



## Appendix B\_Test Data

### for BLE

### Conducted Measurement

Product Name: Tablet

Test Model: Tab 11 WIFI

#### 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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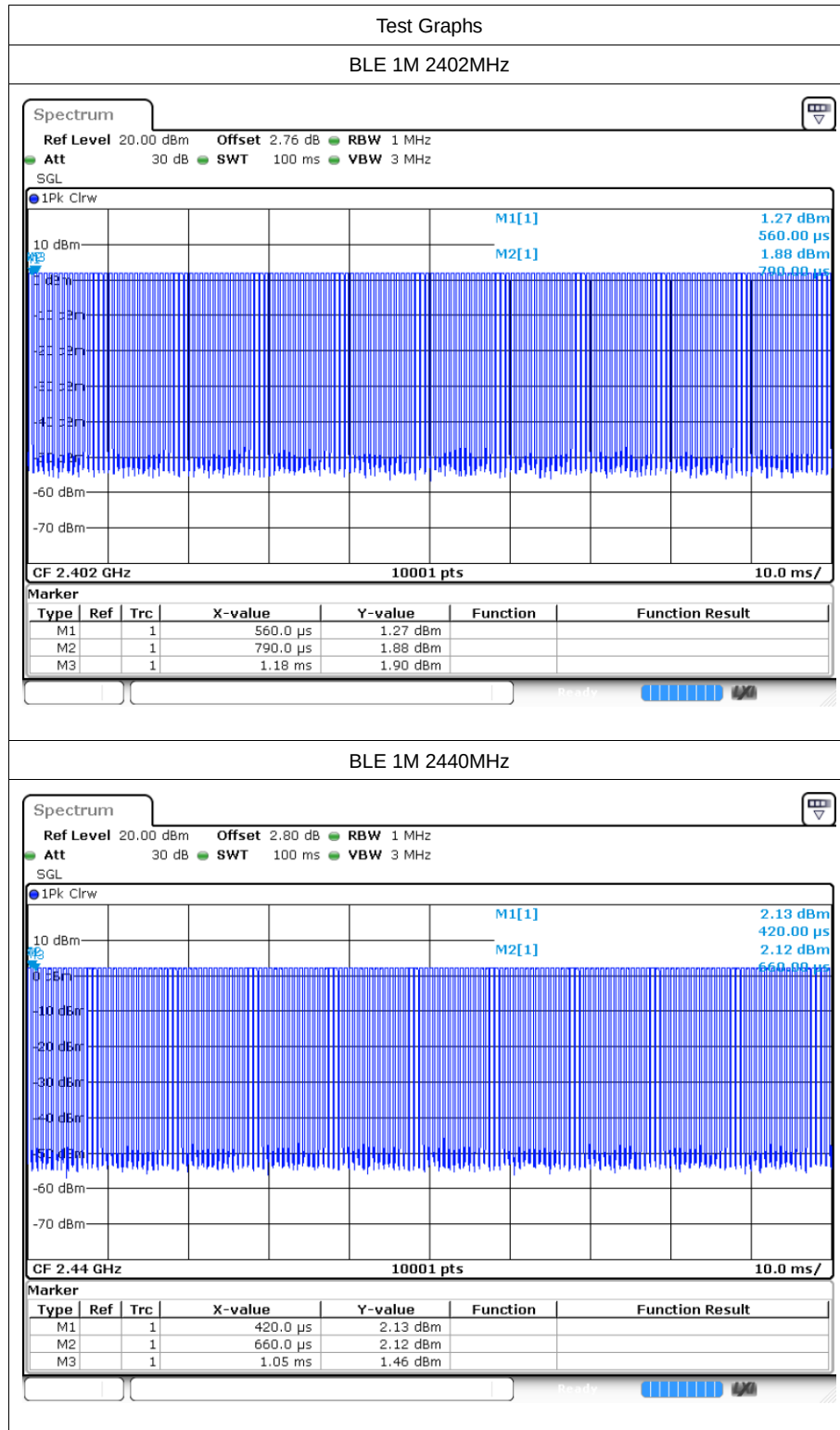


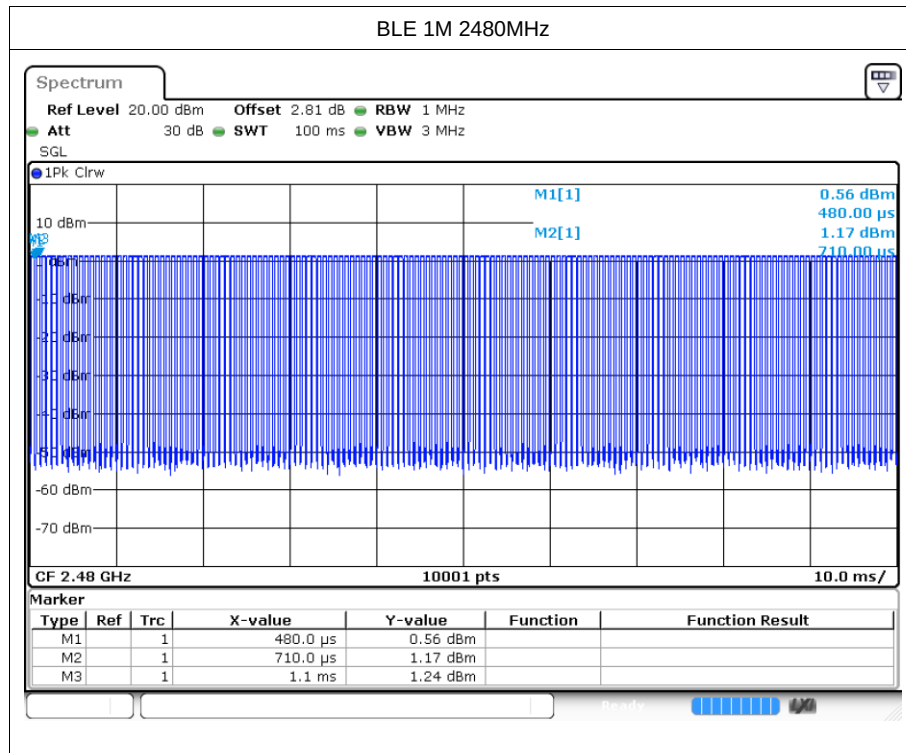
# 1 Duty Cycle

## 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





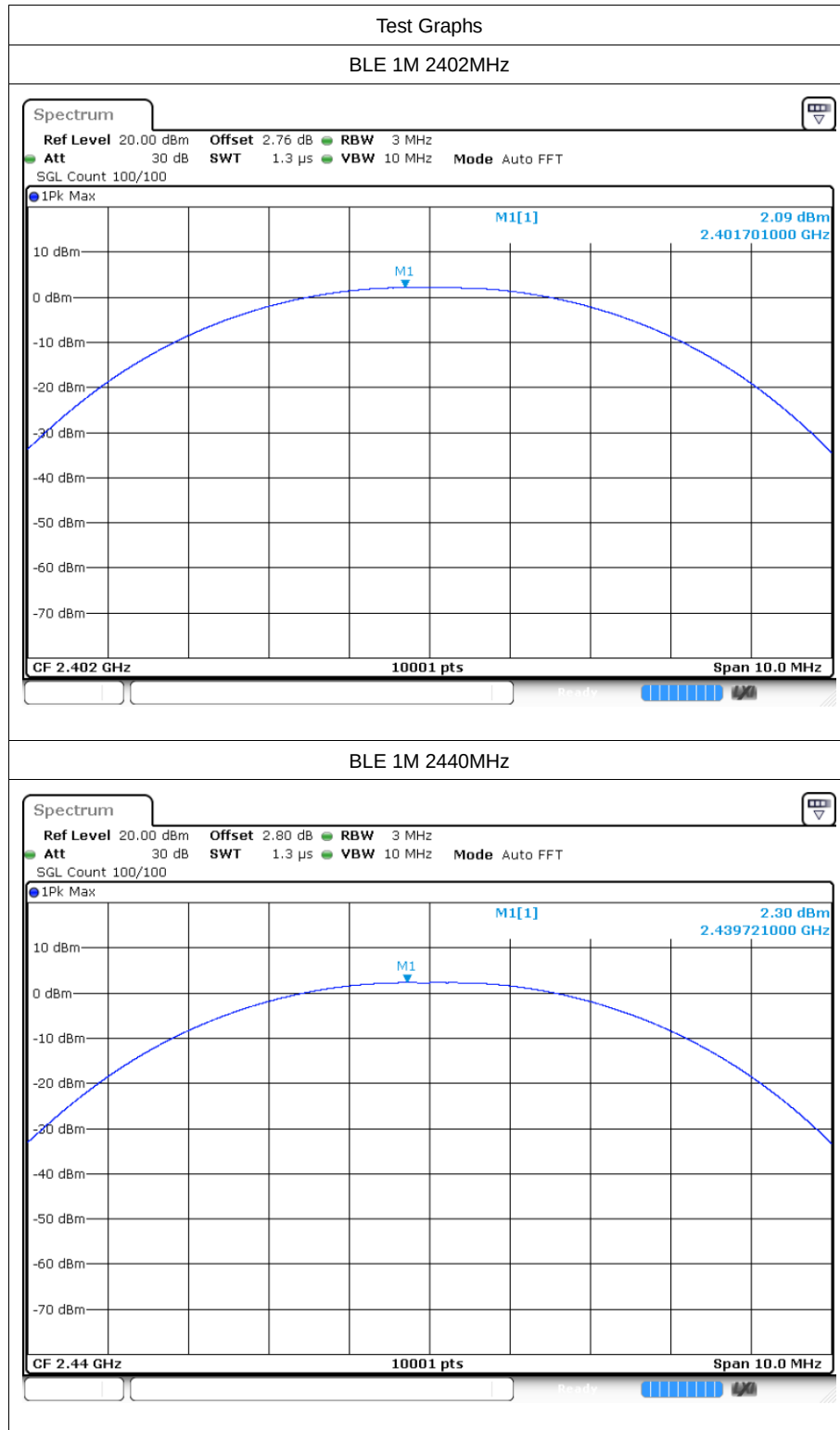


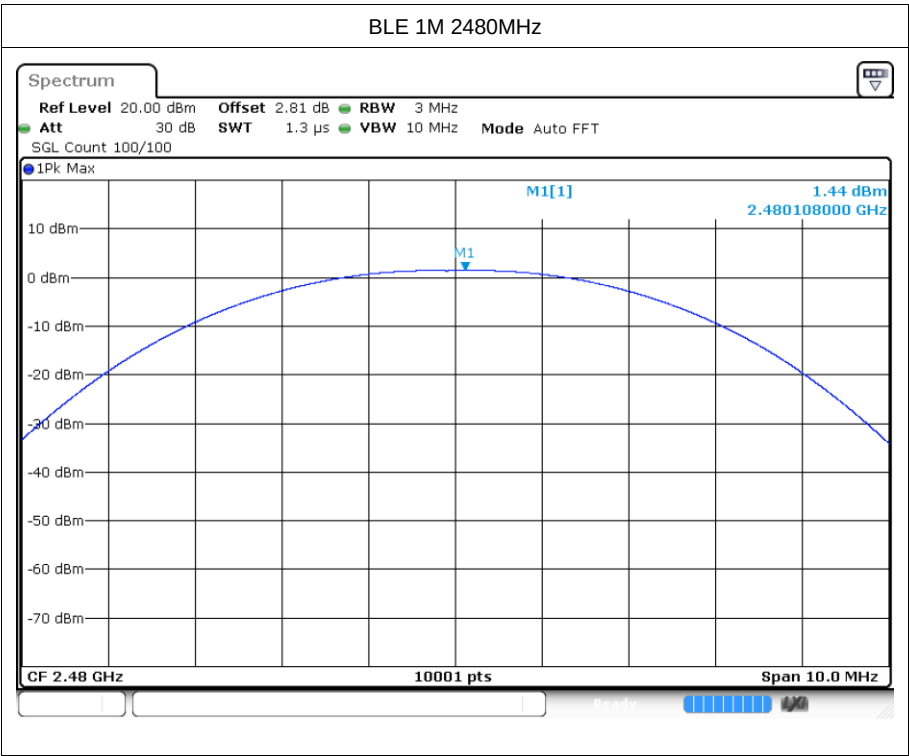
## 2 Maximum Conducted Output Power

### 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







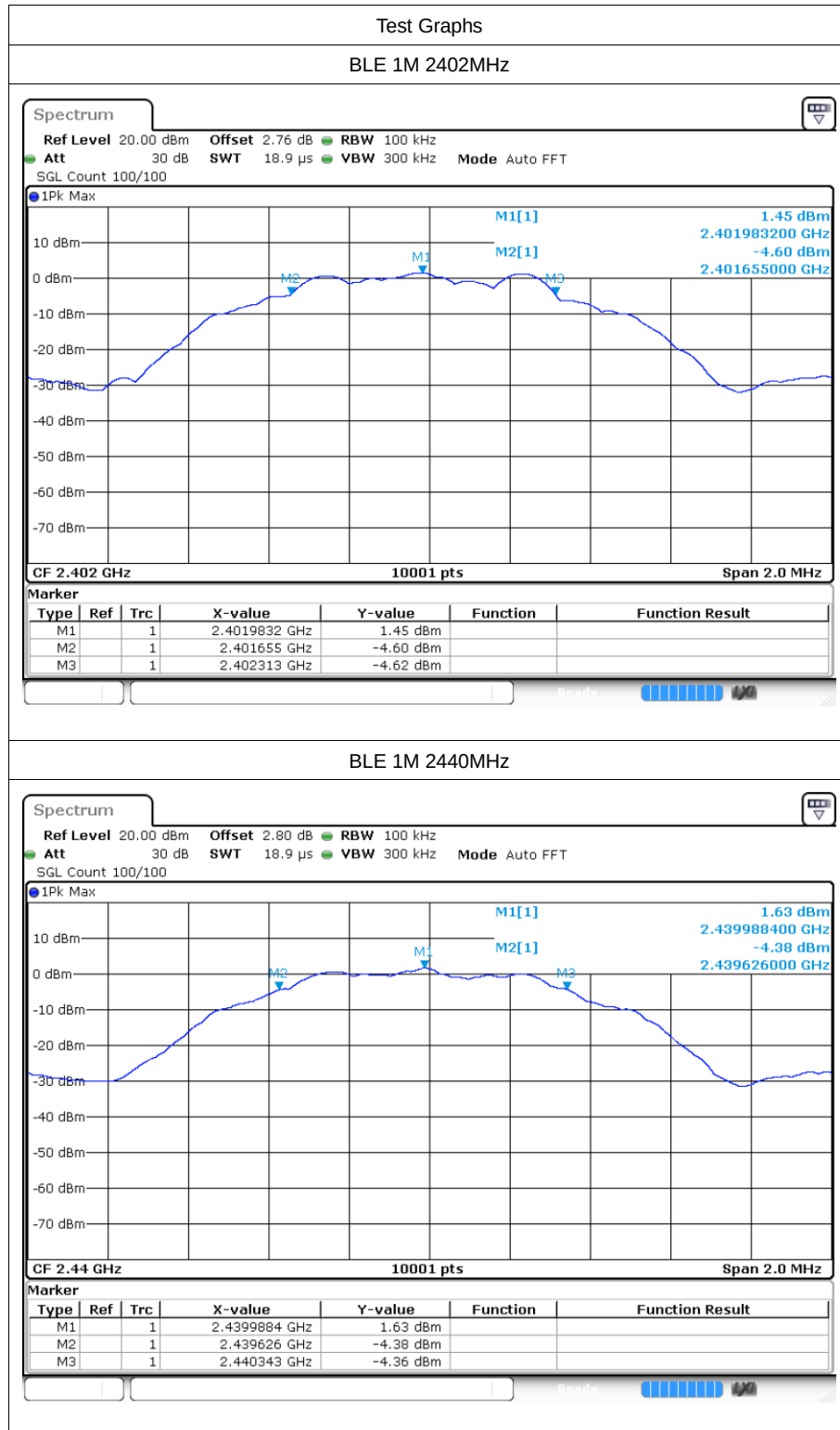


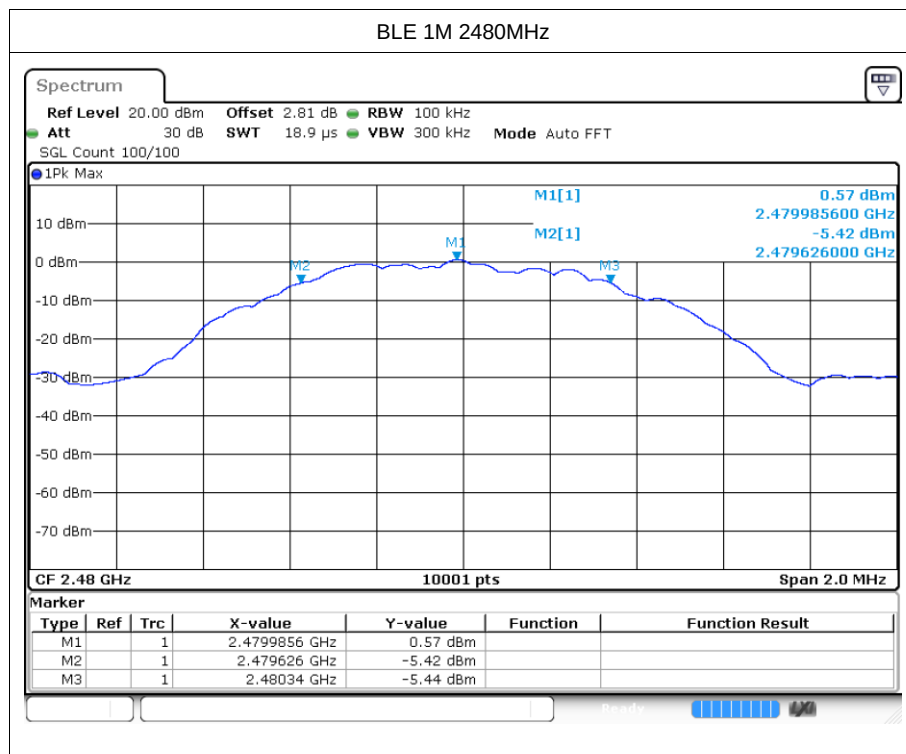
### 3 -6dB Bandwidth

#### 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



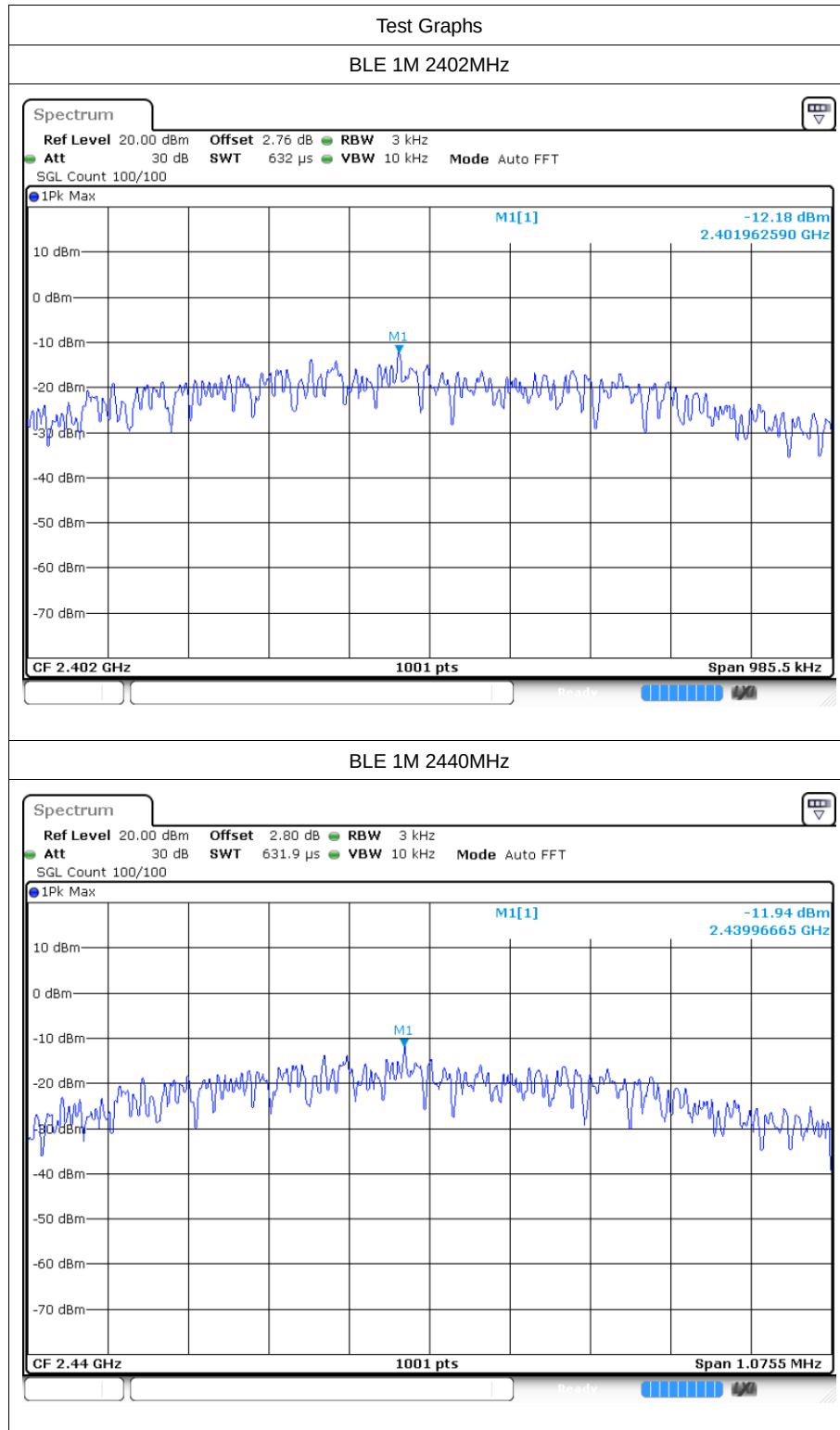


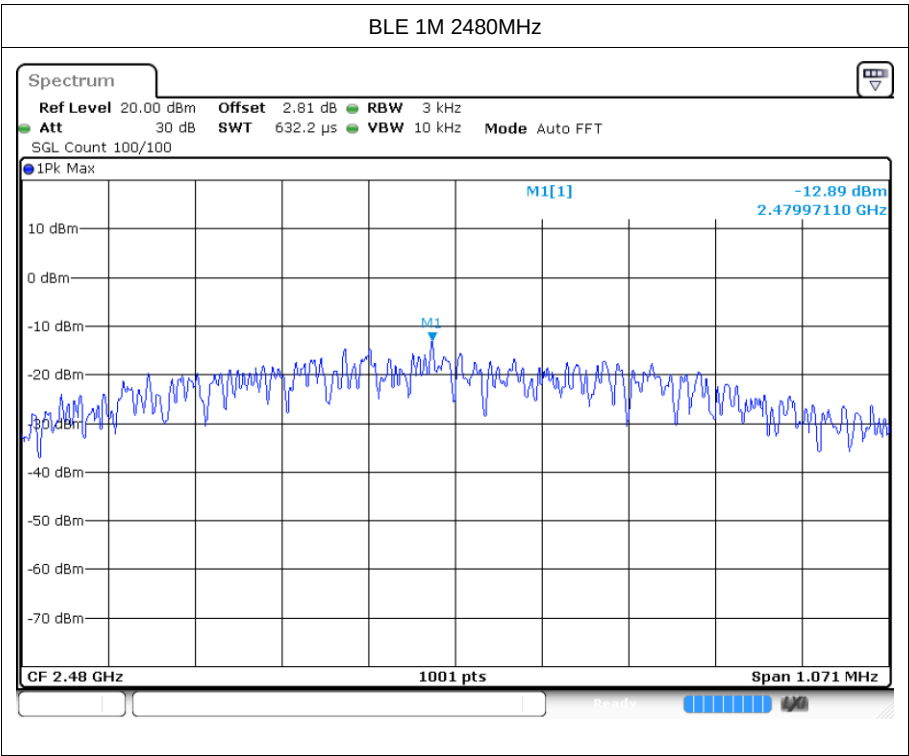
## 4 Maximum Power Spectral Density Level

### 4.1 Test Result

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

## 4.2 Test Graphs





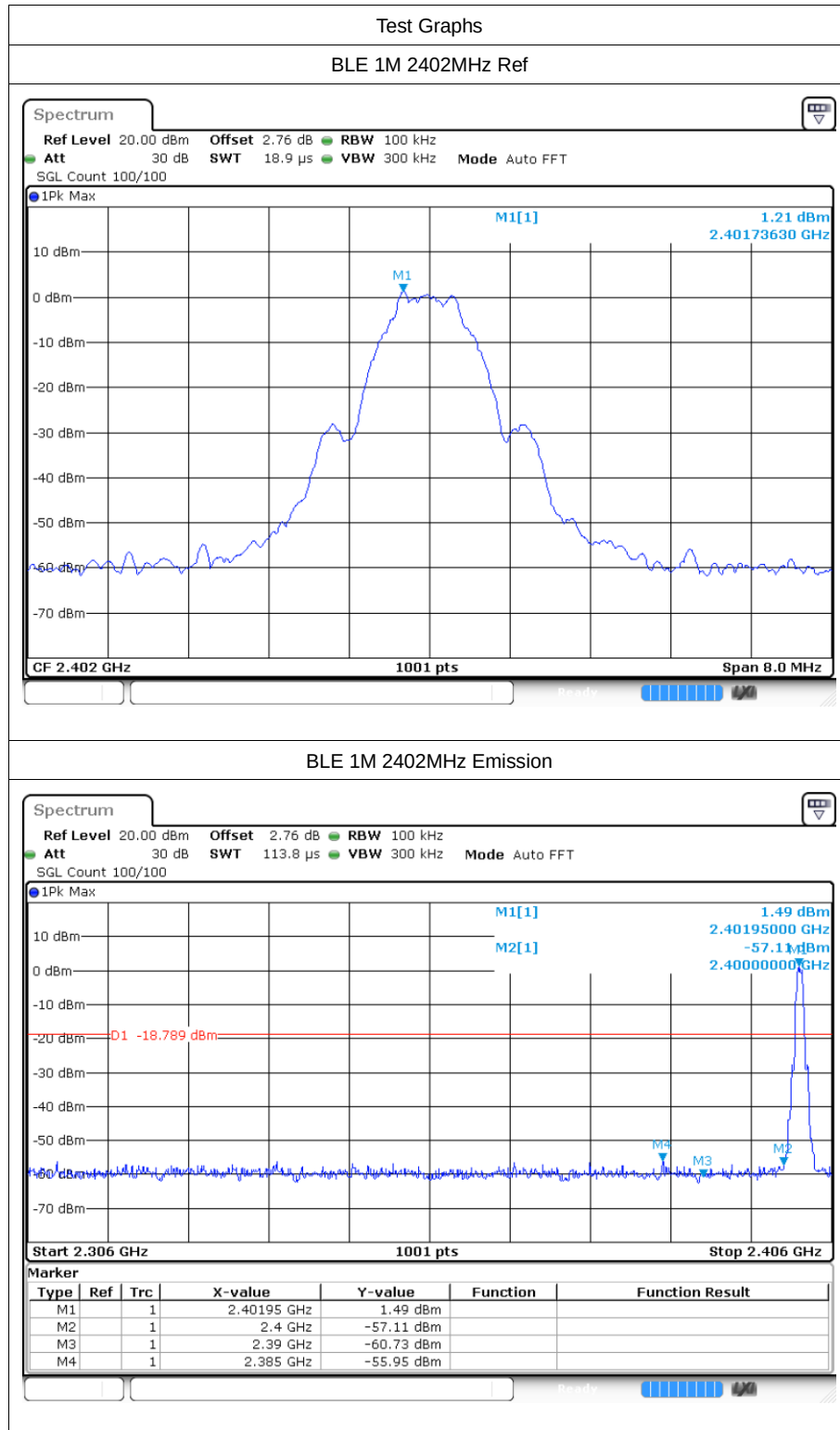


## 5 Band Edge

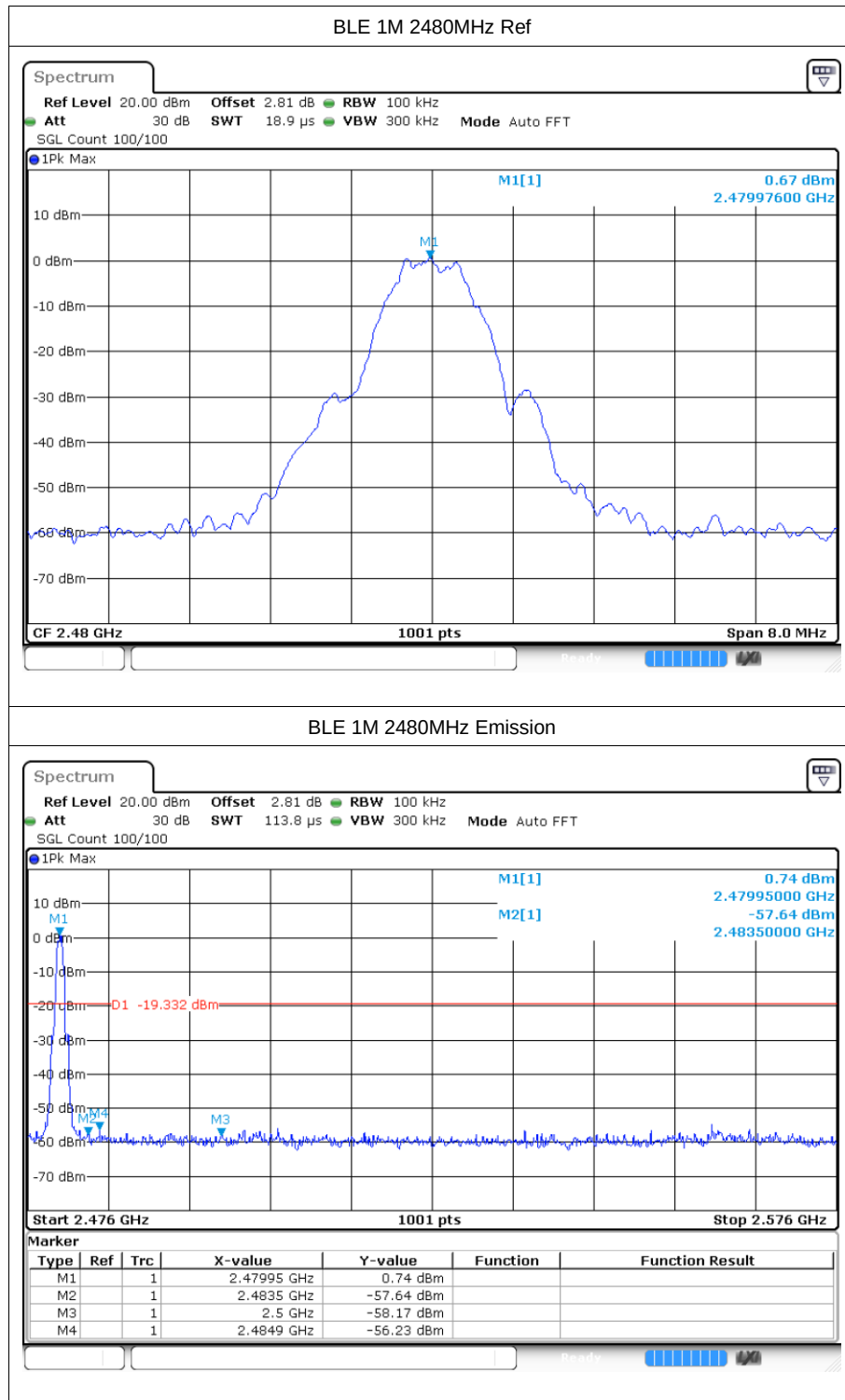
### 5.1 Test Result

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

## 5.2 Test Graphs







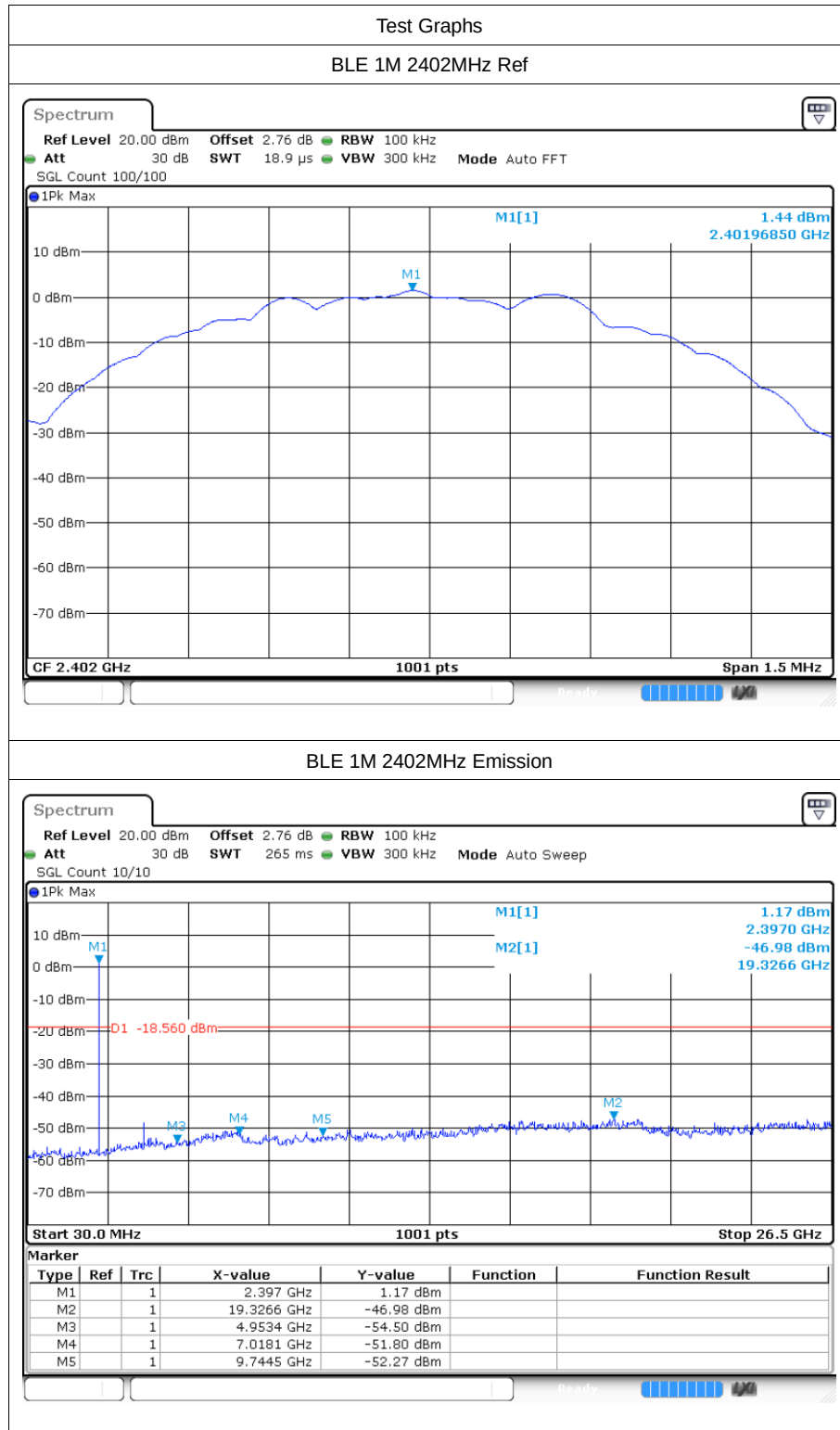


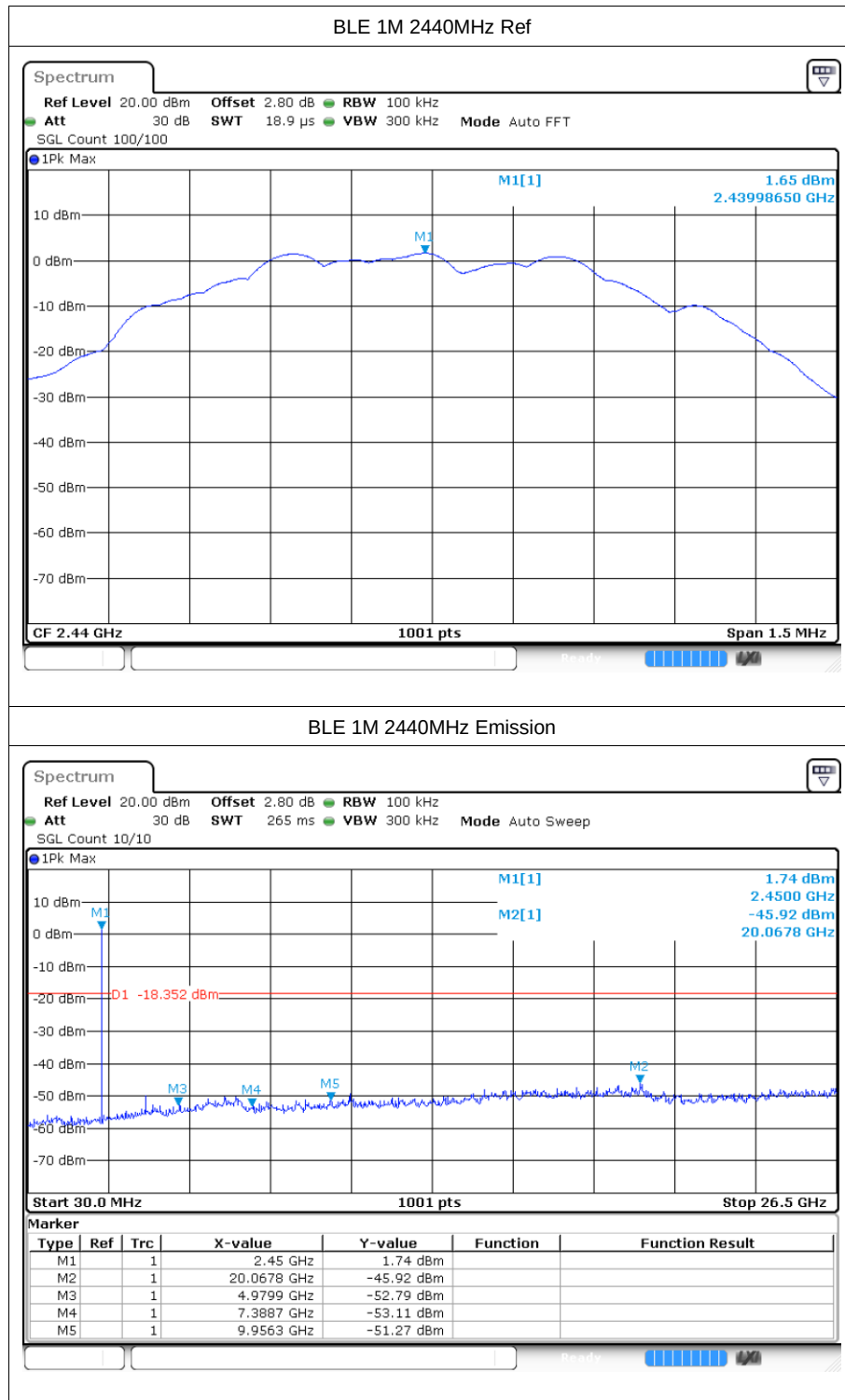
## 6 Conducted RF Spurious Emission

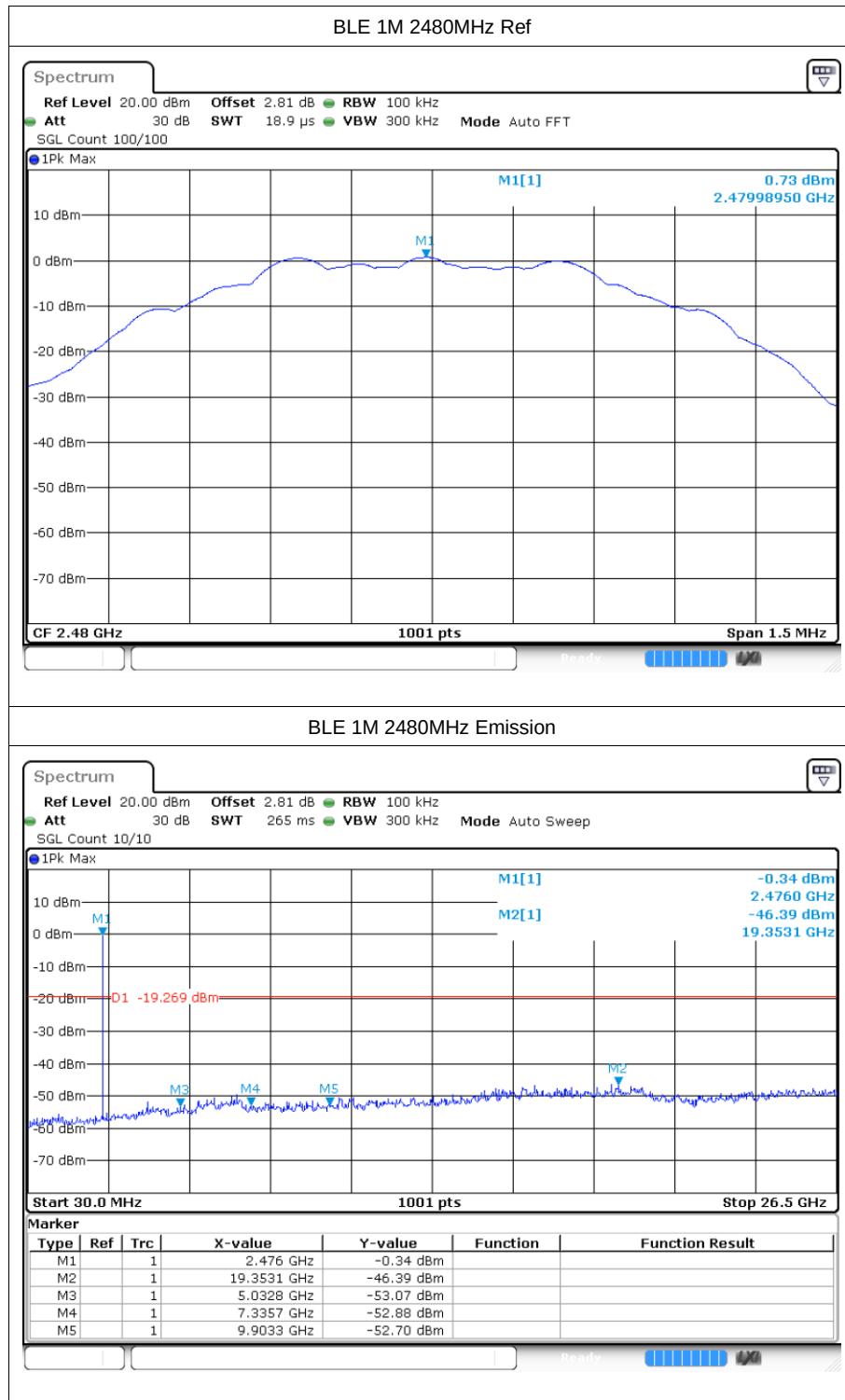
### 6.1 Test Result

| 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





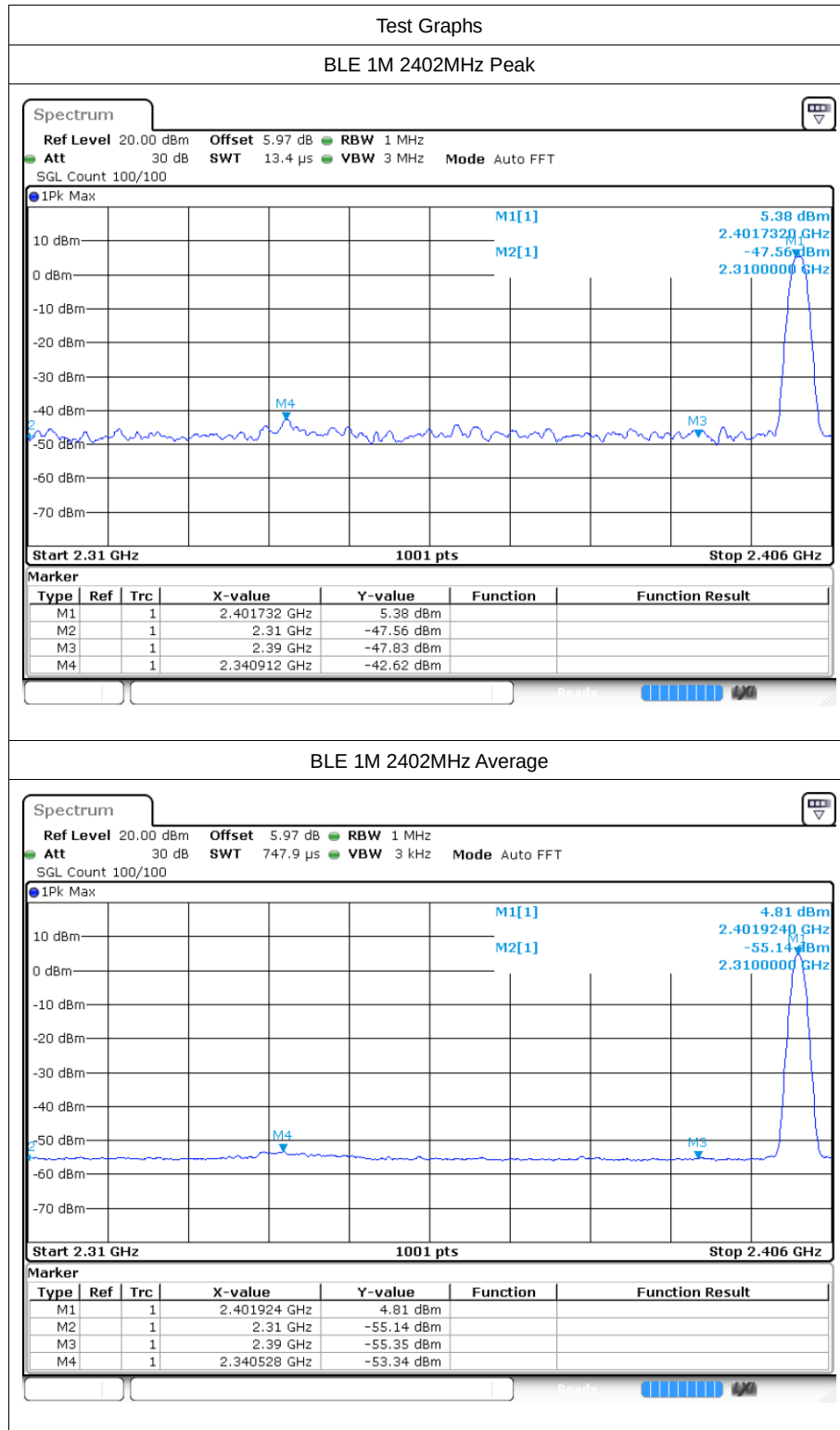


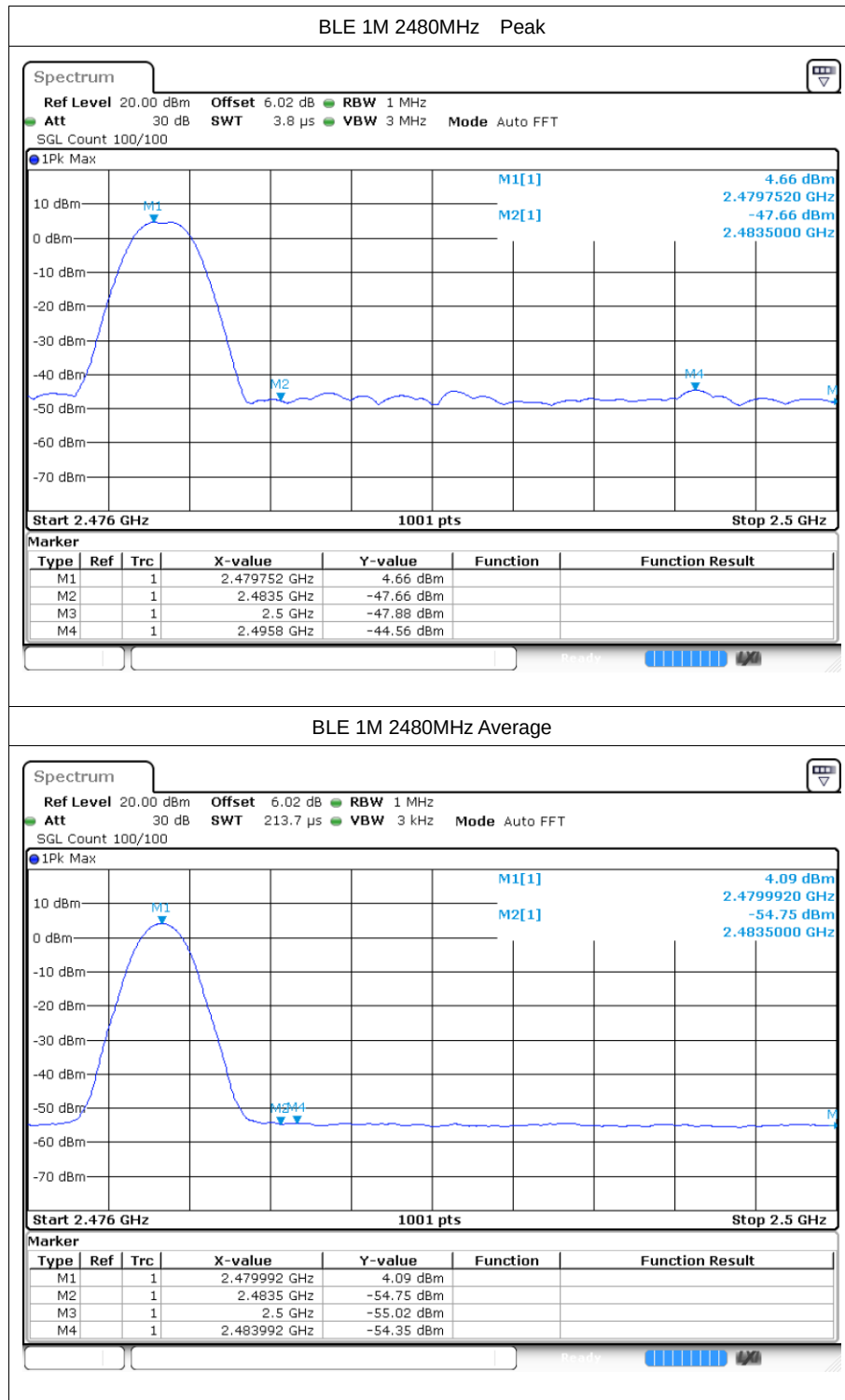
## 7 Restrict Band

### 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      | 2          | 50.92      | Peak     | 74             | Pass    |
| BLE 1M | 2402            | 2310            | -55.14      | 2          | 43.33      | Average  | 54             | Pass    |
| BLE 1M | 2402            | 2340.912        | -42.61      | 2          | 55.86      | Peak     | 74             | Pass    |
| BLE 1M | 2402            | 2340.528        | -53.33      | 2          | 45.14      | Average  | 54             | Pass    |
| BLE 1M | 2402            | 2390            | -47.82      | 2          | 50.65      | Peak     | 74             | Pass    |
| BLE 1M | 2402            | 2390            | -55.35      | 2          | 43.12      | Average  | 54             | Pass    |
| BLE 1M | 2480            | 2483.5          | -47.72      | 2          | 50.75      | Peak     | 74             | Pass    |
| BLE 1M | 2480            | 2483.5          | -54.78      | 2          | 43.69      | Average  | 54             | Pass    |
| BLE 1M | 2480            | 2495.8          | -44.55      | 2          | 53.92      | Peak     | 74             | Pass    |
| BLE 1M | 2480            | 2483.992        | -54.34      | 2          | 44.13      | Average  | 54             | Pass    |
| BLE 1M | 2480            | 2500            | -47.87      | 2          | 50.6       | Peak     | 74             | Pass    |
| BLE 1M | 2480            | 2500            | -55.02      | 2          | 43.45      | Average  | 54             | Pass    |

## 7.2 Test Graphs





---The End---