

Group number: 20

Project title: Smartphone based nano-device for human breath sensing

Client &/Advisor: Prof. Long Que

Team Members/Role: Jared Smiley-Team Leader, Zhaobo Huang-Webmaster, Mengzhou Sha-Communication Leader, Concept Holder-Xin Chen

- **Weekly Summary**

Learned to use spectrometer and measurement devices. Started experiment with pdms evaporating with 300mL of 2-propanol over 40 minutes. Determined that this was too much to freely evaporate and tried same experiment with 200mL. Determined that this was too much and we may need to do experiment on hot plate to further evaporation. Also determined we should put pdms on top of something so it isn't surrounded by liquid when it is absorbing gas. Tried experiment this way to see if we would get different results but it didn't appear too different.

Past week accomplishments

- Xin: lab work
- Mengzhou: lab work
- Zhaobo: lab work
- Jared: lab work

- **Pending issues**

- **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>
Xin	lab work	1
Mengzhou	lab work	2
Zhaobo	lab work	4
Jared	lab work	4

- **Plan for coming week**

- Create presentation and videos

- **summary of meeting with our professor**