

**University of Arizona
CAMECA SX100**

**Calling and Updating
Analysis Files**

Page 2 Calling up a stored analysis file.
Page 9 Appendix 1 Updating Calibrations.

Step 1

If Necessary - Open the Settings Window.

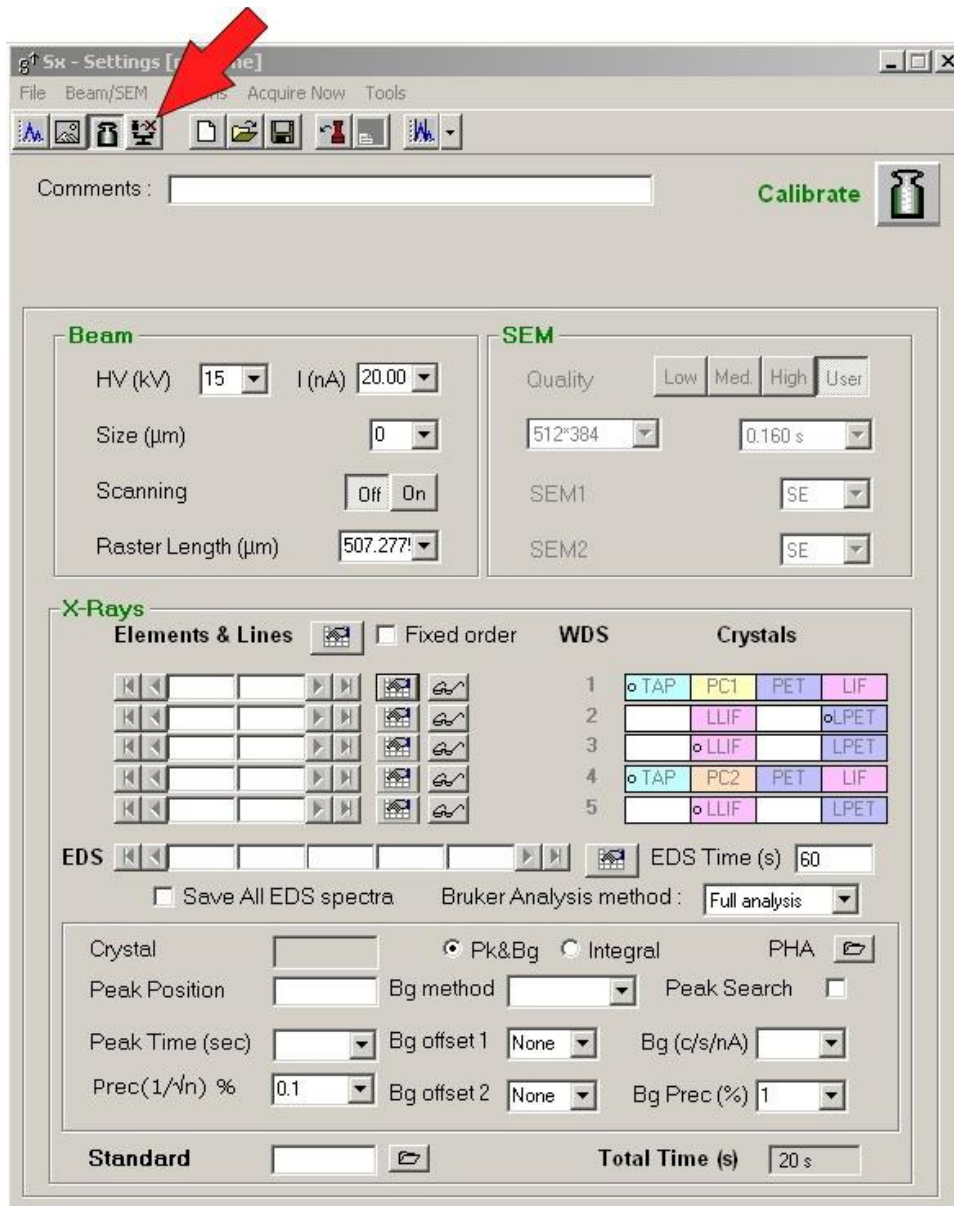


Press This Button

Step 2

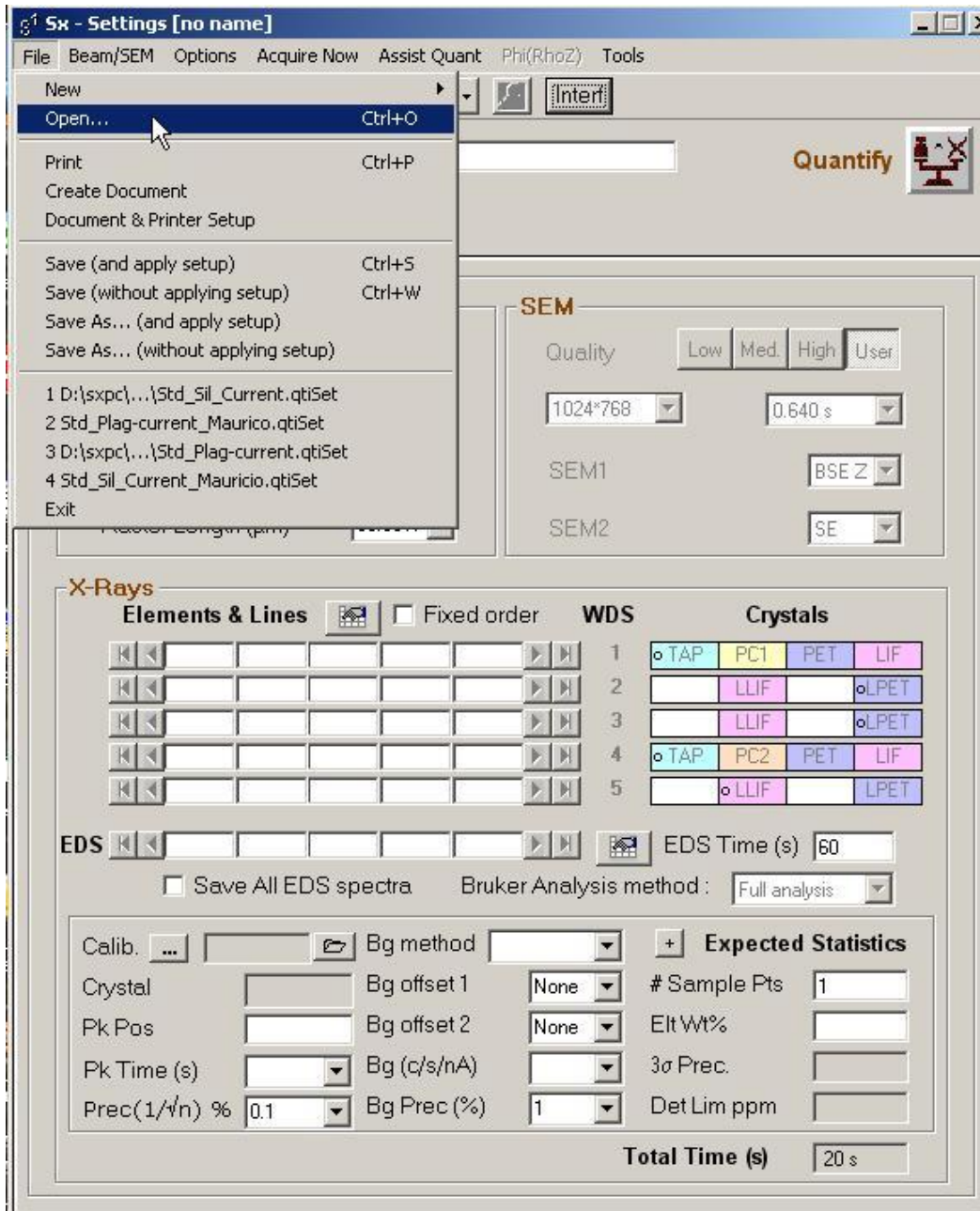
In the Settings Window - Select the Analysis Setup Icon

Press This Button



Step 3

Select “File Open”

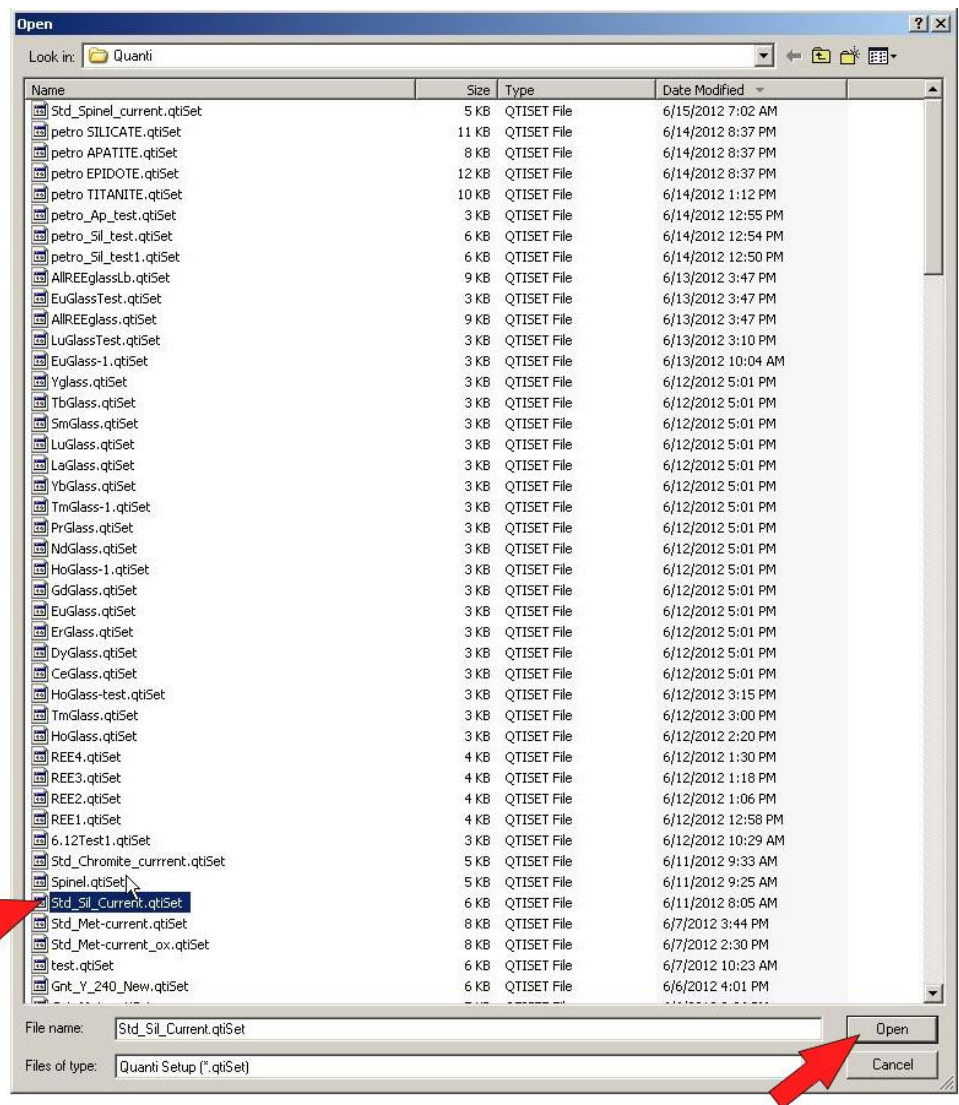


Step 4

Select the Analysis File you want from the pop-up menu.

Select file

Then



Press This Button

Step 5

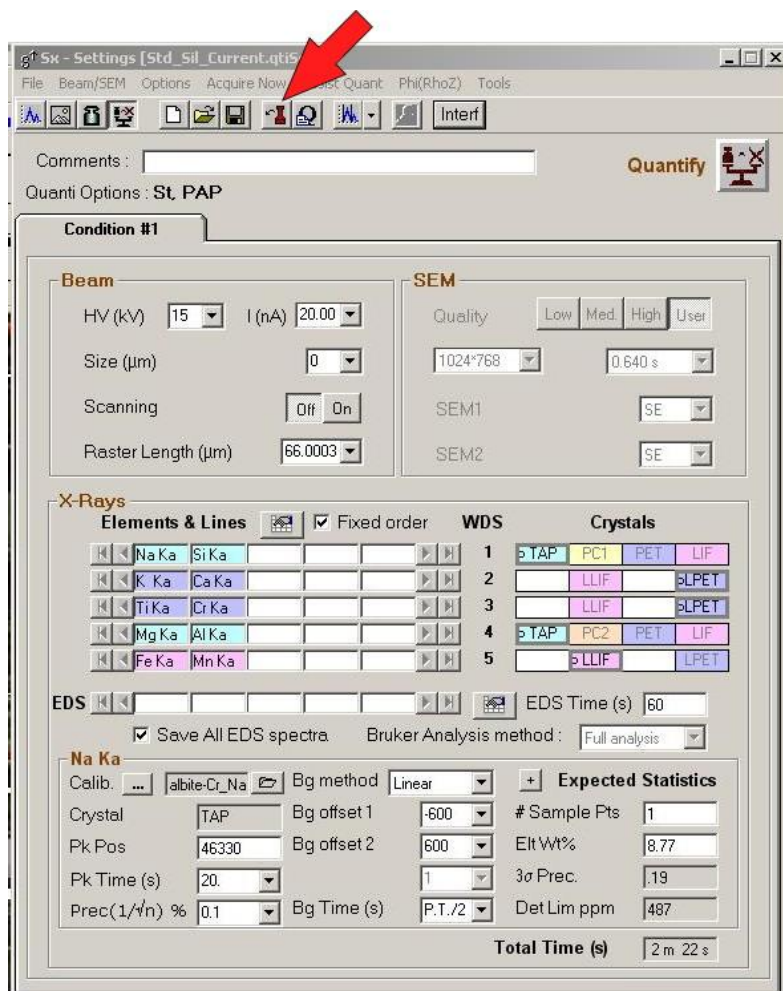
Important

Make sure the electron beam is on and set the beam voltage and current you want to use.

(Also make sure the BSE image contrast and brightness settings are adjusted the way you want).

Then:

Press This Button

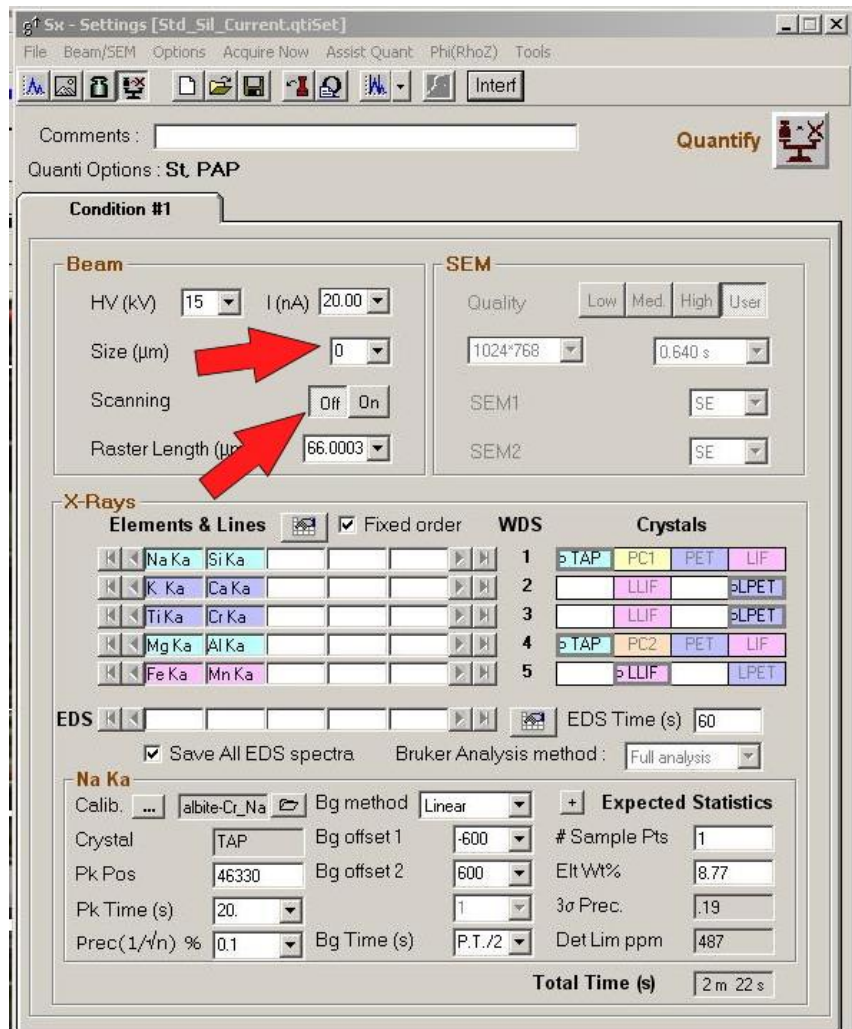


Step 6

Set the Beam Size and make sure that the Scan is Off.

**Set Beam Size
(usually 0)**

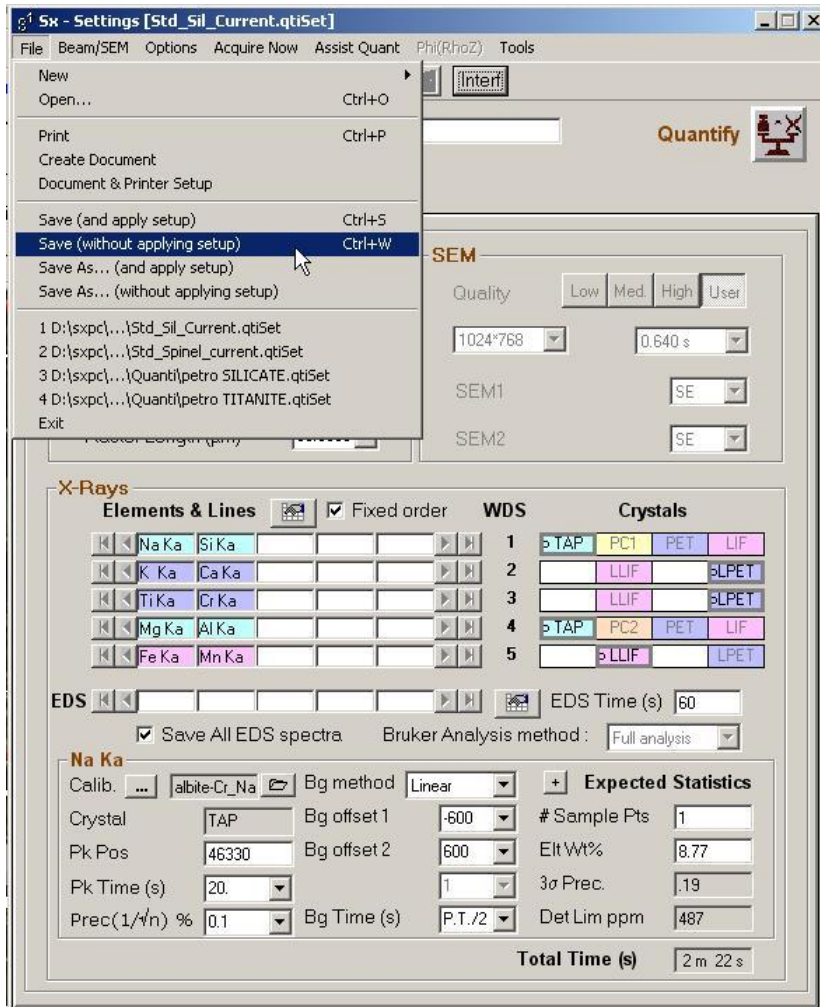
Set Scan Off



**If you want to Update Calibrations go to Appendix 1 – Updating Calibrations.
Otherwise continue to Step 7**

Step 7

Save the Analysis Setup (without applying setup)



Step 8 Go to Quantitative Acquisition Basic Setup.

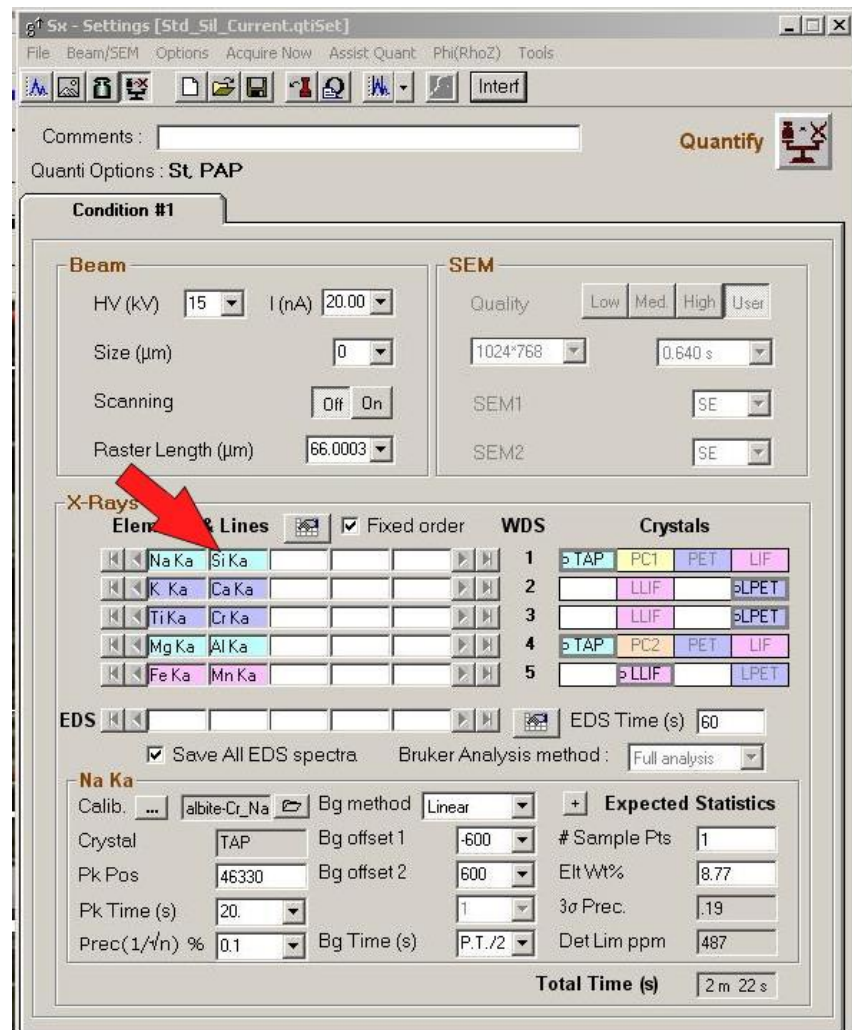
Appendix 1

Updating Calibrations

Step 1

Update the first Element that you have Recalibrated.

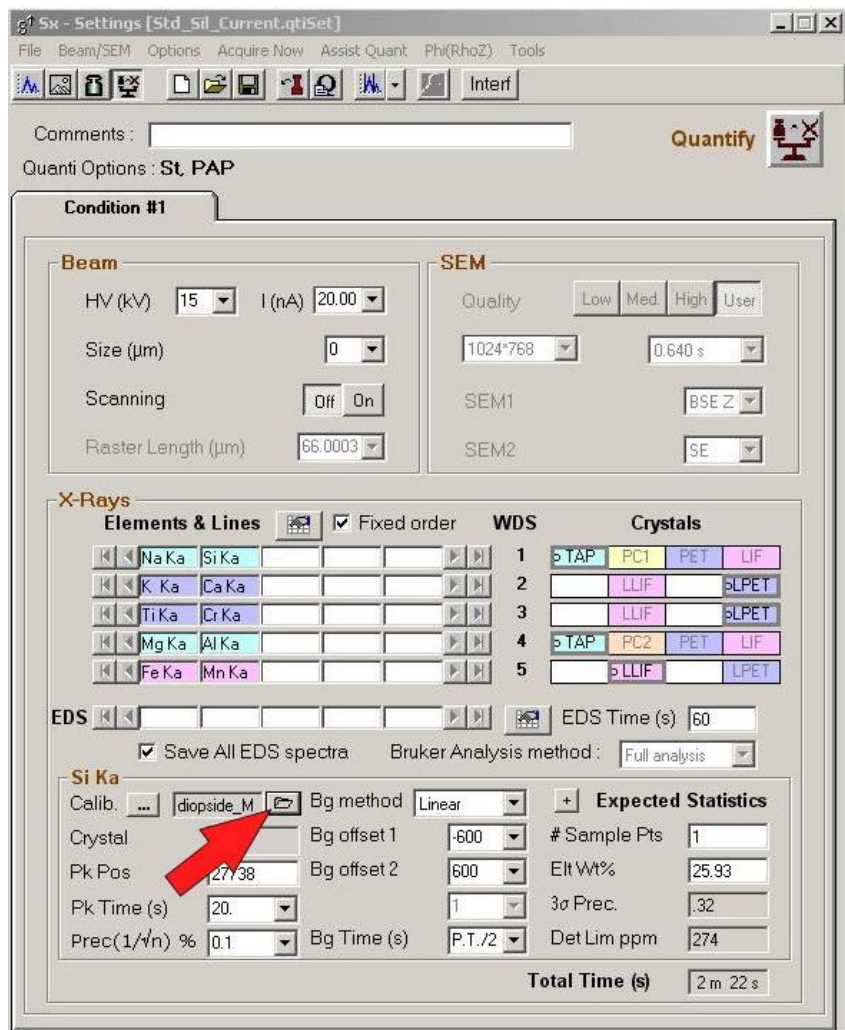
Click on the element to update



Step 2

Open the Calibration Database window.

**Press This
Button**



Step 3

Select the New Calibration

Note: New Calibrations should appear at the top of the list.

The screenshot shows a 'Calibration Data' window with a table of calibration records. A red arrow points to the top row of the table, which is highlighted in blue. Below the table are control panels for 'Display Standardisation', 'HV', 'Element', 'Spectrometer', and 'Calibration type'.

| Element | Line | Std Name | SP | Xtal | HV | InA | Bkgd1 | Bkgd2 | Slope | Bias | Gain | Base | Window | Mode | Date | Istd c ₁ /nA | Beam Size |
|---------|------|----------|----|------|----|-----|-------|-------|-------|------|------|------|--------|------|--------------------|-------------------------|-----------|
| Si | Ka | diopside | 1 | TAP | 15 | 20 | -600 | 600 | 1 | 1278 | 2764 | 840 | 4159 | D# | Jun/15/12-7:38 AM | 526.86 | 0 |
| Si | Ka | diopside | 1 | TAP | 15 | 20 | -600 | 600 | 1 | 1278 | 2764 | 840 | 4159 | D# | Jun/08/12-10:30 AM | 525.7 | 0 |
| Si | Ka | pyrope2 | 1 | TAP | 15 | 20 | -600 | 600 | 1 | 1278 | 2764 | 840 | 4159 | D# | Jun/06/12-9:23 AM | 356.89 | 0 |
| Si | Ka | diopside | 1 | TAP | 15 | 20 | -600 | 600 | 1 | 1278 | 2739 | 840 | 4159 | D# | May/22/12-10:48 AM | 526.88 | 0 |
| Si | Ka | diopside | 1 | TAP | 15 | 20 | -600 | 600 | 1 | 1278 | 2534 | 840 | 4159 | D# | May/18/12-8:24 AM | 523.91 | 0 |
| Si | Ka | diopside | 1 | TAP | 15 | 20 | -600 | 600 | 1 | 1278 | 2736 | 840 | 4159 | D# | May/12/12-11:38 AM | 528.8 | 0 |
| Si | Ka | diopside | 1 | TAP | 15 | 20 | -600 | 600 | 1 | 1278 | 2791 | 840 | 4159 | D# | May/04/12-9:27 AM | 527.5 | 0 |

Double click on new Calibration

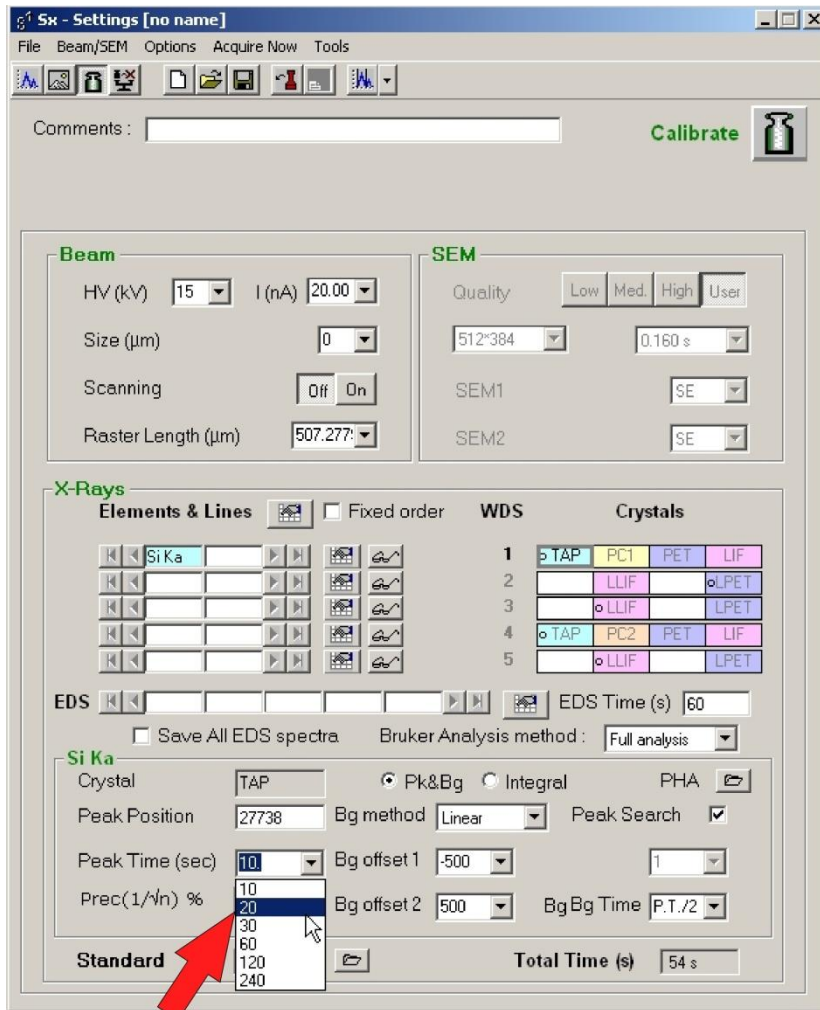
Then

The screenshot shows the same 'Calibration Data' window as above, but with a red arrow pointing to the 'OK' button in the bottom right corner of the control panels.

Press This Button

Step 4

If necessary – Change the Peak Counting Time.



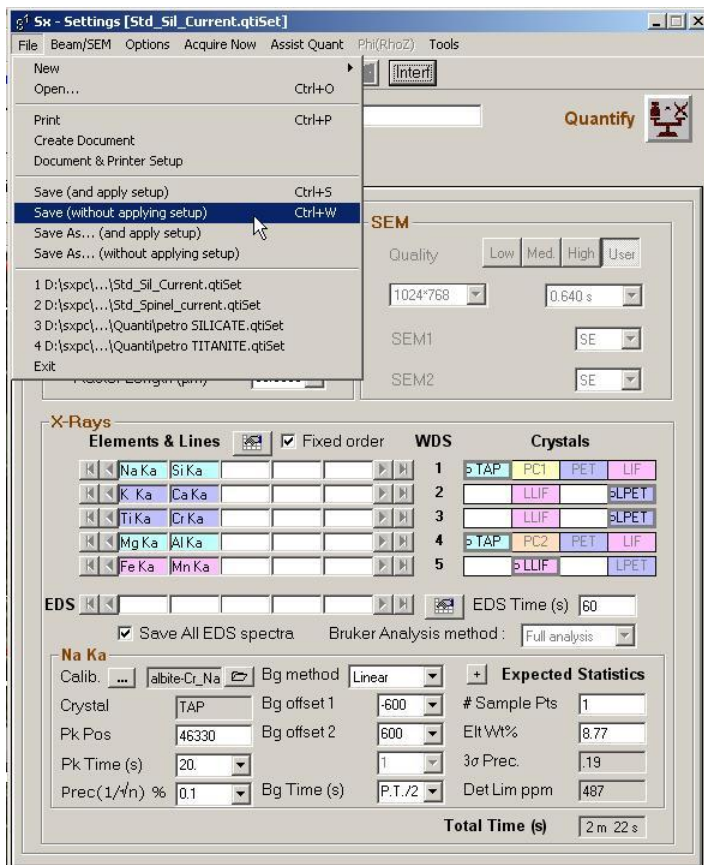
Select the Peak Count Time

Step 5

Repeat steps 1-4 for each Calibration you want to Update.

Step 6

Save the Analysis Setup
(without applying setup)



Step 8 Go to Quantitative Acquisition.

