Example

June 11, 2020

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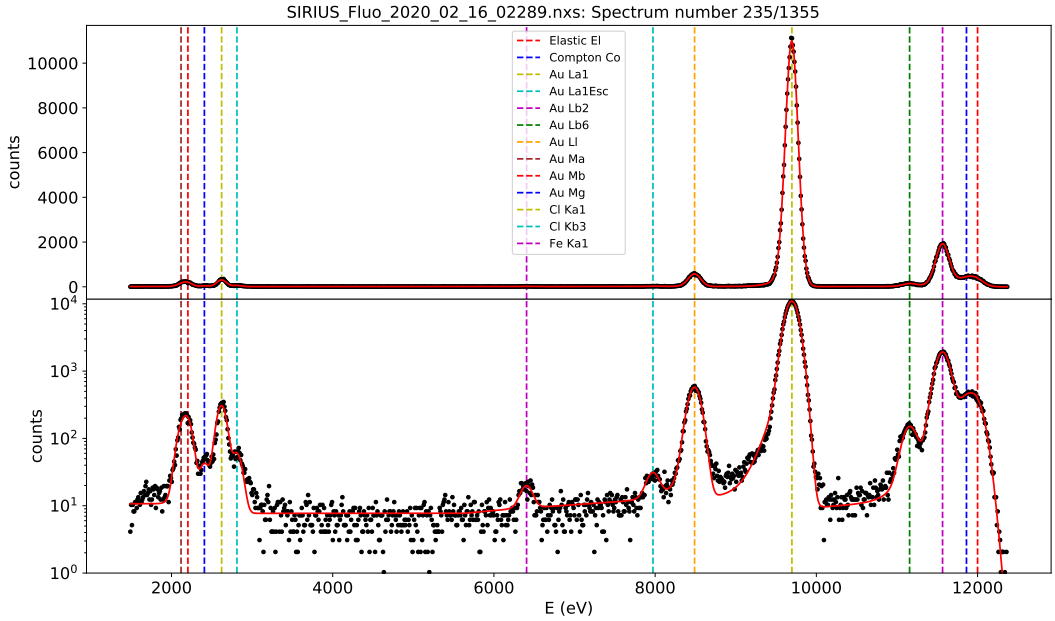
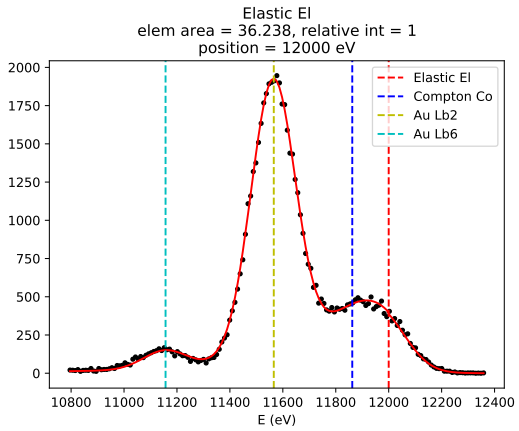
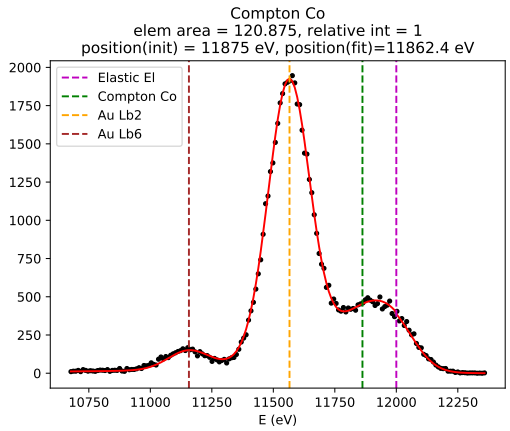
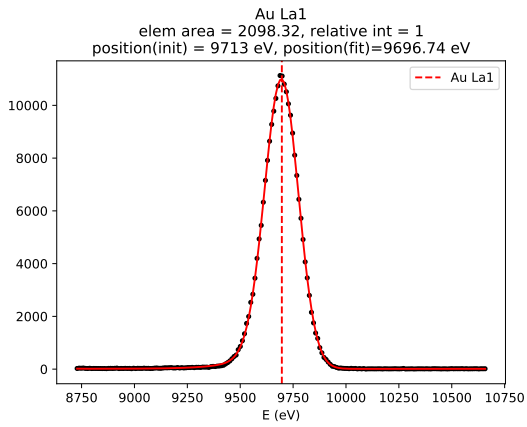
This is a nice sample.

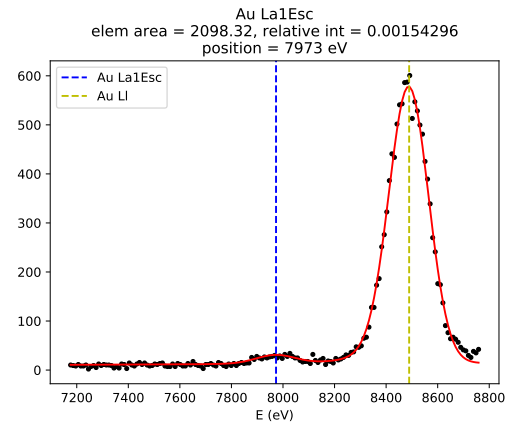
```
Fit results for SIRIUS_Fluo_2020_02_16_02289.nxs
Spectrum interval = [50,1405]
Channel interval = [150,1250]
List of chosen elements:  ['Element 4']

Parameters used:
gain = 9.89; eV0 = 6
List of fitted parameters: ['sl', 'ct']

Initial fit parameters:
epsilon = 0.0036; fano = 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
```

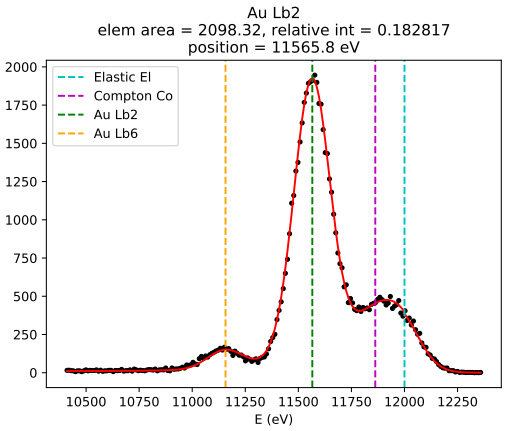

SIRIUS_Fluo_2020_02_16_02289.nxs: Spectrum number 235/1355
Elastic El
Compton Co
Au La1
Au La1Esc
Au Lb2
Au Lb6
Au Ll
Au Ma
Au Mb
Au Mg
Cl Ka1
Cl Kb3
Fe Ka1
counts
E (eV)

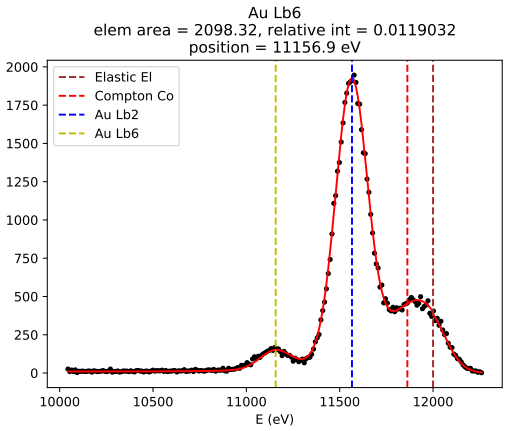

Elastic El
elem area = 36.238, relative int = 1
position = 12000 eV
Elastic El
Compton Co
Au Lb2
Au Lb6
E (eV)

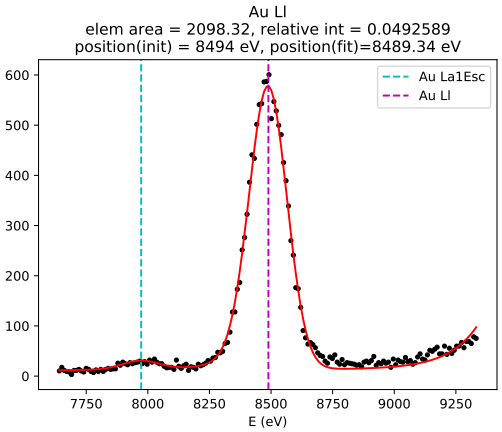

Compton Co
elem area = 120.875, relative int = 1
position(init) = 11875 eV, position(fit)=11862.4 eV
Elastic El
Compton Co
Au Lb2
Au Lb6
E (eV)

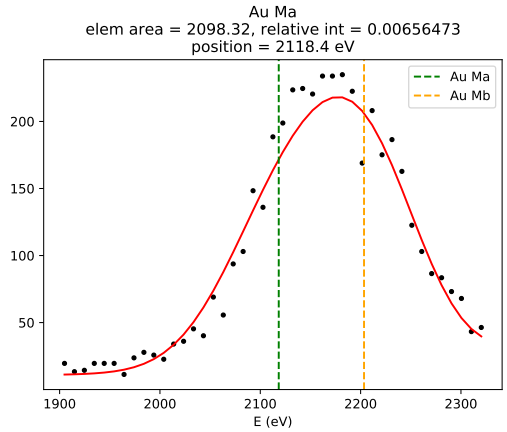

Au La1
elem area = 2098.32, relative int = 1
position(init) = 9713 eV, position(fit)=9696.74 eV
Au La1
E (eV)

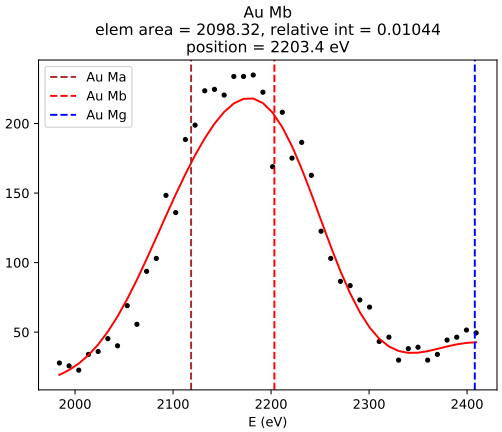

Au La1Esc
elem area = 2098.32, relative int = 0.00154296
position = 7973 eV
Au La1Esc
Au Ll
E (eV)

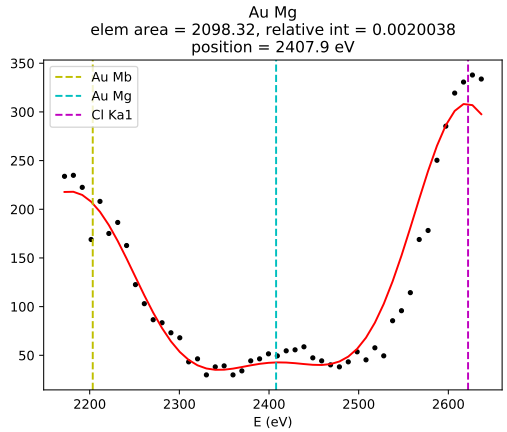

Au Lb2
elem area = 2098.32, relative int = 0.182817
position = 11565.8 eV
Elastic El
Compton Co
Au Lb2
Au Lb6
E (eV)

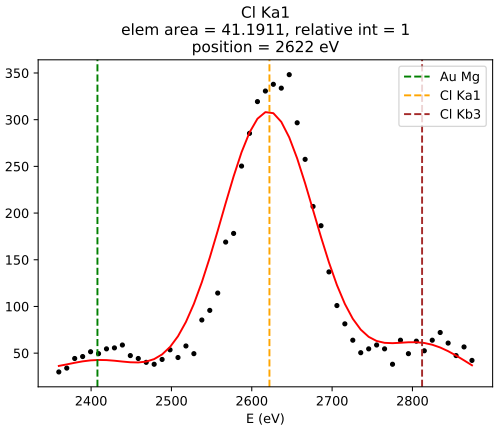

Au Lb6
elem area = 2098.32, relative int = 0.0119032
position = 11156.9 eV
Elastic El
Compton Co
Au Lb2
Au Lb6
E (eV)

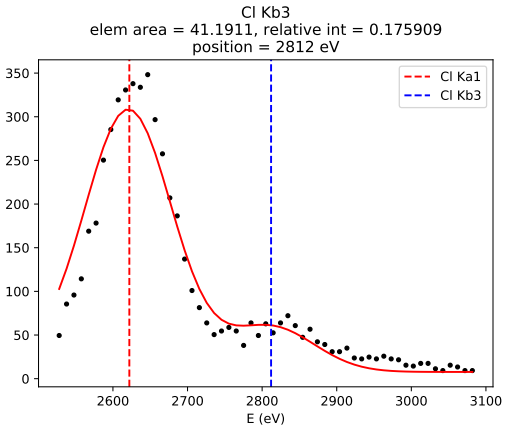

Au Ll
elem area = 2098.32, relative int = 0.0492589
position(init) = 8494 eV, position(fit)=8489.34 eV
Au La1Esc
Au Ll
E (eV)

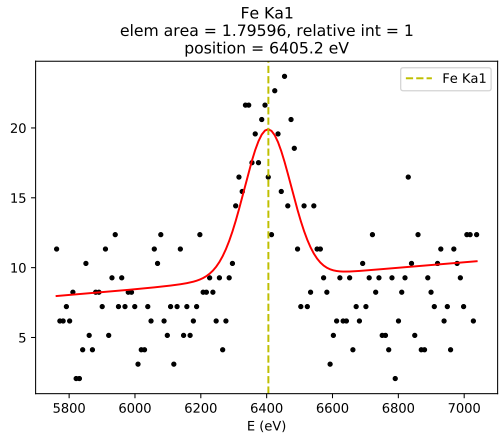

Au Ma
elem area = 2098.32, relative int = 0.00656473
position = 2118.4 eV
Au Ma
Au Mb
E (eV)


Au Mb
elem area = 2098.32, relative int = 0.01044
position = 2203.4 eV
Au Ma
Au Mb
Au Mg
E (eV)

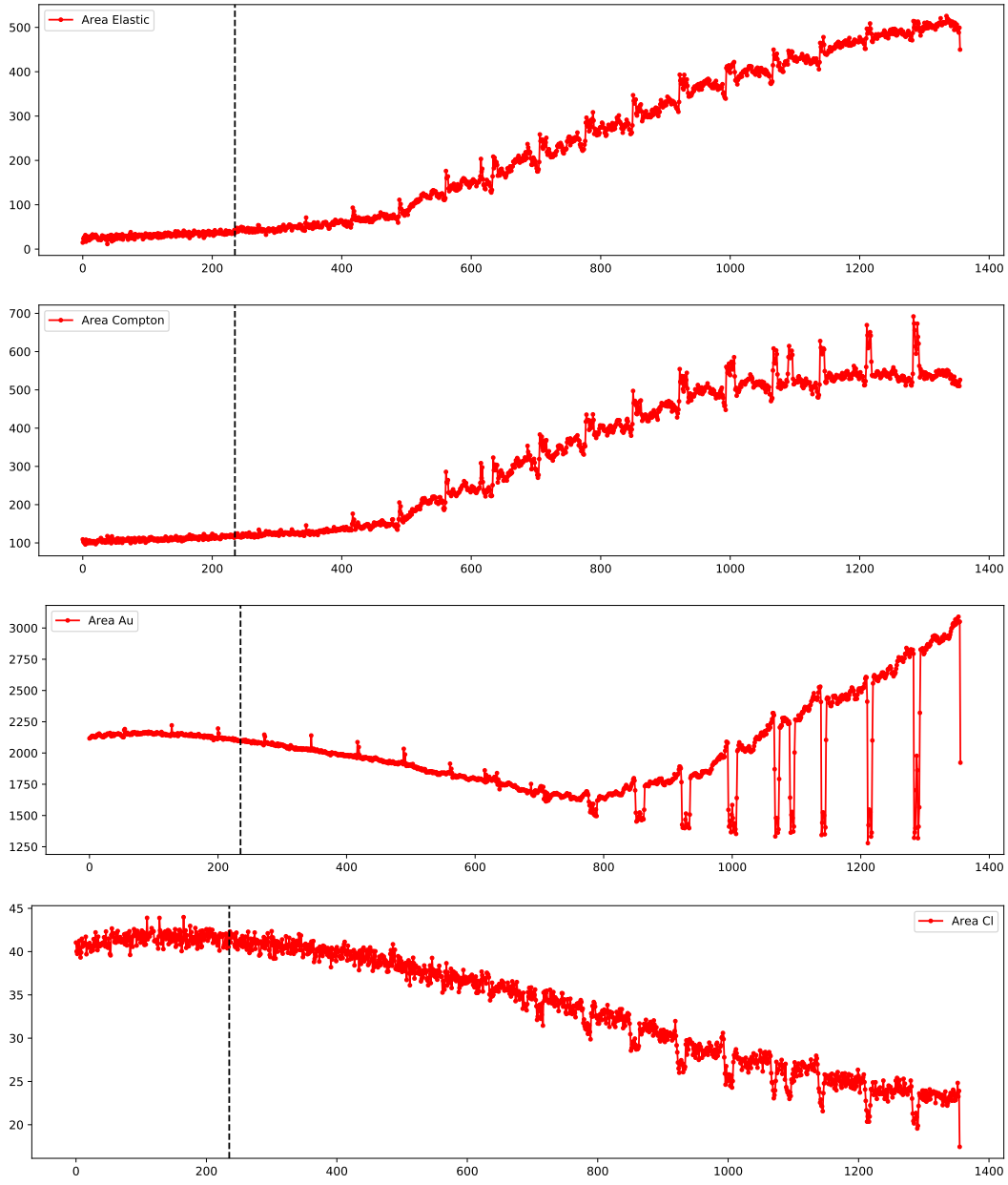

Au Mg
elem area = 2098.32, relative int = 0.0020038
position = 2407.9 eV
Au Mb
Au Mg
Cl Ka1
E (eV)

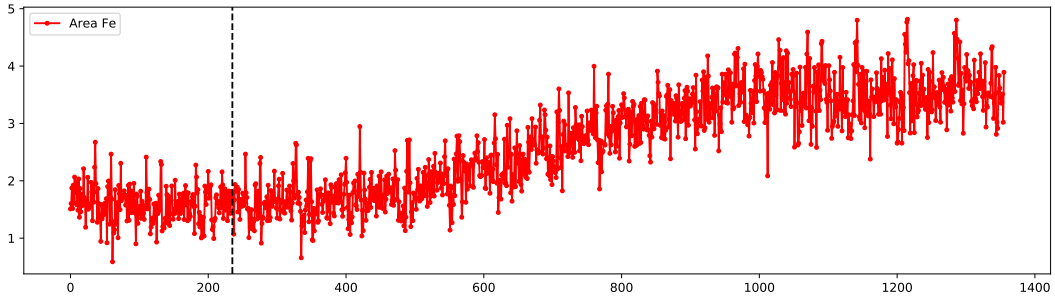

Cl Ka1
elem area = 41.1911, relative int = 1
position = 2622 eV
Au Mg
Cl Ka1
Cl Kb3
E (eV)


Cl Kb3
elem area = 41.1911, relative int = 0.175909
position = 2812 eV
Cl Ka1
Cl Kb3
E (eV)

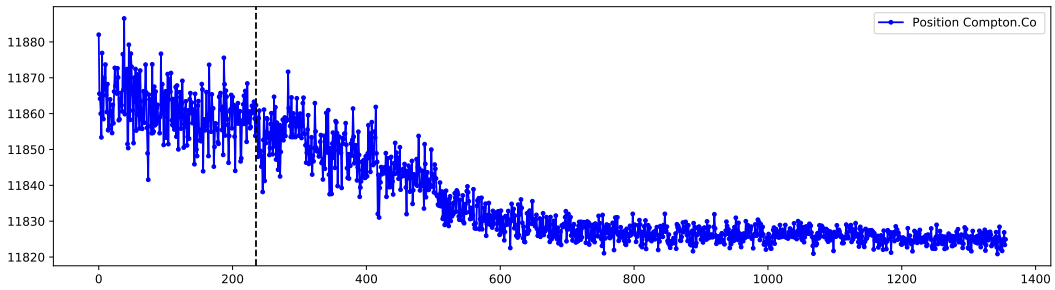

Fe Ka1
elem area = 1.79596, relative int = 1
position = 6405.2 eV
Fe Ka1
E (eV)

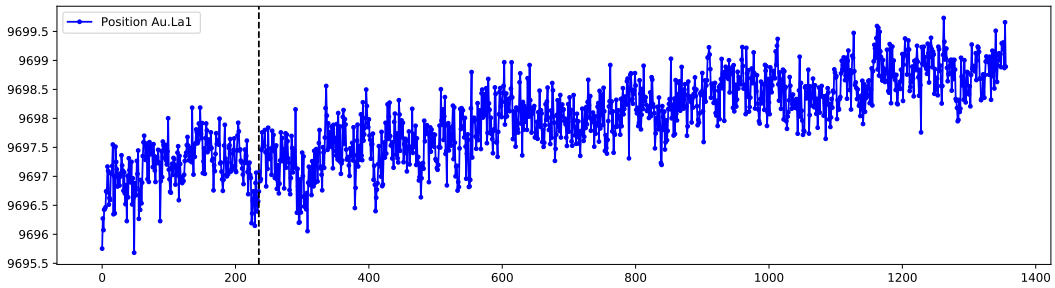
PEAK AREA

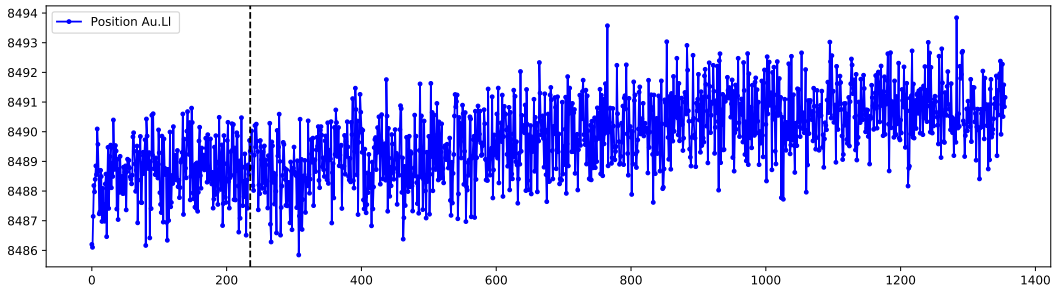

Area Elastic
Area Compton
Area Au
Area Cl



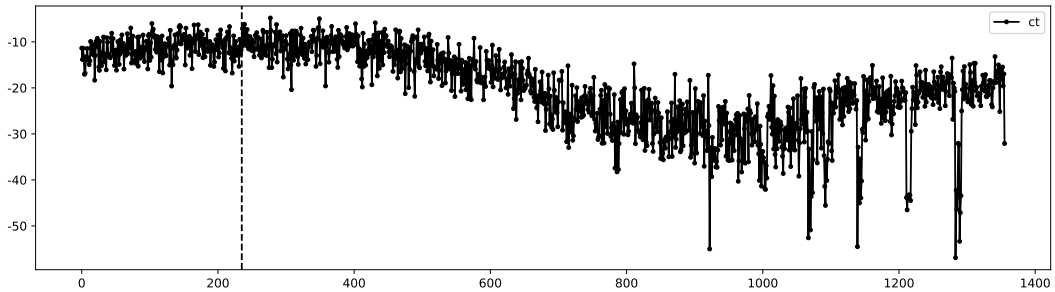
PEAK POSITION

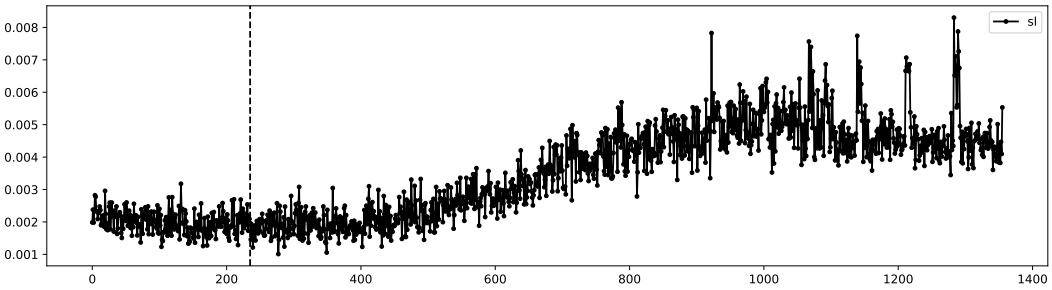






OTHER PARAMETERS




sl
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0.007
0.006
0.005
0.004
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0
200
400
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800
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