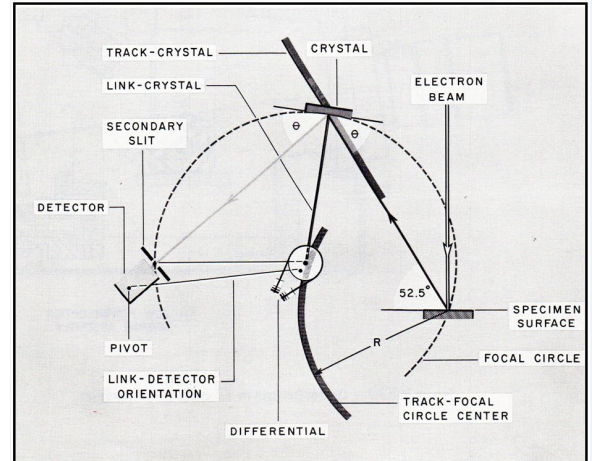


Thorium Counts and Energy Resolution

1. Gun: 15 KV
2. Sample Current: 10 nA
3. Sample: ThO_2 (Th: 87.9% ; O: 12.1%)
4. X-Ray: Th Ma @ 2,996 eV
5. Crystal: PET ; $2d - 8.75$; Johansson geometry
6. Spectrometer No: 1 - 5
7. Spectrometer Type: Scanning WDS, Curved Crystal
8. Roland Circle Radius: 127 mm
9. Resolution: Th Ma - 9eV
10. Detector Gas: Xenon @ 1 Atmosphere
11. Xenon Absorption Efficiency for Th Ma: 100%
12. Number of windows between sample and crystal: 0
13. P/B Ratio: Th - 121 ; Background: 52 CPS
14. Takeoff Angle: 52.5°



Spectrometer Type

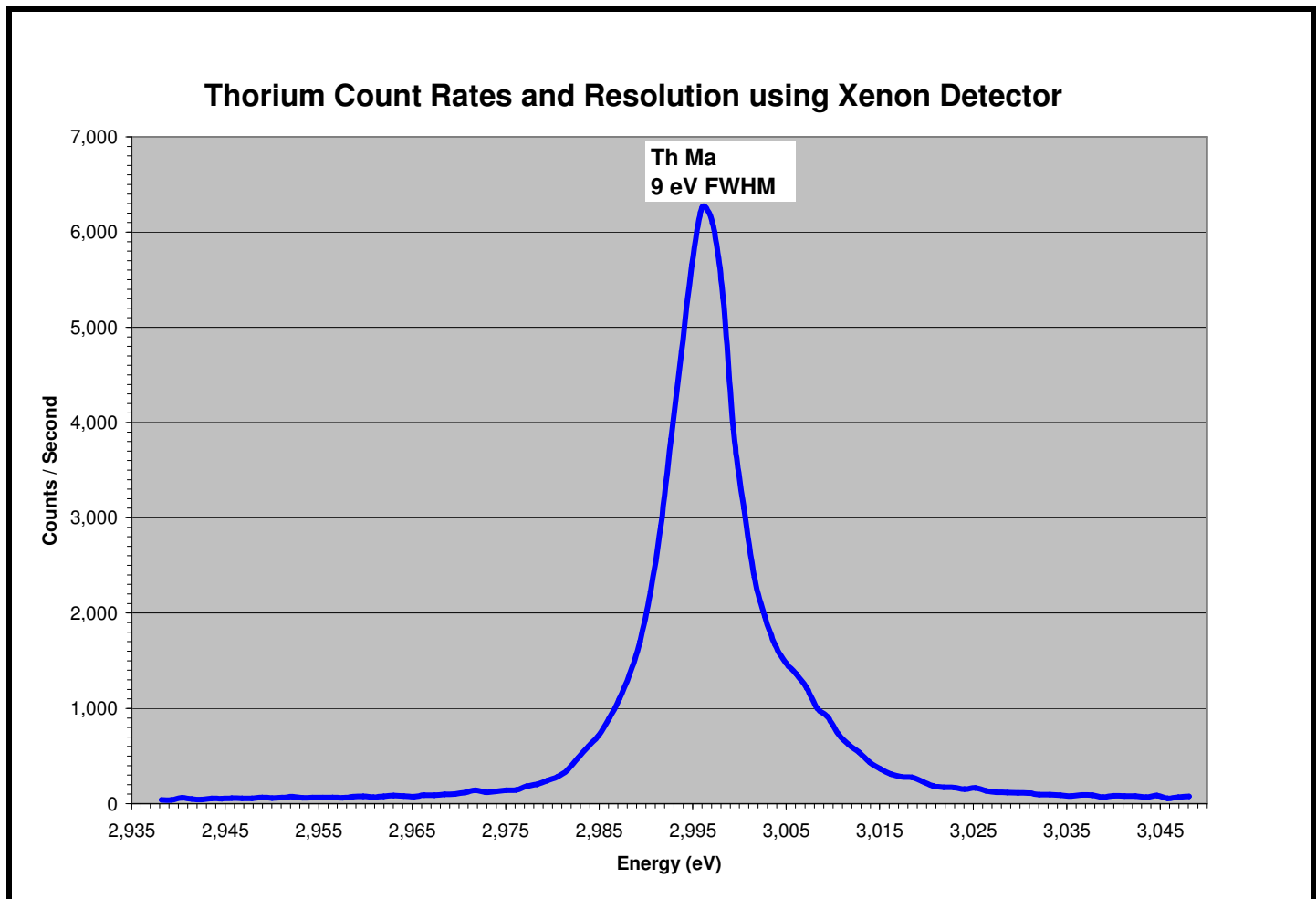


Figure 1: WD Scan on Thorium Dioxide Sample

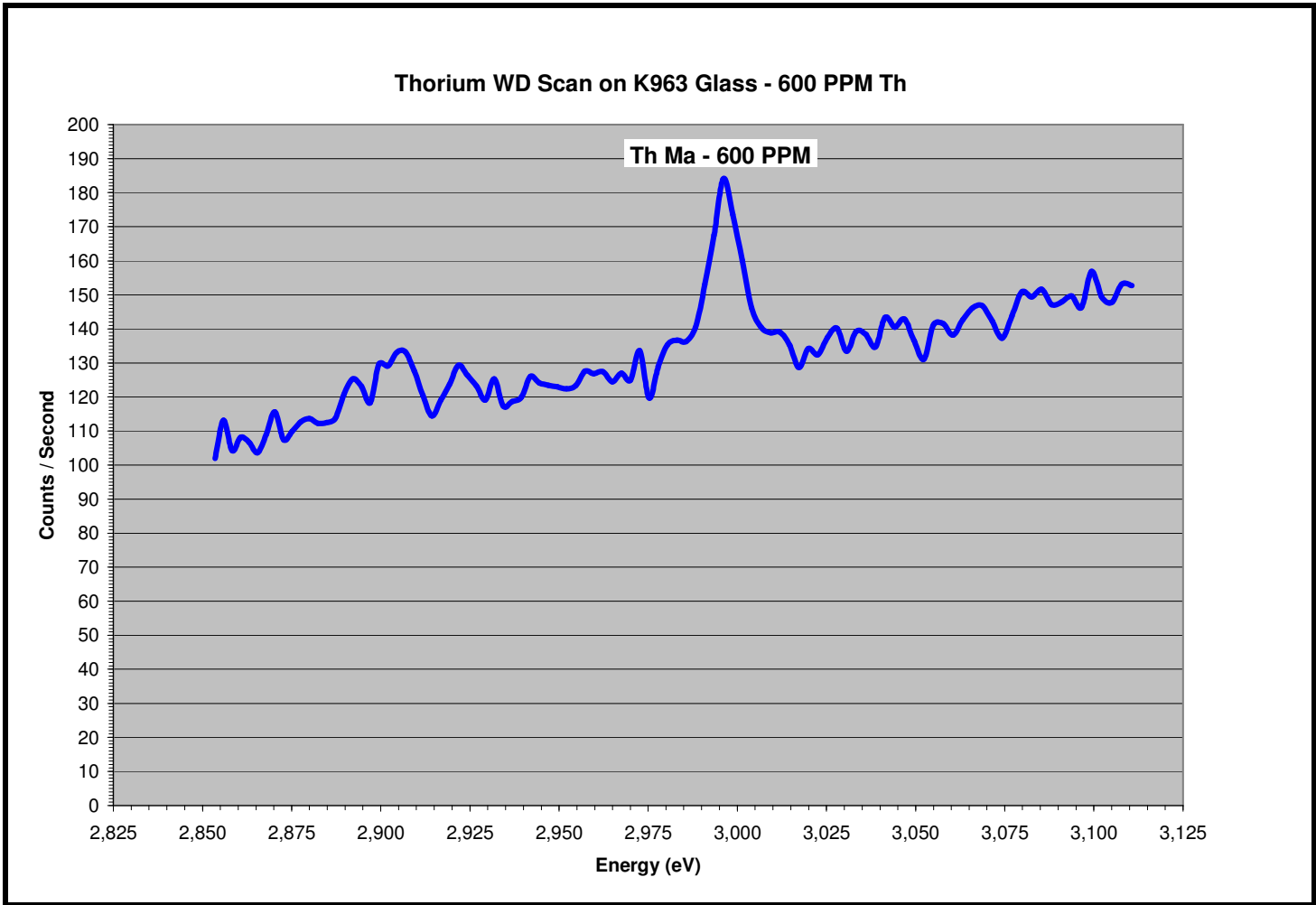


Figure 2: WD Spectrometer Scan - K963 Glass