

<b>Team #:</b>	P16104	<b>Team Name:</b>	Microfluidic Spectroscopy in CubeSats
<b>Date:</b>	5/8/2016 16:56	<b>Document Owner:</b>	James Lewis
<b>Revision #:</b>	1		

<b>Subsystem/ Function/ Feature Name:</b>	Max Power
<b>Date of Test:</b>	
<b>Performed By</b>	James Lewis and Matthew Glazer

Concluded Condition of meeting Engineering Specification:	<b>PASS</b>
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**I. TESTING SPECIFICATION**

Specification Number	Importance	Source	Function	Specification (Metric)	Unit of Measure	Max Value	Min Value	Comments/Status
ER 13	9	PRP	System	Power	W	10	8	

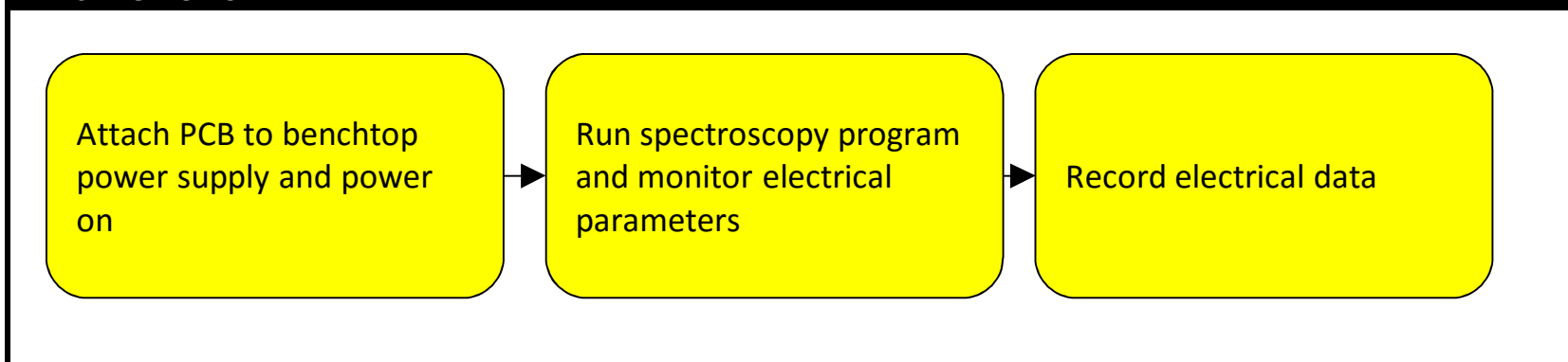
**II. EQUIPMENT REQUIRED**

Specification Number	Equipment or Instrumentation required
ER 13	Benchtop power supply, photodiode w/ complimentary circuitry, custom fixture, laptop

**III. DATA COLLECTION STRATEGY**

Specification Number	Data acquisition strategy
ER 13	The goal of this test is to gauge the electrical parameters of the project. These parameters include the current, voltage, and power consumption

**III. TESTING FLOWCHART**



**IV. RAW DATA ACQUISITION**

	LED OFF	LED ON
Voltage	5V	5V
Current	0.112A	0.136A
Power	0.56W	0.68W

#### V. RESULTS

The power varied proportionally with current since the voltage level remained constant

#### VI. CONCLUS

With maximum current draw, power consumption reached 0.68W. This value is much less than the original spec of 8W.