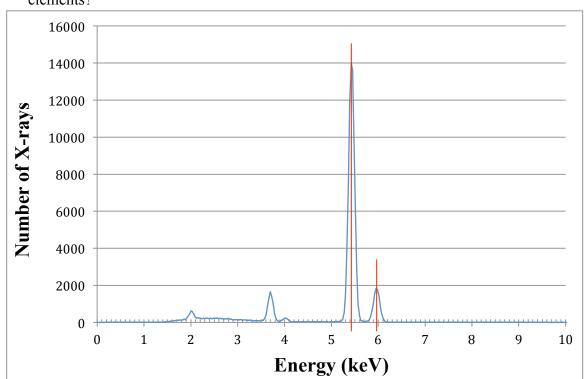
- 1. Describe the PIXE process.
- 2. What are the K_{α} and K_{β} transition energies for the following elements: ${}^{19}_{9}F$, ${}^{59}_{27}Co$, and ${}^{197}_{79}Au$? (Please use the equations given in the lecture and not the table of x-ray energies to do the calculation.)
- 3. What is the ratio of the K_{α} energies of $^{238}_{92}U$ to $^{12}_{6}C$?
- 4. Given the *PIXE* spectrum of a single element standard shown below, what are the elements?



5. Given the *PIXE* spectrum of a single element standard shown below, what are the elements?

