**Date: 9/27/2014**

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| **Group Number and Name** | **#14 Low Cost RF power meter** |
| **Client/Advisor** | **Dan Stieler/ Prof Neihart** |
| **Attendees/Role** | **Silu Feng/Leader, Xiaoshuo Li/key idea holder, Yijia Huang/webmaster, Boyang Hu,Cong Han/communicater, Yusi Xie/key idea holder** |

# Past week accomplishments

What was done, who did it, and when it was done

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| * The diode group using variable voltage regulator to design the regulator circuit. * The diode group make a build list. * The layout of PCB board is designing in eagle software. * The diode group simulate voltage regulator circuit in ADS. * The coupler group build and test the coupler. * The coupler group built the box and cut the cable. * The coupler group check the connections. |

# Plan for coming week

What to do, who, and when should it be done

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| * The coupler group needs to test the coupler. * The coupler group need to finish the box build and coupler building. * The diode group needs to simulate the whole detector including voltage regulator in ADS. * The diode group needs to put the circuit on PCB board. |

# Pending Issues

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| * Build and test the directional coupler in the box. * Finish the design and PCB layout of diode detector. |

# Individual Contributions

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| * Silu Feng work with Yijia Huang test and find the problem of coupler. Try to solve the problem. (10 hr) * Xiaoshuo Li use ADS to test diode detector. Work with Boyang Hu to design and test the voltage regulator. (10 hr) * Yijia Huang start build our box, cut cables to match the box and connectors (1 hr). Testing coupler with a signal generator and a oscilloscope and find out Vout is larger than Vin. So we try to fix that 1. We checked he connection in all parts and rebuild our testing coupler. 2. We checked the connectors separately and find out. T adaptor can divide our input signal( Ex: when we use T-adaptor the input is 10V from signal generator but on the oscilloscope it shows only 7-8V. But without T-adaptor, it gives 10V in both signal generator and oscilloscope. BNC-N type adaptor can increase the voltage of input signal.( Ex: 10V from input and output will be 12V). (12hr). * Boyang Hu work with Xiaoshuo Li to design and test the voltage regulator. Revise the design of voltage supply for offset voltage.(10 hr) * Cong Han keep doing the PCB design. Measure he dimensions of layout (1hr). Find the different types library for amp(1 hr). Find correct library for capacitor(0.5 hr). Keep finishing part order information(1 hr). Finishing connect schematic(1 hr). * Yusi Xie work with Yijia Huang to test and build the coupler. Try to solve problems. (10 hr). |

Individual hourly Contributions

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| **NAME** | **Hours this week** | **HOURS**  **Cumulative** |
| Silu Feng | 10 | 21.5 |
| Xiaoshuo Li | 10 | 29 |
| Yijia Huang | 13 | 31 |
| Boyang Hu | 10 | 26.5 |
| Cong Han | 4.5 | 22.5 |
| Yusi Xie | 10 | 21 |

# Comments and extended discussions:

We all did a great job in the past week.