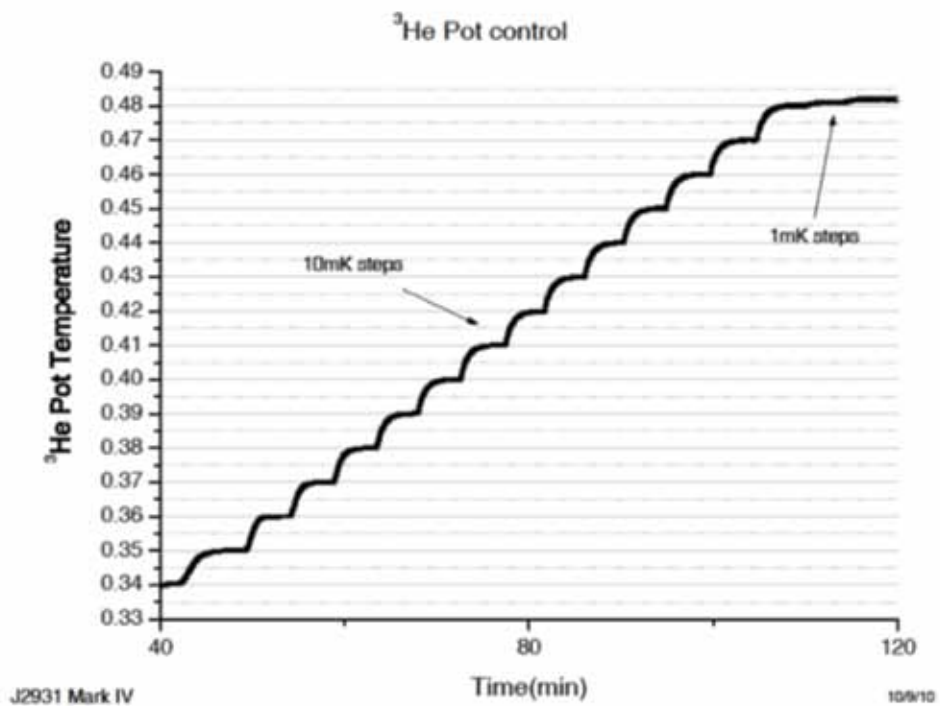
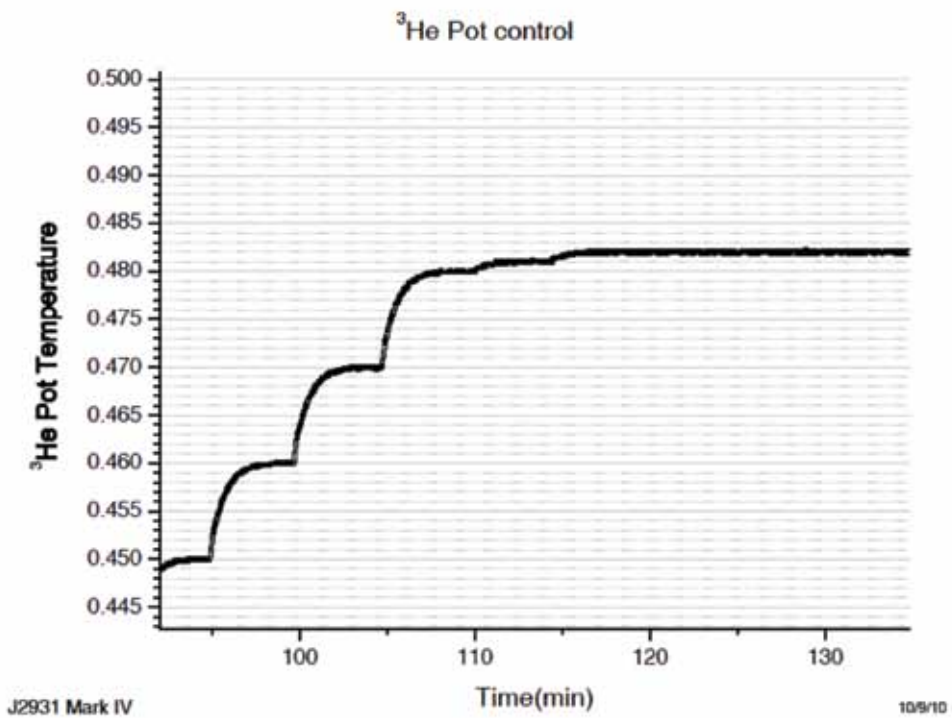


# SQUID S700X

## Measurement Data

Helium-3 insert measurements

Demonstration of the He-3 Insert Temperature Stability



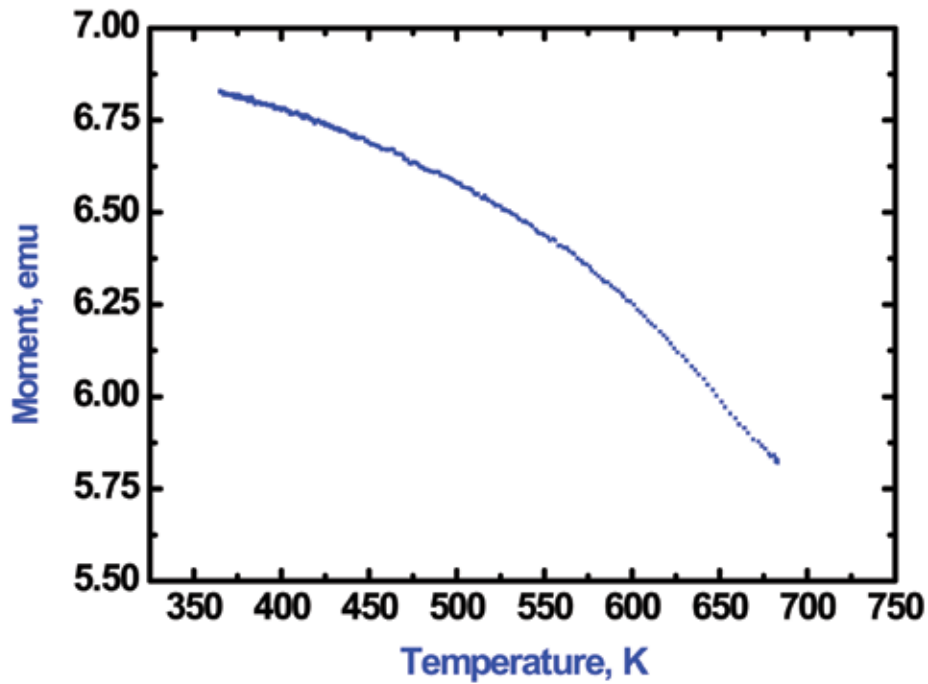
# SQUID S700X

## Measurement Data

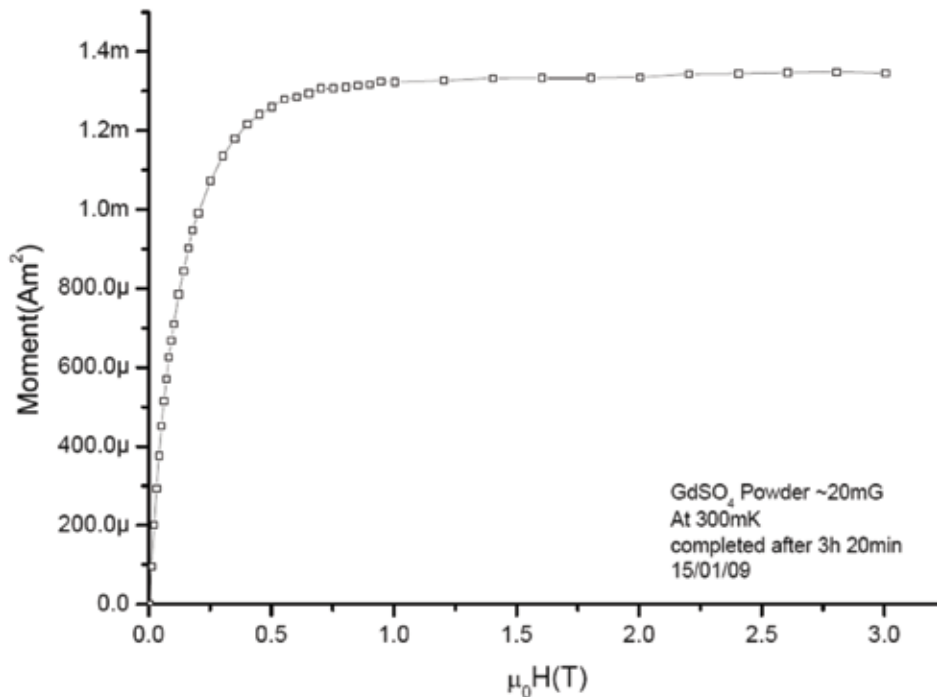
### High Temperature Option

To perform measurements above room temperature, furnace or heated sample probe insert is offered to increase the temperature range to 700K.

A series of measurements can be performed over the whole range from 1.6K to 700K



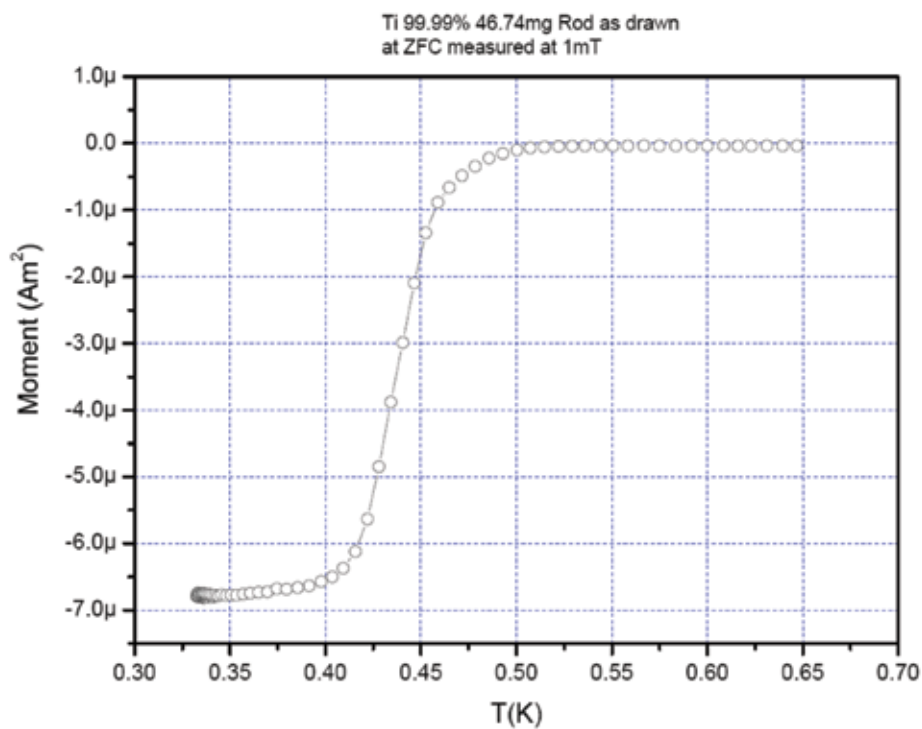
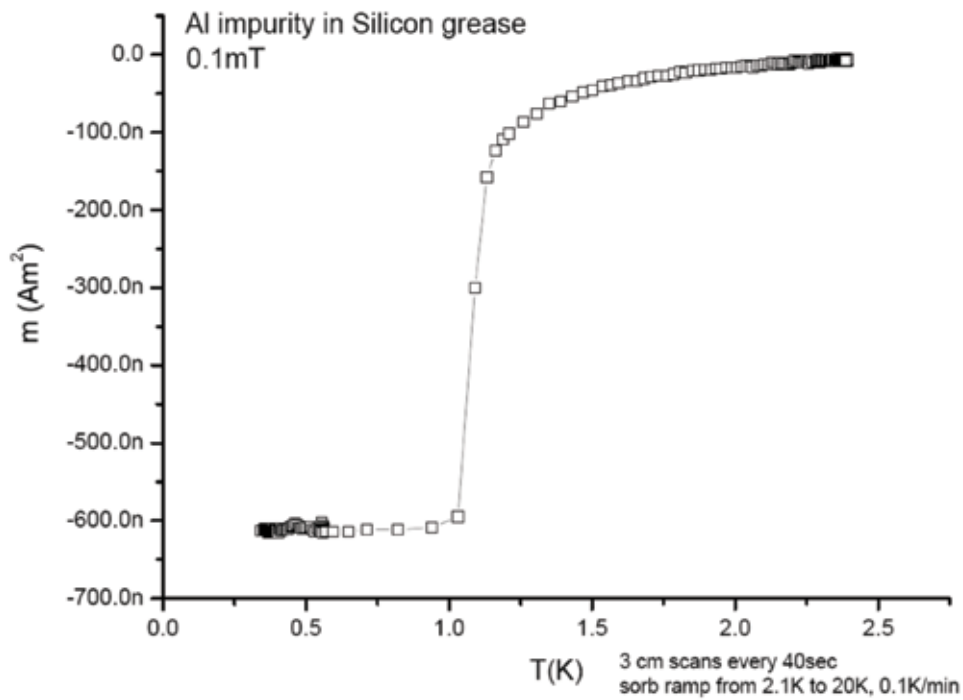
### Magnetisation of typical Paramagnetic Salt



# SQUID S700X

## Measurement Data

6% Al impurity in a Ti alloy in a Si grease suspension for good thermal conductance



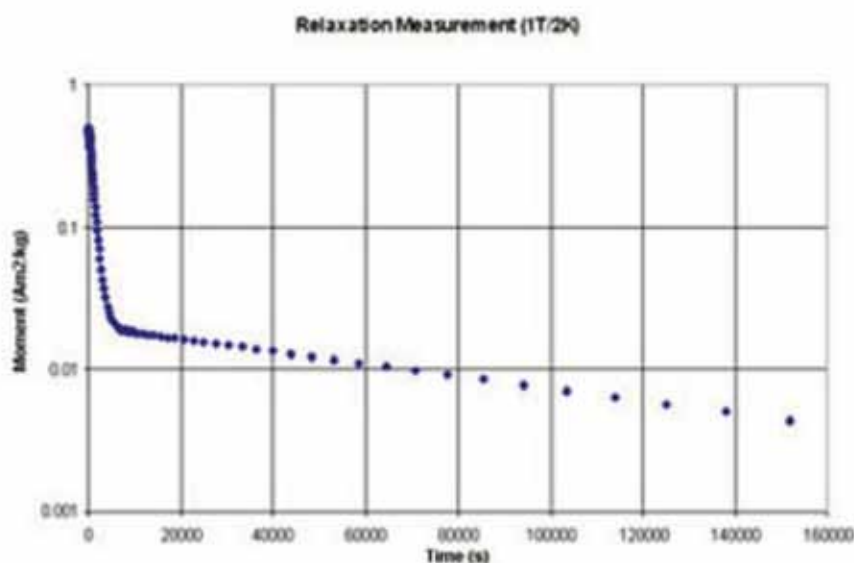
# SQUID S700X

## Measurement Data

Measurements for the SQUID Magnetometer

### Relaxation Measurement

The sample was cooled down to 2K in zero field, the first measurement was made after a field change of 1T. The intervals in time between measurements increase in pseudo logarithmic steps. This example demonstrates continuous operation at temperatures below 4.2K.



Magnetic Viscosity as a Function of Temperature of G - Fe<sub>2</sub>O<sub>3</sub> particles in silica

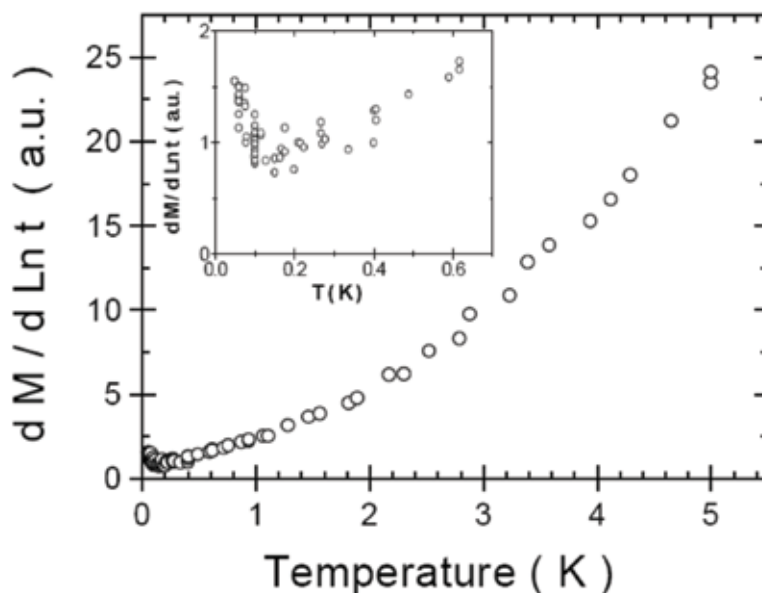


Figure 3. Magnetic viscosity as a function of temperature.

# SQUID S700X

## Measurement Data

Magnetic Moment of the of G - Fe<sub>2</sub>O<sub>3</sub> particles in silica Sample

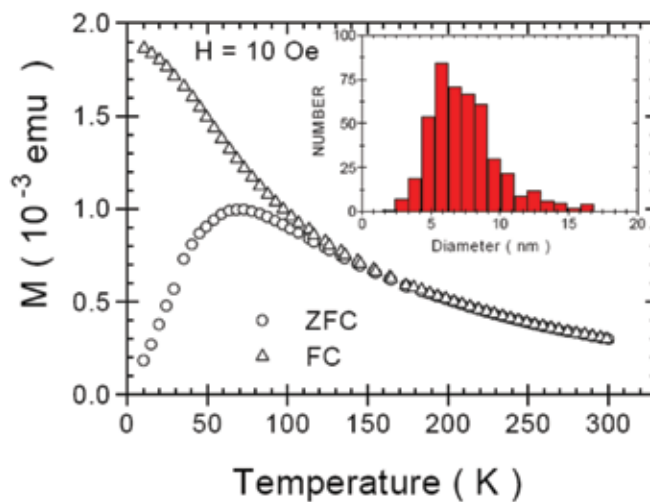
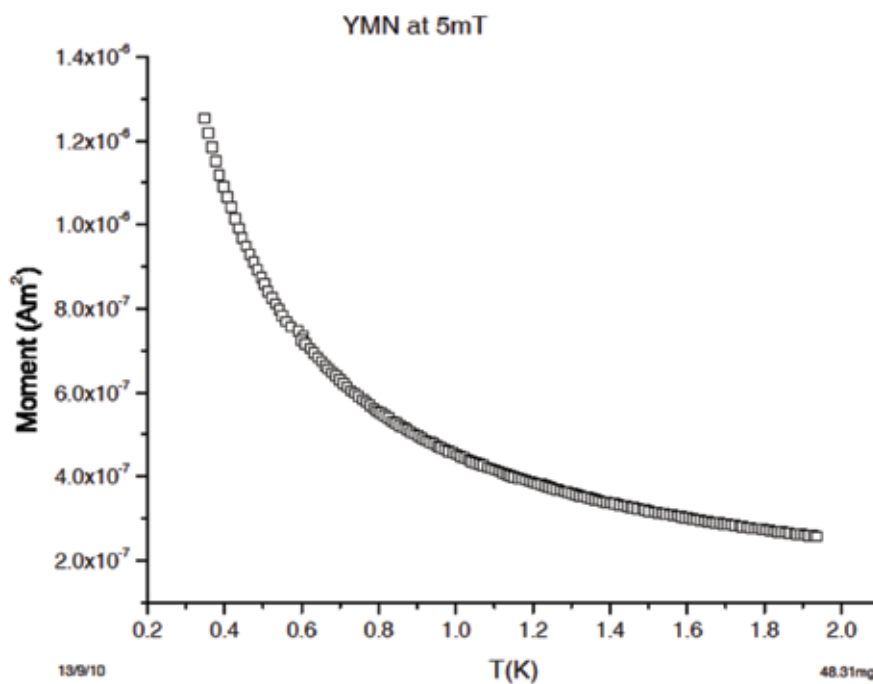


Figure 1. Total magnetic moment of the sample, measured in ZFC and FC procedures. The inset shows the size distribution of the particles deduced from transmission electron microscopy.

Helium-3 insert measurements

Paramagnetic Salt CMN-Temperature Calibration Study of the Helium-3 Insert

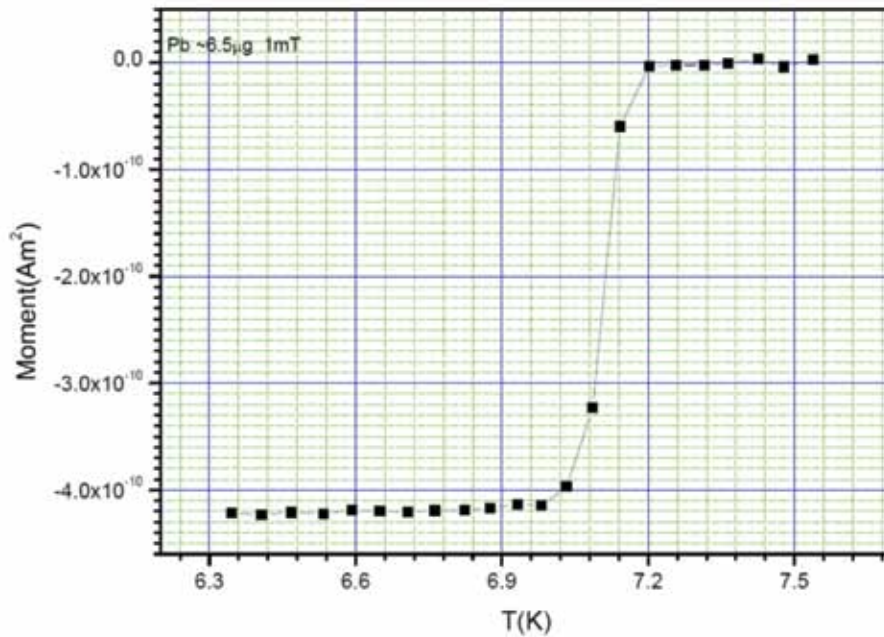


# SQUID S700X

## Measurement Data

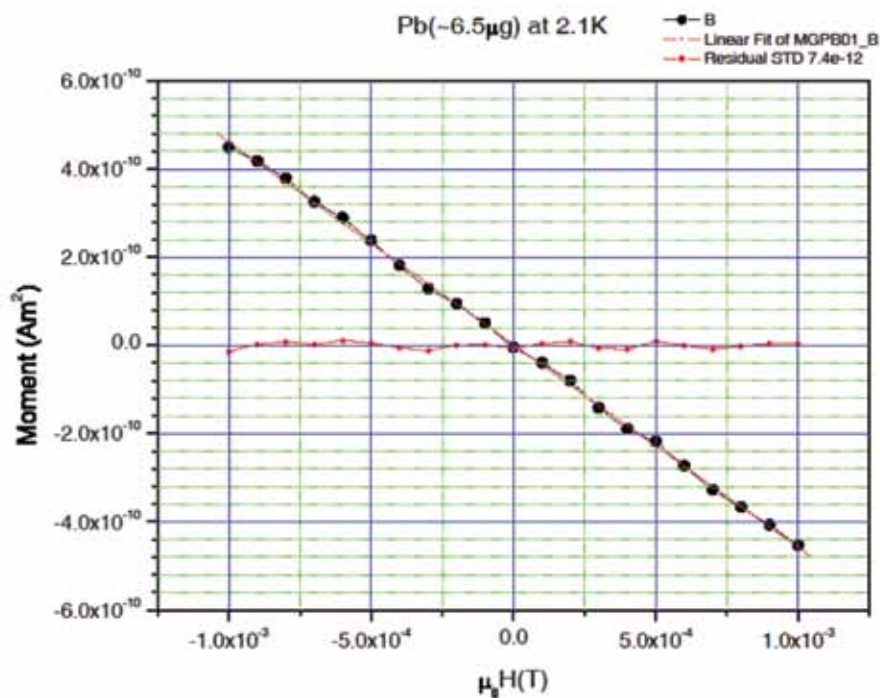
### High Pressure Cell

To perform measurements at high pressure, we provide the MC10 and MC Ultra pressure cells from easyLab.



### Ultra low field option

Demonstration of the ultra low field measurement option using a diamond anvil pressure cell on a sample of Pb.

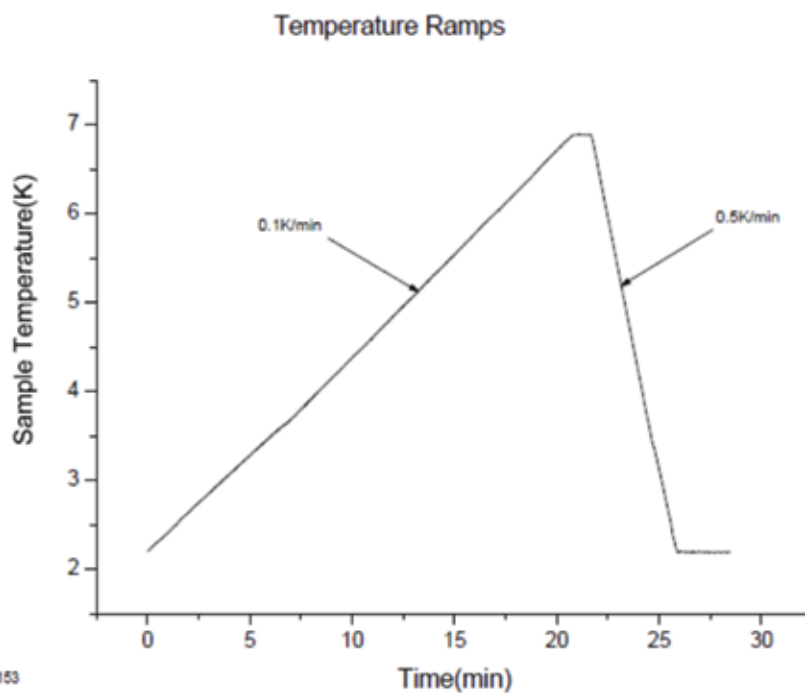
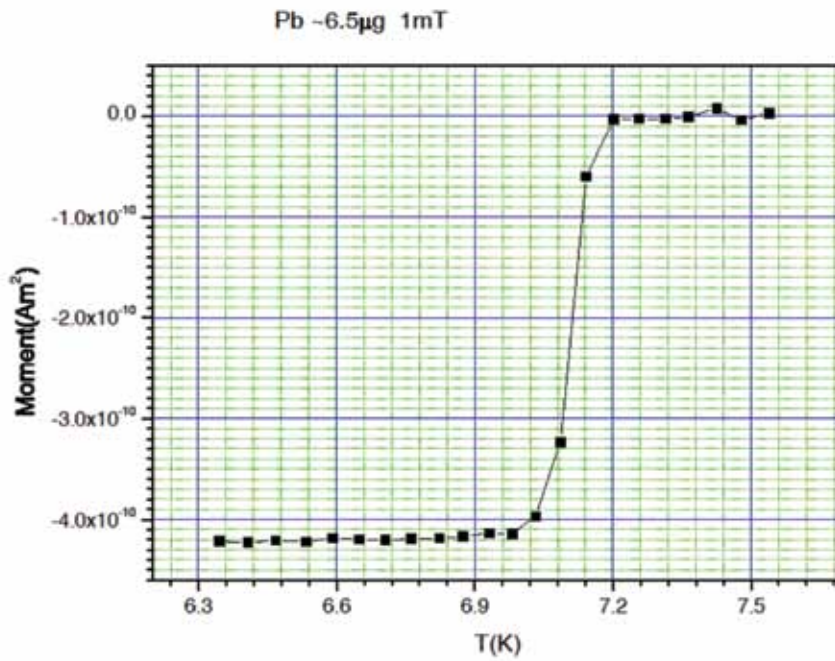


# SQUID S700X

## Measurement Data

Ultra low field option

Superconducting Transition of Lead (average resolution  $3 \times 10^{-12} \text{Am}^2/3 \times 10^{-9} \text{emu}$ )



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