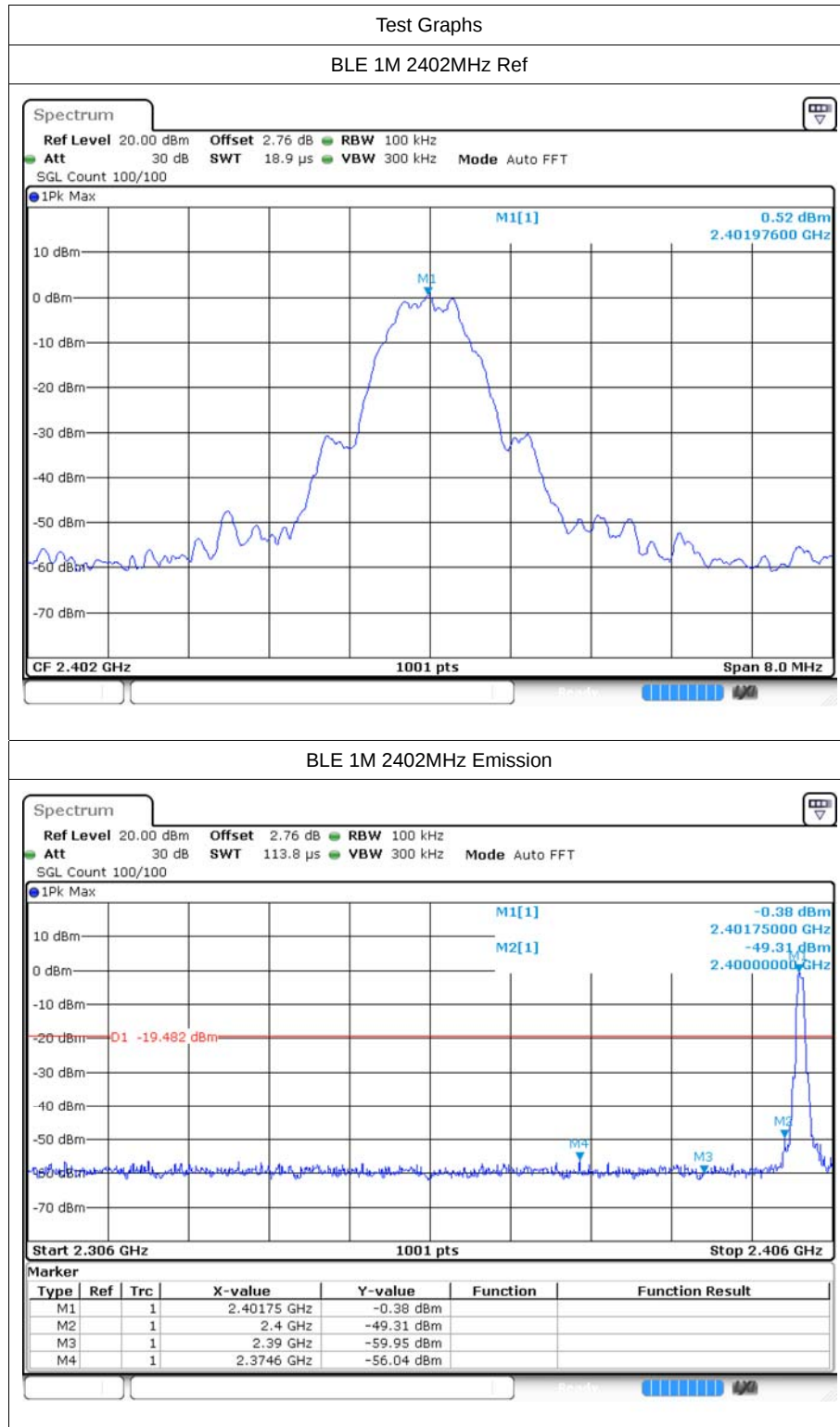


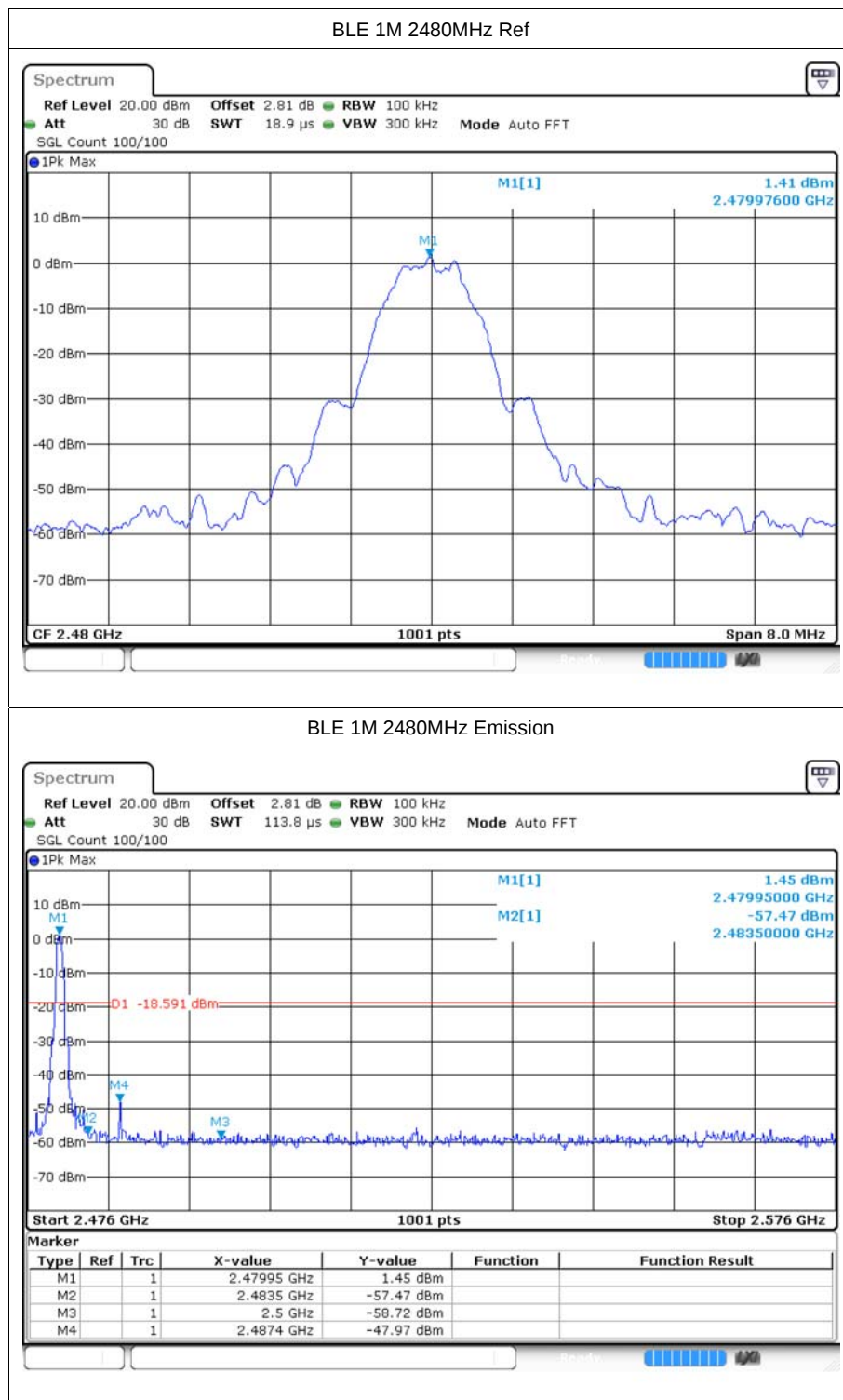
## 5 Band Edge

### 5.1 Test Result

| Mode   | Frequency (MHz) | Max Value (dBc) | Limit (dBc) | Verdict |
|--------|-----------------|-----------------|-------------|---------|
| BLE 1M | 2402            | -56.55          | -20         | Pass    |
| BLE 1M | 2480            | -49.37          | -20         | Pass    |

## 5.2 Test Graphs





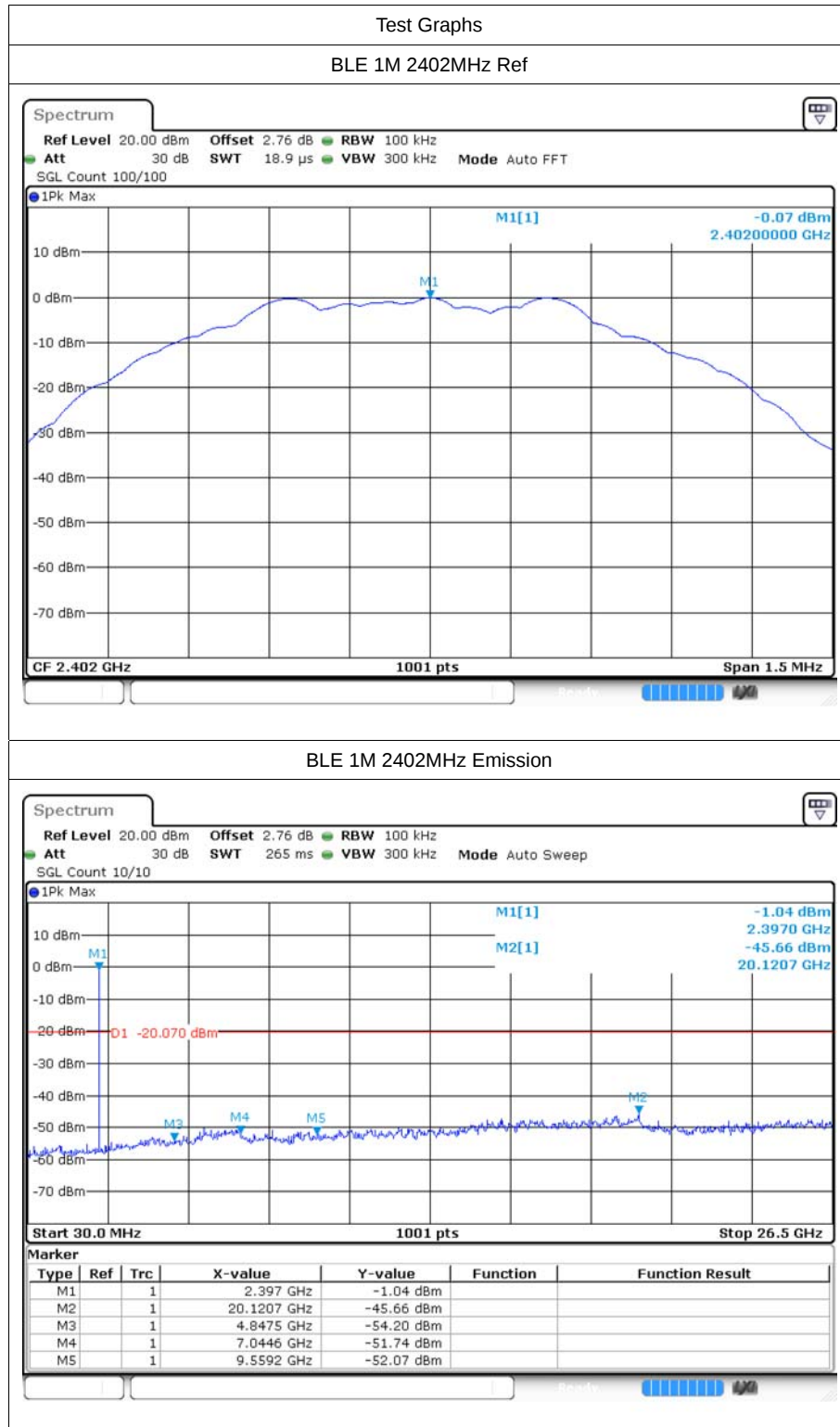


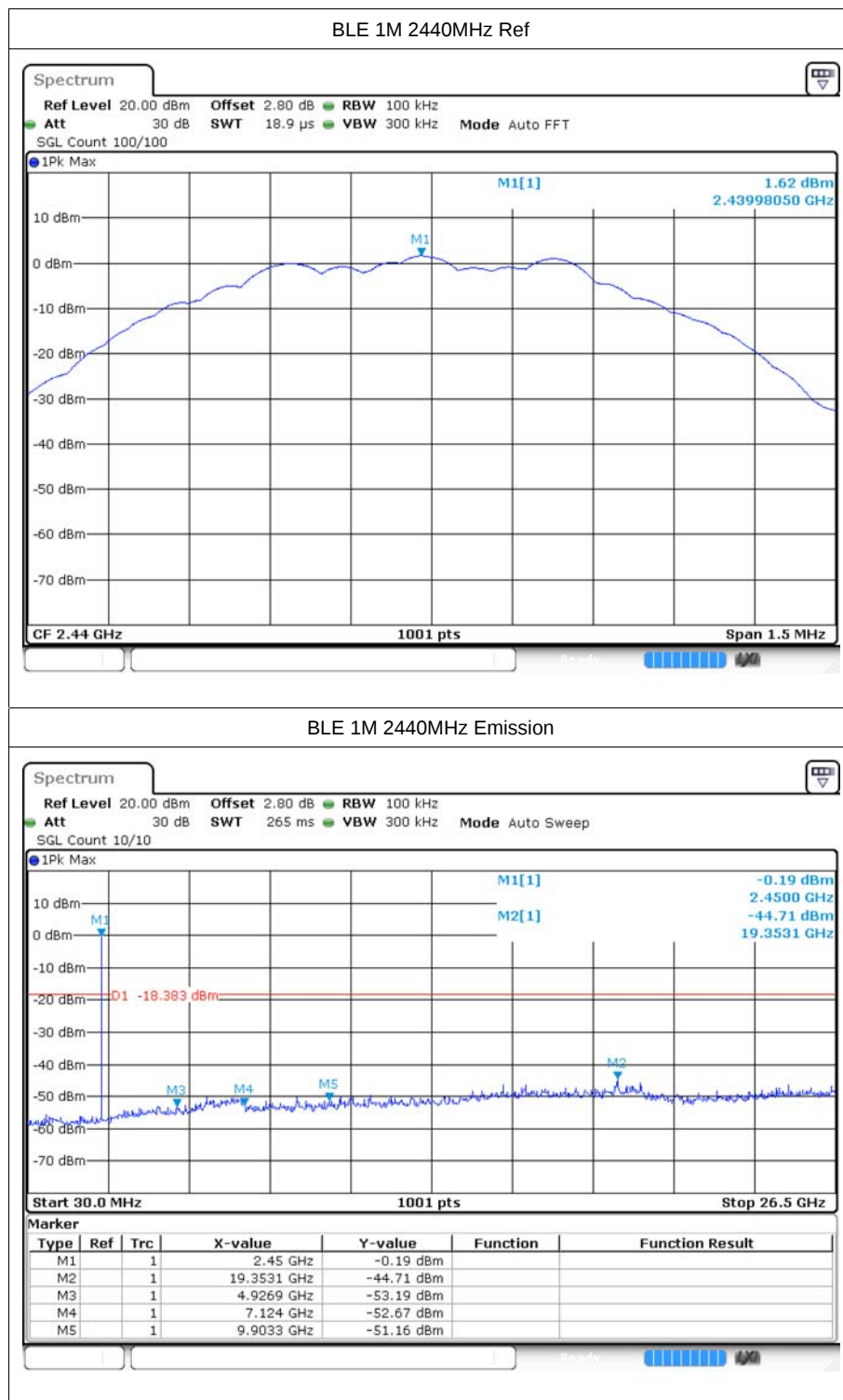
## 6 Conducted RF Spurious Emission

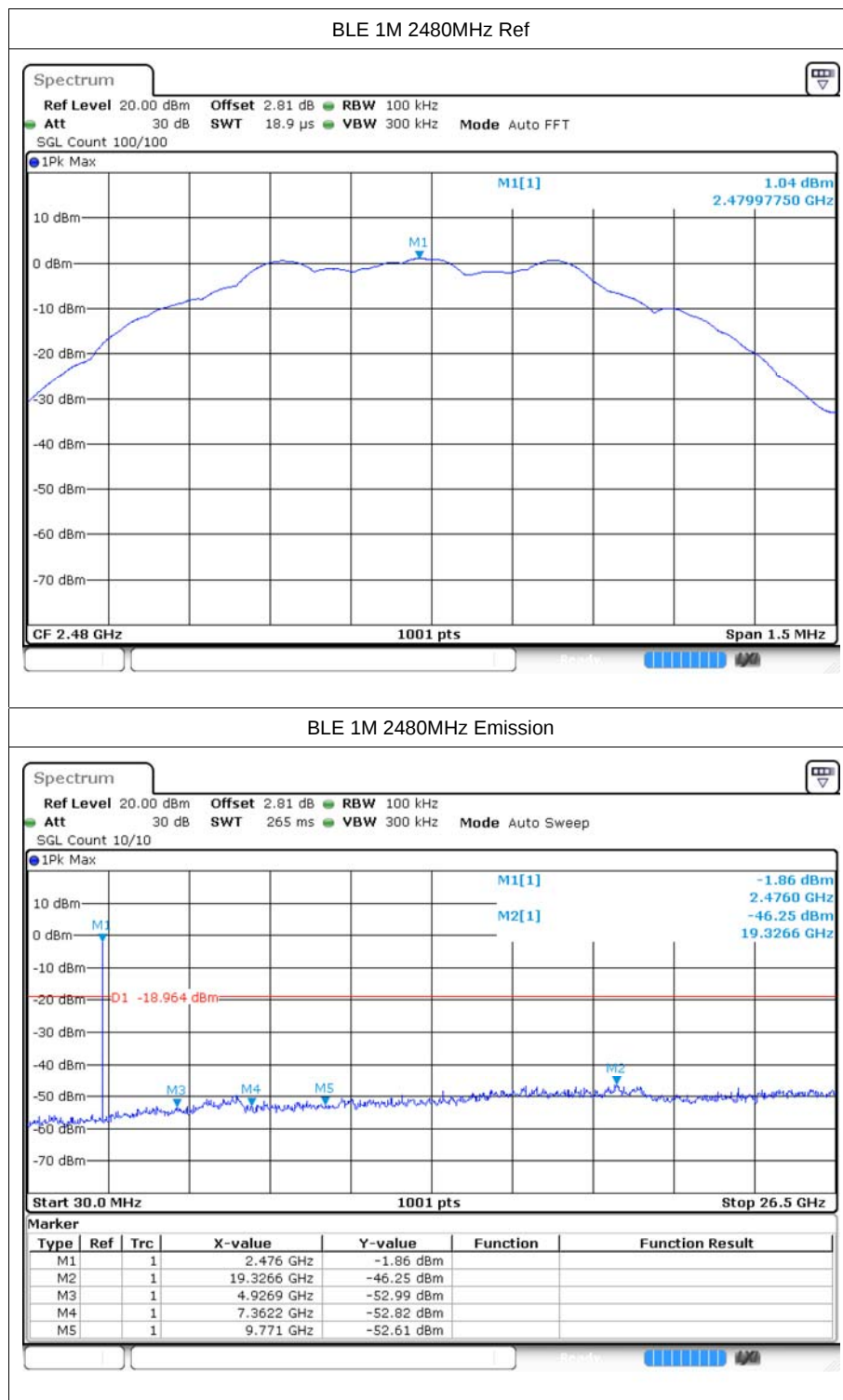
### 6.1 Test Result

| Mode   | Frequency (MHz) | Max Value (dBc) | Limit (dBc) | Verdict |
|--------|-----------------|-----------------|-------------|---------|
| BLE 1M | 2402            | -45.59          | -20         | Pass    |
| BLE 1M | 2440            | -46.33          | -20         | Pass    |
| BLE 1M | 2480            | -47.29          | -20         | Pass    |

## 6.2 Test Graphs







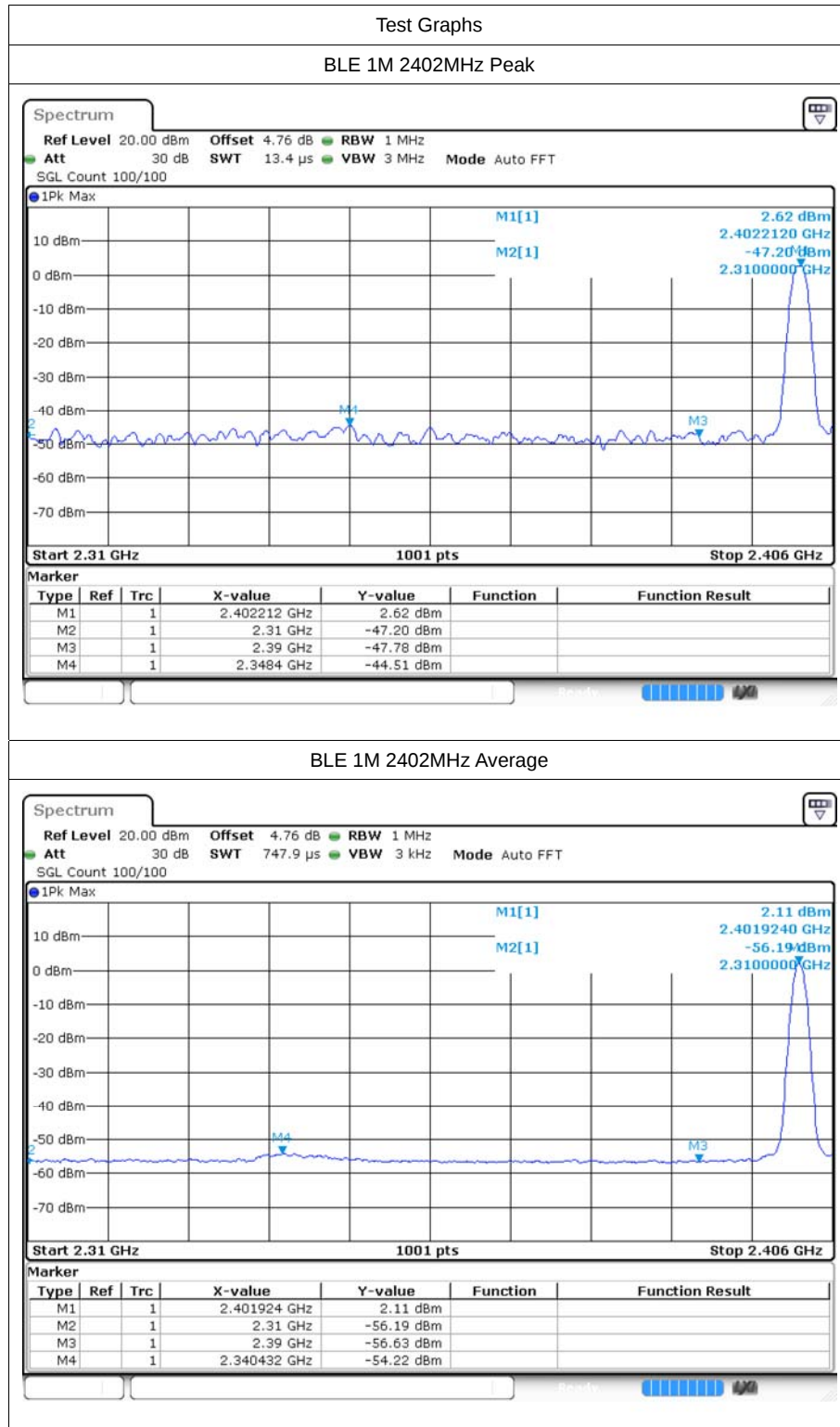


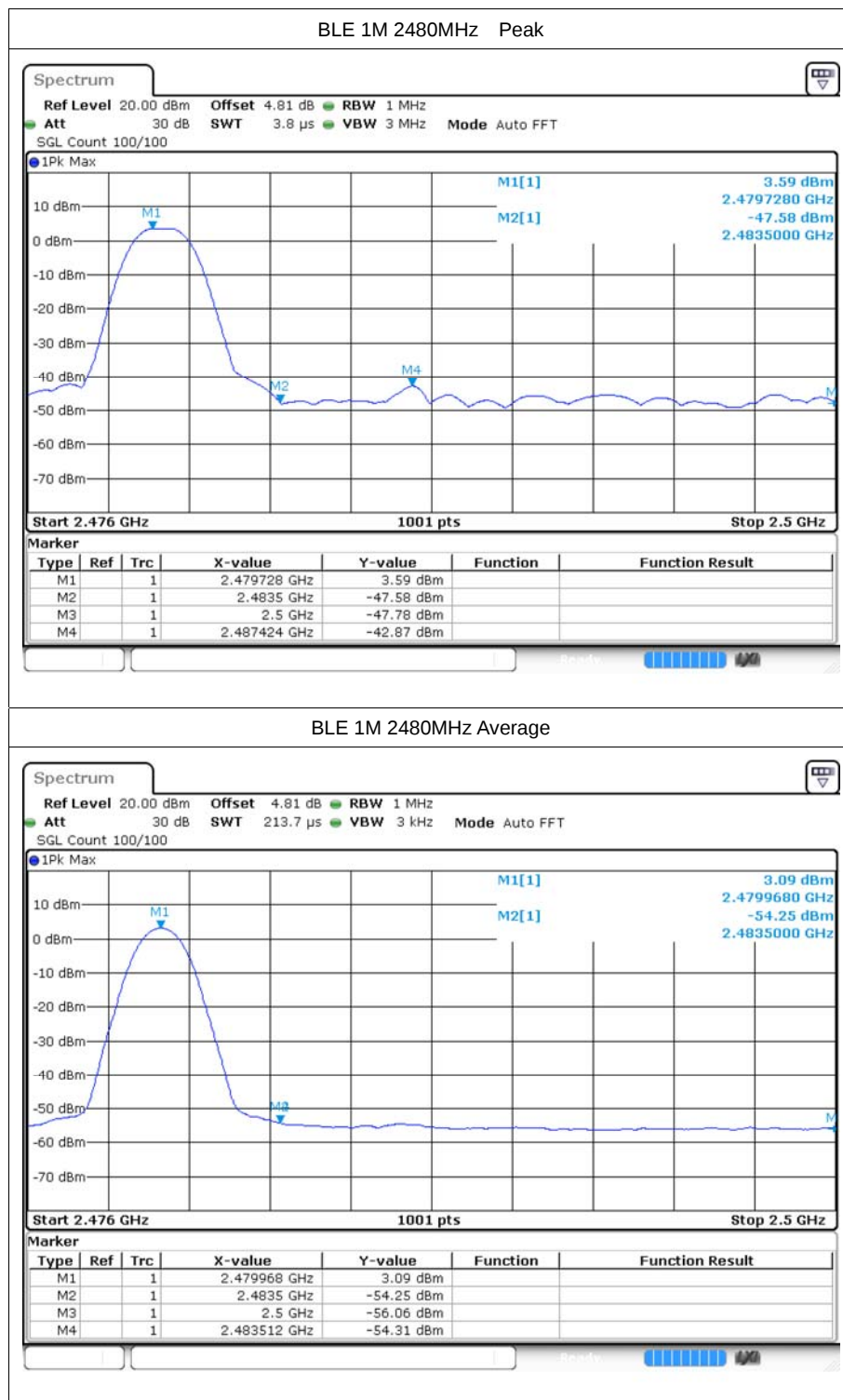
## 7 Restrict Band

### 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            | -47.19      | 2          | 50.07      | Peak     | 74             | Pass    |
| BLE 1M | 2402            | 2310            | -56.19      | 2          | 41.07      | Average  | 54             | Pass    |
| BLE 1M | 2402            | 2348.4          | -44.51      | 2          | 52.75      | Peak     | 74             | Pass    |
| BLE 1M | 2402            | 2340.432        | -54.21      | 2          | 43.05      | Average  | 54             | Pass    |
| BLE 1M | 2402            | 2390            | -47.78      | 2          | 49.48      | Peak     | 74             | Pass    |
| BLE 1M | 2402            | 2390            | -56.63      | 2          | 40.63      | Average  | 54             | Pass    |
| BLE 1M | 2480            | 2483.5          | -47.85      | 2          | 49.41      | Peak     | 74             | Pass    |
| BLE 1M | 2480            | 2483.5          | -54.31      | 2          | 42.95      | Average  | 54             | Pass    |
| BLE 1M | 2480            | 2487.424        | -42.86      | 2          | 54.4       | Peak     | 74             | Pass    |
| BLE 1M | 2480            | 2483.512        | -54.31      | 2          | 42.95      | Average  | 54             | Pass    |
| BLE 1M | 2480            | 2500            | -47.78      | 2          | 49.48      | Peak     | 74             | Pass    |
| BLE 1M | 2480            | 2500            | -56.06      | 2          | 41.2       | Average  | 54             | Pass    |

## 7.2 Test Graphs





---The End---