

Measuring the Si 111 Standard Sample

1. Mount the Si 111 sample.
2. Place the drives at the following locations:
Theta: 0 X: 0
2 Theta: 0 Y: 0
Chi: 0 Z: 0
Phi: 0 No detector slit
3. Perform a Z scan from -.9 to 1.9
4. Double click on the curve where the intensity is half the original value
5. Perform a rocking curve from -1 to 1
6. double Click on the peak location
7. perform a Z scan from -1 to 1
8. Double click on the curve where the intensity is half the original value
9. Type 28.443 in the 2 theta requested position
10. Perform a rocking curve from 14 to 15.
11. Double click on the peak position
12. Perform a 2 Theta/ Omega scan from 28 to 29
13. The peak should be located at 28.443 +/- 0.01

