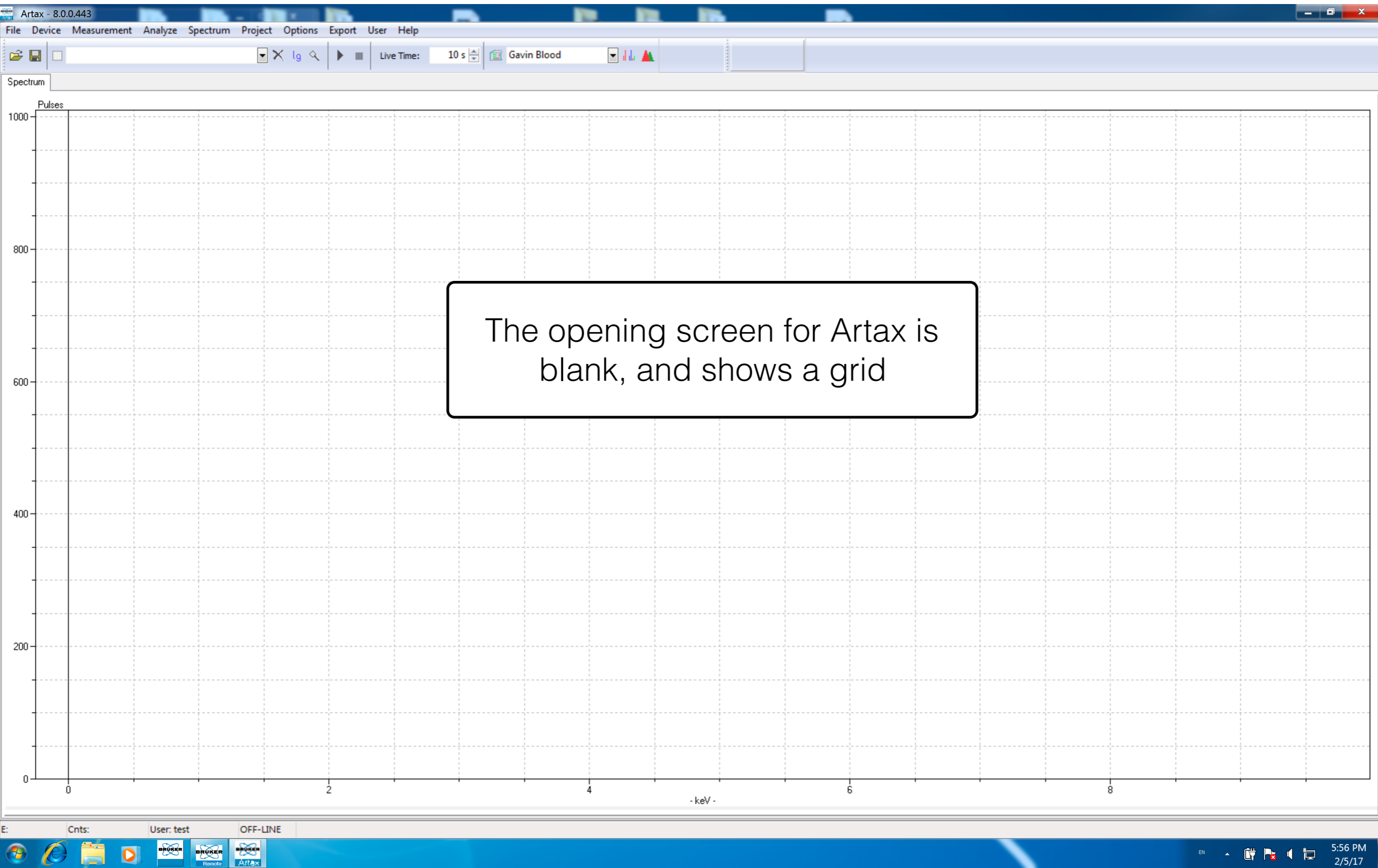


Artax Setup | Connecting the Instrument



Artax Setup | Connecting the Instrument

The screenshot displays the Artax software interface. The title bar reads "Artax - 8.0.0.443". The menu bar includes "File", "Device", "Measurement", "Analyze", "Spectrum", "Project", "Options", "Export", "User", and "Help". The "Device" menu is open, showing "Connect" and "Disconnect" options. The main window shows a "Spectrum" plot with a y-axis labeled "Pulses" ranging from 0 to 1000 and an x-axis labeled "- keV -" ranging from 0 to 8. A callout box points to the "Connect" option in the "Device" menu.

To connect to an instrument, go to Device and then Connect

At the bottom of the window, the status bar shows "E:", "Cnts:", "User: test", and "OFF-LINE". The Windows taskbar at the very bottom shows the system tray with the time "5:56 PM" and date "2/5/17".

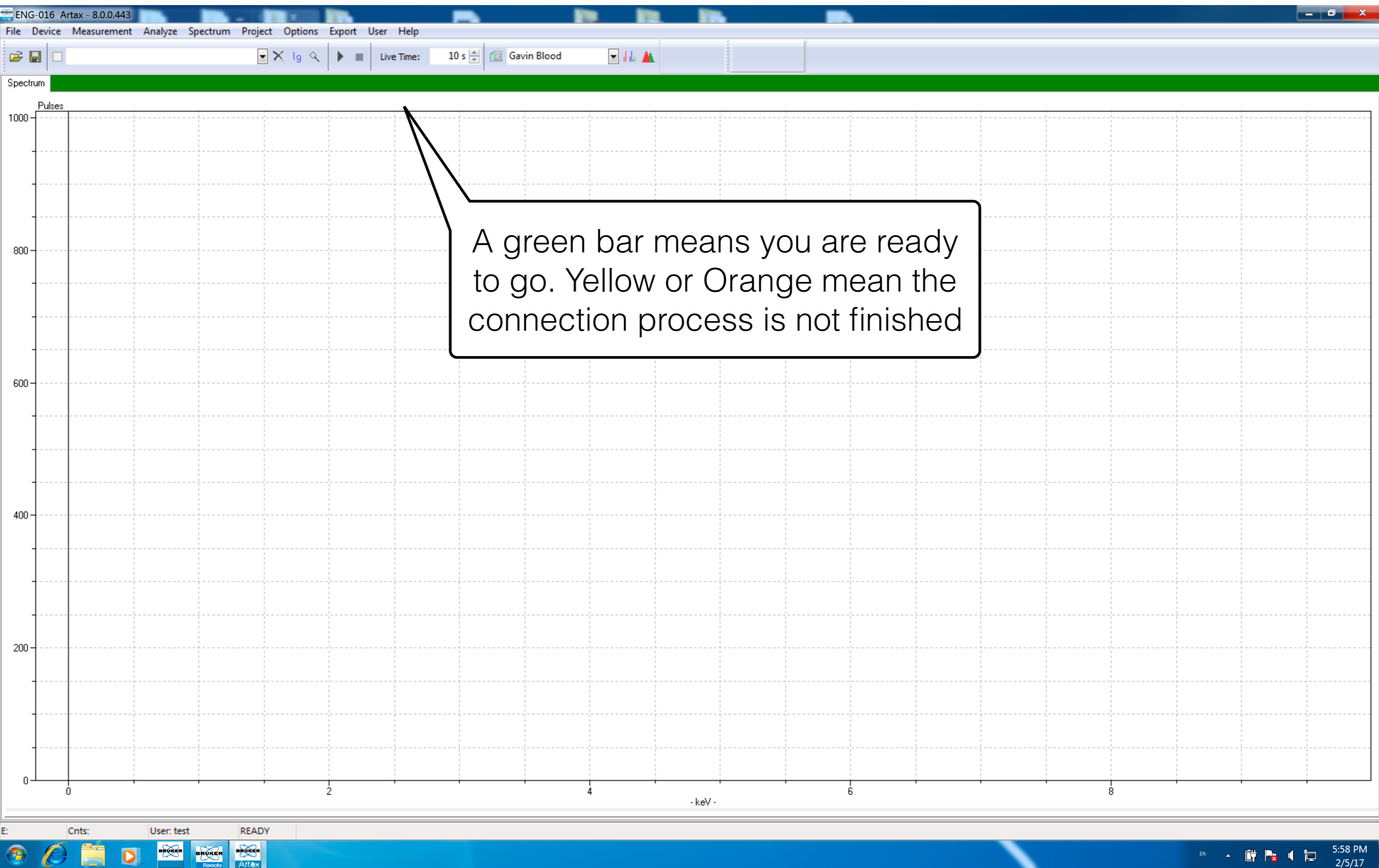
Artax Setup | Connecting the Instrument

The screenshot displays the Artax software interface. The main window shows a 'Spectrum' plot with the y-axis labeled 'Pulses' (0 to 1000) and the x-axis labeled '- keV -' (0 to 8). A 'Connect' dialog box is open, titled 'Connect', with a 'Network Connection' tab. It lists an 'Active Network Connection' with the following details:

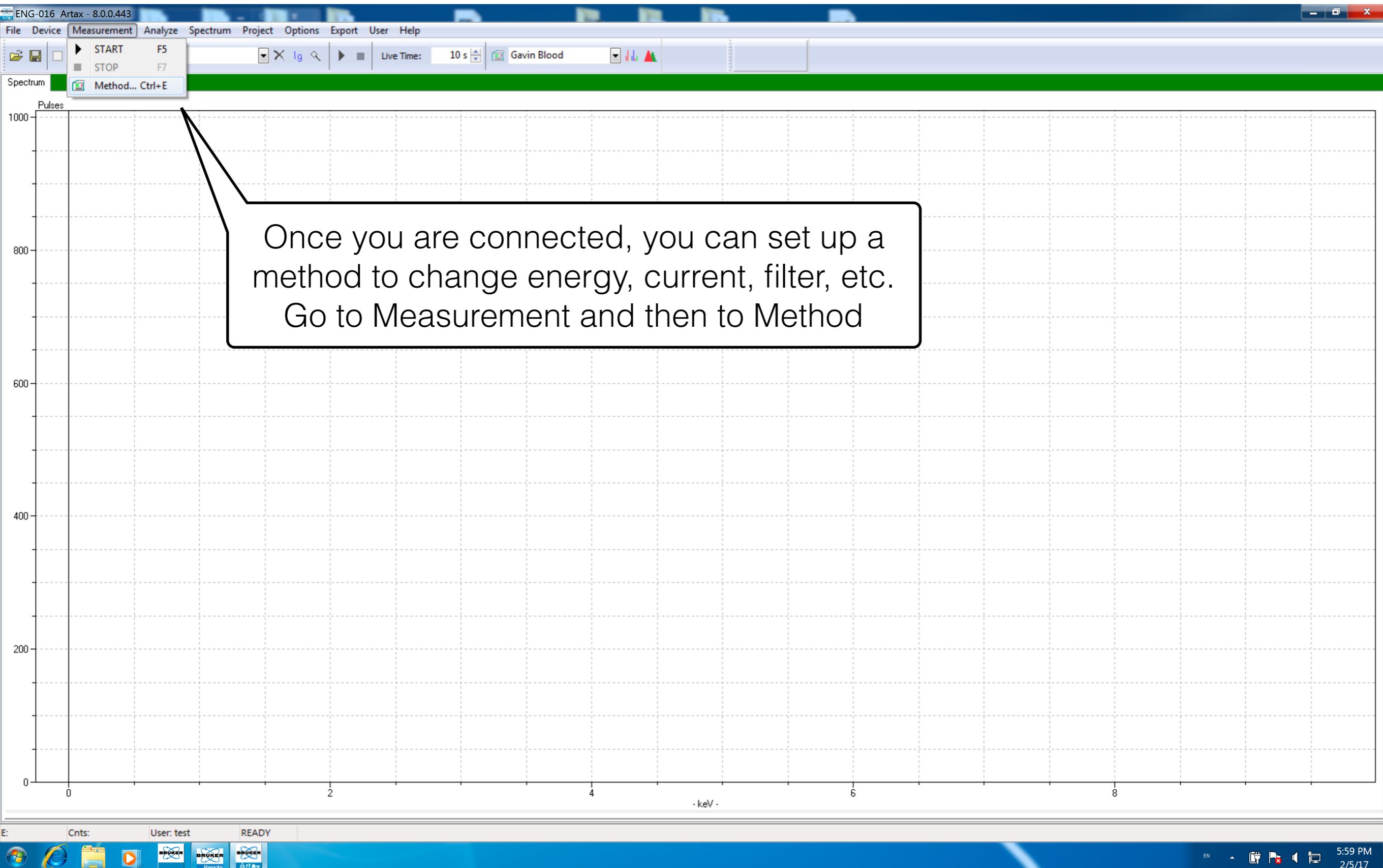
Name	IP Address
ENG-016	192.168.0.21

Buttons for 'Connect' and 'Cancel' are visible at the bottom of the dialog. A callout box points to the dialog with the text: 'Find your instrument's serial number in the box that opens'. The software title bar indicates 'Artax - 8.0.0.443'. The Windows taskbar at the bottom shows the system tray with the time '5:58 PM' and date '2/5/17'.

Artax Setup | Connecting the Instrument

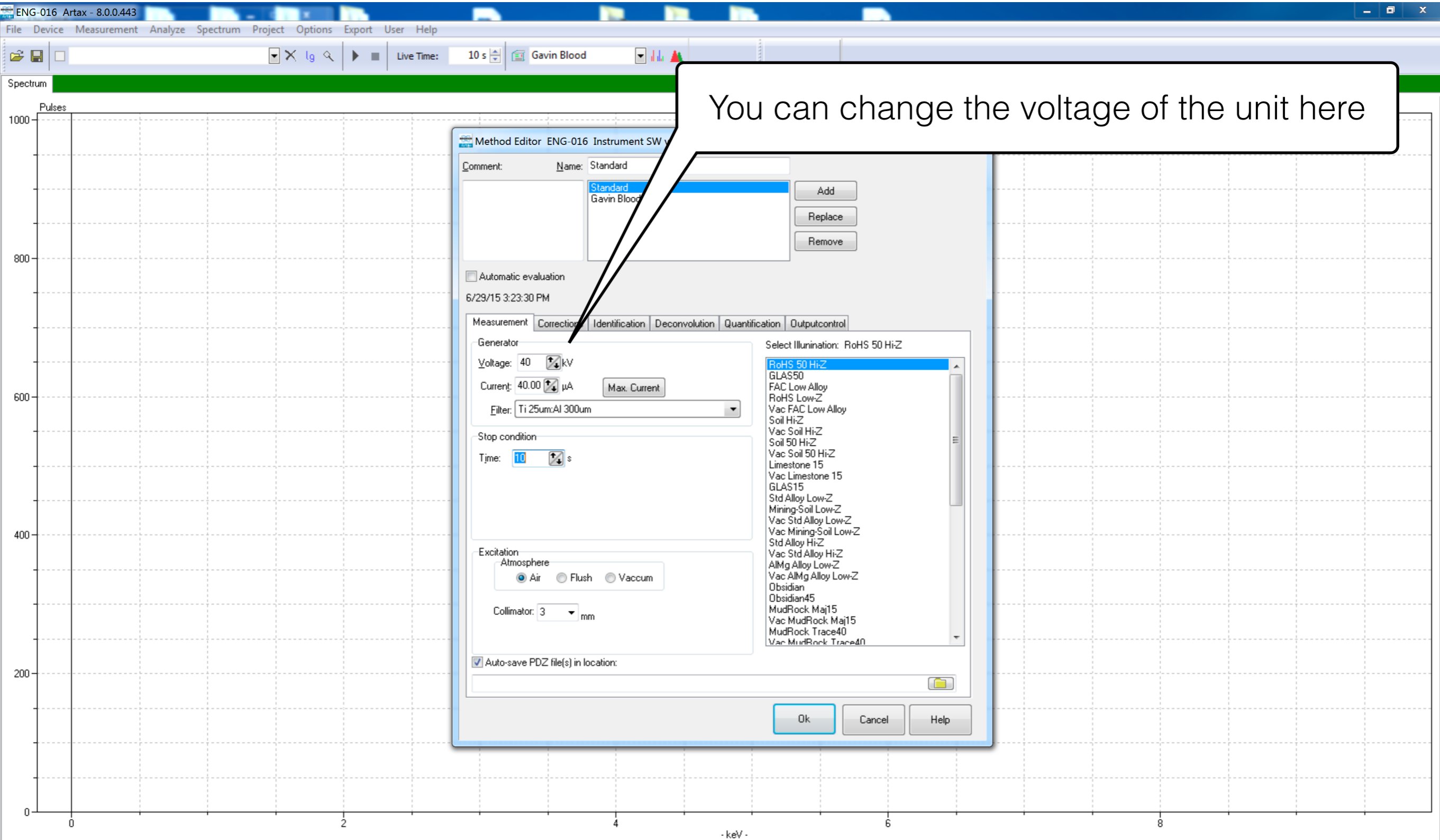


Artax Setup | Customizing Parameters

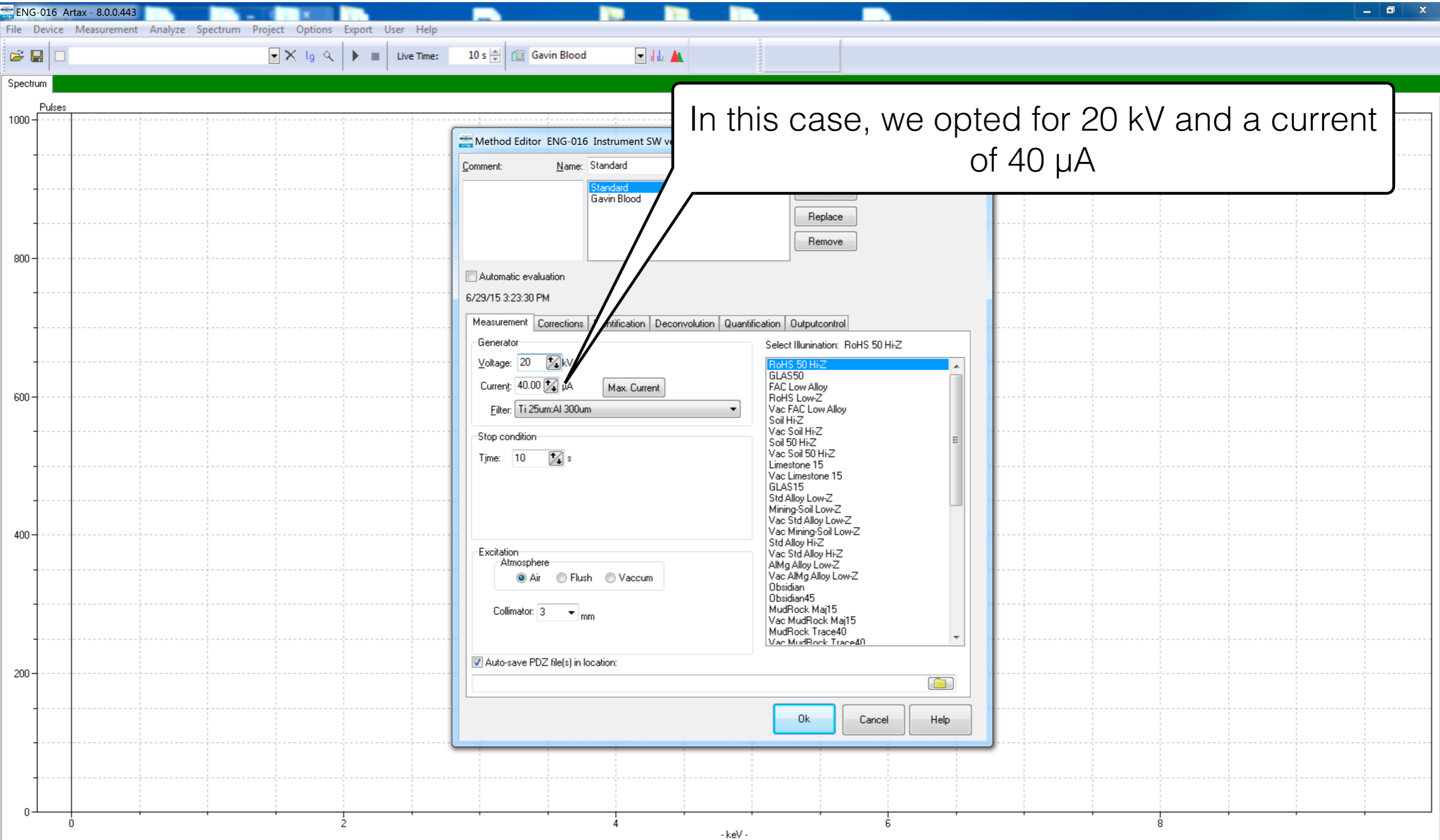


The screenshot displays the Artax software interface. The title bar reads "ENG-016 Artax - 8.0.0.443". The menu bar includes "File", "Device", "Measurement", "Analyze", "Spectrum", "Project", "Options", "Export", "User", and "Help". The "Measurement" menu is open, showing options: "START F5", "STOP F7", and "Method... Ctrl+E". A callout box points to the "Method..." option with the text: "Once you are connected, you can set up a method to change energy, current, filter, etc. Go to Measurement and then to Method". The main window shows a "Spectrum" plot with a y-axis labeled "Pulses" ranging from 0 to 1000 and an x-axis labeled "- keV -" ranging from 0 to 8. The status bar at the bottom indicates "E:", "Cnts:", "User: test", and "READY". The Windows taskbar at the bottom shows the time as 5:59 PM on 2/5/17.

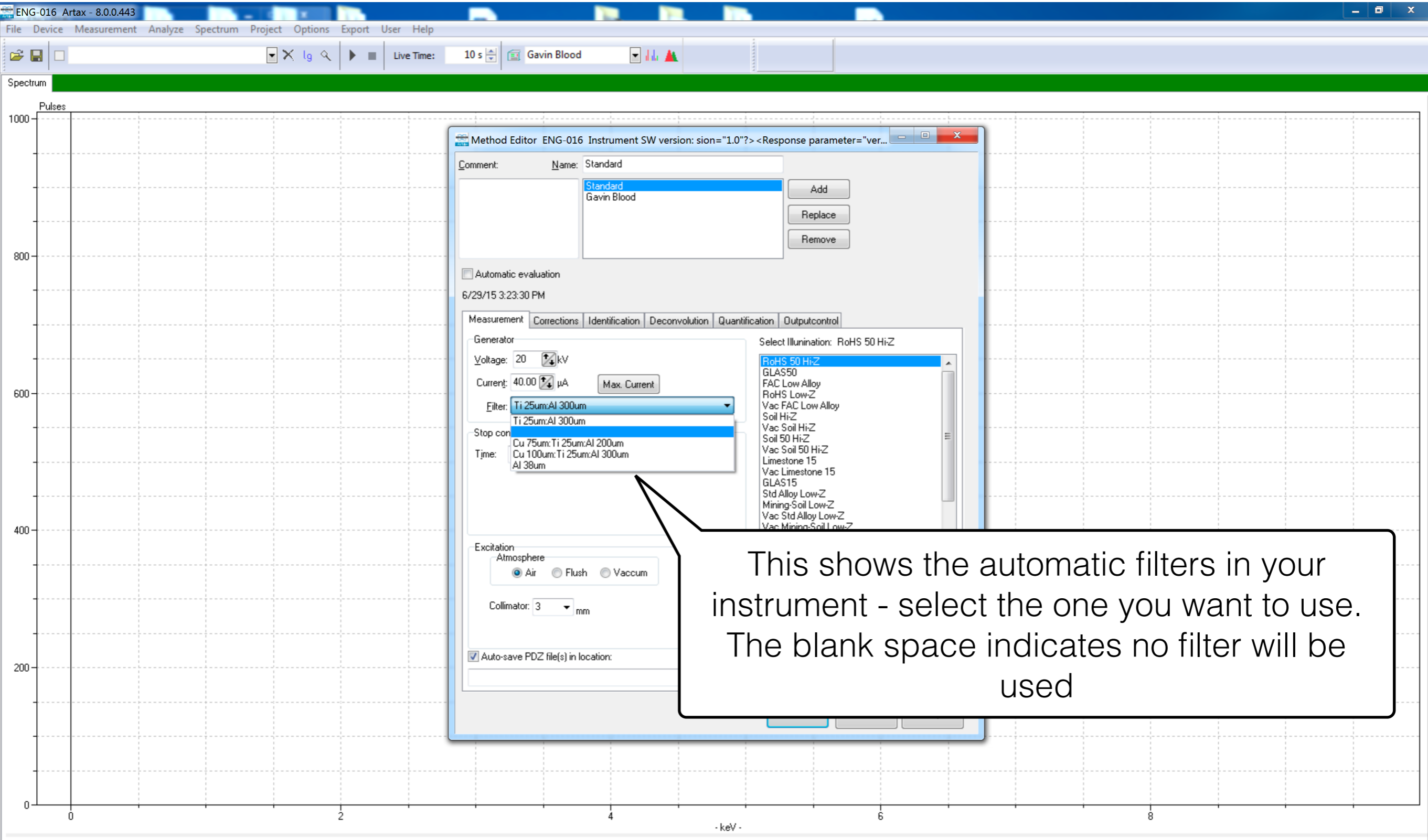
Artax Setup | Customizing Parameters



Artax Setup | Customizing Parameters

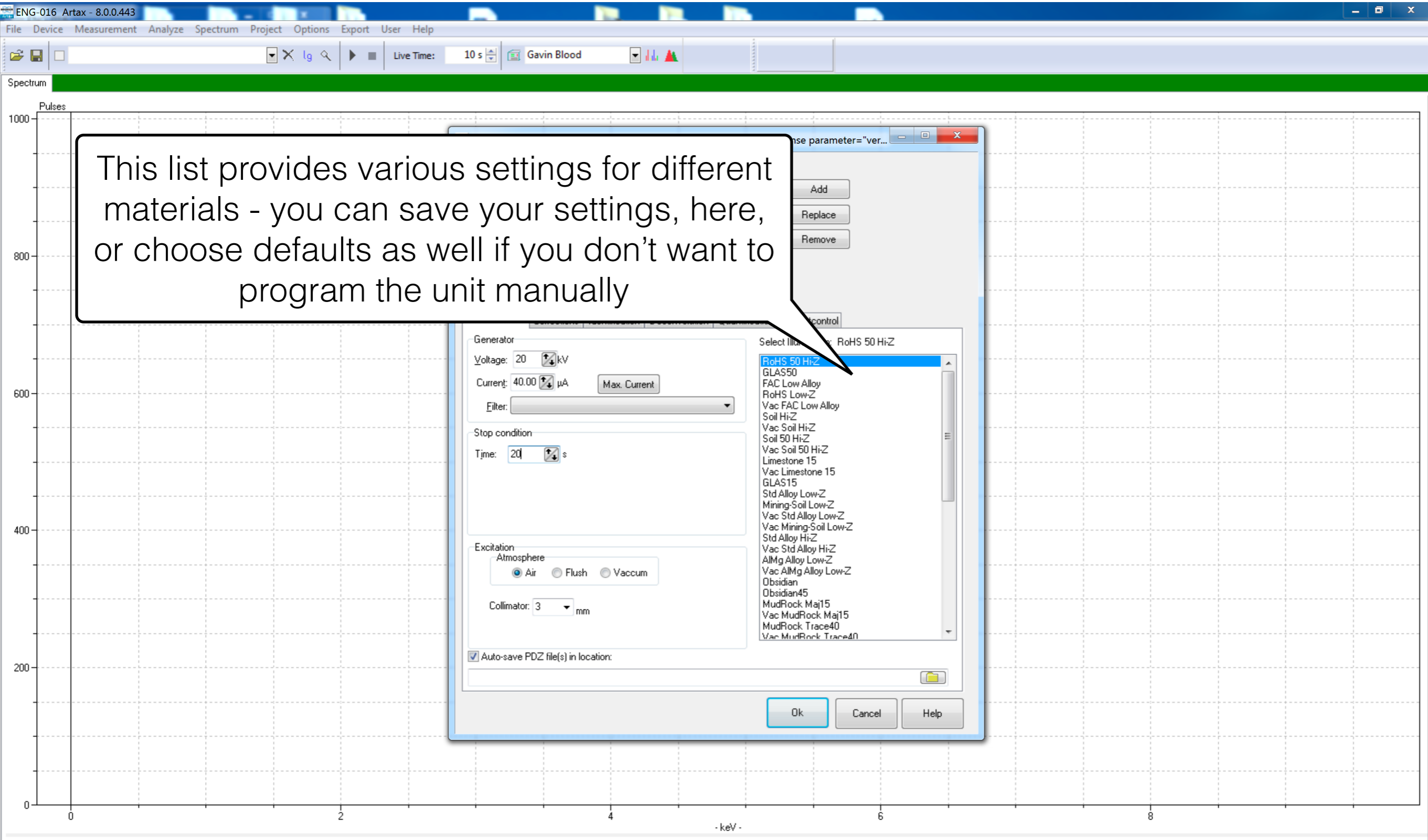


Artax Setup | Customizing Parameters

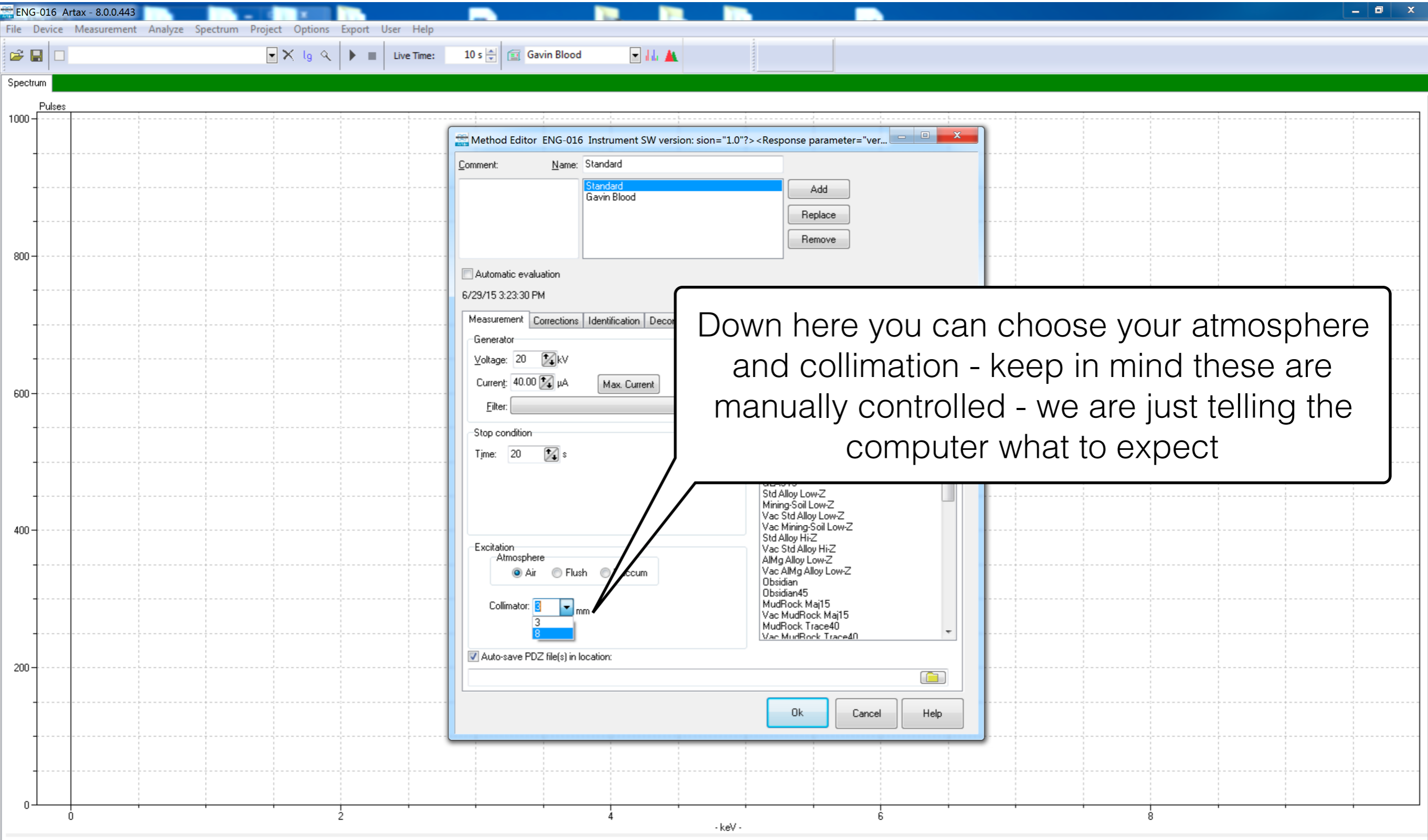


This shows the automatic filters in your instrument - select the one you want to use. The blank space indicates no filter will be used

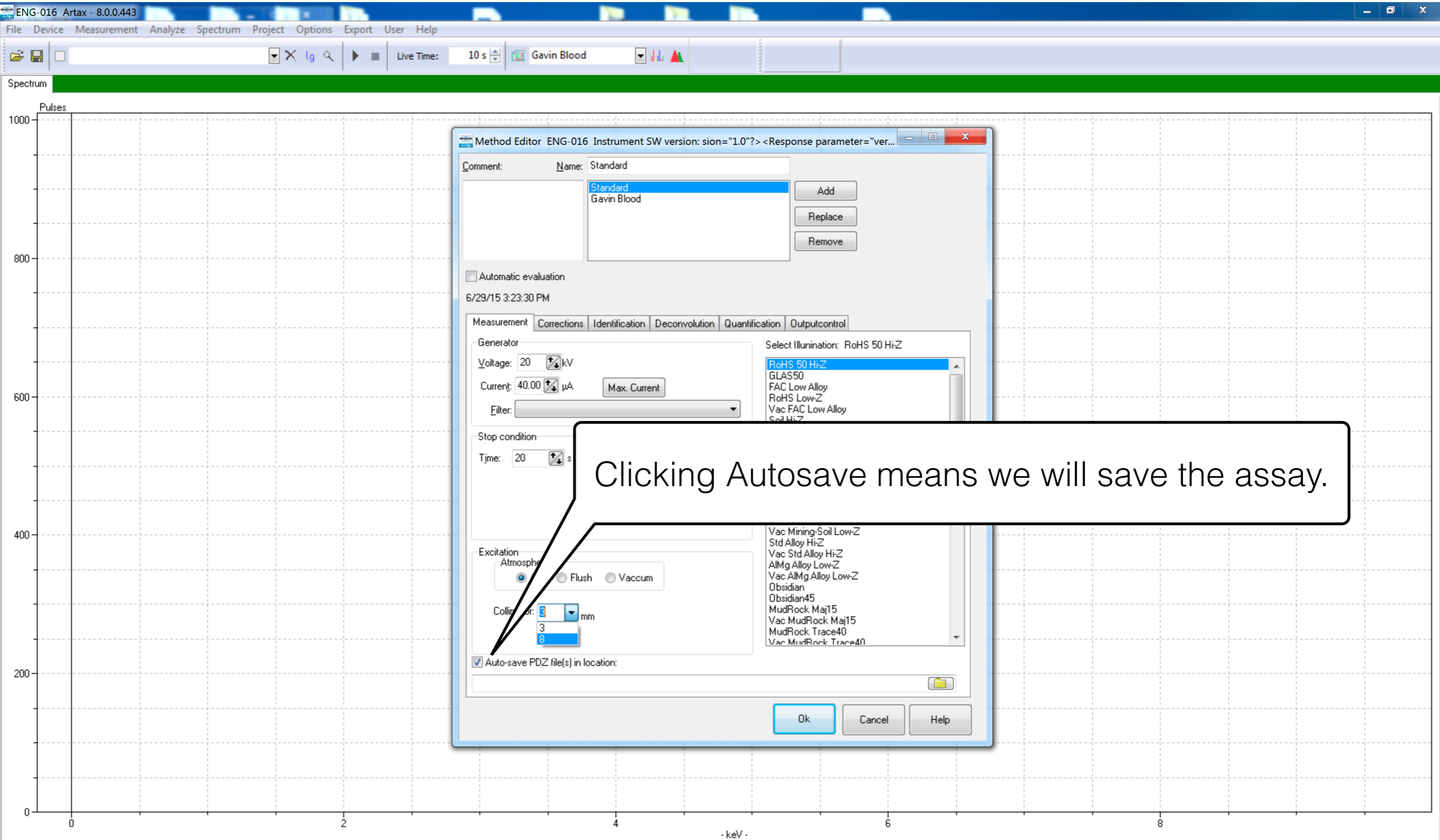
Artax Setup | Customizing Parameters



Artax Setup | Customizing Parameters



Artax Setup | Customizing Parameters



Artax Setup | Customizing Parameters

The screenshot displays the Artax software interface. The background shows a spectrum plot with the y-axis labeled 'Pulses' ranging from 0 to 1000 and the x-axis labeled '- keV -' ranging from 0 to 8. Overlaid on this is the 'Method Editor' dialog box for 'ENG-016'. The dialog box has several tabs: 'Measurement', 'Corrections', 'Identification', 'Deconvolution', 'Quantification', and 'Outputcontrol'. The 'Measurement' tab is active, showing settings for 'Generator' (Voltage: 20 kV, Current: 40.00 µA), 'Filter', 'Stop condition' (Time: 20 s), and 'Excitation' (Atmosphere: Air, Collimator: 3 mm). A 'Select Illumination' list is open, showing options like 'RoHS 50 Hi-Z', 'GLAS50', 'FAC Low Alloy', etc. A callout box points to a folder icon in the 'Auto-save PDZ file(s) in location:' field, with the text: 'Clicking on the folder here will let us choose a location to save the spectrum'. The dialog box also includes 'Add', 'Replace', and 'Remove' buttons, and 'Ok', 'Cancel', and 'Help' buttons at the bottom.

Clicking on the folder here will let us choose a location to save the spectrum

Artax Setup | Customizing Parameters

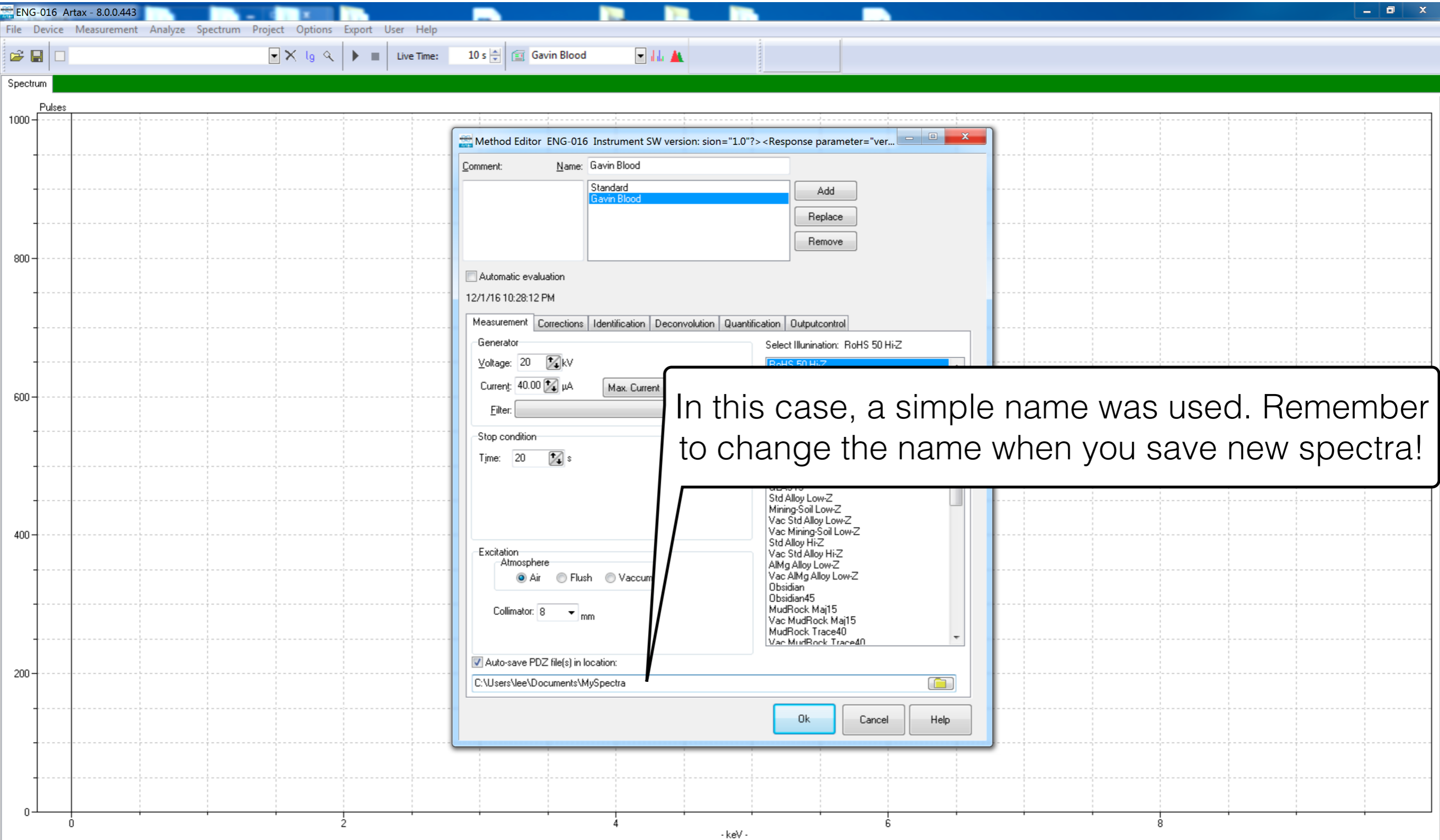
The image shows the Artax software interface. The main window displays a spectrum plot with the y-axis labeled 'Pulses' ranging from 0 to 1000 and the x-axis labeled '- keV -' ranging from 0 to 8. The plot area is currently empty. Overlaid on the plot is the 'Method Editor' dialog box for 'ENG-016'. The dialog box has several sections: 'Comment' (Name: Gavin Blood), 'Automatic evaluation' (unchecked), 'Measurement' (Generator: Voltage: 20, Current: 40.0, Filter: [blank], Stop condition: Time: 20), 'Excitation' (Atmosphere: Air selected, Collimator: 8 mm), and 'Auto-save PDZ file(s) in location: \\Mac\Home\Documents\bruker\Artax\data'. A 'Select Directory' dialog box is open over the Method Editor, showing a tree view of directories with 'Documents' selected. A callout box with a black border and white background points to the 'Documents' folder, containing the text: 'Navigate to the folder location you want to store your spectra'. The Windows taskbar at the bottom shows the system tray with the time 6:04 PM and date 2/5/17.

Artax Setup | Customizing Parameters

The screenshot displays the Artax software interface. The background shows a spectrum plot with the y-axis labeled 'Pulses' ranging from 0 to 1000 and the x-axis labeled '- keV -' ranging from 0 to 8. The plot area is currently empty. Overlaid on the plot is the 'Method Editor' dialog box for 'ENG-016'. The dialog box has a title bar that reads 'Method Editor ENG-016 Instrument SW version: sion="1.0"? <Response parameter="ver...'. It contains several sections: 'Comment' and 'Name' fields (with 'Gavin Blood' entered in the Name field), a list of standards including 'Standard' and 'Gavin Blood', and buttons for 'Add', 'Replace', and 'Remove'. Below this is a checkbox for 'Automatic evaluation' and a timestamp '12/1/16 10:28:12 PM'. The 'Measurement' tab is selected, showing 'Generator' settings (Voltage: 20 kV, Current: 40.00 μA, Filter: empty), 'Stop condition' (Time: 20 s), and 'Excitation' settings (Atmosphere: Air, Collimator: 8 mm). At the bottom, there is a checkbox for 'Auto-save PDZ file(s) in location:' with the path 'C:\Users\lee\Documents\'. A list of standard names is visible in a scrollable area, including 'Std Alloy Low-Z', 'Mining-Soil Low-Z', 'Vac Std Alloy Low-Z', 'Vac Mining-Soil Low-Z', 'Std Alloy Hi-Z', 'Vac Std Alloy Hi-Z', 'AlMg Alloy Low-Z', 'Vac AlMg Alloy Low-Z', 'Obsidian', 'Obsidian45', 'MudRock Maj15', 'Vac MudRock Maj15', 'MudRock Trace40', and 'Vac MudRock Trace40'. A text box with a pointer indicates that the path bar at the bottom will show a folder path and that a backslash and filename should be added.

The bar at the bottom will now show a folder path - next you will add a backslash “\” and the name of the file you want to save

Artax Setup | Customizing Parameters



In this case, a simple name was used. Remember to change the name when you save new spectra!

Artax Setup | Taking a Measurement

The screenshot displays the Artax software interface. At the top, the menu bar includes File, Device, Measurement, Analyze, Spectrum, Project, Options, Export, User, and Help. Below the menu bar, the status bar shows 'Live Time: 20 s' and 'Standard'. The main window is titled 'Spectrum' and features a plot area with a grid. The y-axis is labeled 'Pulses' and ranges from 0 to 1000. The x-axis is labeled '- keV -' and ranges from 0 to 8. A callout box with a black border and a pointer to a play button icon in the toolbar contains the text: 'Once that is set up, you can start the assay by clicking on the triangle symbol'. The Windows taskbar at the bottom shows the system tray with the time '6:07 PM' and date '2/5/17'.

ENG-016 Artax - 8.0.0.443

File Device Measurement Analyze Spectrum Project Options Export User Help

Live Time: 20 s Standard

Spectrum

Pulses

1000

800

600

400

200

0

0 2 4 6 8

- keV -

Start measurement (F5)

Once that is set up, you can start the assay by clicking on the triangle symbol

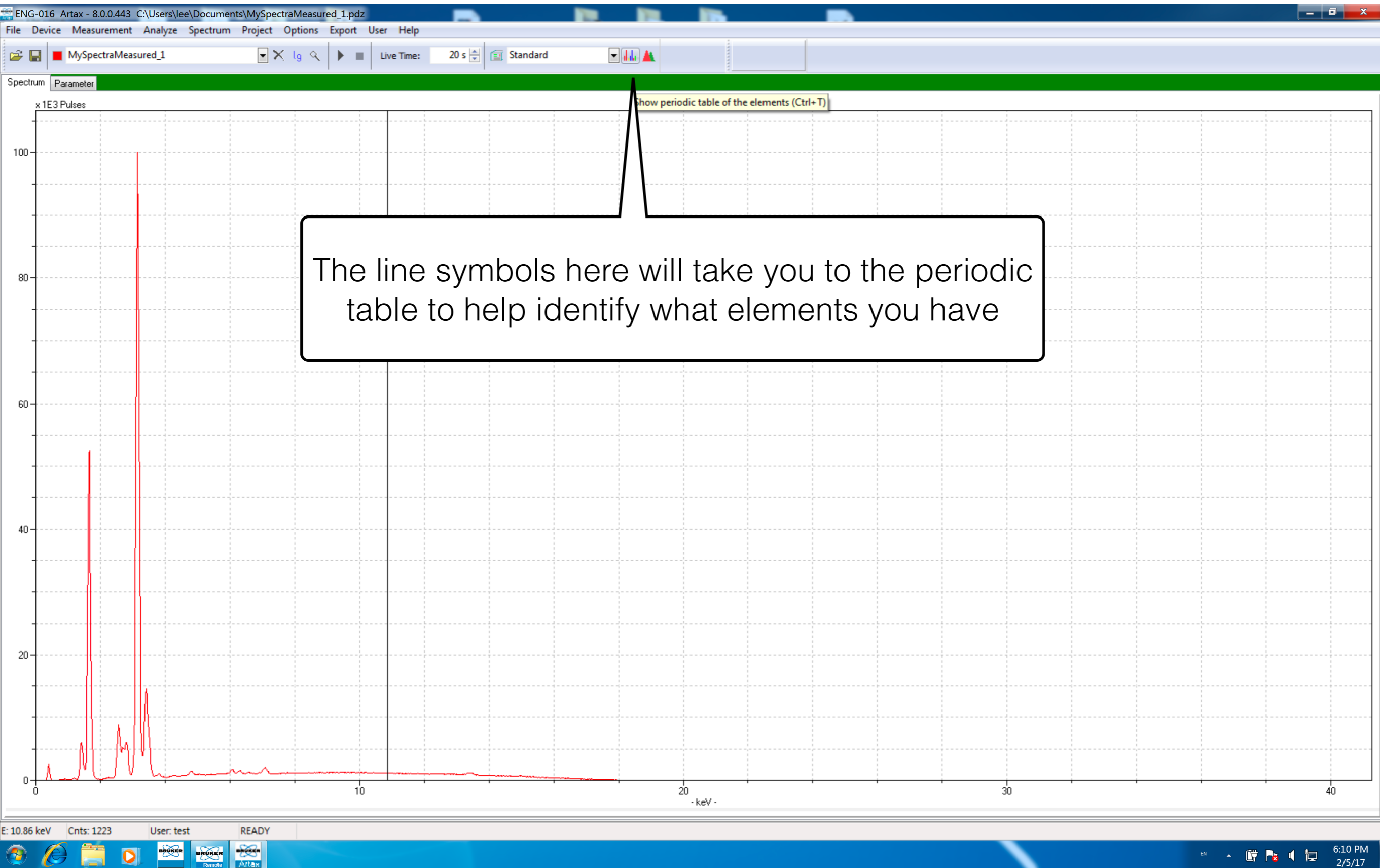
E: Cnts: User: test READY

6:07 PM 2/5/17

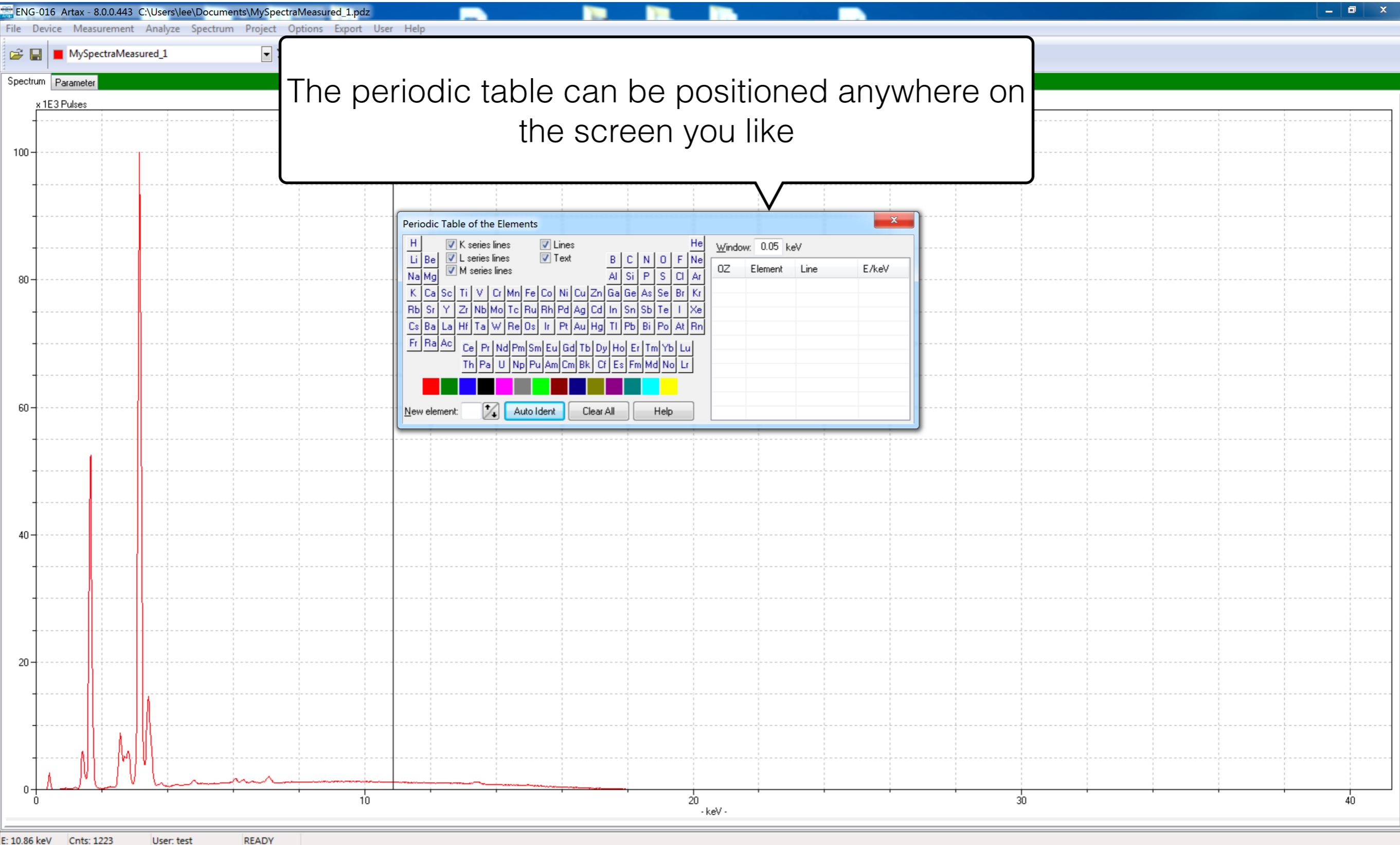
Artax Setup | Taking a Measurement



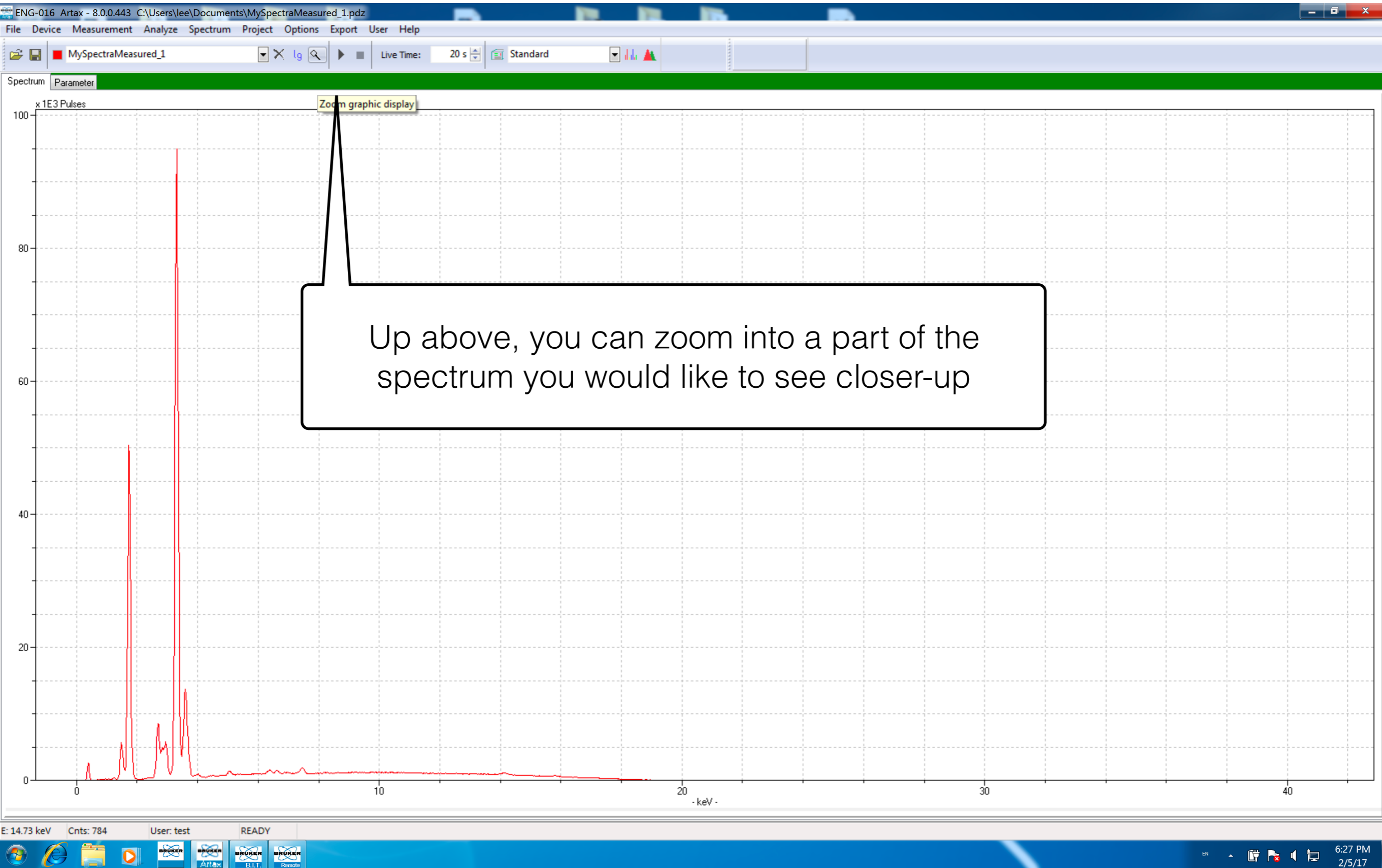
Artax Setup | Taking a Measurement



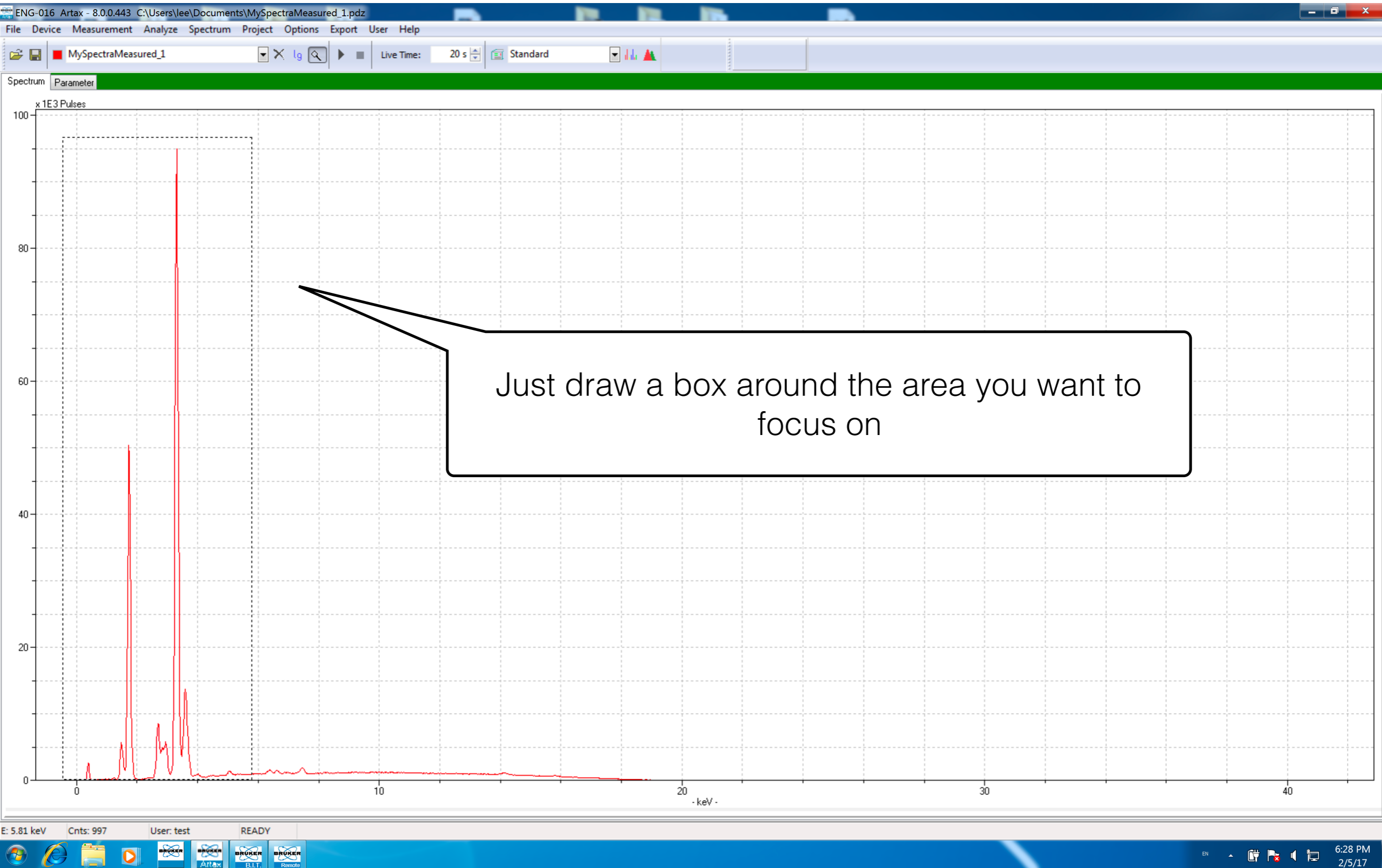
Artax Setup | Taking a Measurement



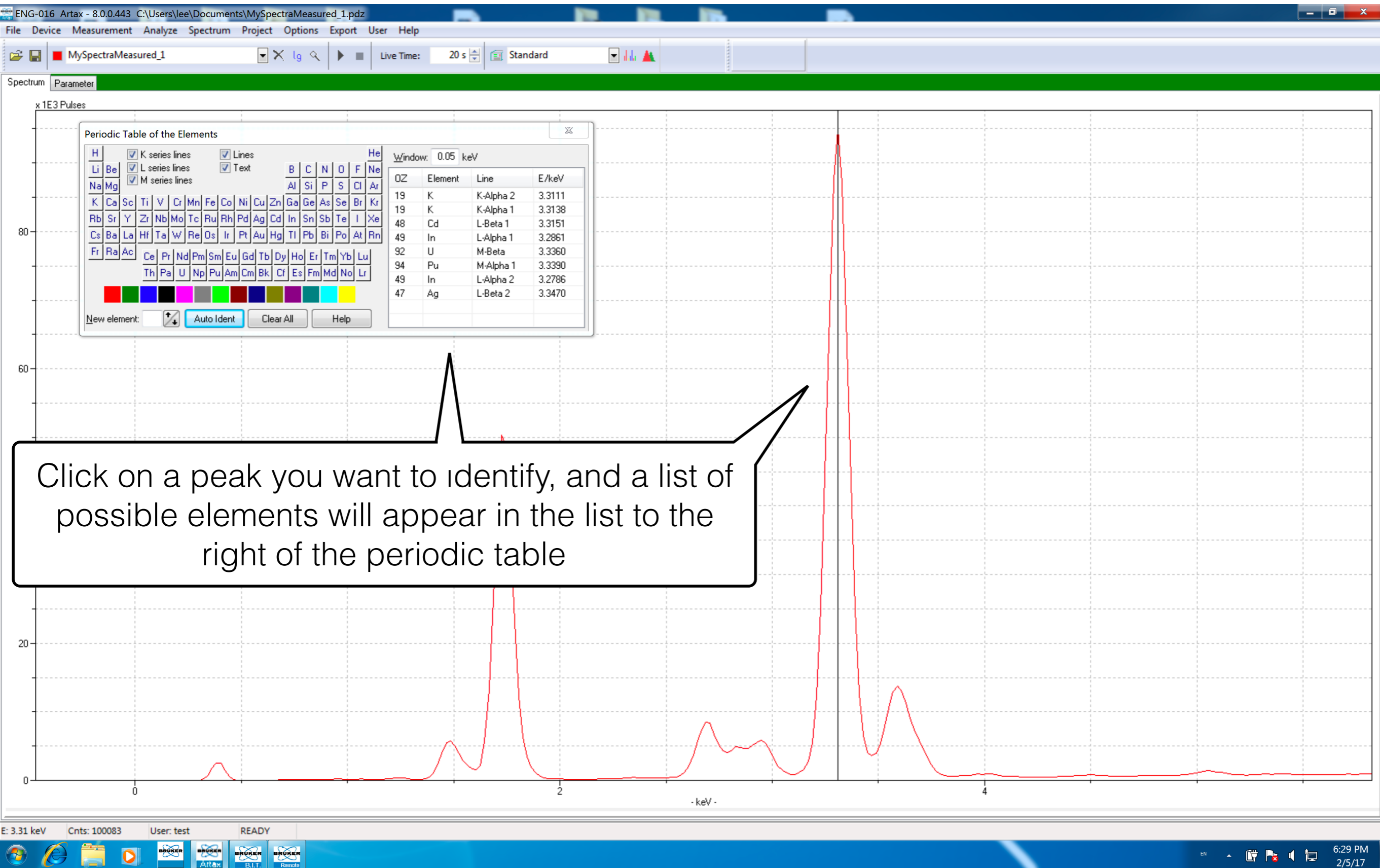
Artax Setup | Examining a Spectrum



Artax Setup | Examining a Spectrum



Artax Setup | Examining a Spectrum



Artax Setup | Examining a Spectrum

