

# T-Impulse-Plus\_V1.0 Power Consumption Test Log

Date: 20250825  
LastEditTime: 20250825  
Test board: T-Impulse-Plus\_V1.0 (2025-6-18)  
Software name: original\_test.ino  
Testing organization: LILYGO Laboratory

## 1. Test Environment Description

1.1 测试环境  
1.1 Test environment

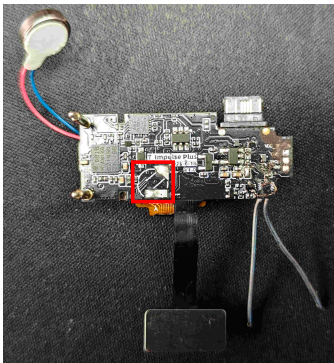
Test Tools	Sampling speed	Test Methodology	Input voltage	Test environment temperature
BLU939	100000 times/s	Battery Interface Measurement	+4.0V	25°C/77°F

1.2 测试的器件型号  
1.2 Test device model

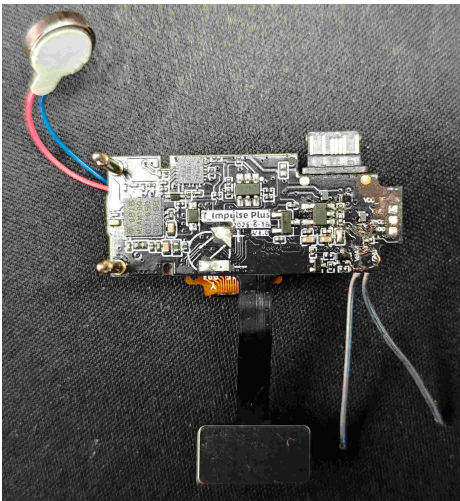
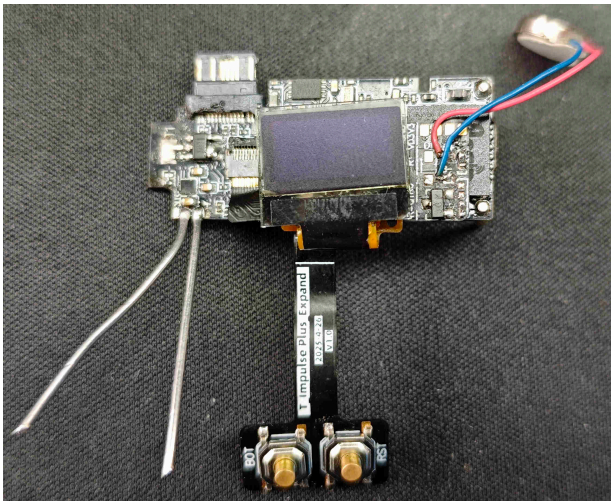
Test device	MCU	Screen	GPS	Lora	Flash	IMU	Power
Corresponding model	nRF52840	oled(ssd1306)	MIA-M10Q	S68F(SX1262)	ZD25WQ32CEIGR	ICM20948	SGM41562

## 2. Modification Instructions

2.1 拆除GPS位置的备用电池  
2.1 Remove the backup battery for the GPS location

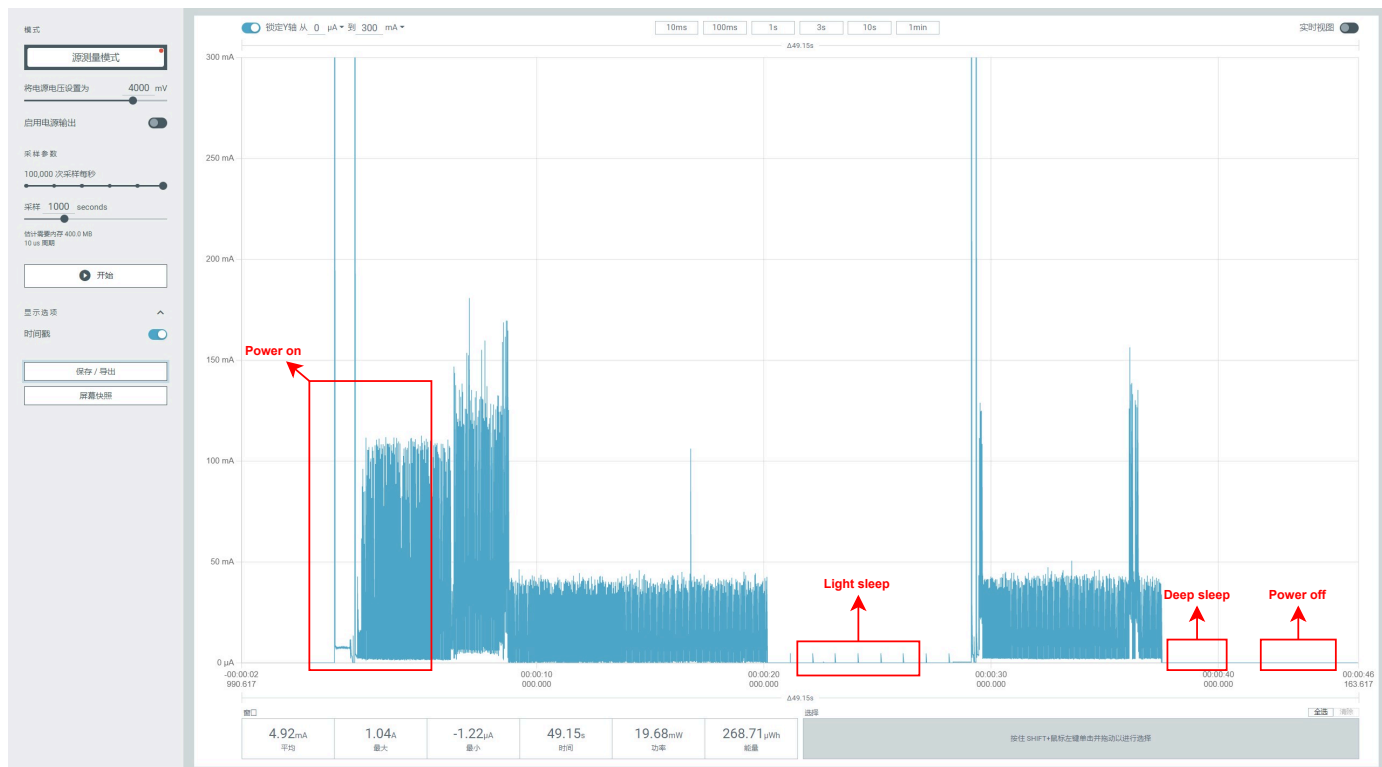


## 3. Test Physical Object Image



## 4. Power consumption testing

- 4.1 总电流变化测试图如下  
4.1 The test chart depicting the variation of total current is as follows.



### 4.2 Current Test Status Diagram:

MCU	Power	GPS	Screen	Lora	Flash	IMU
System ON Light Sleep	ON	OFF	OFF	OFF	Sleep	OFF

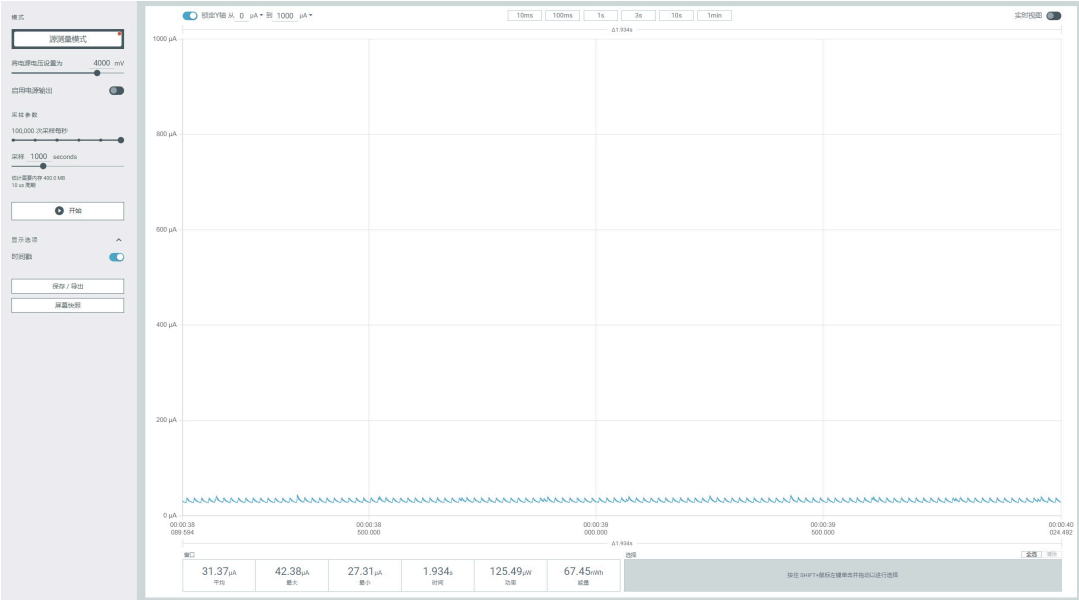
Test result: average 33.52 μA



4.3 Current Test Status Diagram:

MCU	Power	GPS	Screen	Lora	Flash	IMU
System ON Deep Sleep	ON	OFF	OFF	OFF	Sleep	OFF

Test result: average 31.37  $\mu$ A



4.3 Current Test Status Diagram:

MCU	Power	GPS	Screen	Lora	Flash	IMU
OFF	OFF	OFF	OFF	OFF	OFF	OFF

Test result: average 0.77  $\mu$ A

