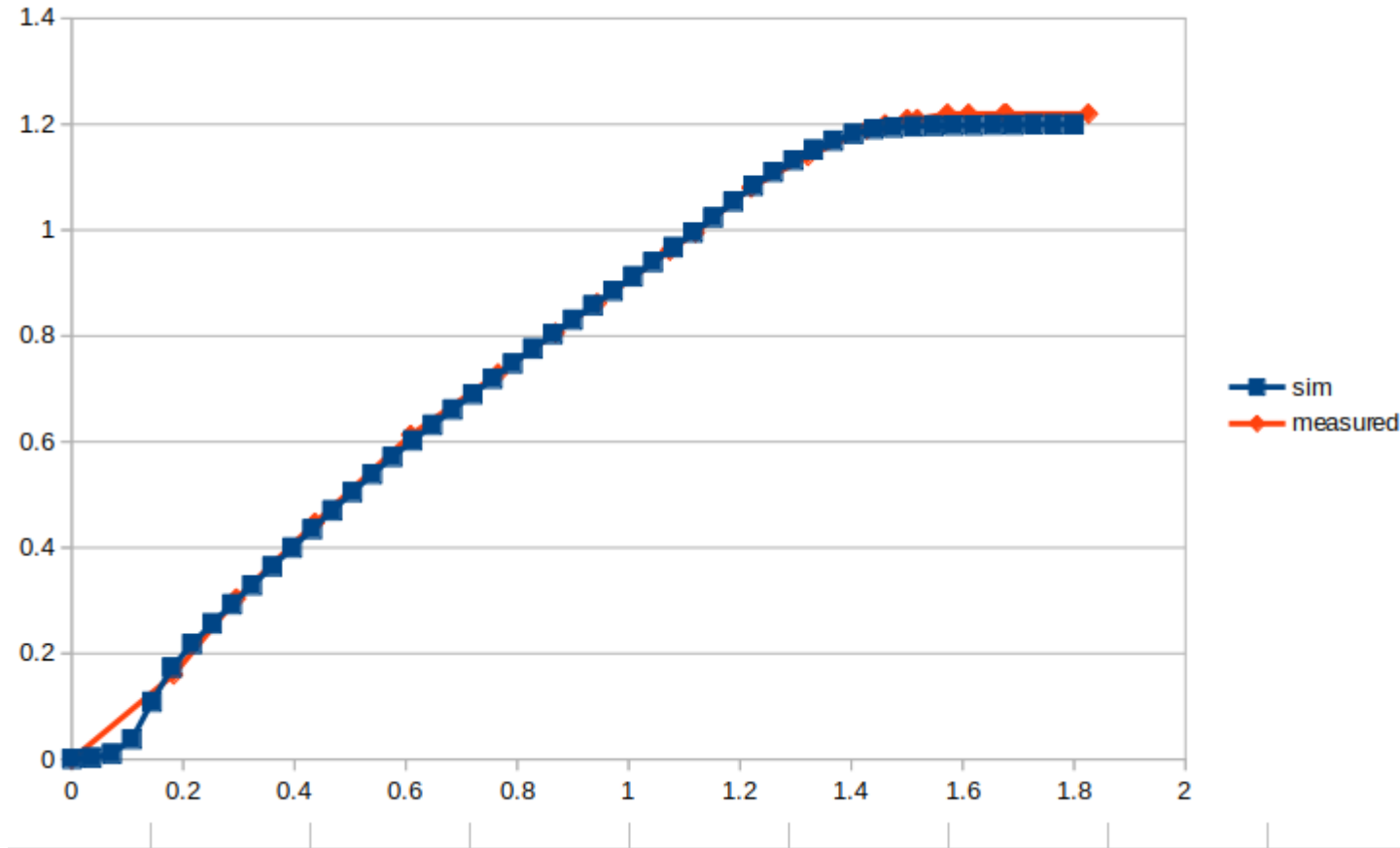
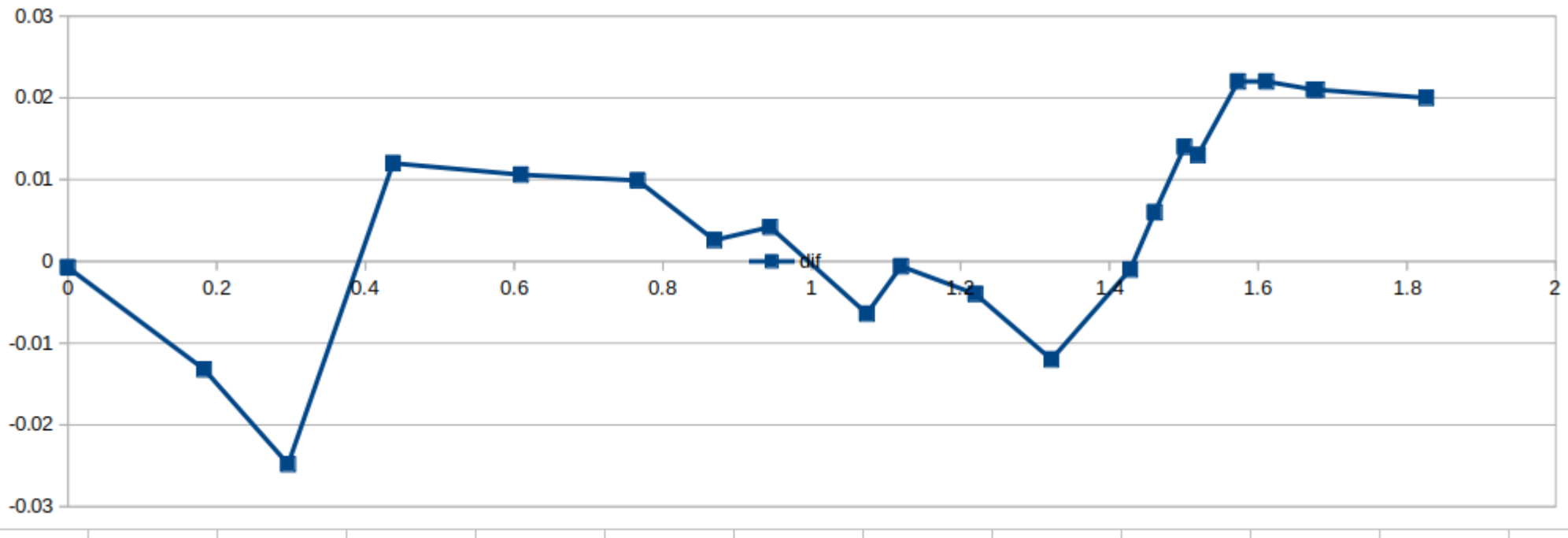


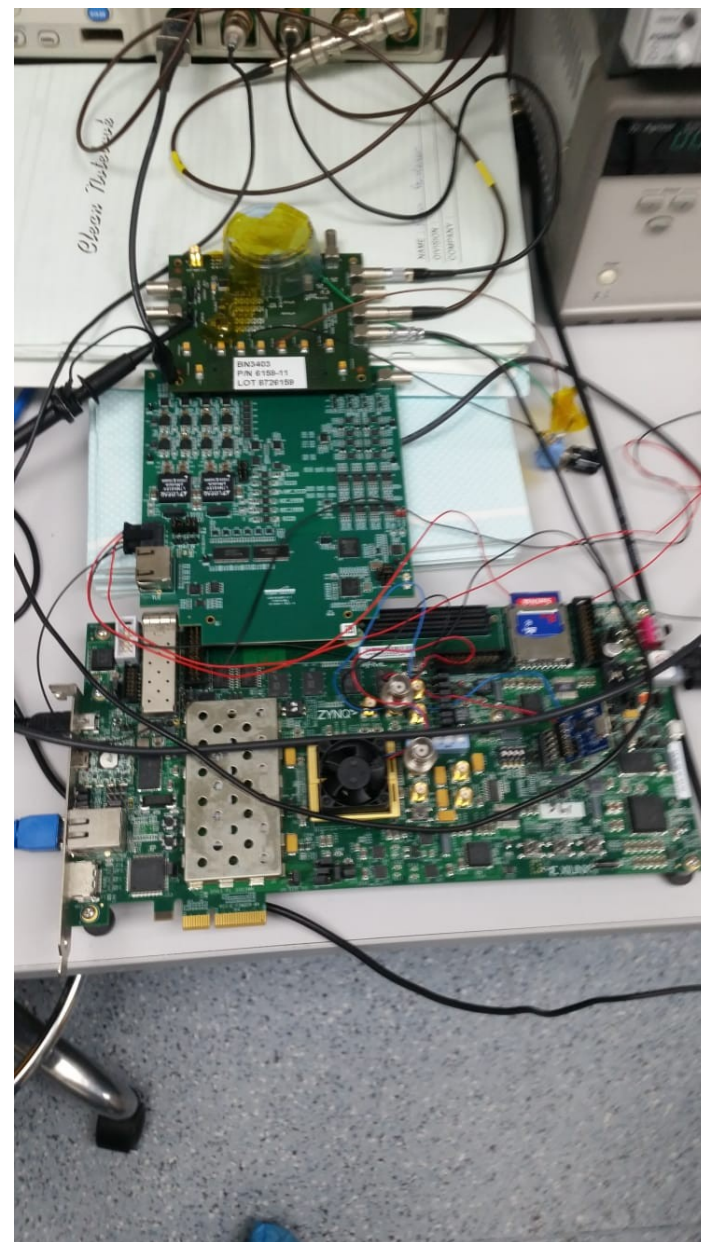
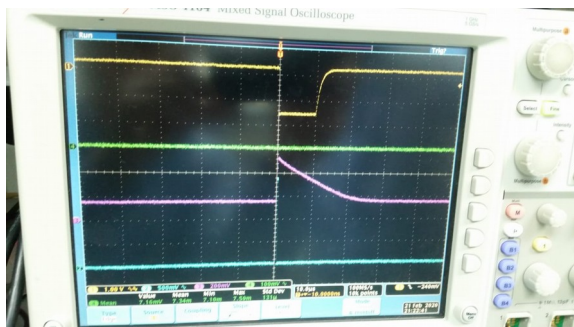


Bandgap Results - Vout vs Vin

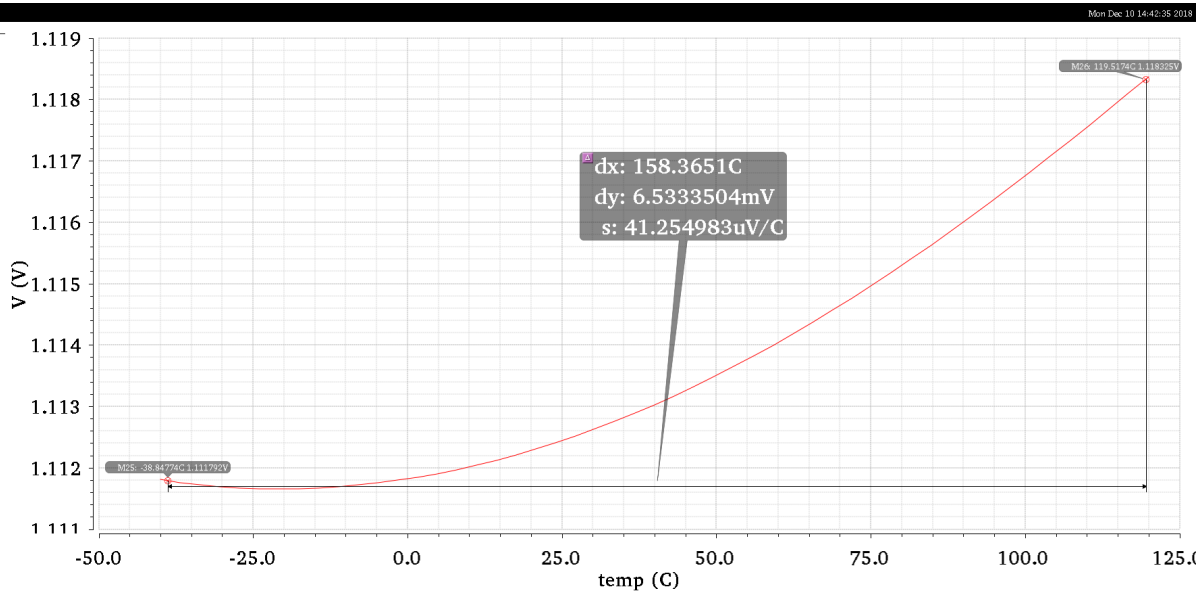




- Bandgap shows a maximum variation from simulation of $\approx 25\text{mV}$
- Maximum variation from simulation of $\approx 20\text{mV}$ over operating range (1.4 to 1.8V)



- RD50 – MPW2 DAQ assembled
 - Firmware is tested but contains bugs
 - Analogue output measured
 - Compartment output measured
 - Bandgap voltage scan performed
- Helmut has noticed some issues with his firmware and is correcting the bugs
- Attempting to fix broken Caribou board and assemble second DAQ for use with MPW1 in parallel
- Attempt to improve firmware by adding delays had no effect for RD50-MPW1



Further Testing

- Testing the bandgap over temperature will be the next step
- We could do this with the existing setup and the climate chamber however this would mean monopolising the DAQ and putting \approx £4500 worth of equipment in an oven at 160 °C
- For this reason the TCT board has also been designed to function as a testing platform for the bandgap, this will require only the relatively cheap and simple TCT board be tested at extreme temperatures

