

Example

May 13, 2020

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Versions of modules used:

AnalysisFunctions: 0.1

FrontendFunctions: 0.1

PyNexus: v4.1

Check that you are using the last versions of the modules and read the manual on:

<https://github.com/ArnaudHemmerle/JupyFluo>

1 Sample Confined at home

This is a nice sample.

Saved: spectrum_100_fig.csv

Saved: spectrum_100_fit.png

Fit results for SIRIUS_Fluo_2020_02_16_02289.nxs

Spectrum interval = [50,1405]

Channel interval = [150,1250]

List of chosen elements: ['Element 4']

Parameters used:

gain = 9.89; eV0 = 6

List of fitted parameters: ['sl', 'ct', 'noise', 'fG']

Initial fit parameters:

epsilon = 0.0036; fan = 0.115; noise = 0.113

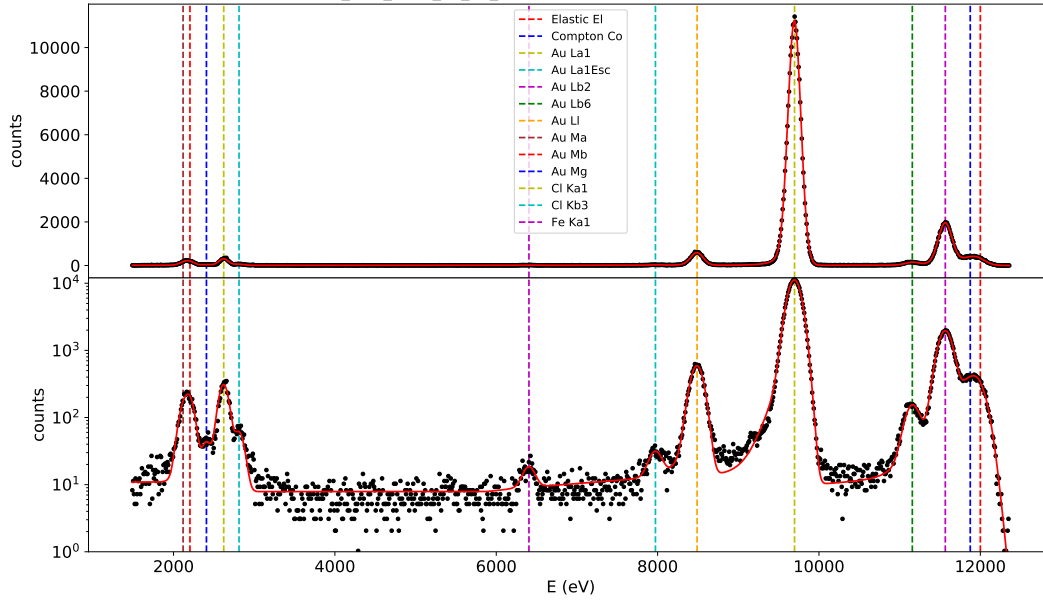
sl = 0.002363; ct = -13.877

sfa0 = -0.0002114; sfa1 = 0.0001089; tfb0 = 0.080845; tfb1 = 1e-10

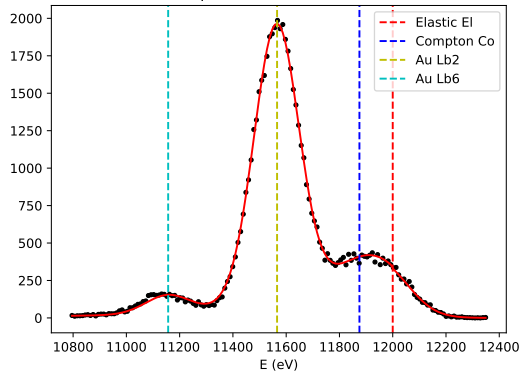
twc0 = 0.5164; twc1 = 0.1003

fG = 1.479

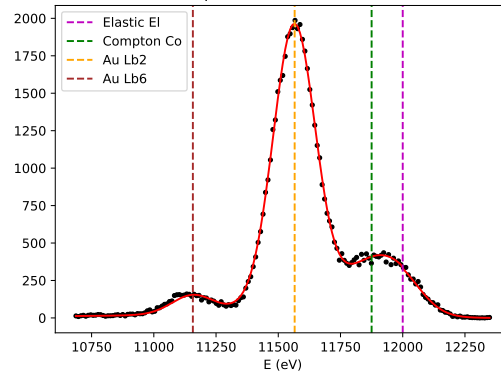
fA = 1e-10; fB = 1e-10; gammaA = 1e+10; gammaB = 1e+10



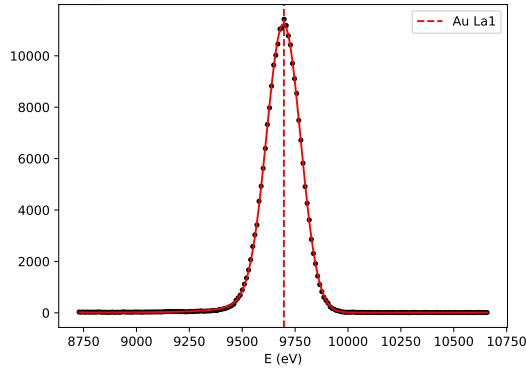
Elastic EI
elem area = 22.2768, relative int = 1
position = 12000 eV



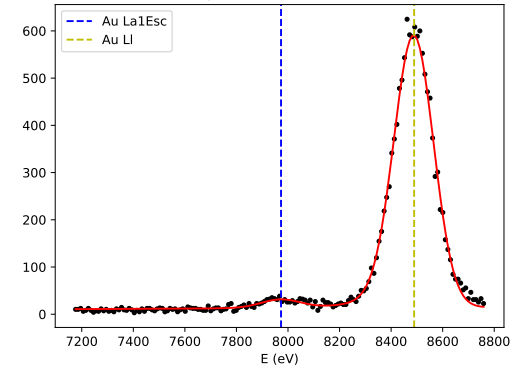
Compton Co
elem area = 114.844, relative int = 1
position = 11875 eV

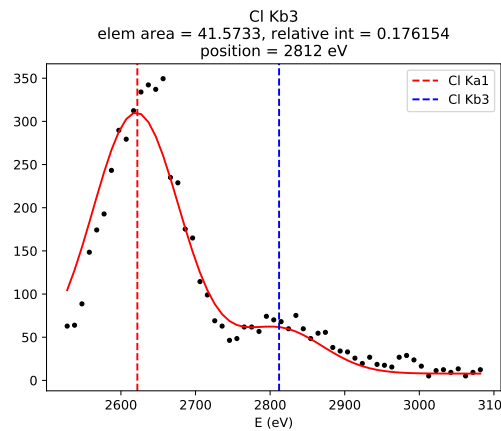
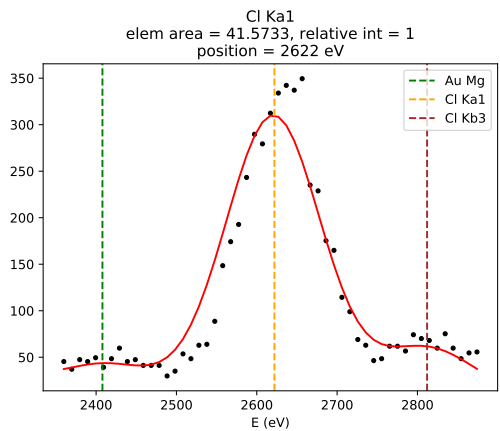
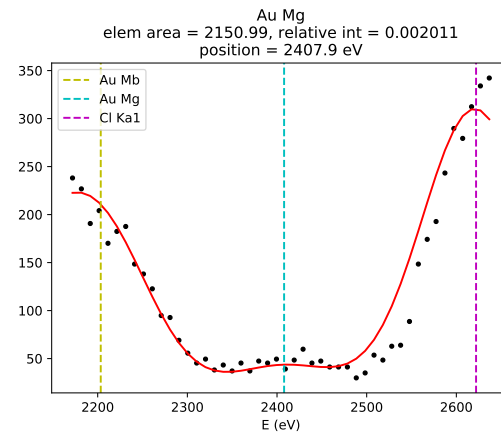
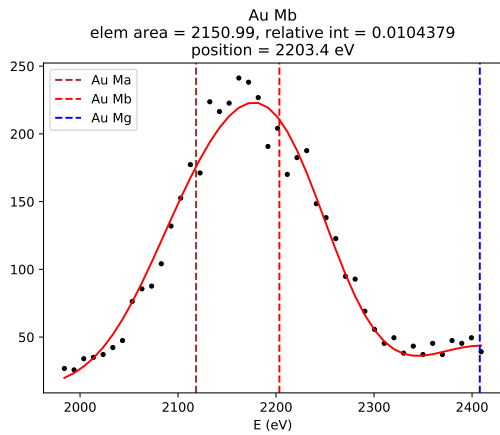
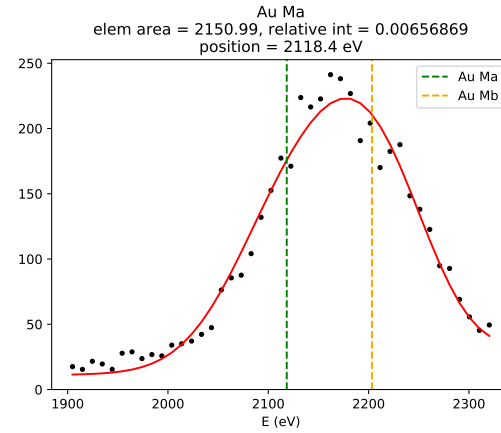
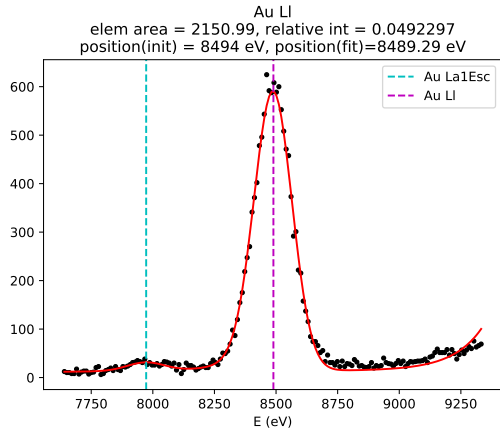
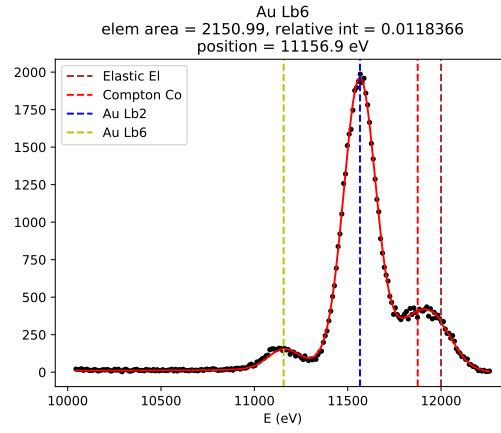
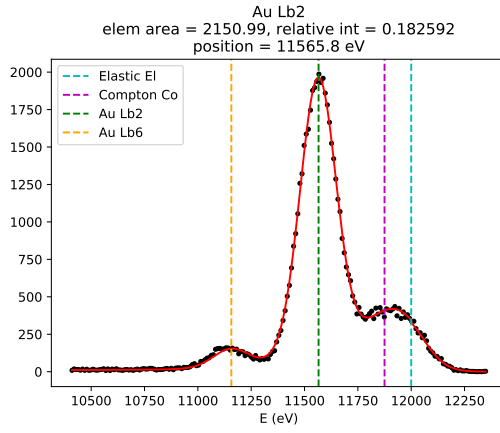


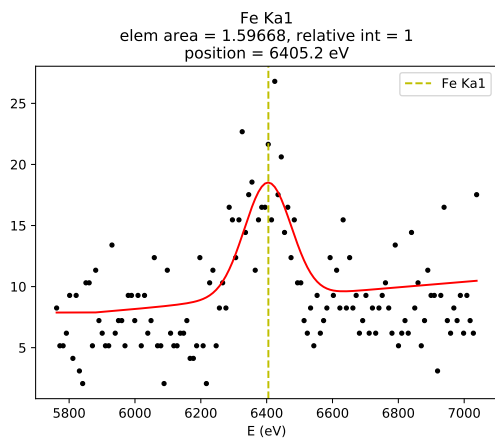
Au La1
elem area = 2150.99, relative int = 1
position(init) = 9713 eV, position(fit)=9697.11 eV



Au La1Esc
elem area = 2150.99, relative int = 0.00152153
position = 7973 eV







PEAK AREA

