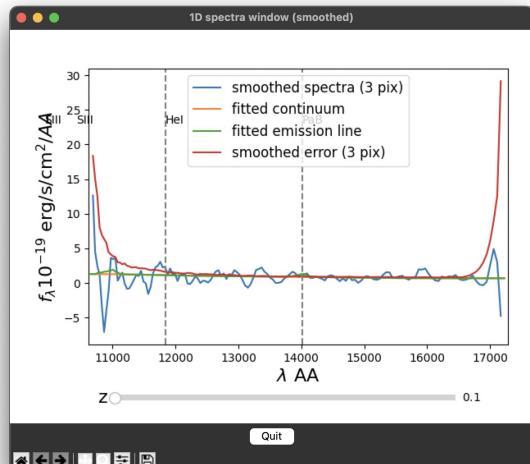
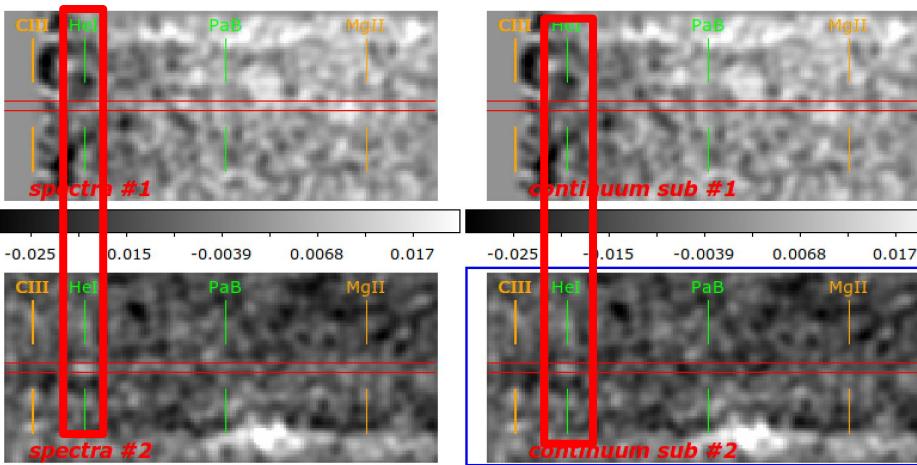
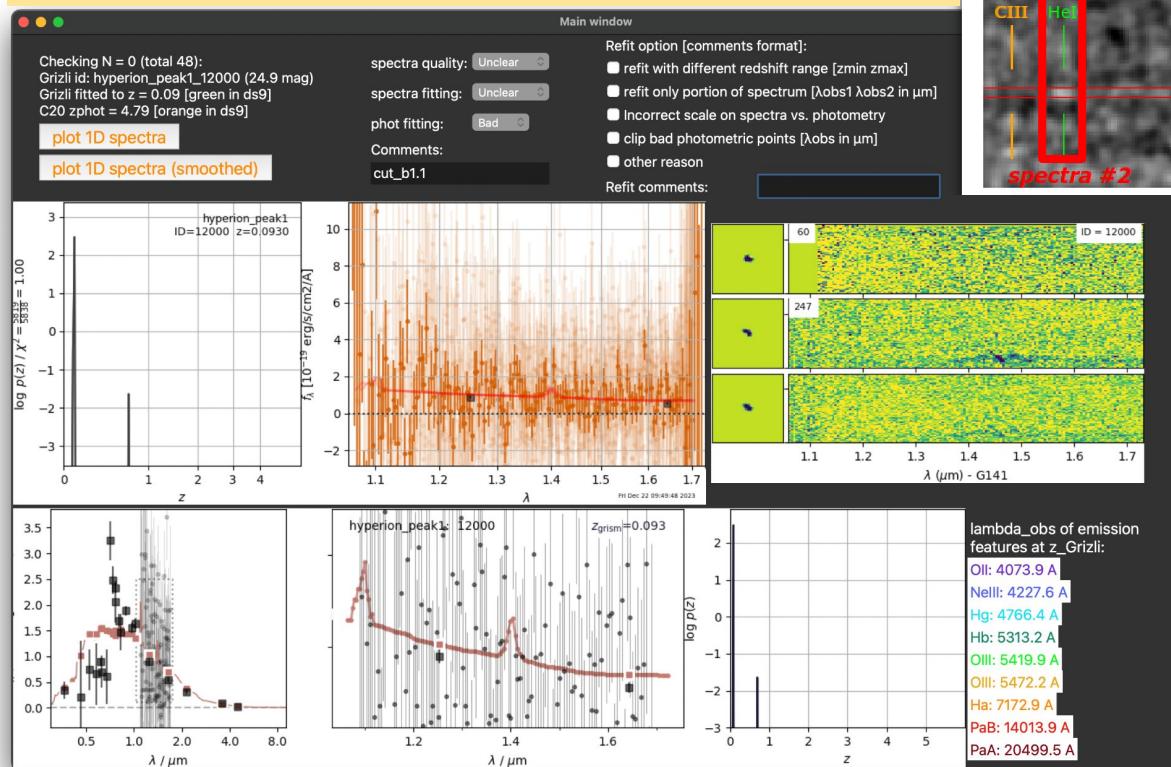


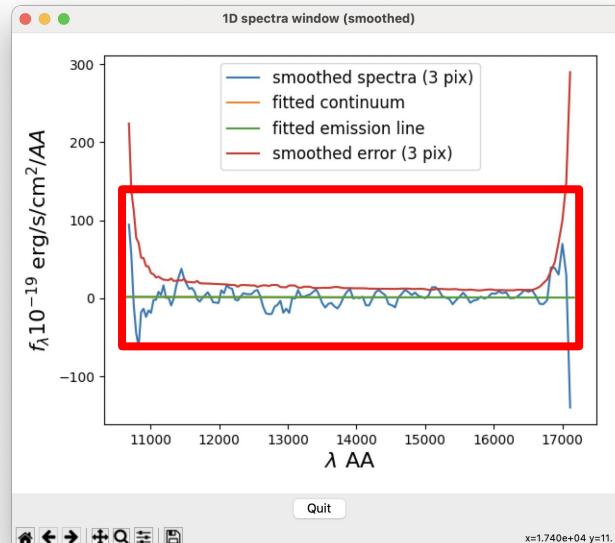
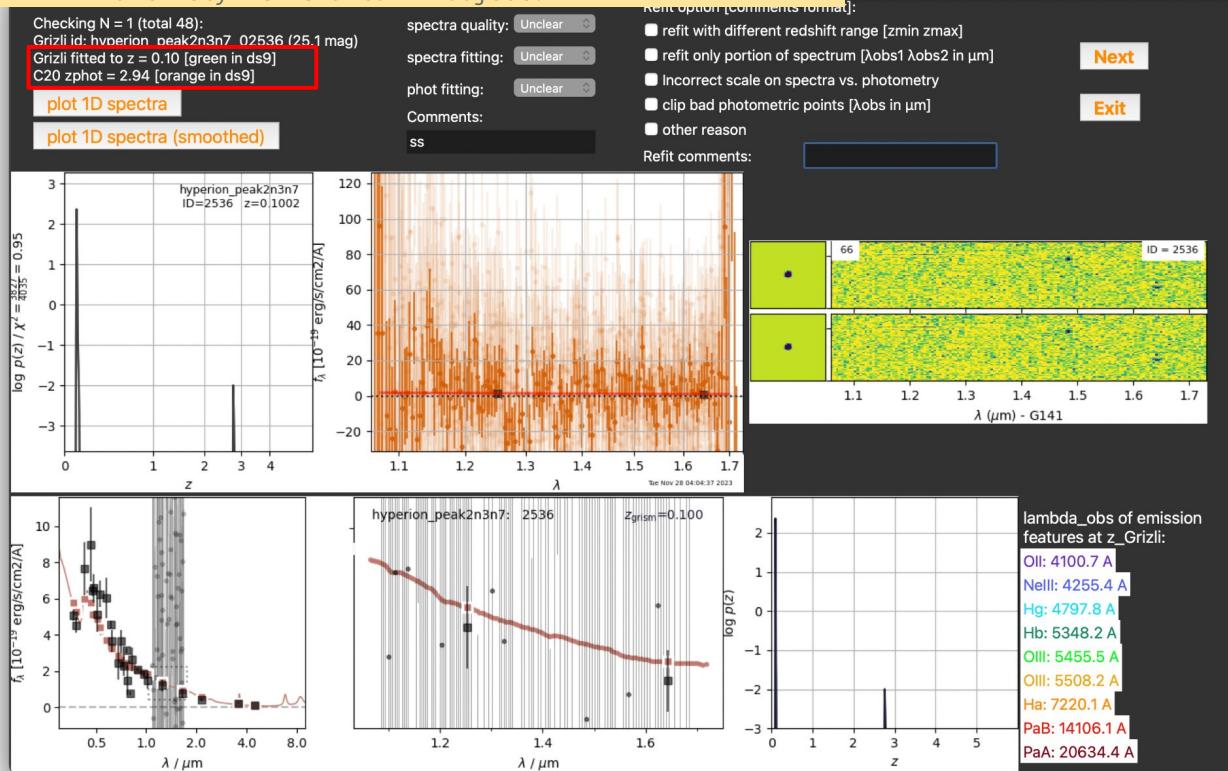
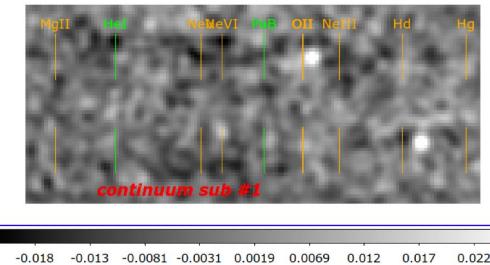
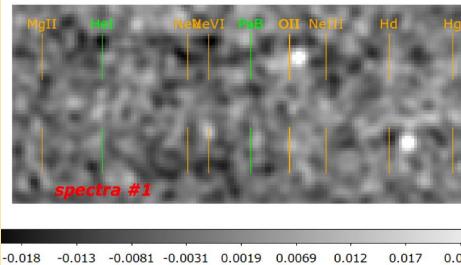
GRIZLI RESULTS CHECKING TUTORIAL

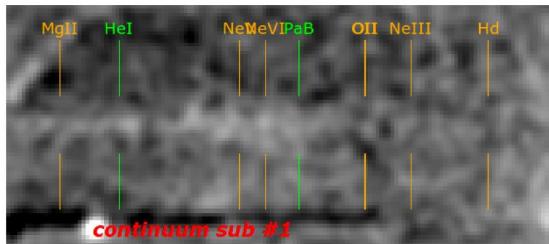
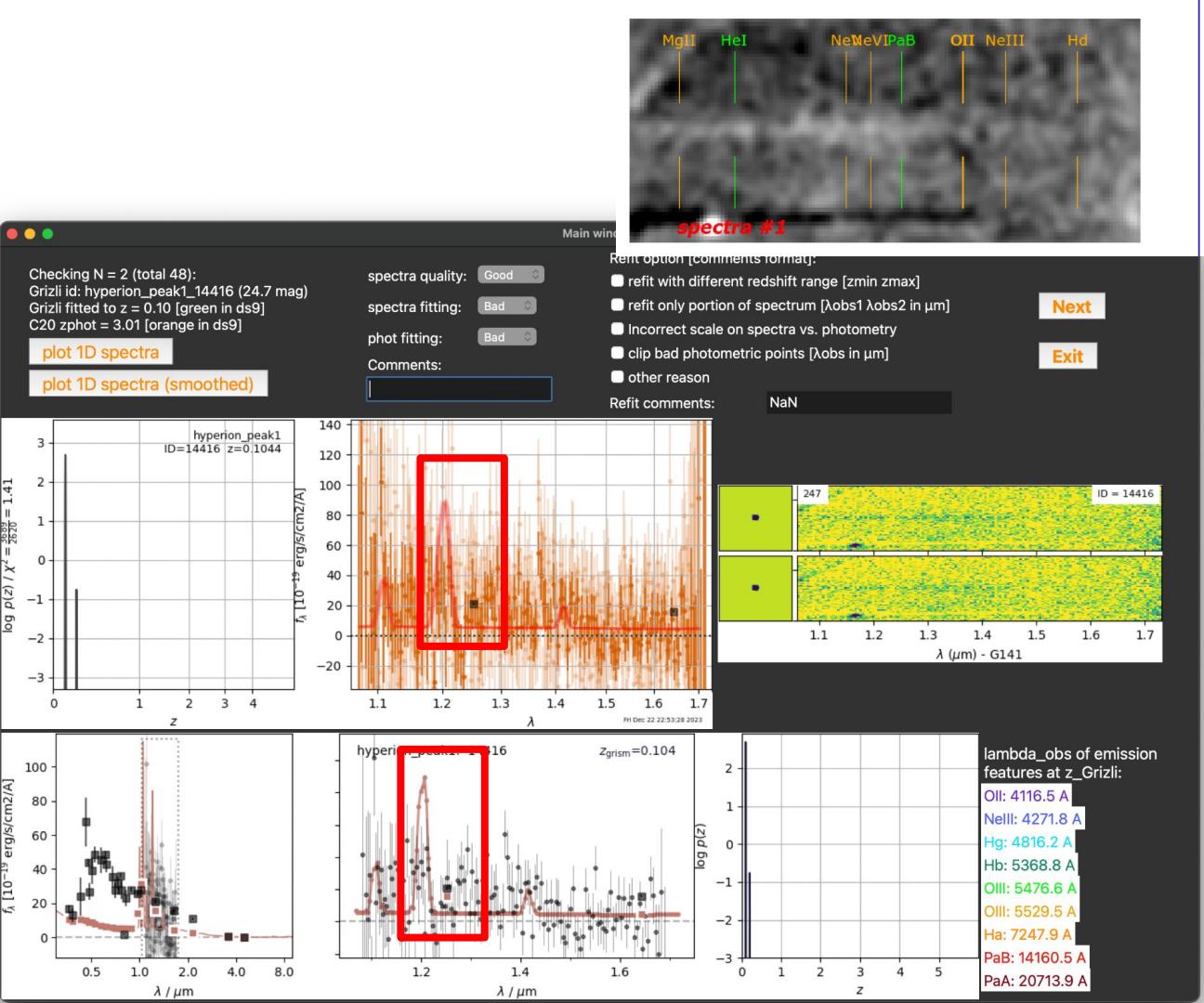
Lu Shen

- Looks like there is a emission line at 1.18um in the second frame (247 deg), but not in the first frame (60 deg). It is unclear if it is real. No contamination, very faint continuum, no emission, so unclear.
- Only continuum is fitted, no signal at PaB, HeI is not sure if it is real. Thus, unclear spectra fitting.
- Most photometry data at < 1 um are not fitted, thus, bad phot fitting.

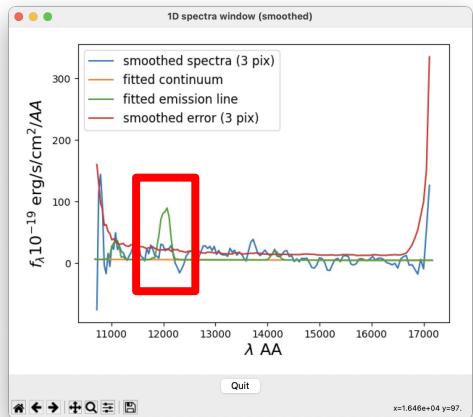


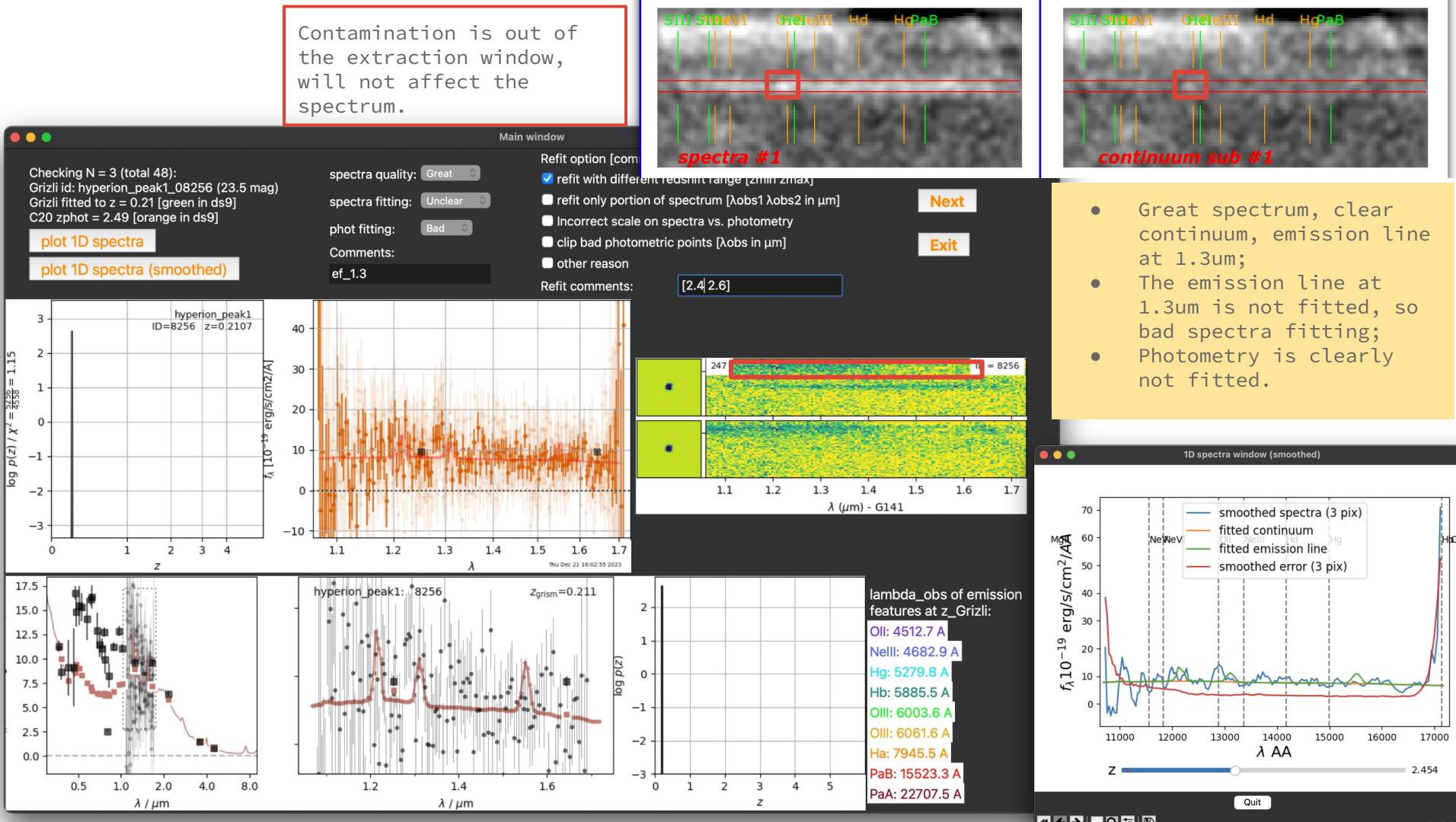
- Not see continuum, no emission line, no contamination, thus unclear about spectra quality;
- Spectra fitting is unclear, no strong emission line should be present in $z=0.1$ or $z=2.94$, very noisy spectra.
- Most photometry data are fitted okay, with the fitted dots more or less within in the data error bar. But this object is very faint, it is unlikely it is a low- z object.

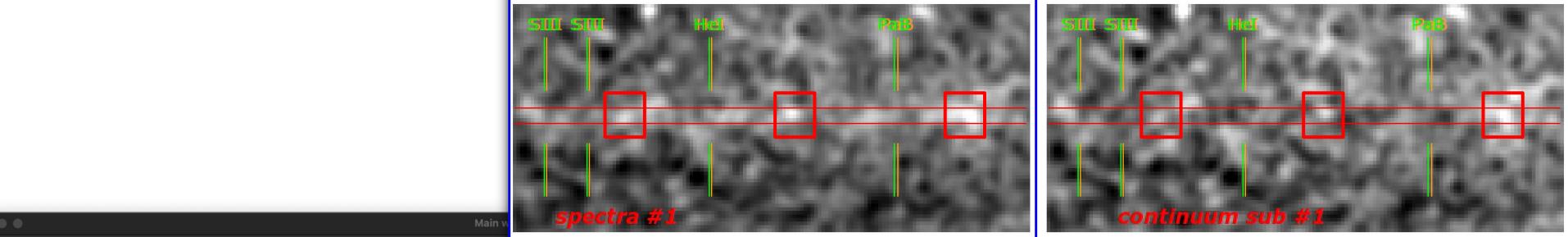




- Clear visual continuum in ds9 and stack.png;
- HeI is clearly fitted wrong;
- Most photometry data are not fitted.







Checking N = 4 (total 48):
 Grizli id: hyperion_peak1_12007 (23.6 mag)
 Grizli fitted to $z = 0.21$ [green in ds9]
 C20 zphot = 0.22 [orange in ds9]

plot 1D spectra

plot 1D spectra (smoothed)

spectra quality: **Good** spectra fitting: **Bad** phot fitting: **Great**

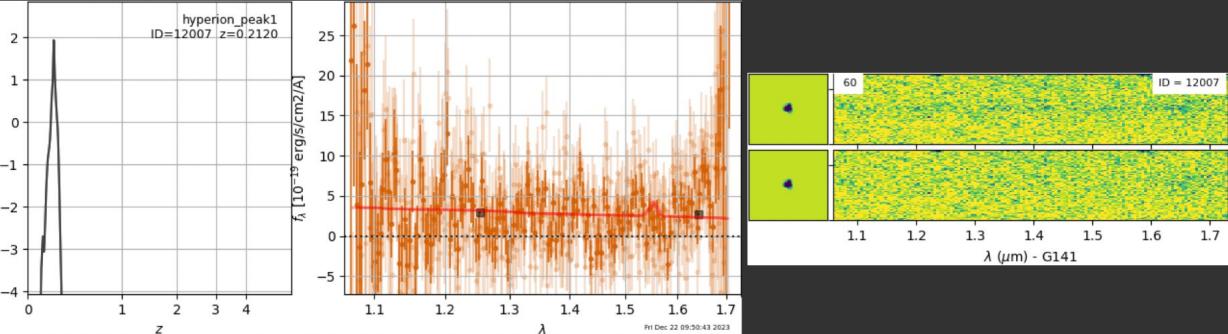
Comments: ef_1.2 ef_1.4 ef_1.65

Refit options [comment to refit]:

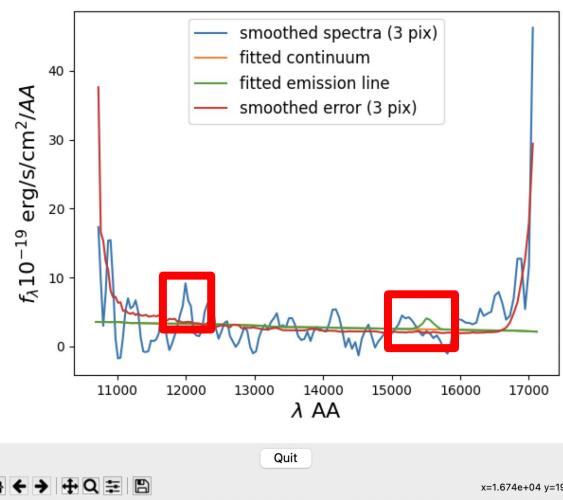
- refit with different redshift range [z_{\min} z_{\max}]
- refit only portion of spectrum [λ_{obs1} λ_{obs2} in μm]
- Incorrect scale on spectra vs. photometry
- clip bad photometric points [λ_{obs} in μm]
- other reason

Refit comments: NaN

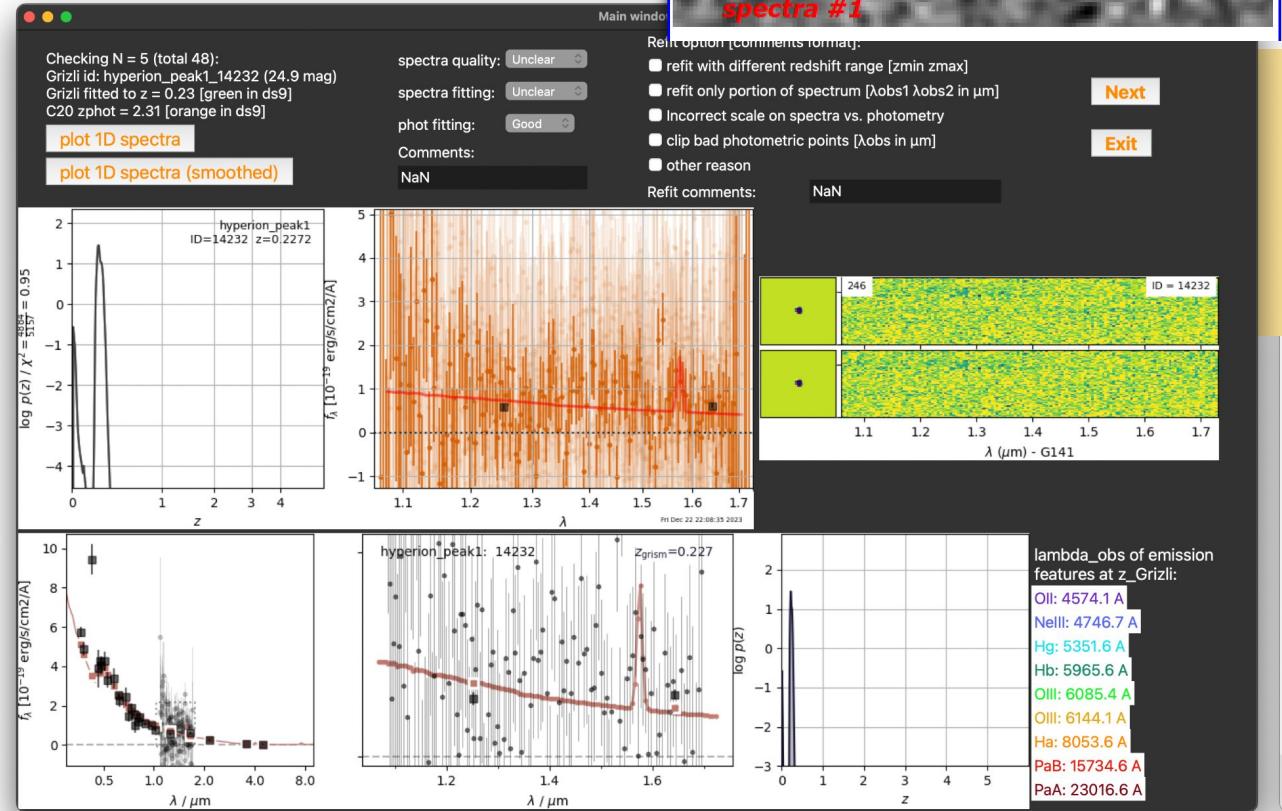
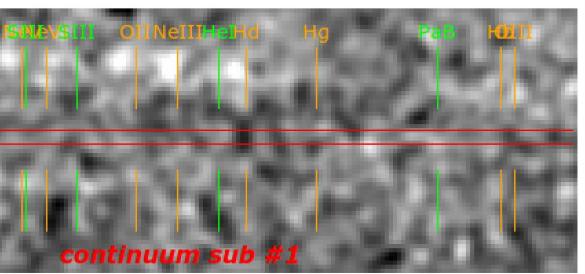
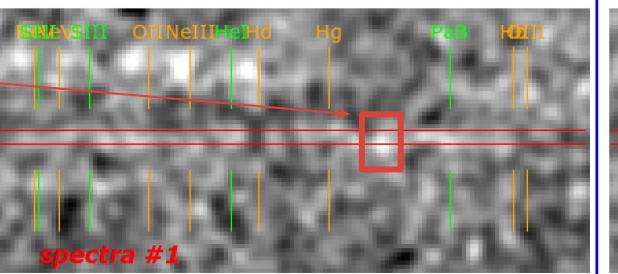
Next **Exit**



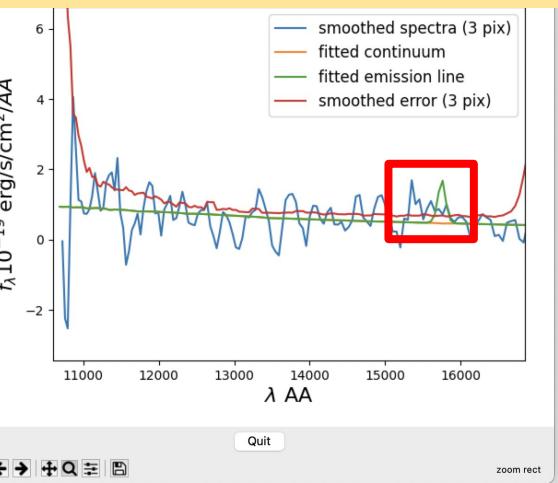
- Continuum present with possible emission line;
- None of the emission lines are fitted, so bad spectra fitting;
- Photometry looks great

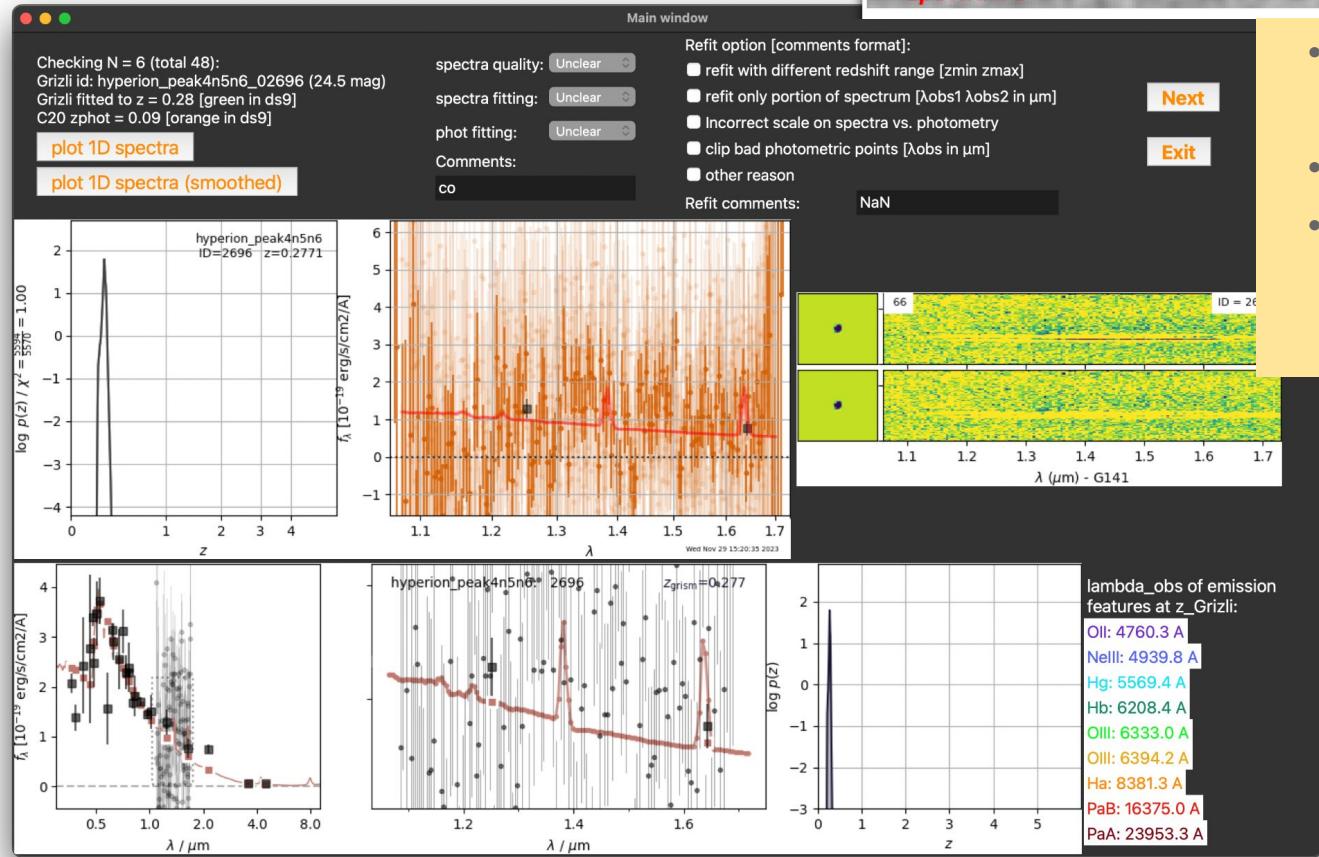
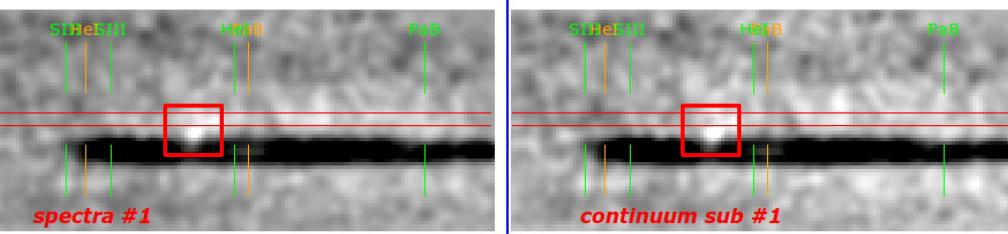


Not sure is this is real, bc slightly offset to lower in the extract window

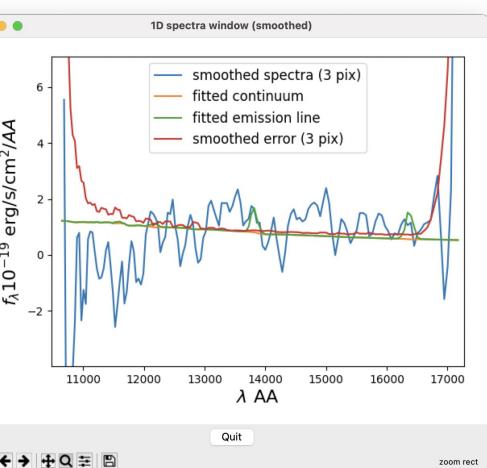


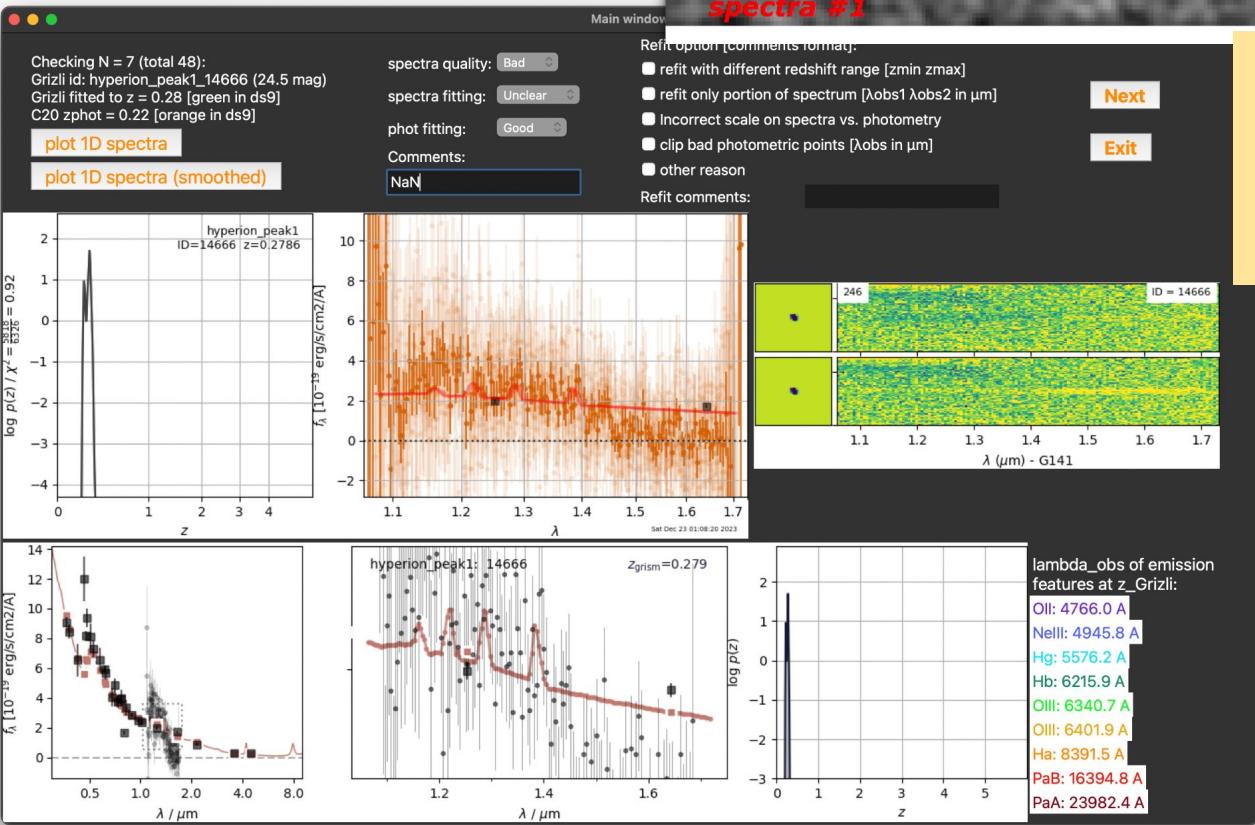
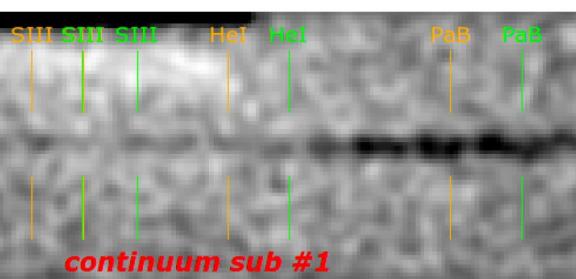
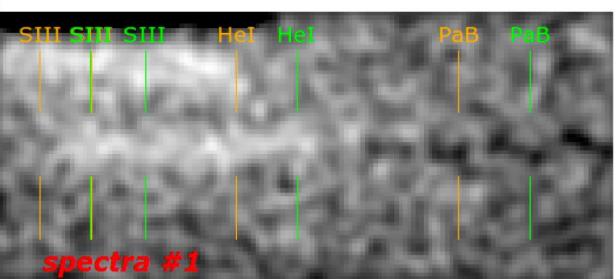
- Barely see continuum, possible emission, but not sure, so put unclear (maybe good?);
- PaB is not fitted, but not sure;
- One offset Photometry data, but generally good, though with different zphot from C20



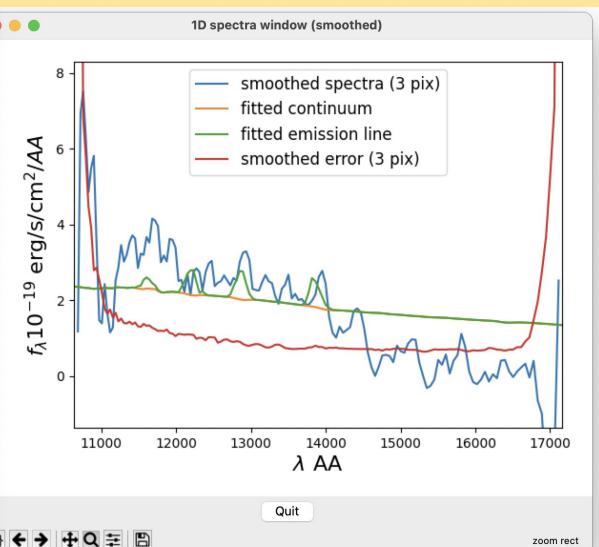


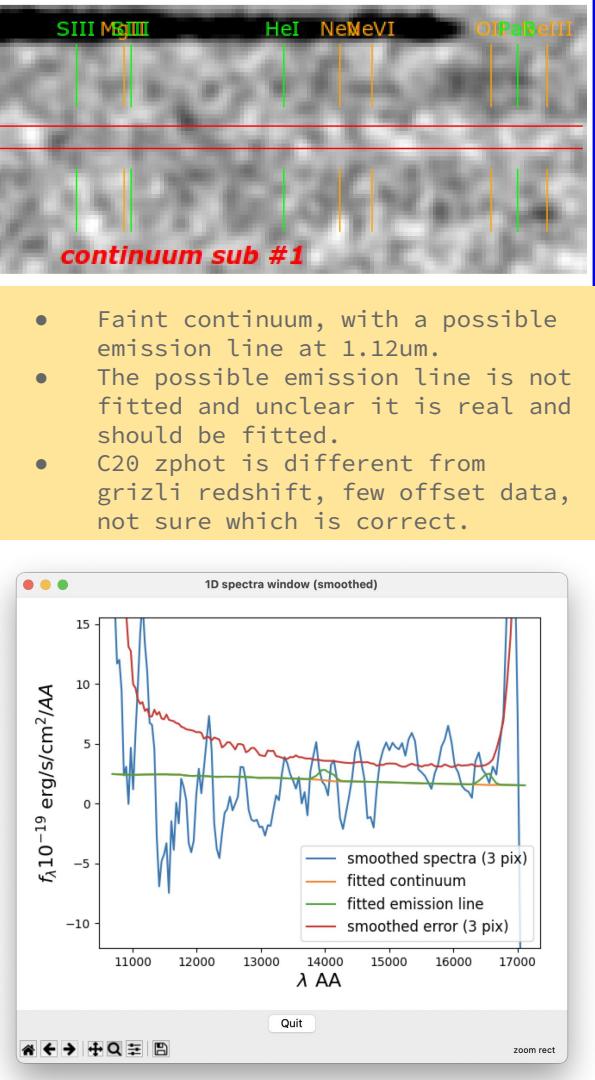
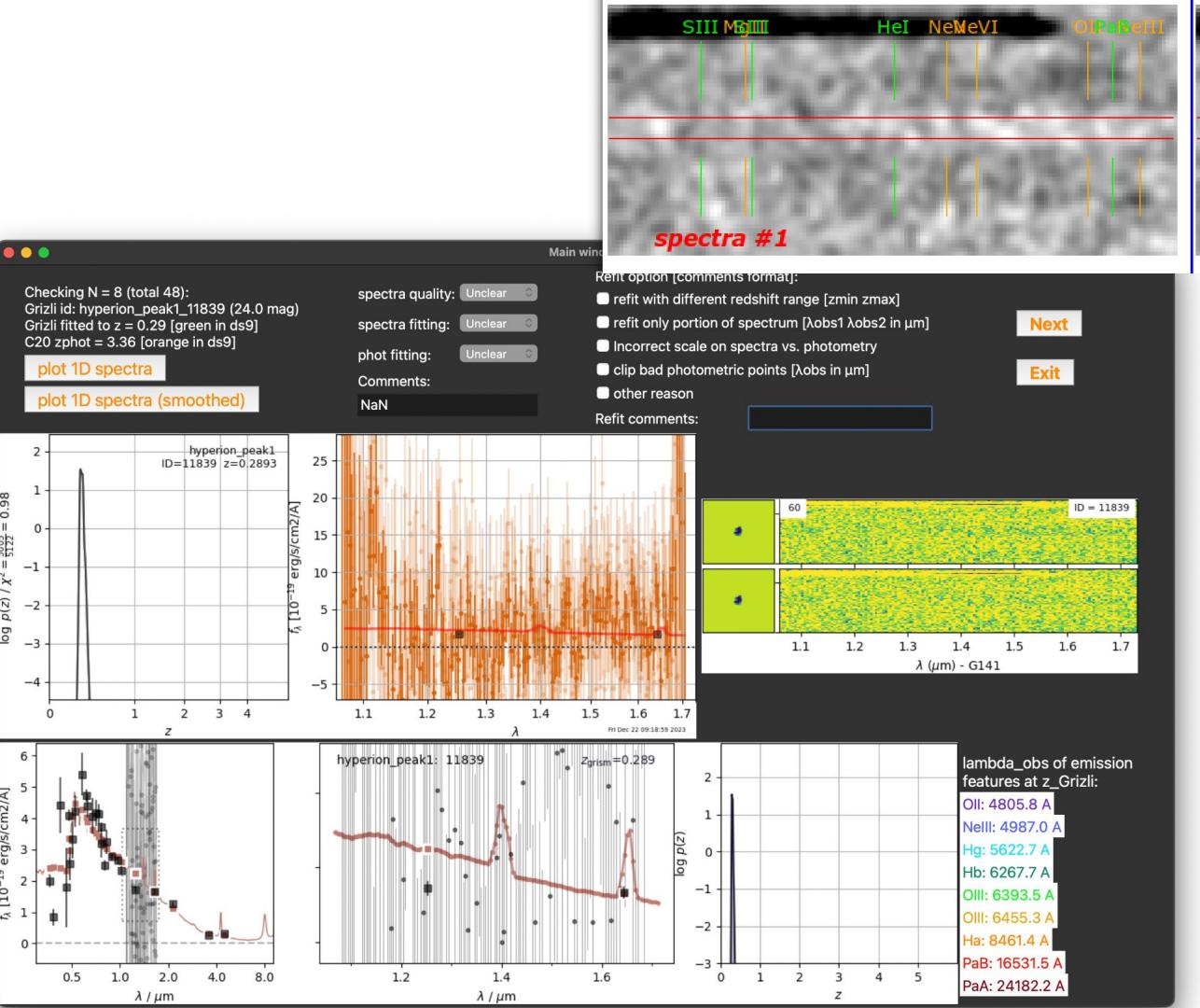
- There is over-subtracted contamination and a bright knot in the 2d spectra, but out of extraction window.
- Continuum is fitted, but no emission line.
- Few photometry data offset, redshift fitted differently from C20 zphot, unclear if the photometry can be fitted better to $z=0.09$.

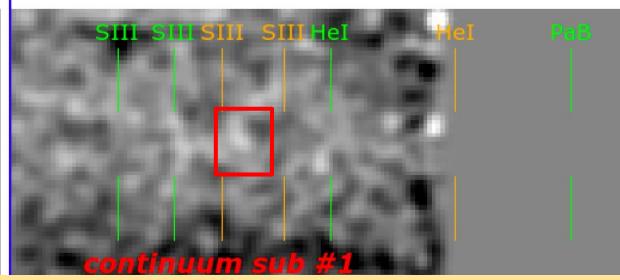
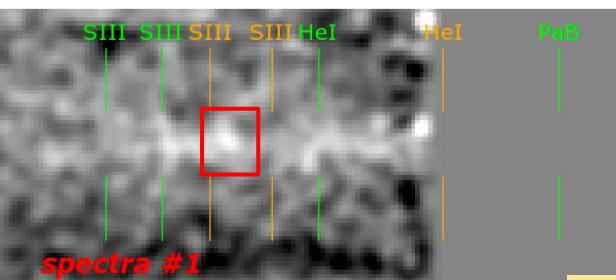
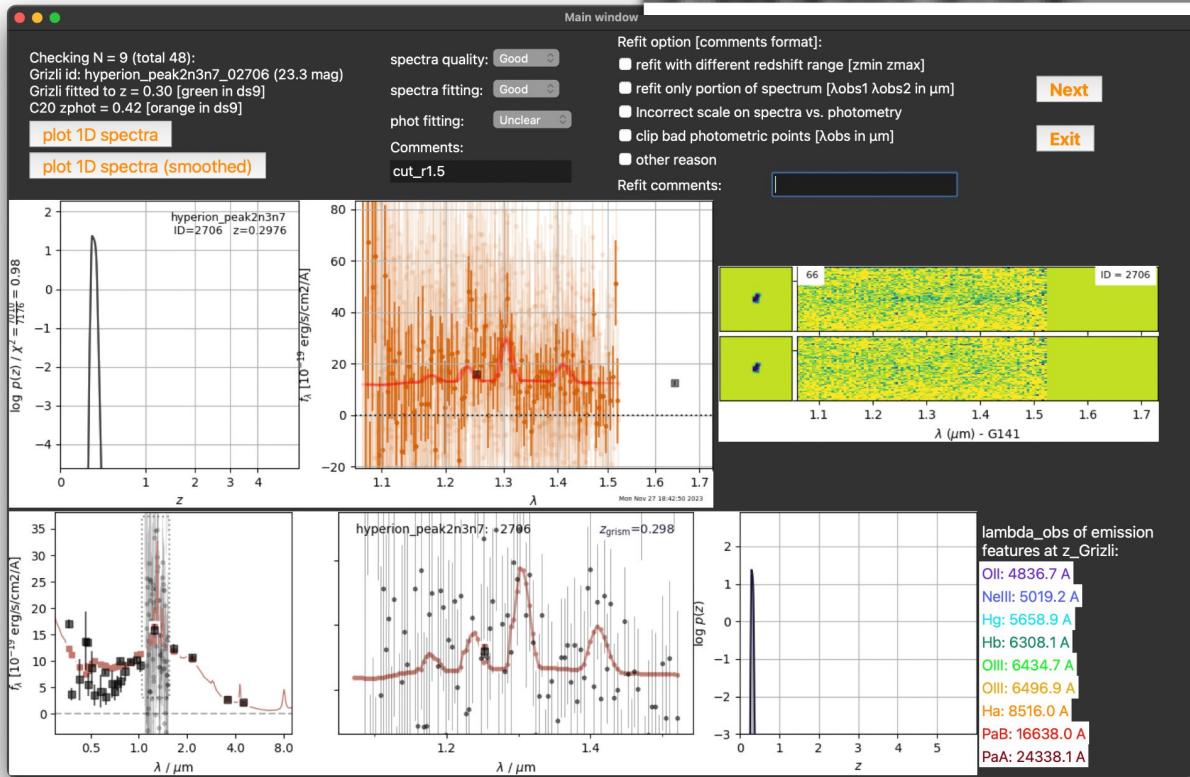




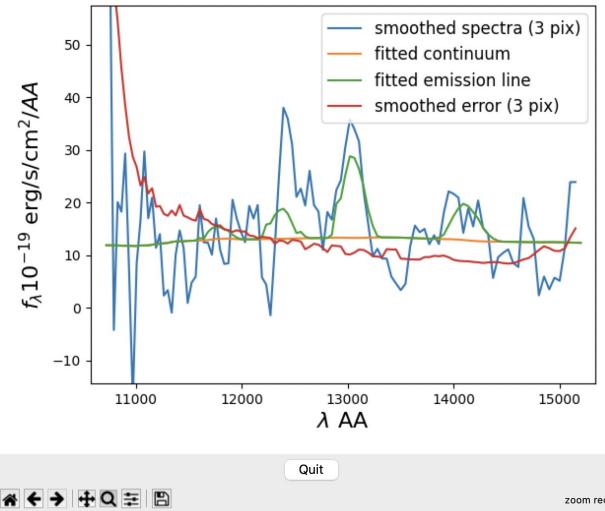
- Spectra looks weird, negative spectra at $> 1.4 \mu\text{m}$.
- bad continuum fitting;
- Two offset photometry data, but generally good;

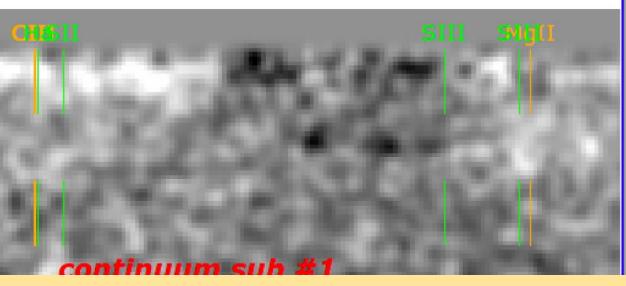
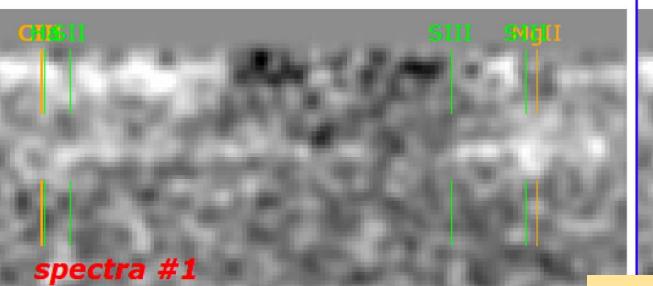
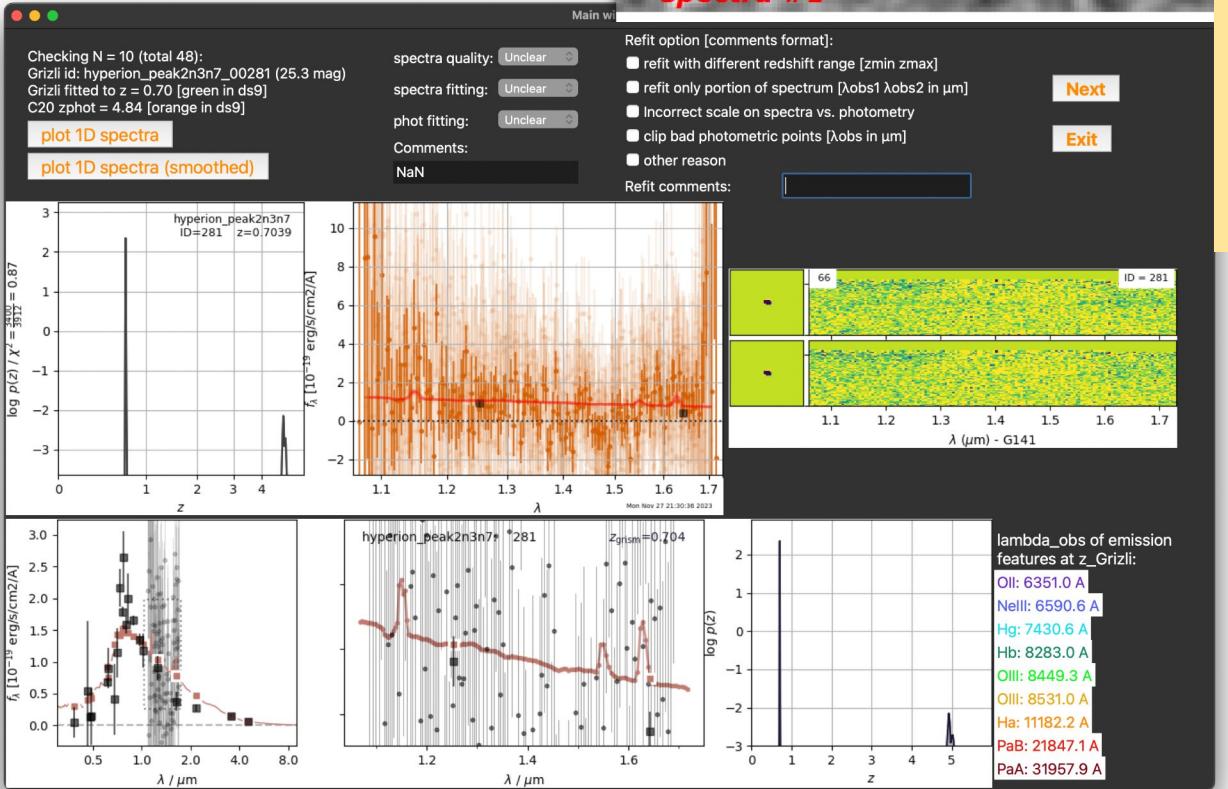




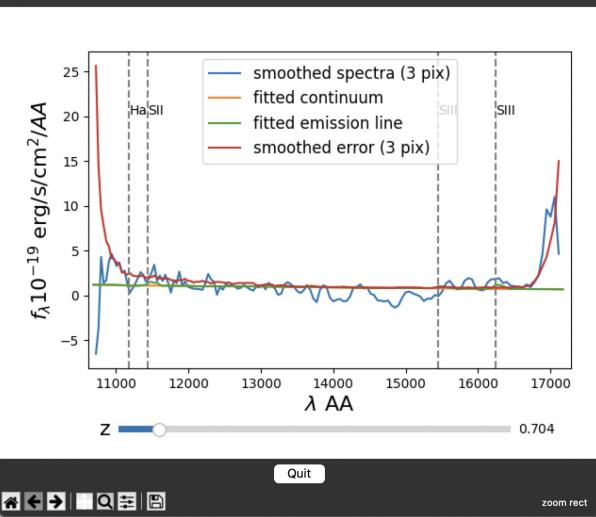


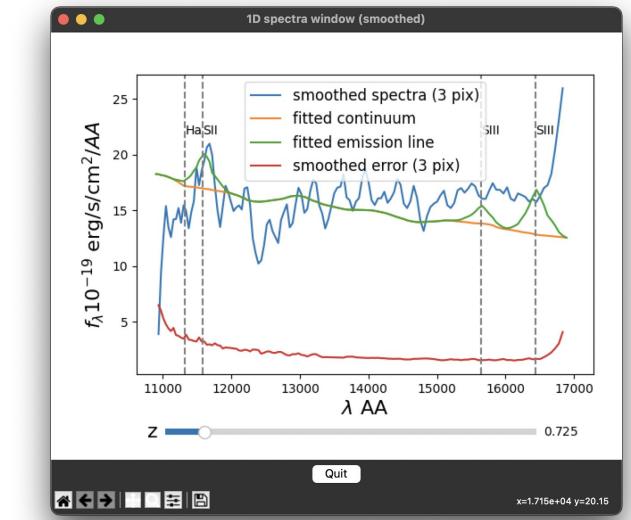
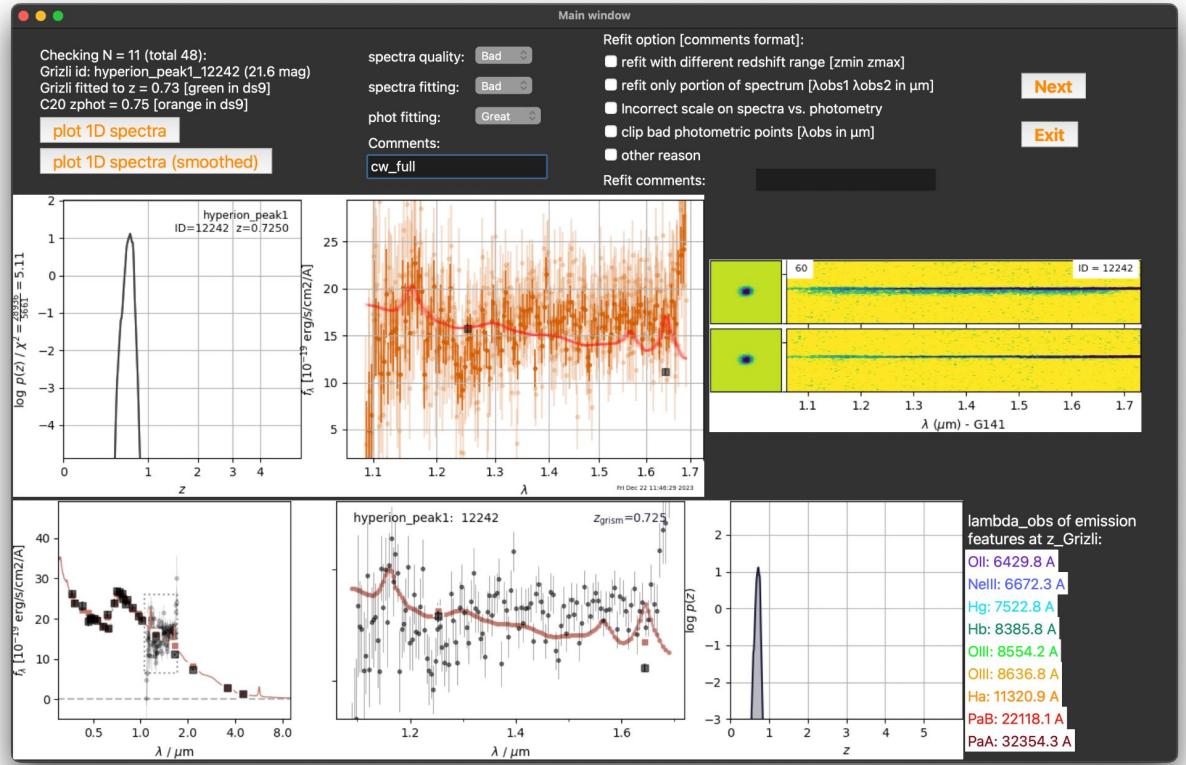
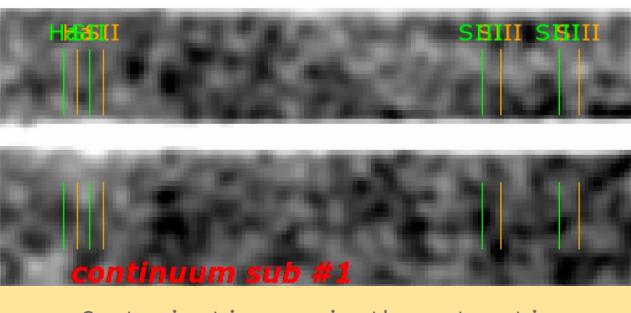
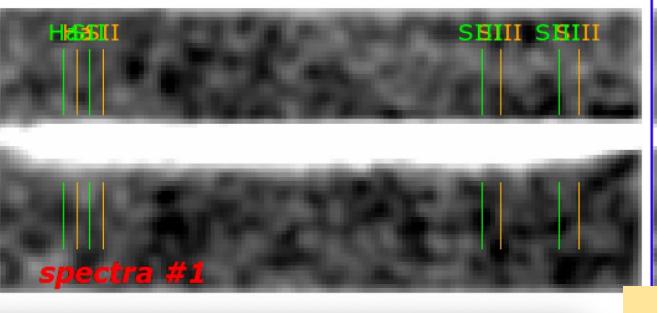
- Spectrum looks good: faint continuum with emission lines. It is ok to have only $\frac{2}{3}$ spectrum detected.
- Continuum fitted, emission lines are more or less fitted.
- Some photometry data are not fitted (or bad fitting?).



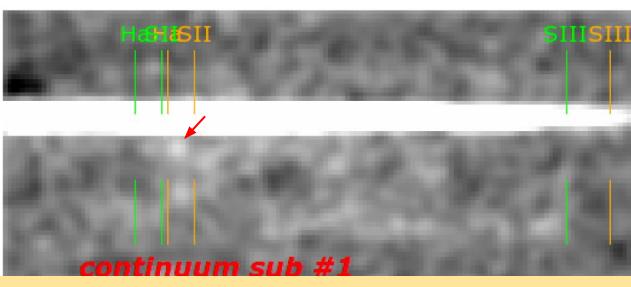
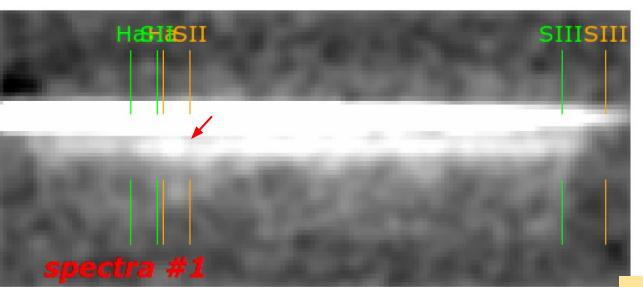
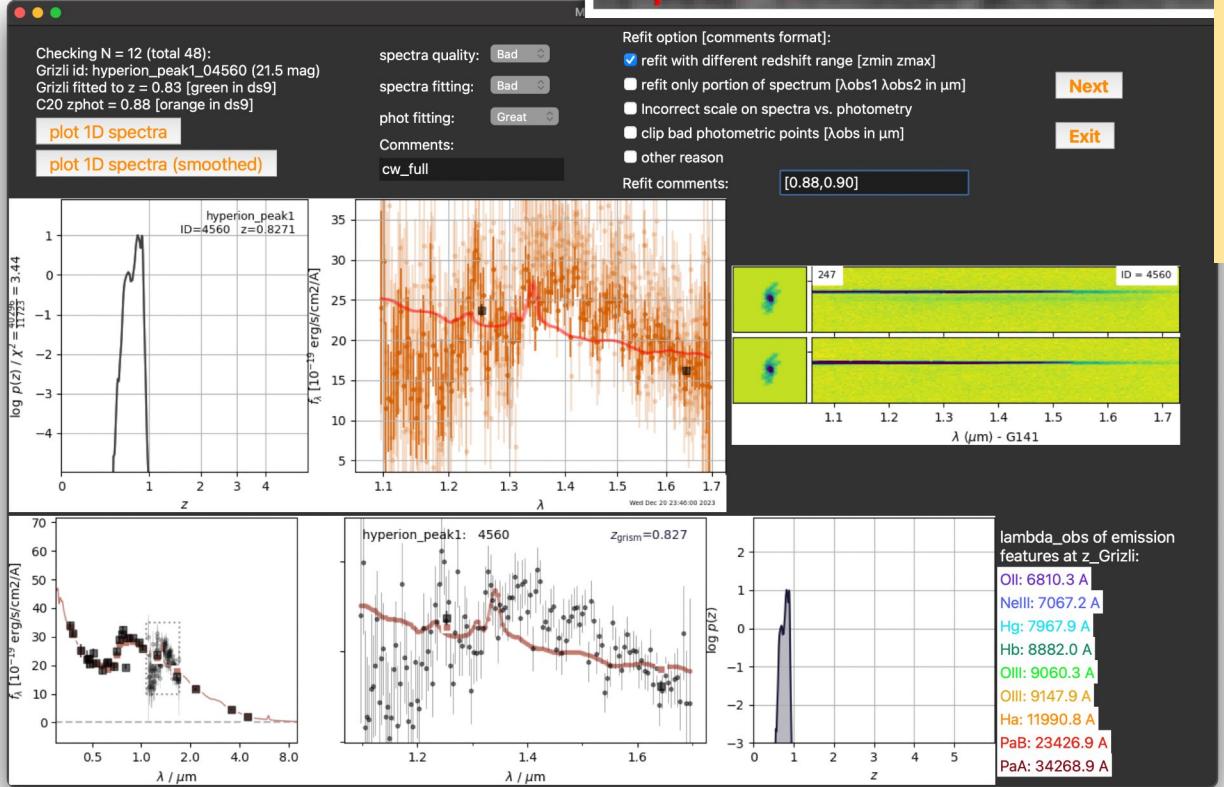


- Very very faint continuum, no emission line present, not contamination, put unclear.
- According to grizli redshift, Ha should be at 1.16 μm , but not present.
- Photometry data around 0.8 μm and 1.8 μm are not fitted.
- This object has spec-z = 4.86.

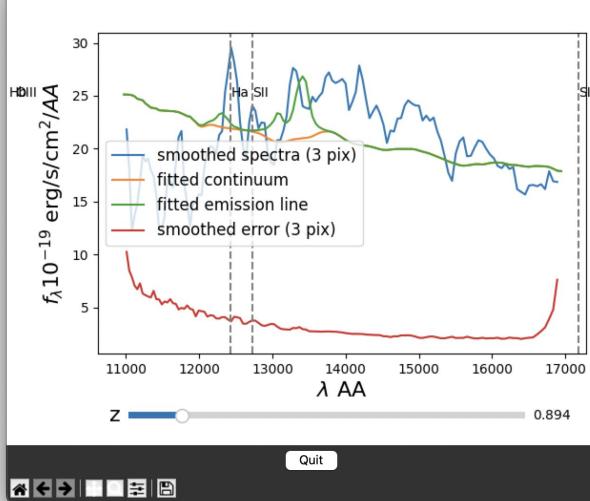


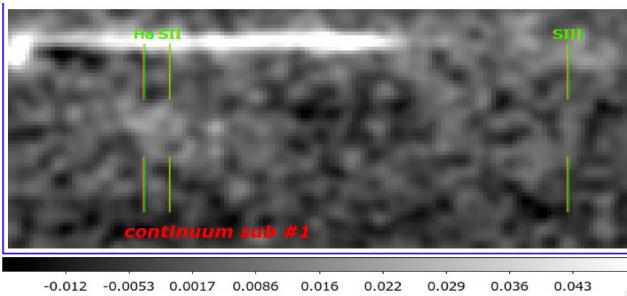
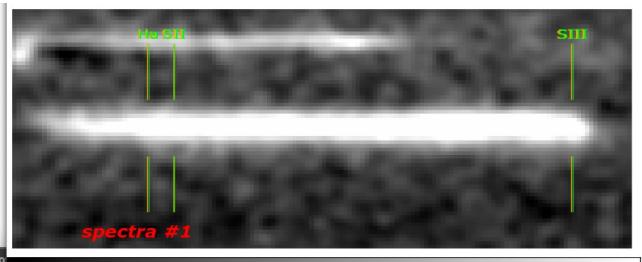
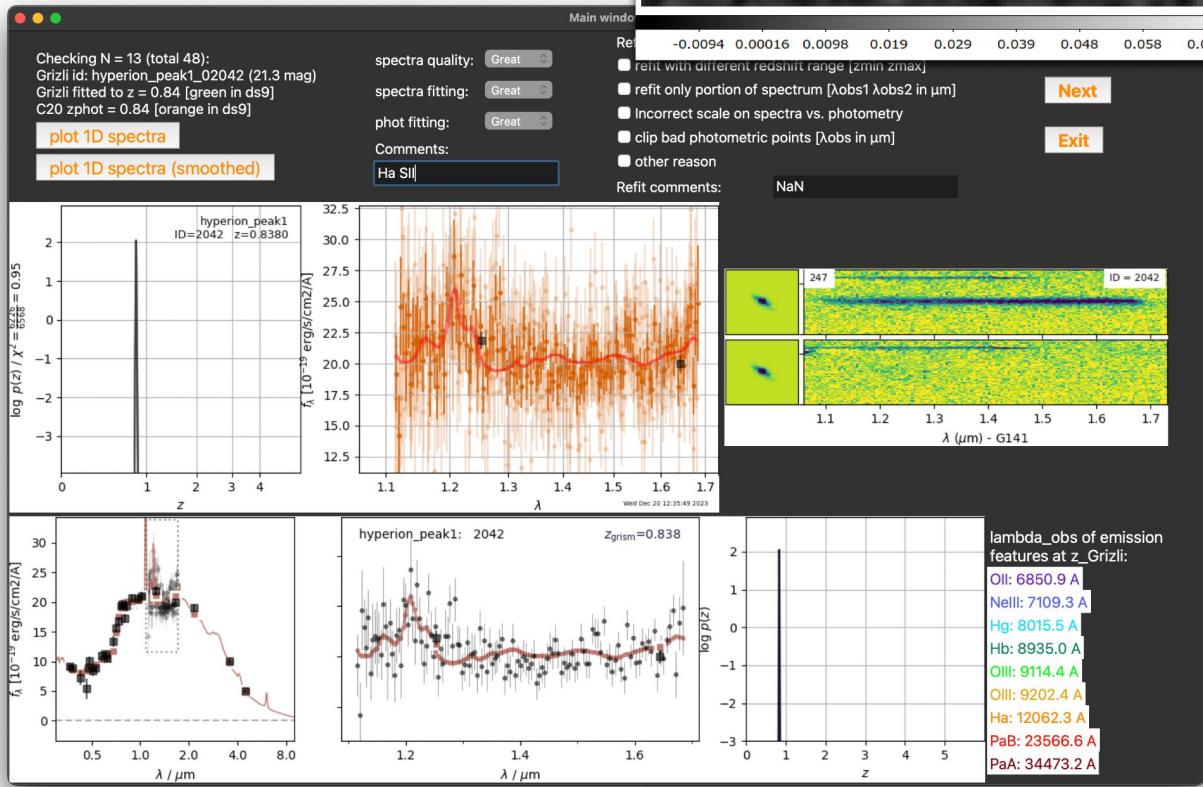


- Contamination on in the extraction window;
- Emission line is fitted to be SII not Ha, while Ha should be more significant.
- Photometry fit looks great.

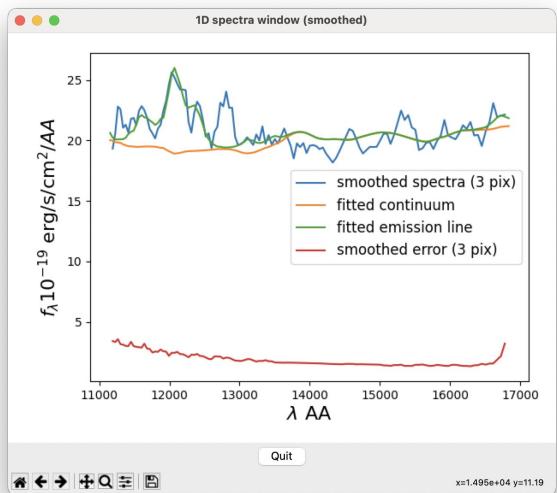


- Contamination in the extraction window.
- The brightest knot is not fitted. Guess the redshift is $z \sim 0.89$.
- Photometry fit looks great.

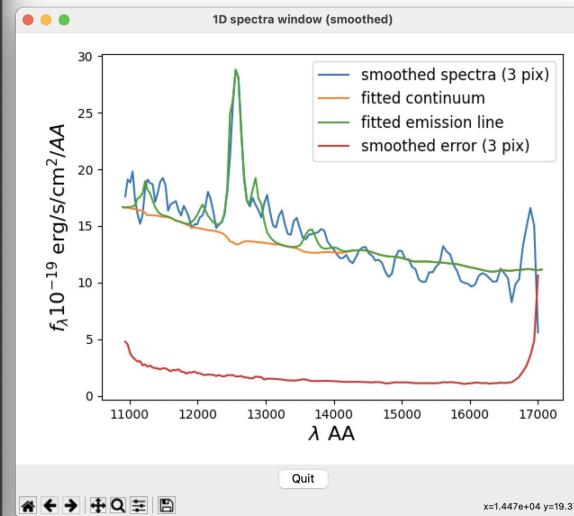
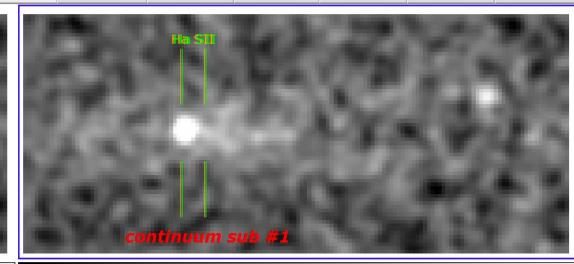
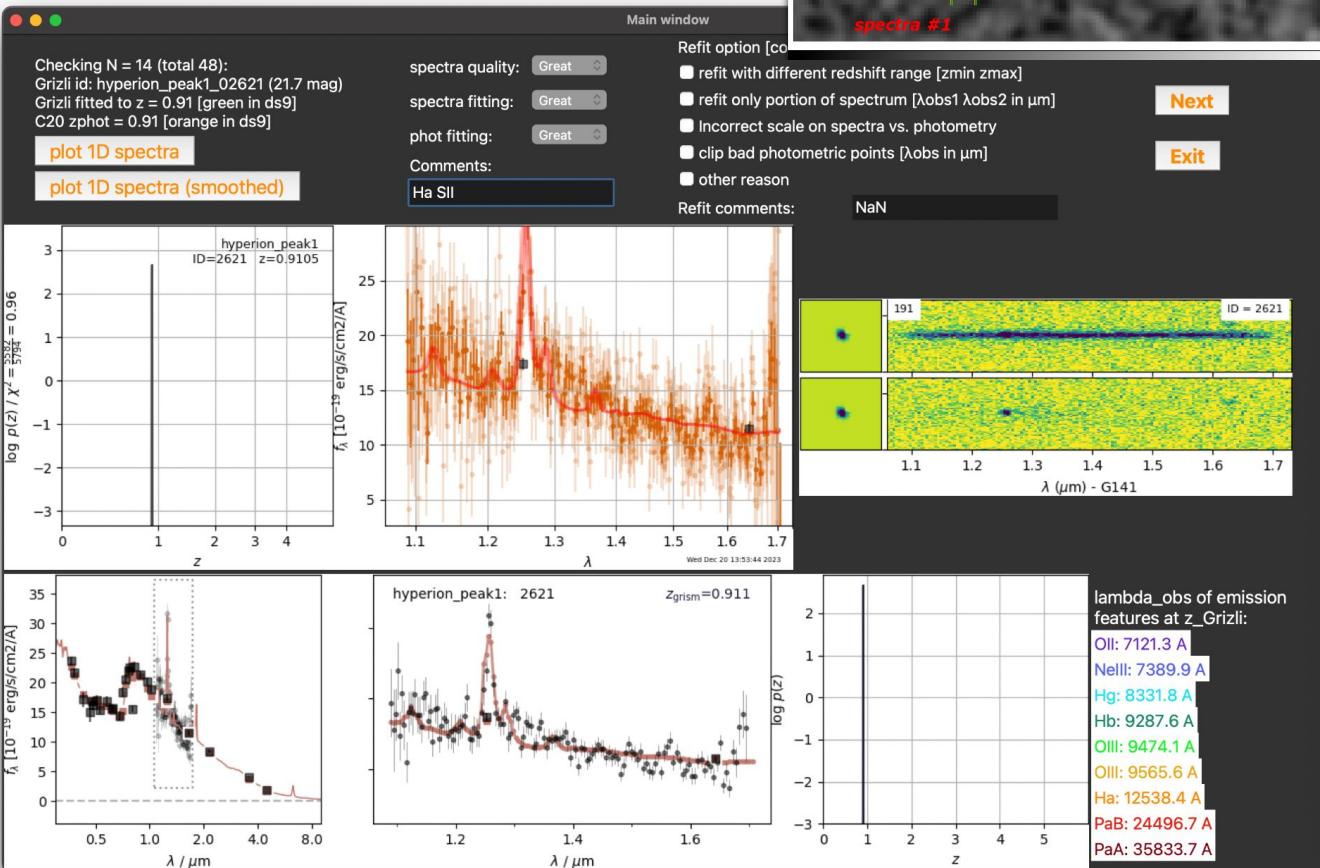




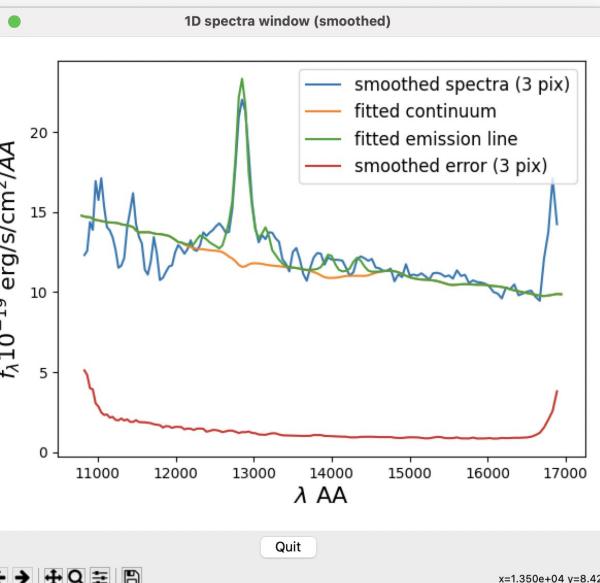
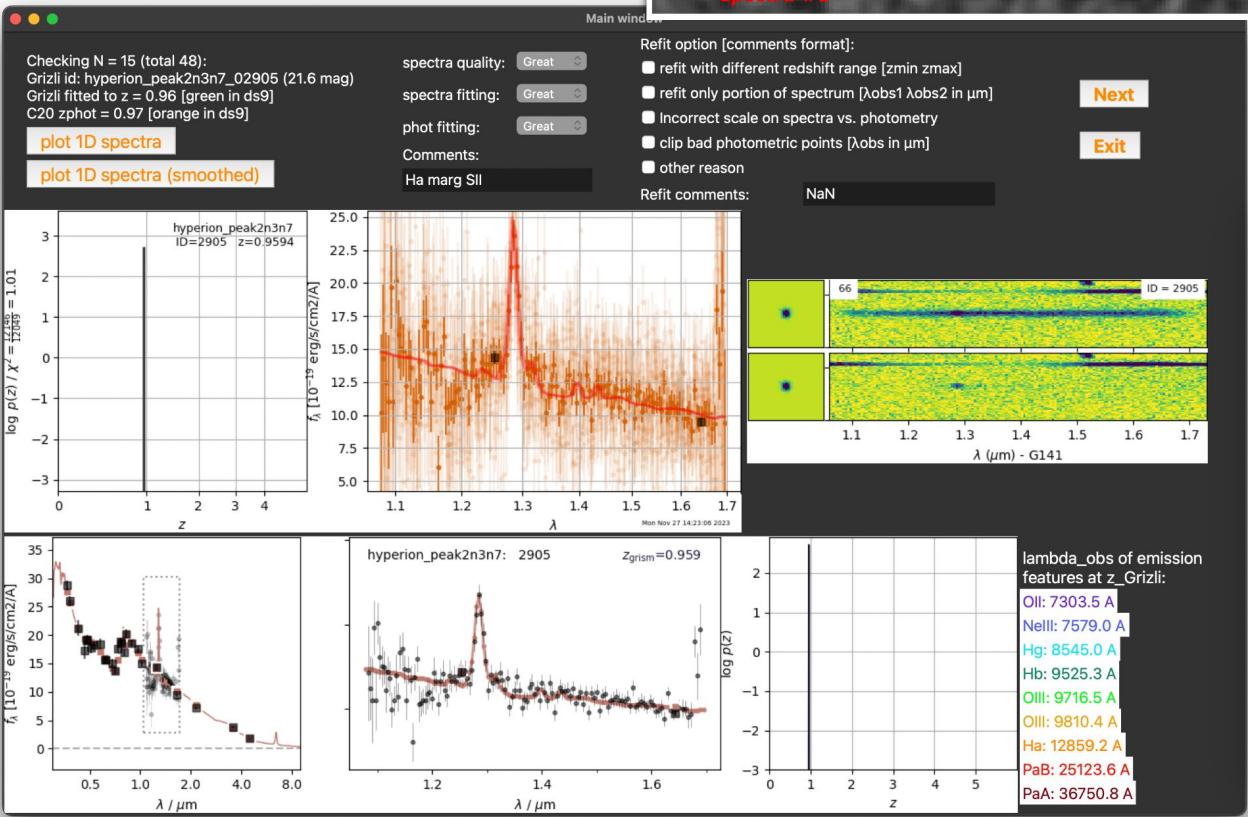
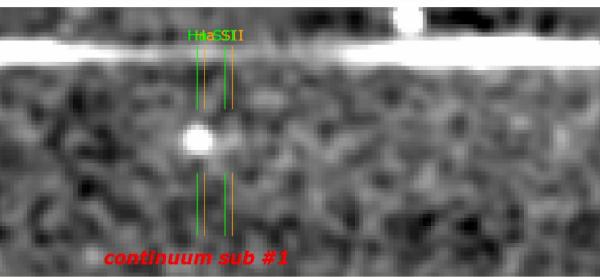
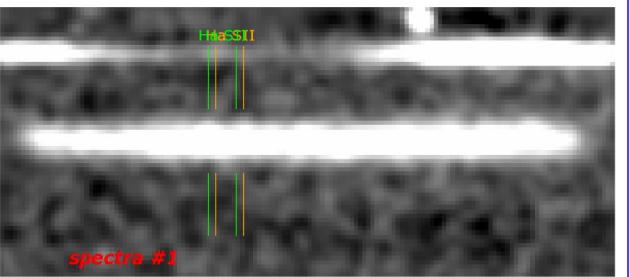
Everything looks perfect

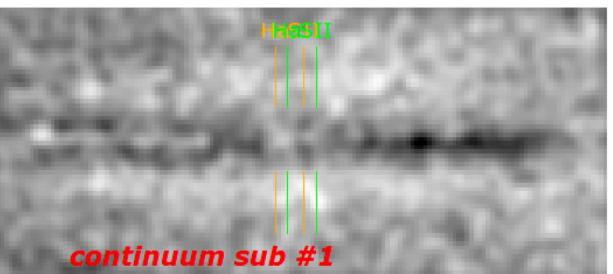
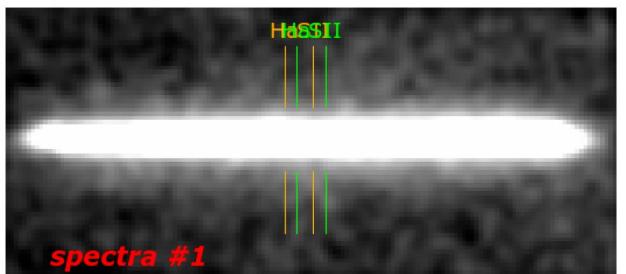
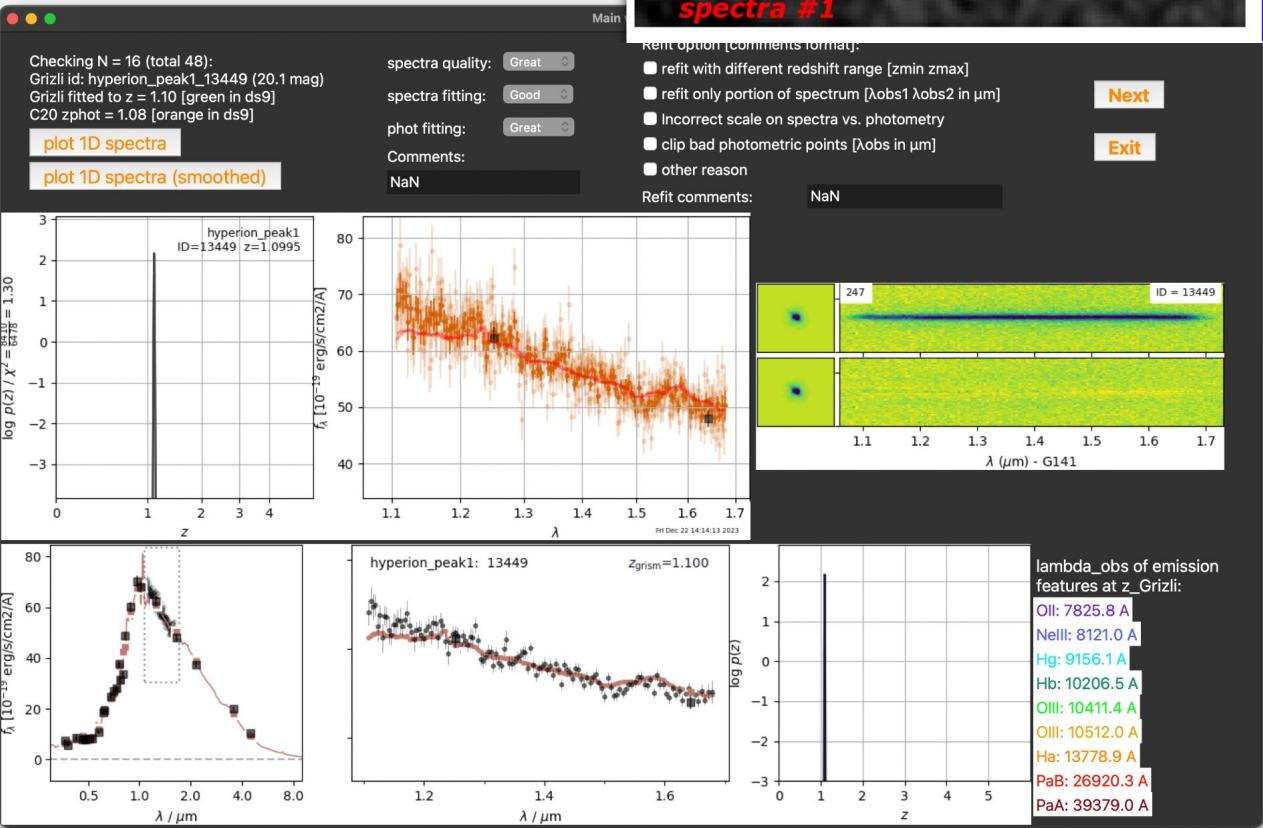


Everything looks perfect

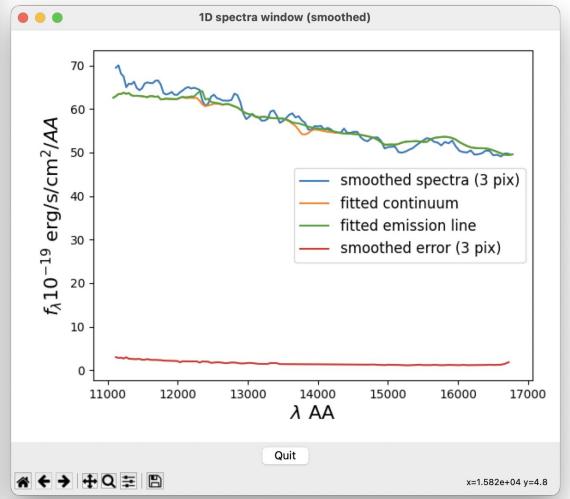


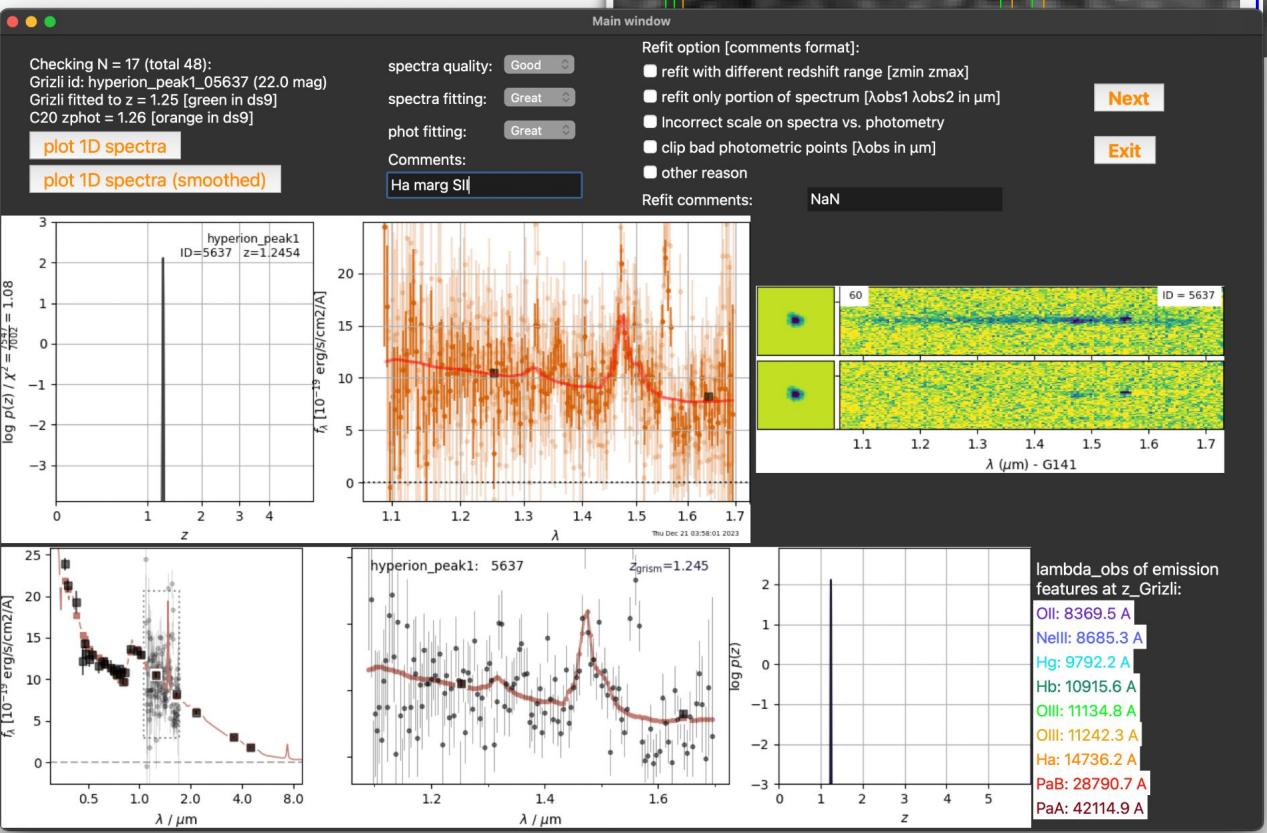
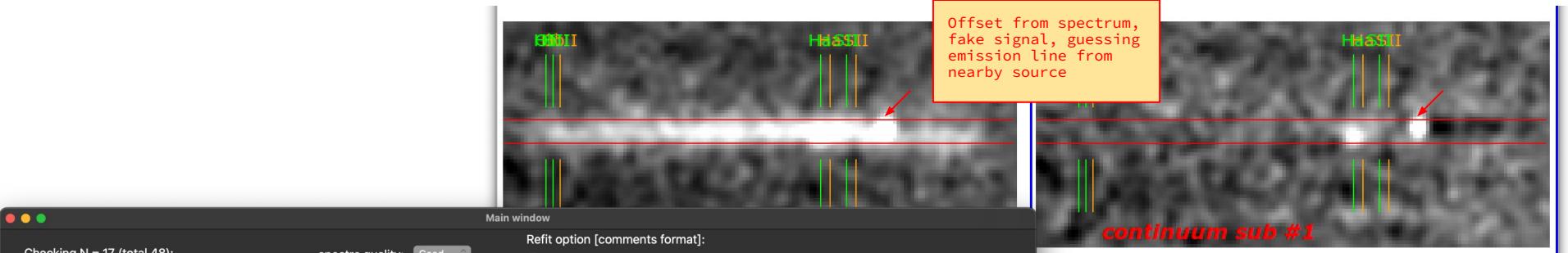
Everything looks perfect





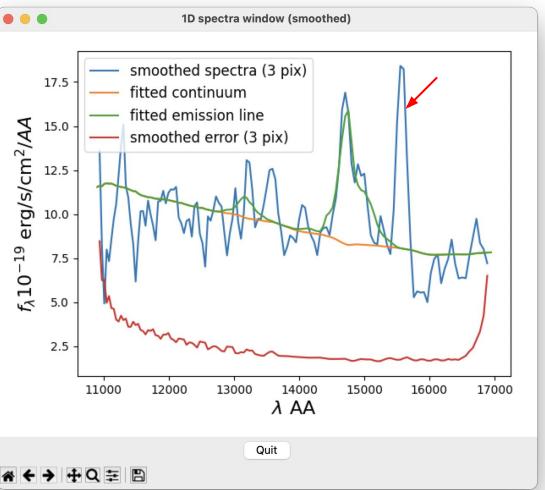
- Spectrum looks great, clear continuum.
- The continuum is well fitted, while no significant emission line, probably quiescent galaxies.
- Photometry looks great.



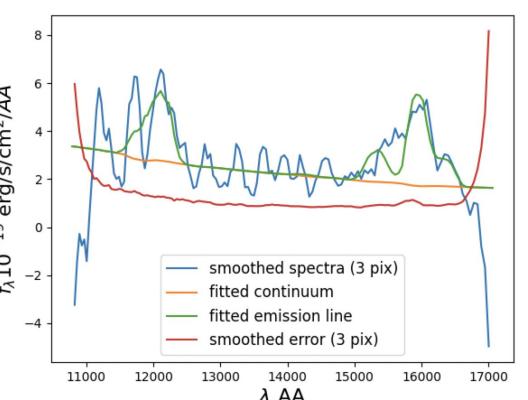
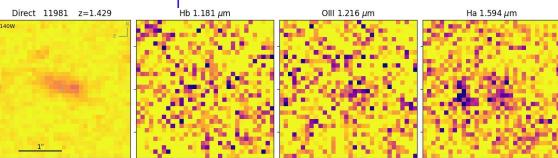
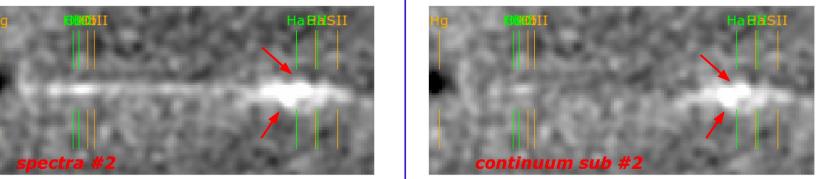
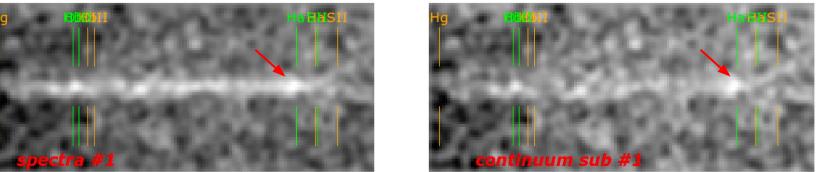
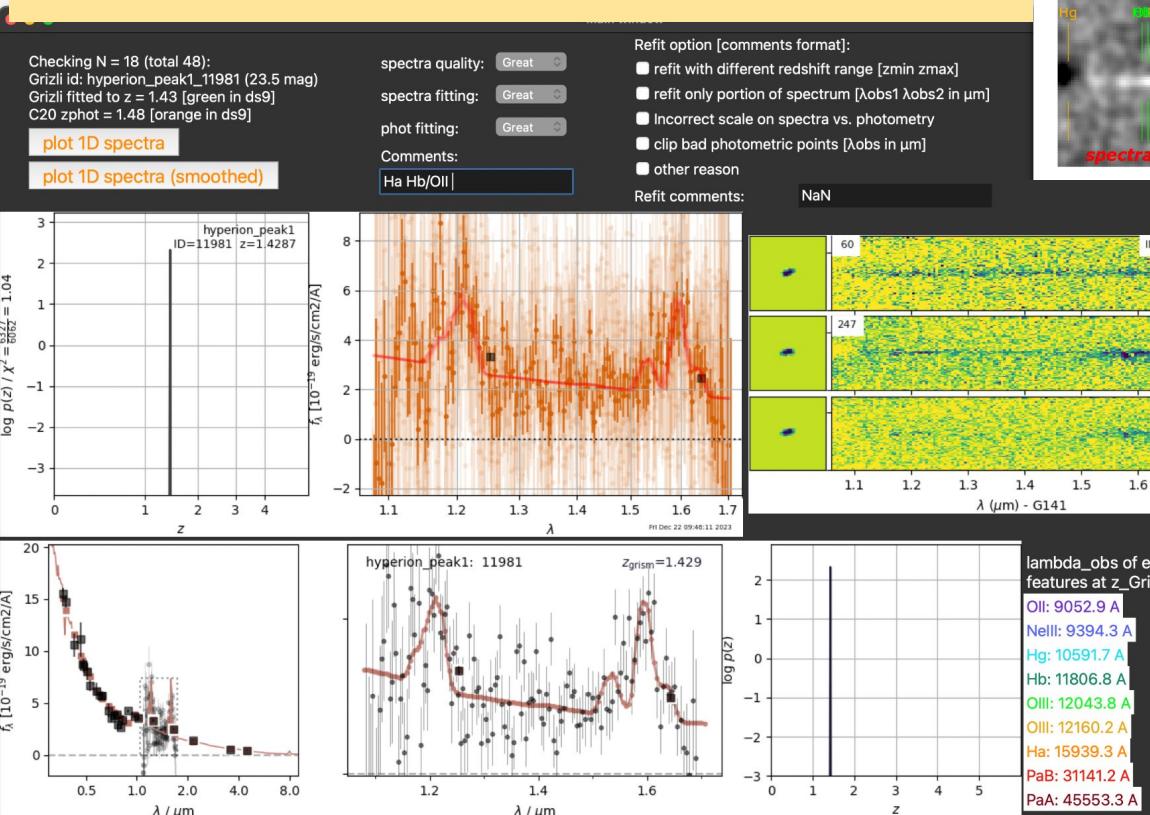


continuum sub #1

- Spectrum looks good, not great because the bright offset signal.
- The spectra is fitted great, the fake signal is not fitted.
- Photometry fit looks great.

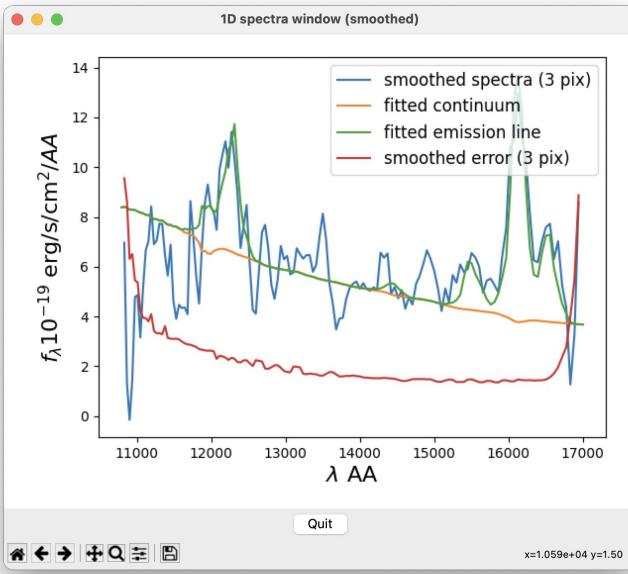
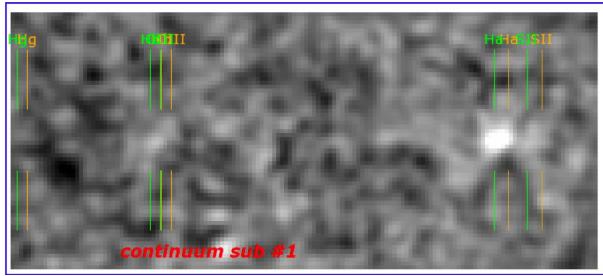
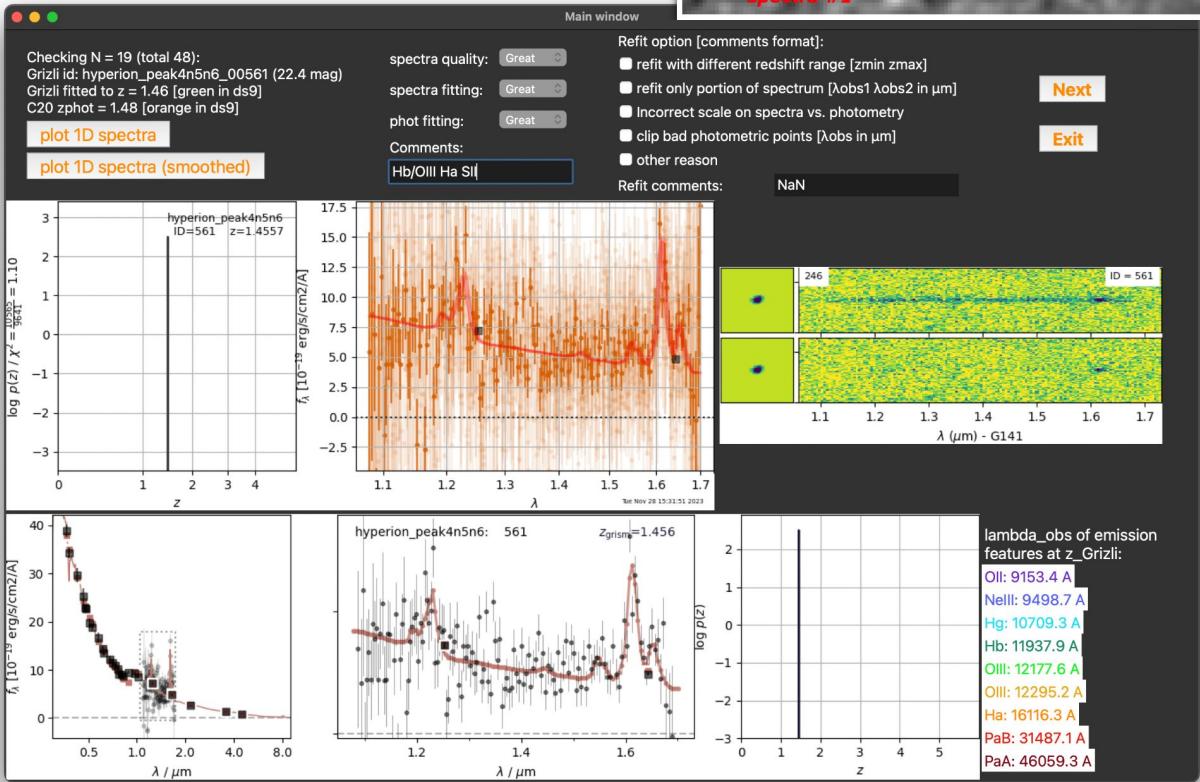


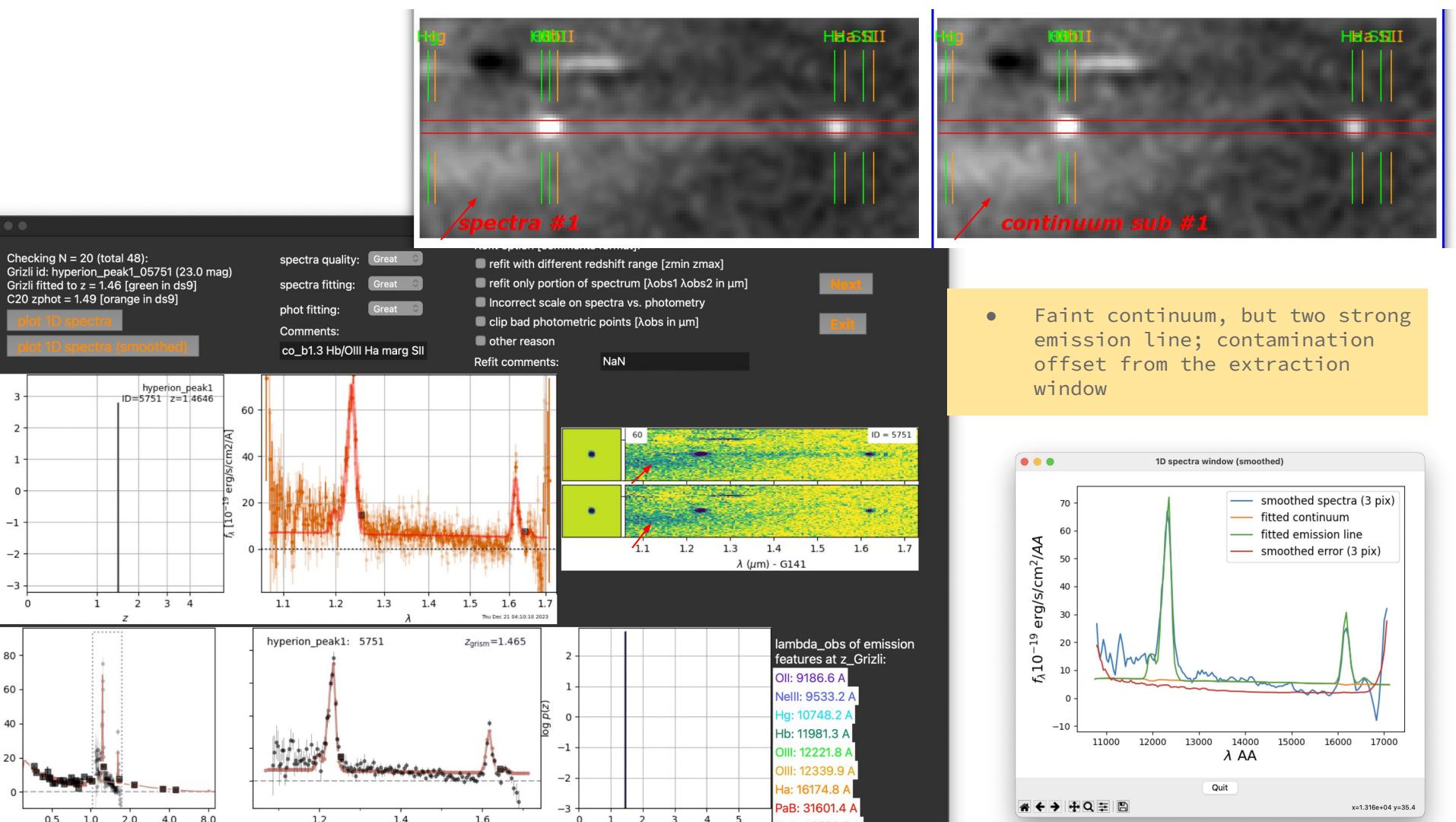
- Spectrum looks great
- The spectra is fitted great. H α and OIII profiles are more extended in the second PA frame (247 deg), which might be due to the structure of this object or unknown fake signal. But because redshift fitting is on the stacked 1D spectra, which is okay.
- Photometry fit looks great.
- From the 2D emission line map, there is an offset blob.

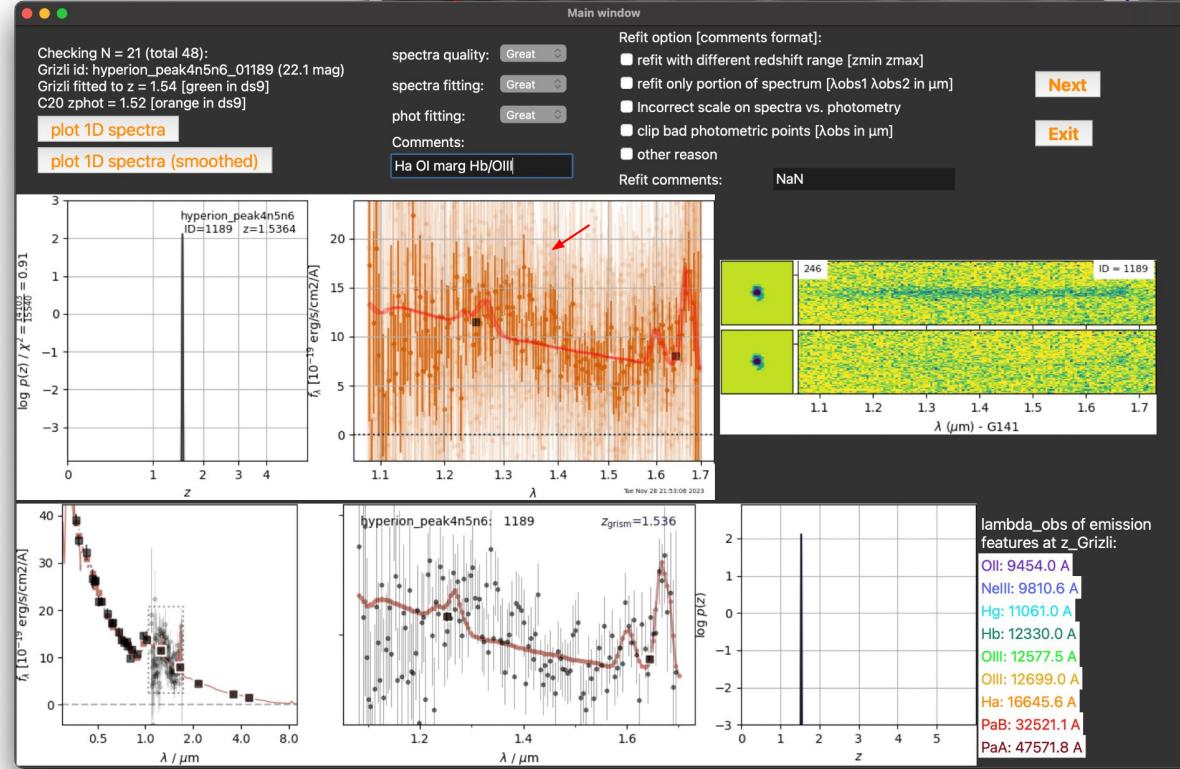
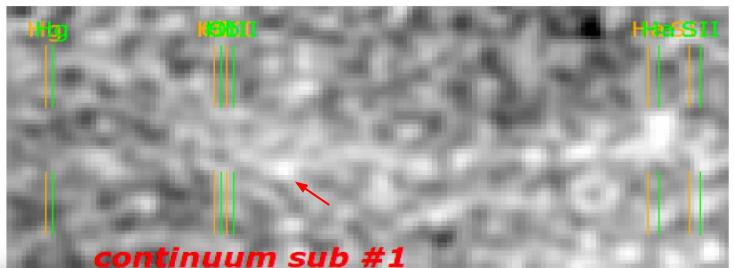
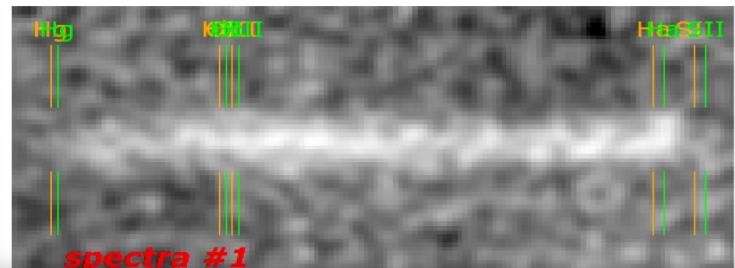


Quit

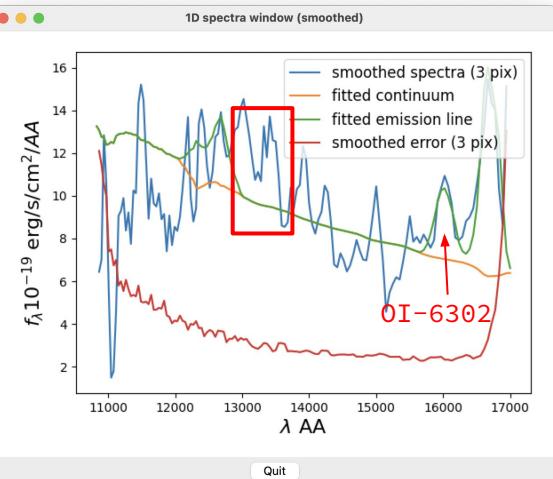
Everything looks perfect

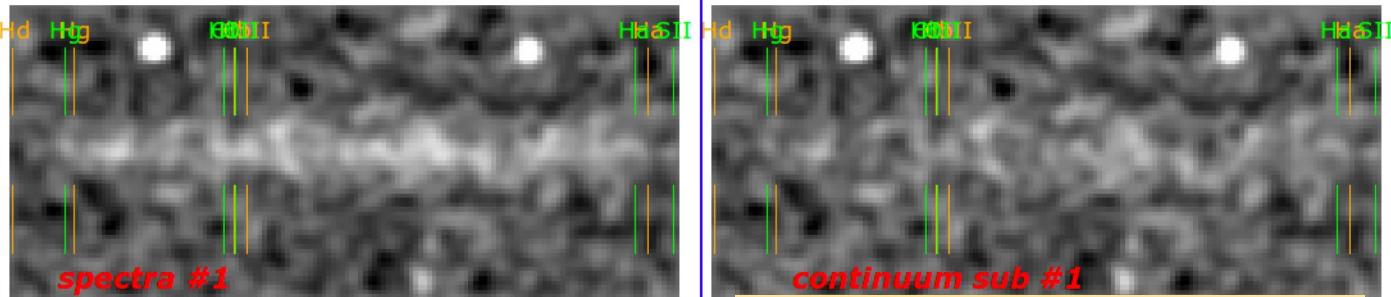






- Ha emission is clearly fitted.
- Hbeta+OIII not so obvious.
- There is a offset knot that also shown in the 1D spectrum, likely fake signal.

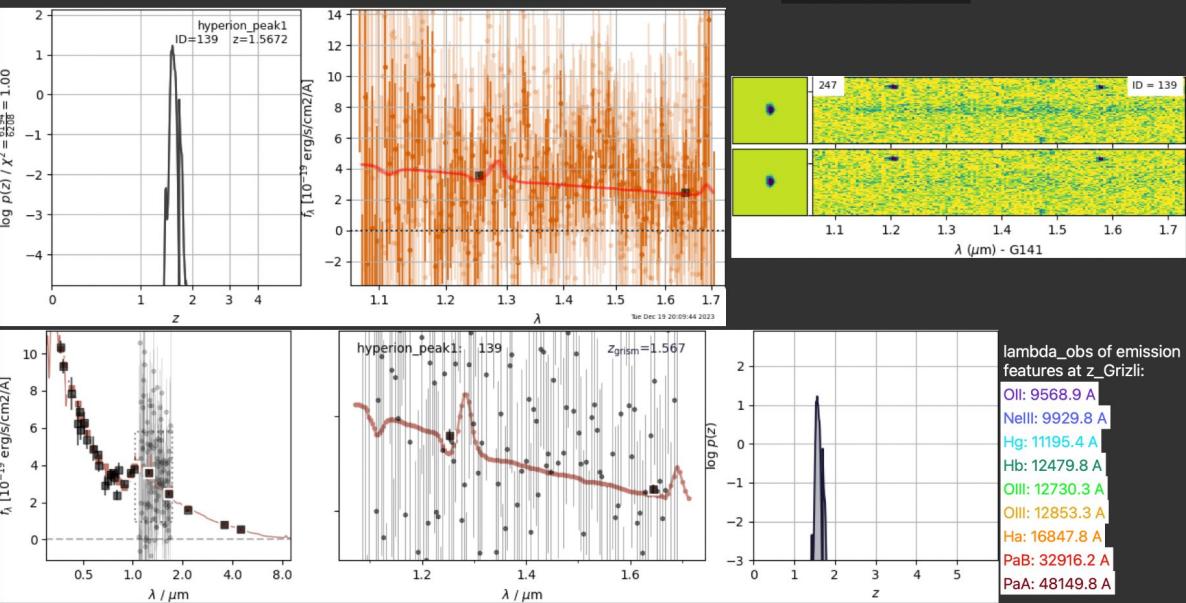




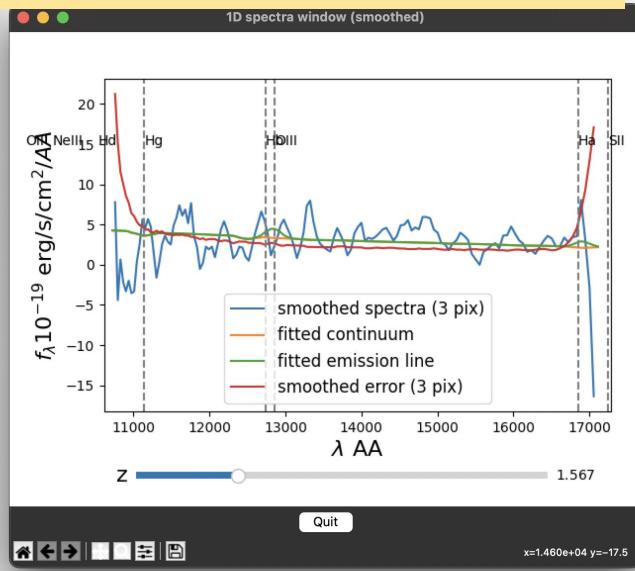
Checking N = 22 (total 48):
Grizli id: hyperion_peak1_00139 (23.3 mag)
Grizli fitted to $z = 1.57$ [green in ds9]
C20 zphot = 1.59 [orange in ds9]

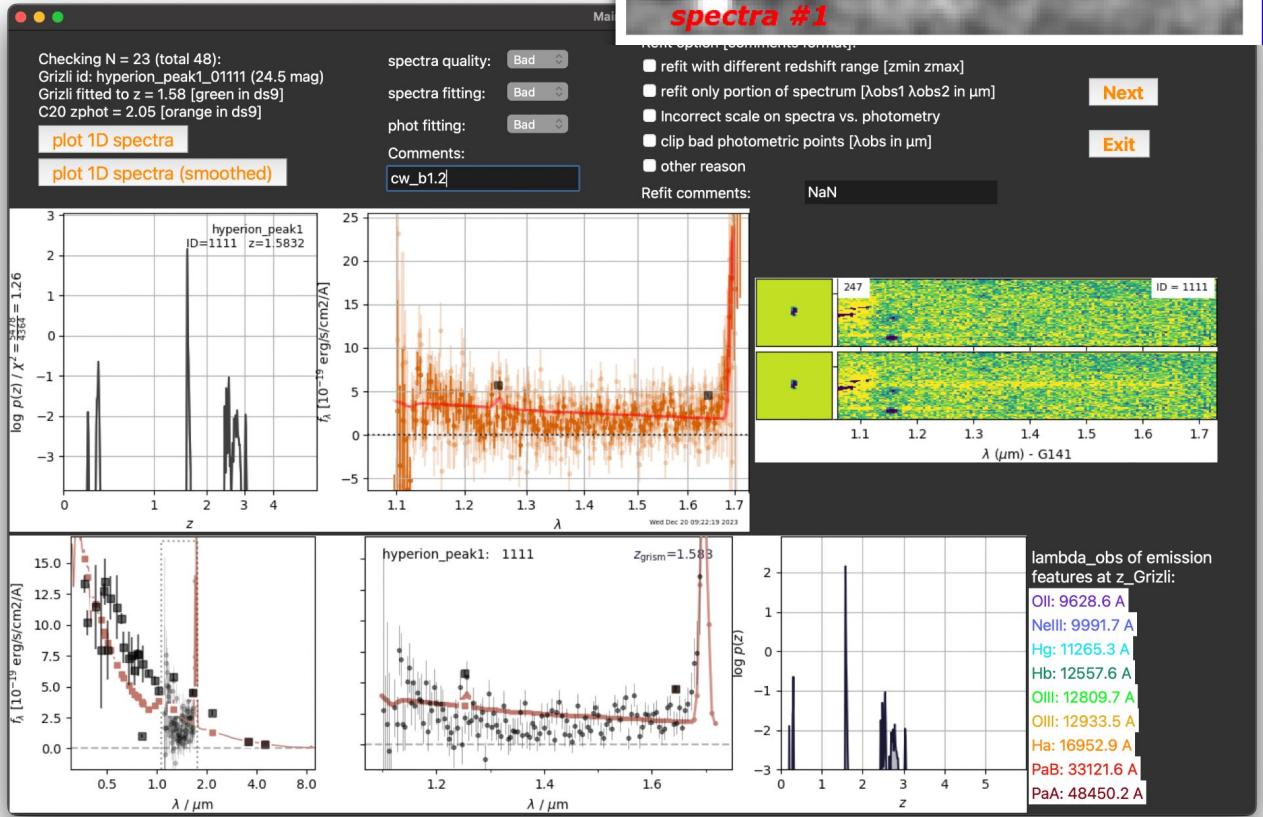
plot 1D spectra

plot 1D spectra (smoothed)

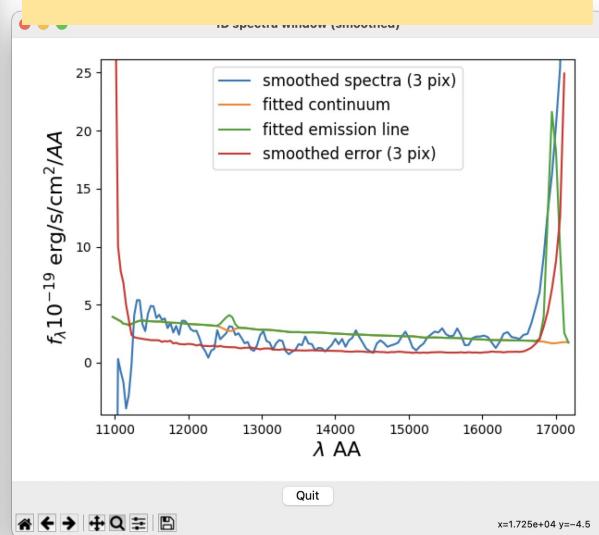


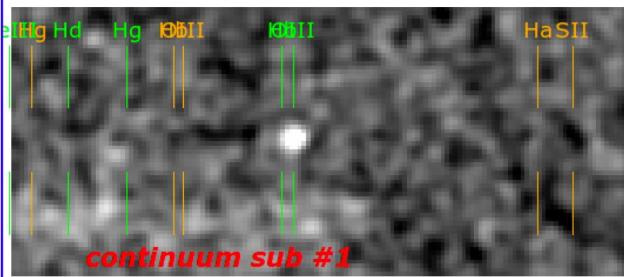
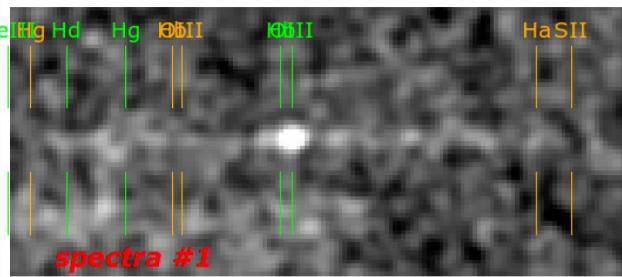
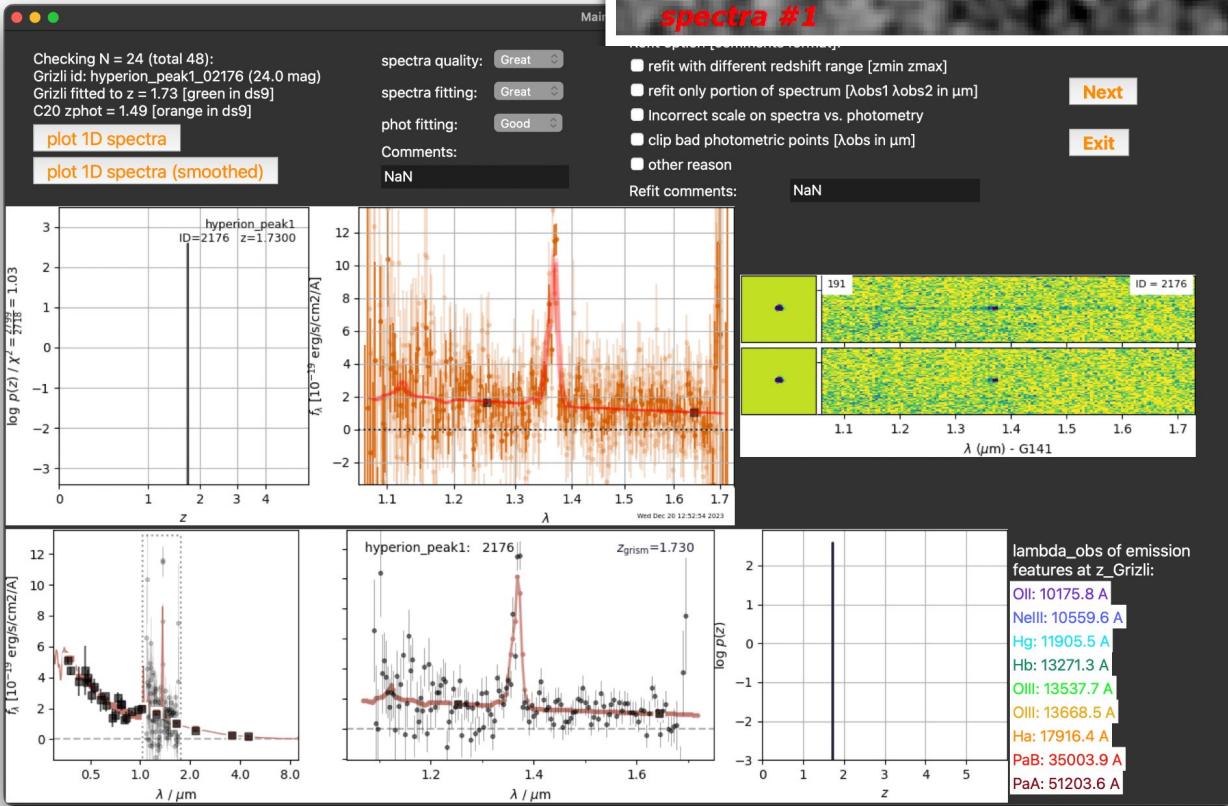
- faint but faint continuum, no clear lines, no contamination
 - continuum fitted good, unclear about H β +OIII, as they are pretty strong lines.



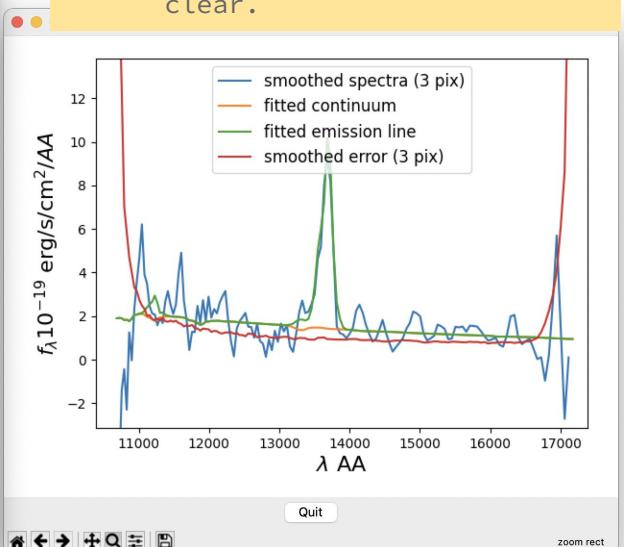


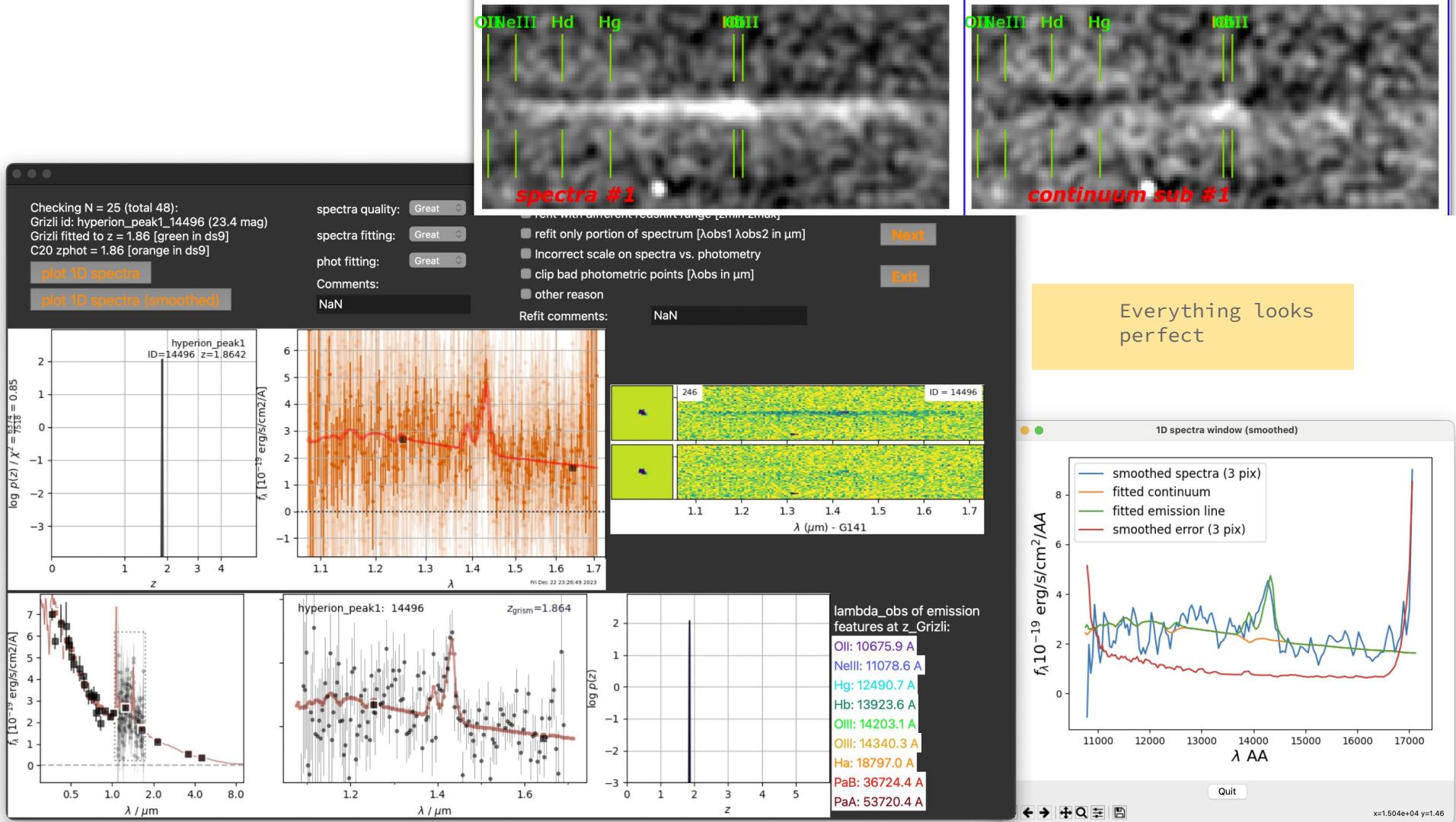
- Contamination at $< 1.2 \mu\text{m}$.
- Continuum is not fitted over-subtracted;
- Phot fitting bad;

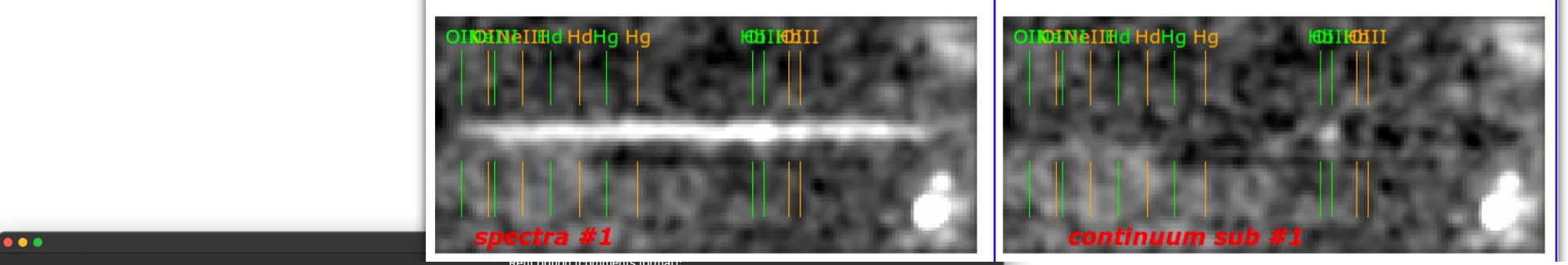




- faint continuum with a clear emission line
- Hb+OIII and continuum fitted well.
- Phot fitting looks general good, though not seen very clear.







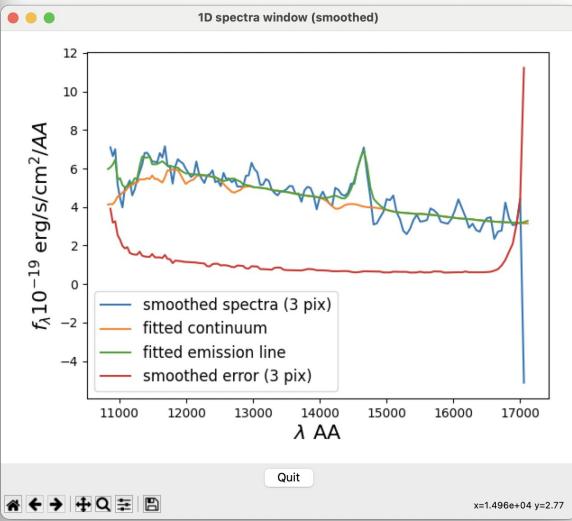
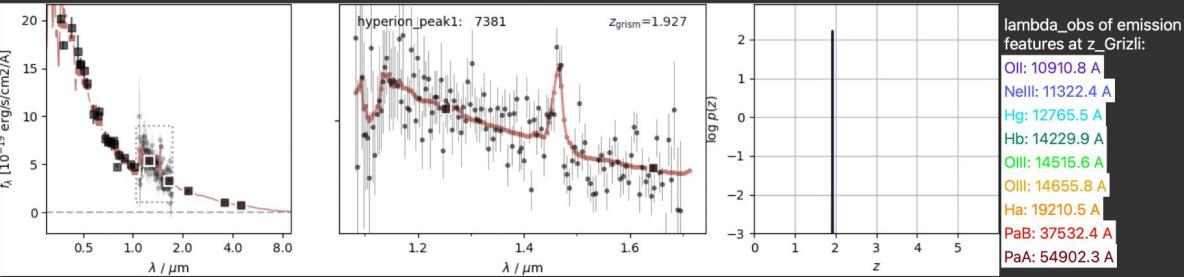
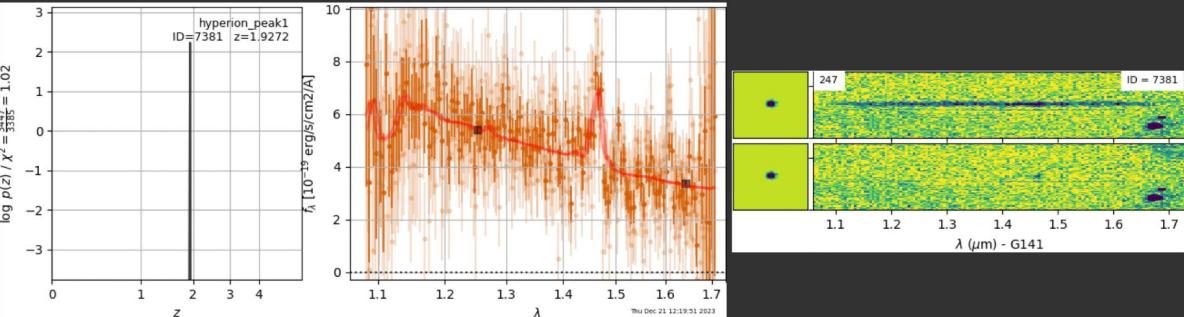
Checking N = 26 (total 48):
 Grizli id: hyperion_peak1_07381 (22.9 mag)
 Grizli fitted to $z = 1.93$ [green in ds9]
 C20 zphot = 2.02 [orange in ds9]

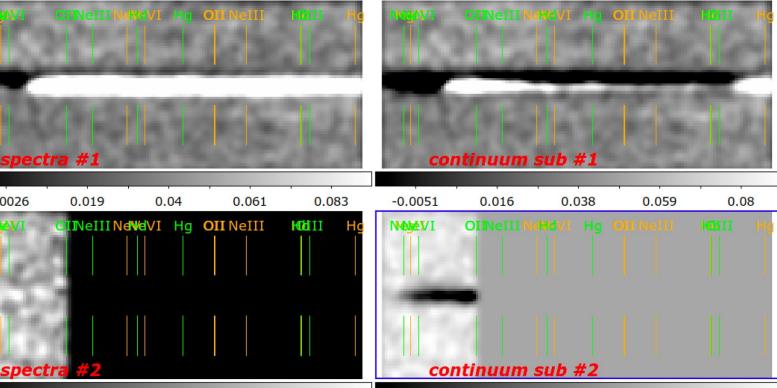
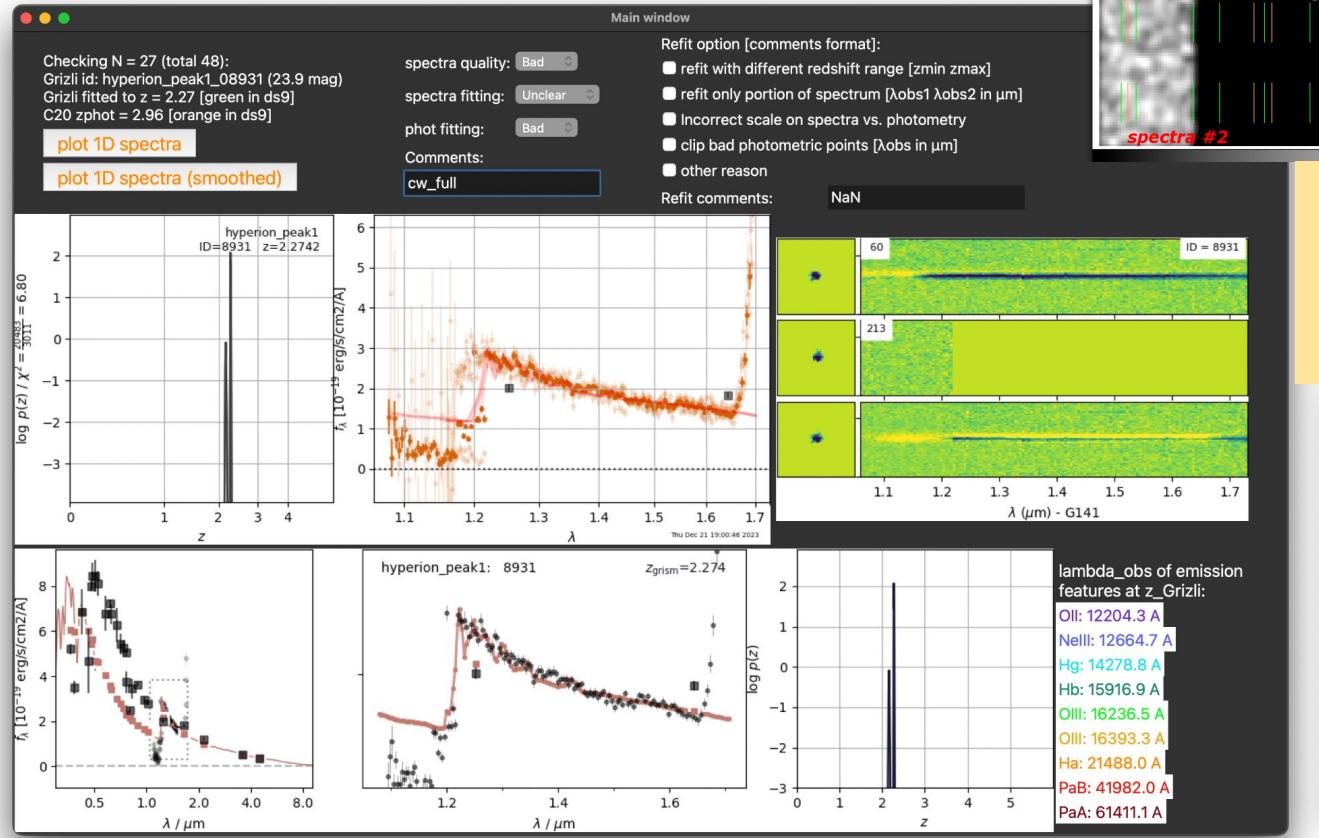
[plot 1D spectra](#)

[plot 1D spectra \(smoothed\)](#)

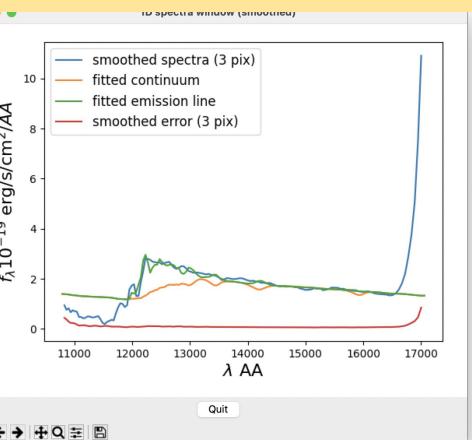
spectra quality:	Great	Refit option [Comments format]:
<input type="checkbox"/> spectra refit with different redshift range [zmin zmax]	<input type="checkbox"/> spectra refit only portion of spectrum [λ_{obs1} λ_{obs2} in μm]	Next
<input type="checkbox"/> phot fitting: Great	<input type="checkbox"/> Incorrect scale on spectra vs. photometry	Exit
<input type="checkbox"/> Comments:	<input type="checkbox"/> clip bad photometric points [λ_{obs} in μm]	
<input type="checkbox"/> other reason		

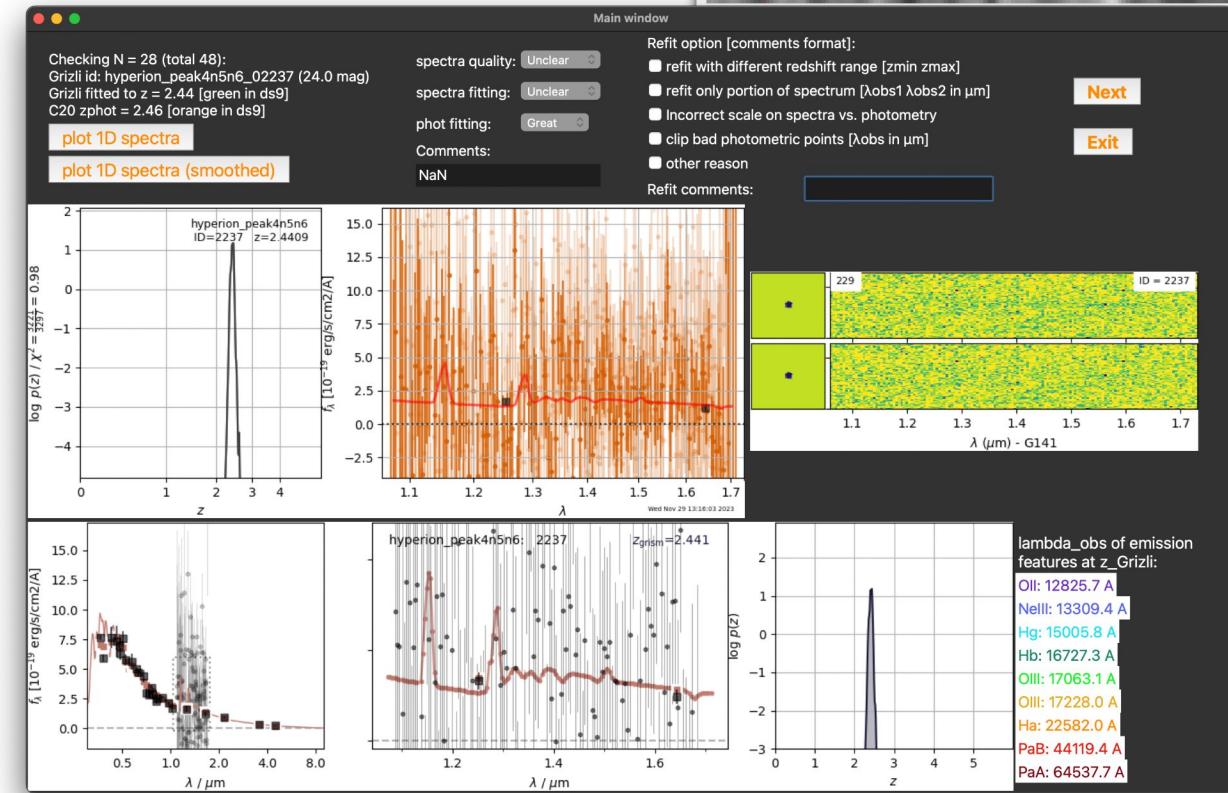
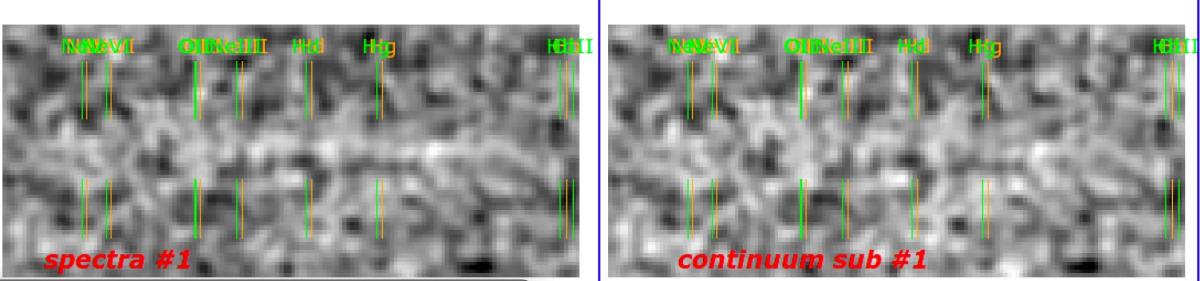
Refit comments: NaN



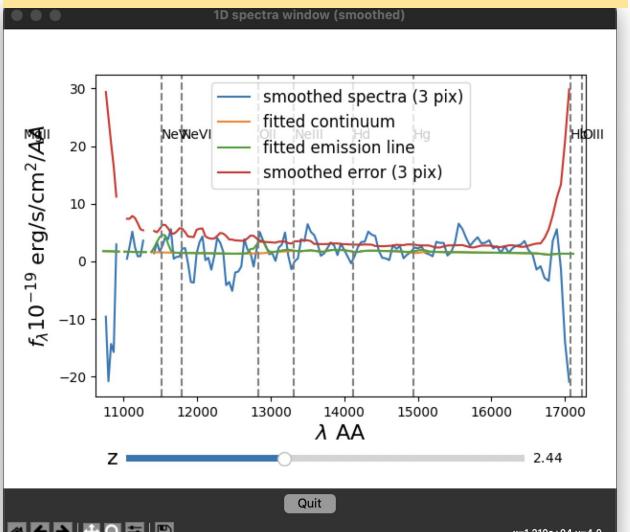


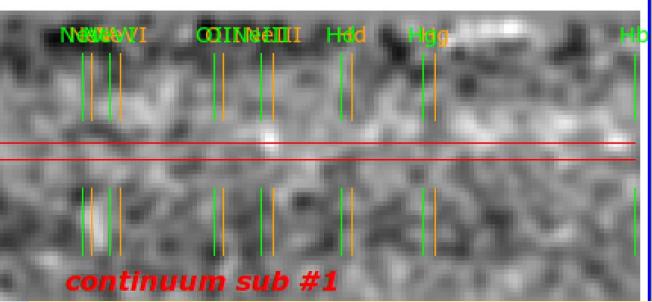
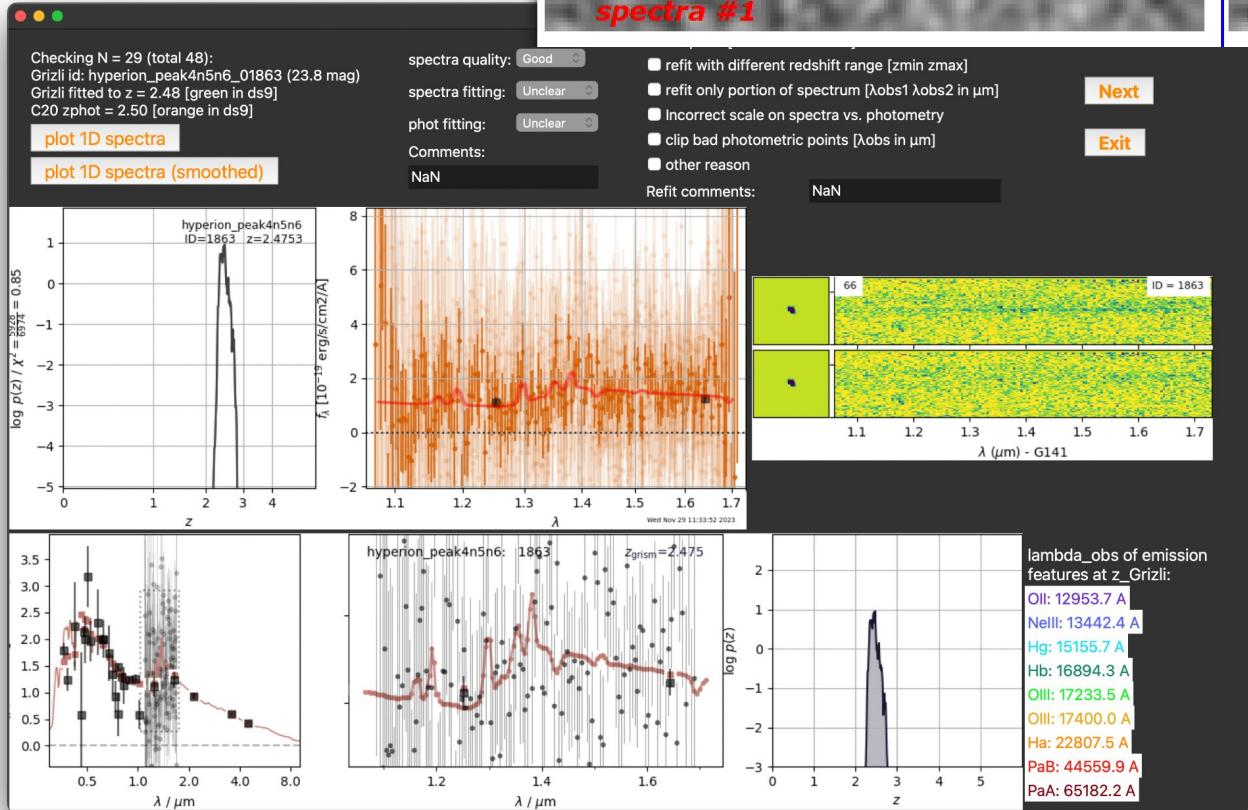
- Bad contamination;
- Spectra continuum fitted good, but due to the bad spectra quality, it is really unclear
- Bad Phot fitting;
-



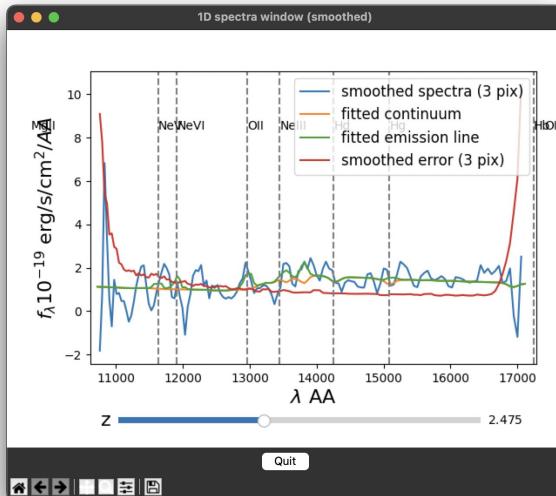


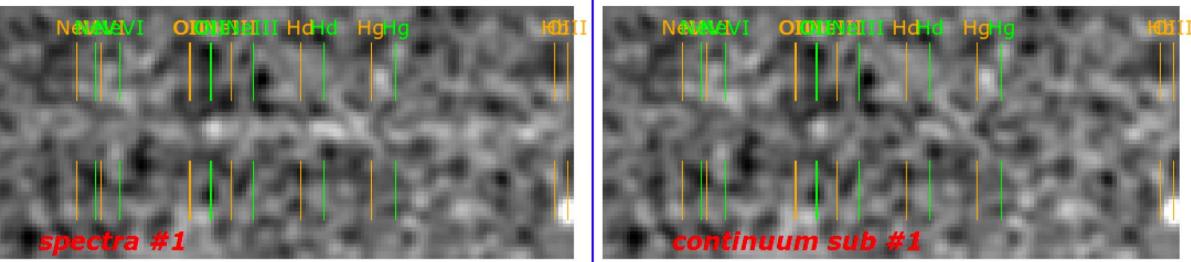
- Very faint continuum, no contamination;
- Spectra continuum fitted good, no emission line fitted. Only OII is in the spectra window, not a very strong line;
- Great Phot fitting;





- clear continuum, no emission line, thus good;
- Spectra continuum fitted good, OII is fitted, but unclear if it is a real emission line.
- Phot is also unclear, lots of offsetted data.





Main window

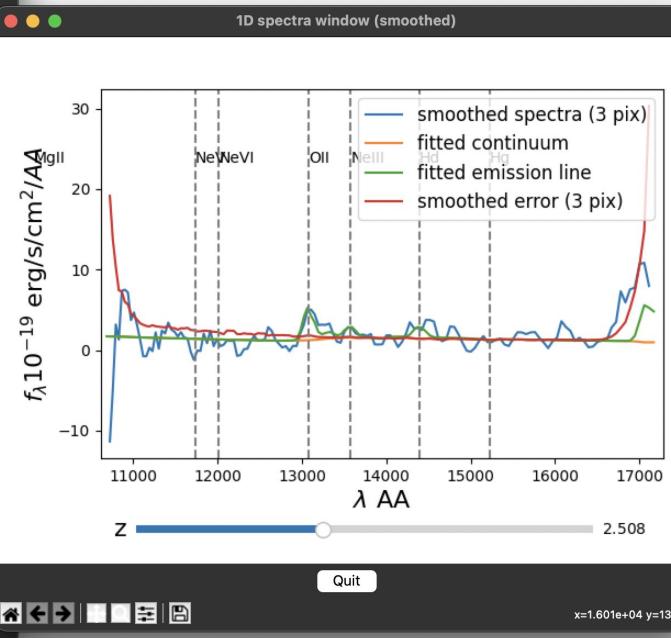
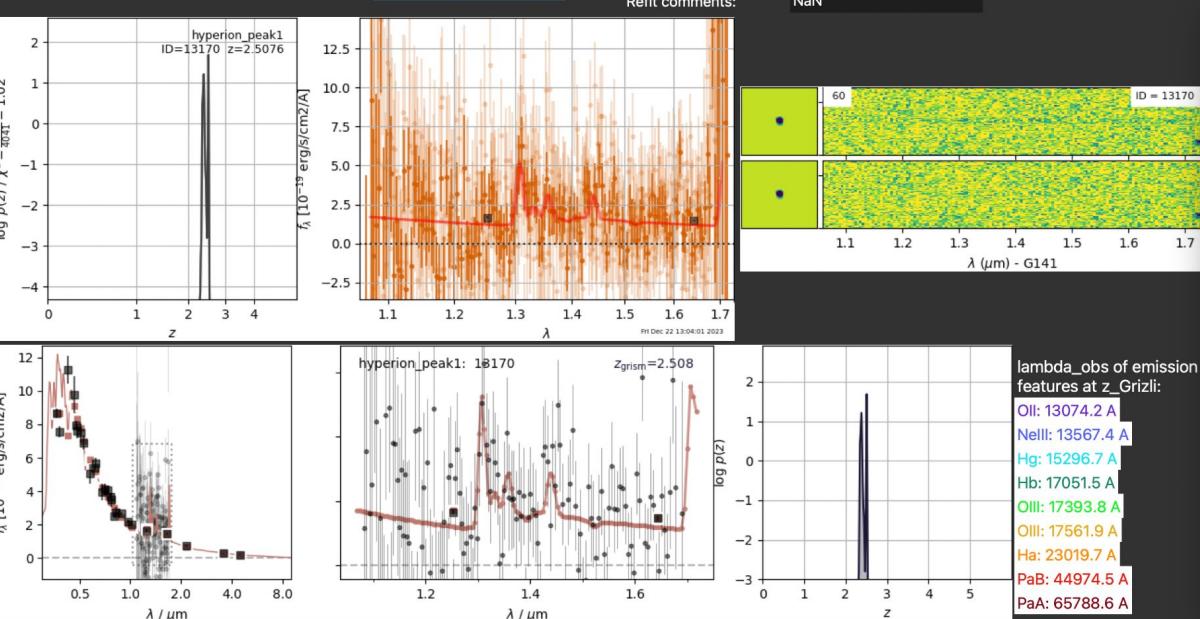
Checking N = 30 (total 48):
 Grizli id: hyperion_peak1_13170 (24.0 mag)
 Grizli fitted to z = 2.51 [green in ds9]
 C20 zphot = 2.44 [orange in ds9]

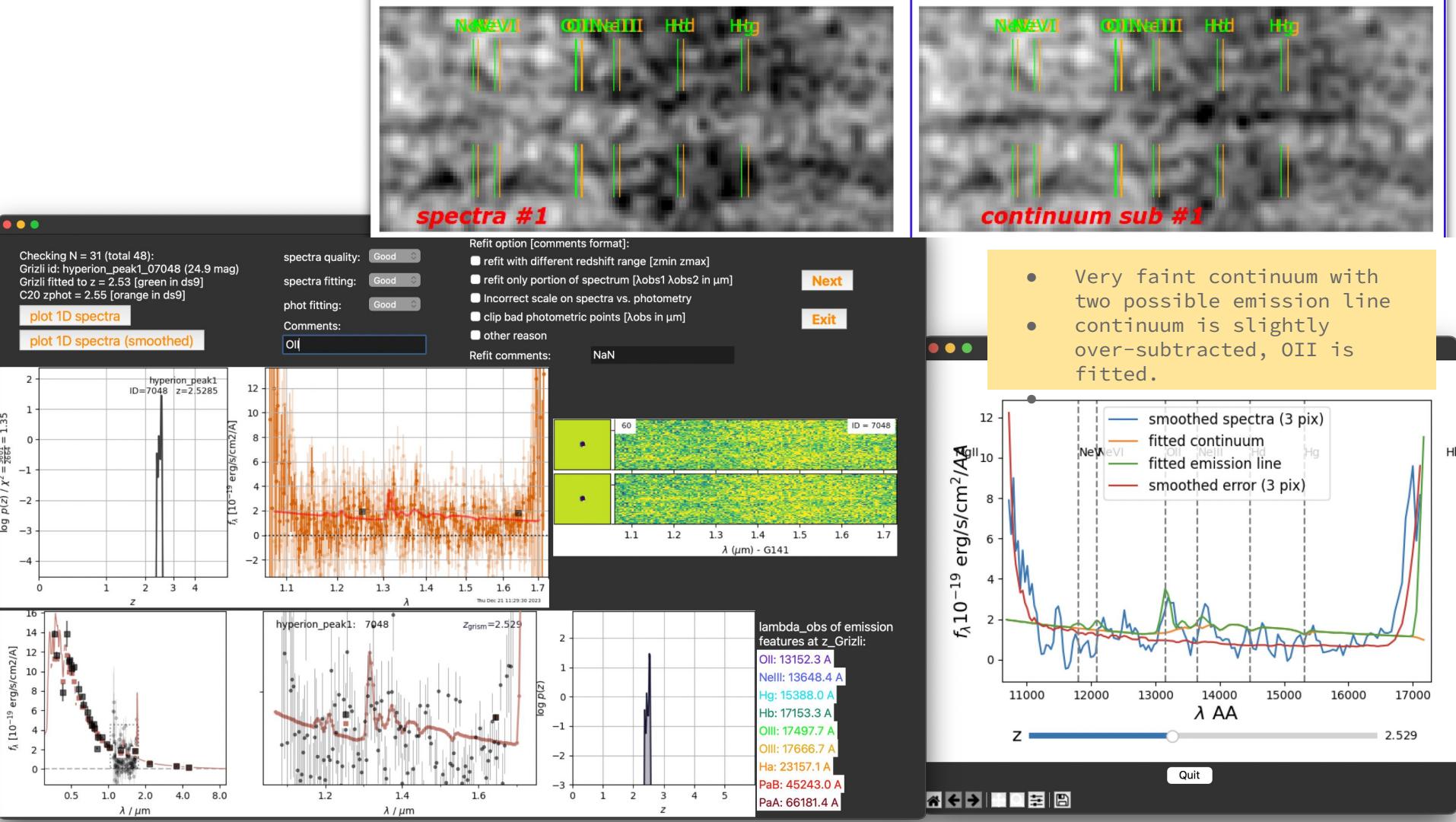
spectra quality: Great
 spectra fitting: Great
 phot fitting: Great
 Comments: OII Hd

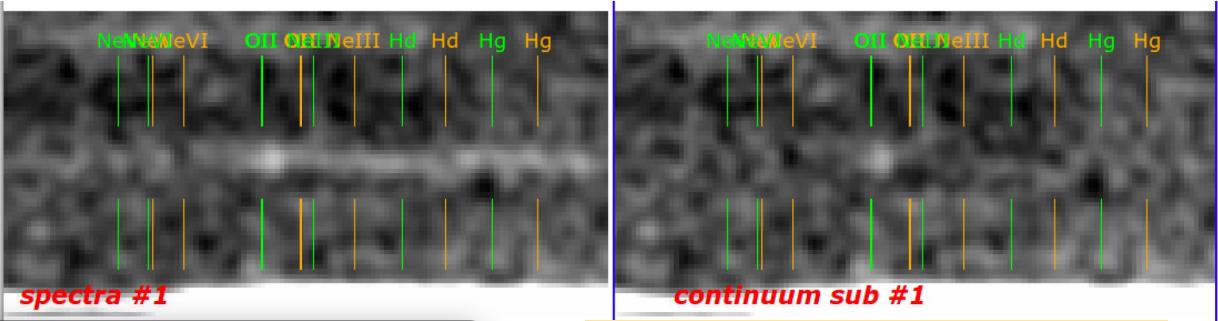
Refit option [comments format]:
 refit with different redshift range [zmin zmax]
 refit only portion of spectrum [λ_{obs1} λ_{obs2} in μm]
 Incorrect scale on spectra vs. photometry
 clip bad photometric points [λ_{obs} in μm]
 other reason

Refit comments: NaN

Next **Exit**

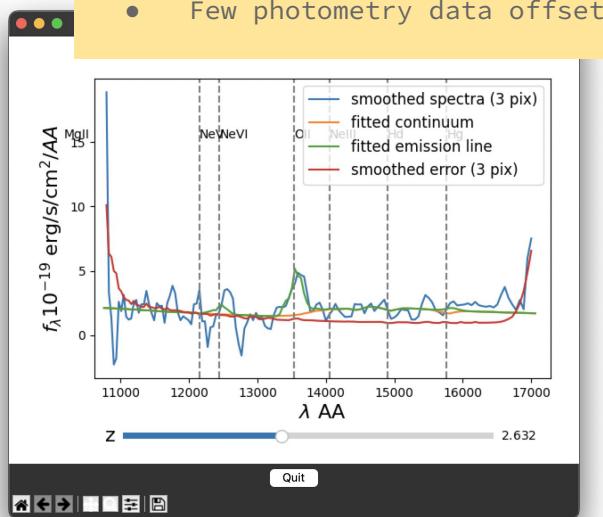
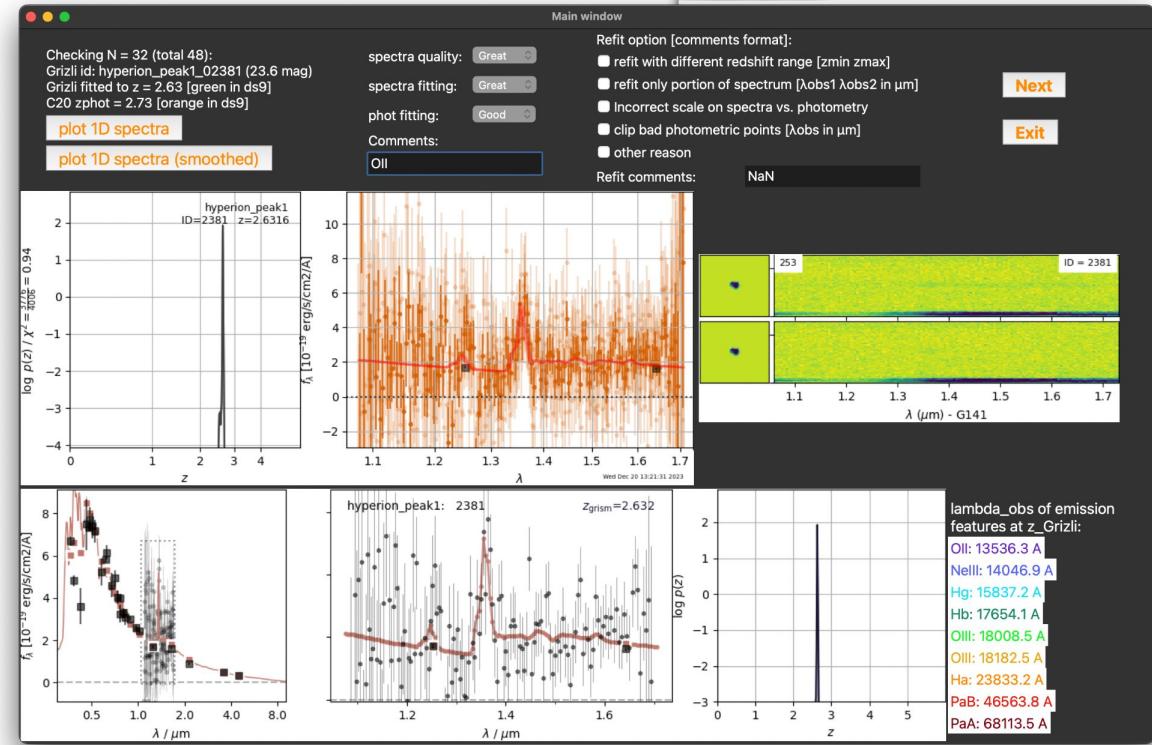


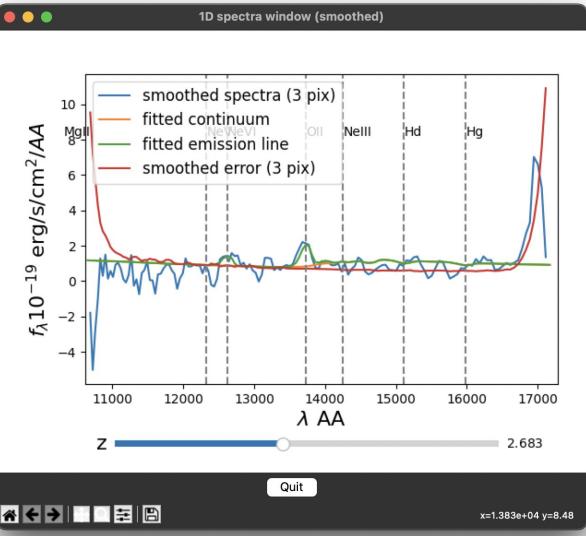
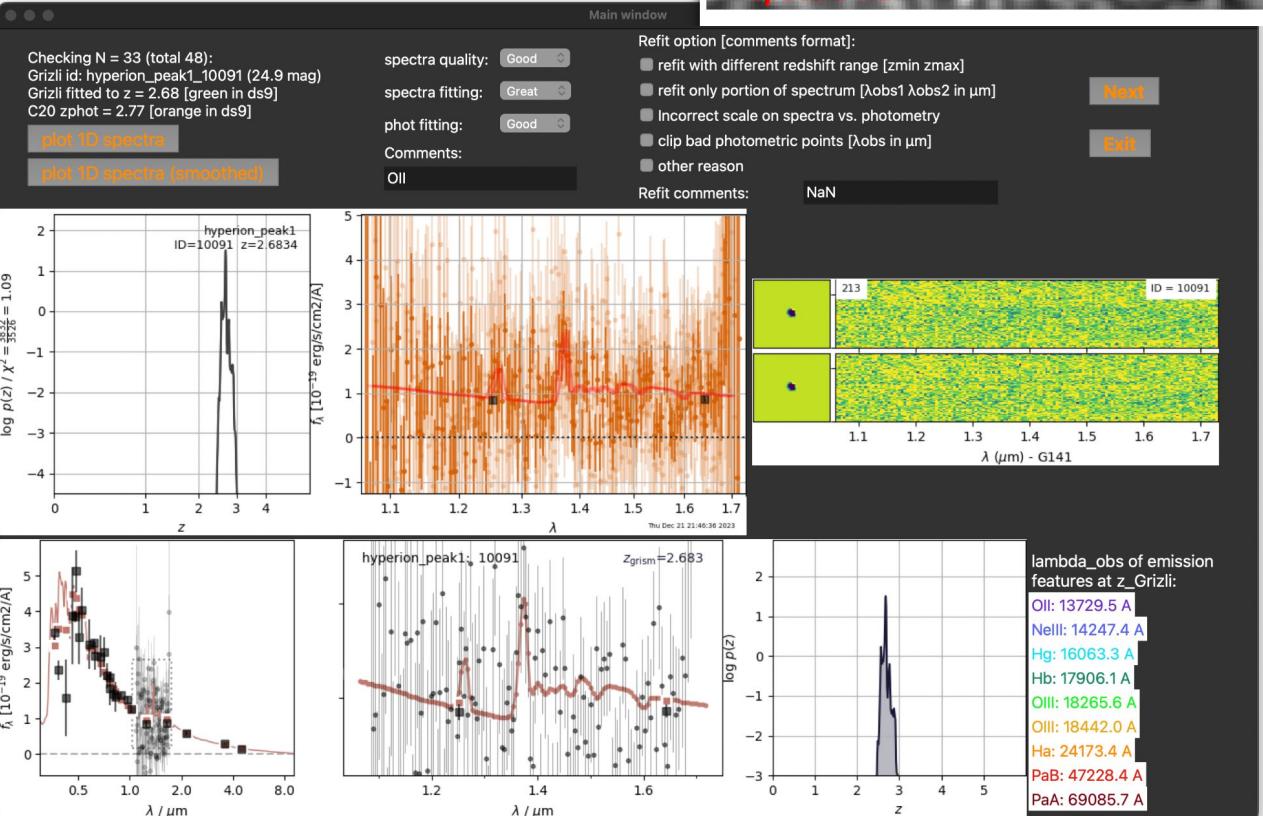
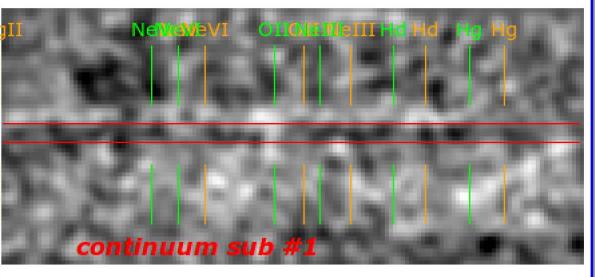
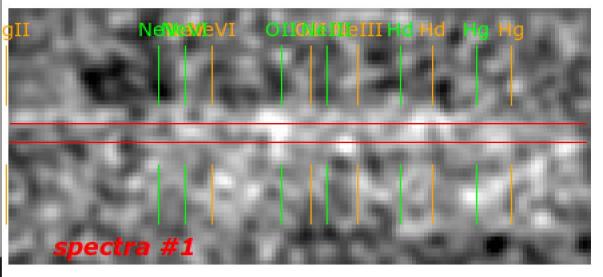


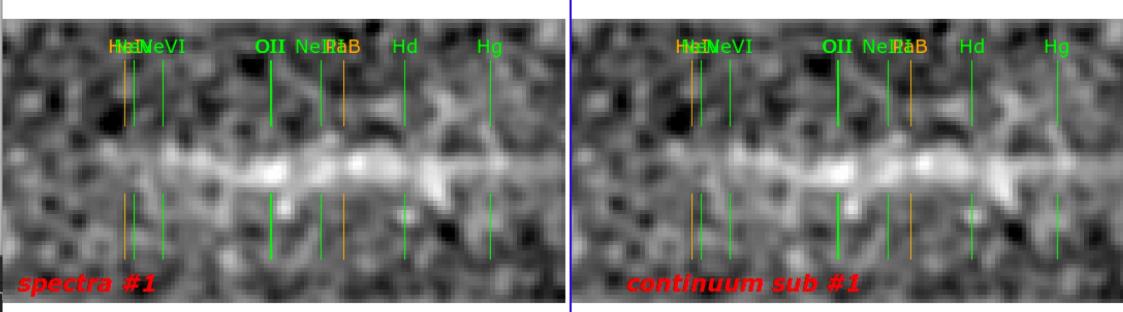
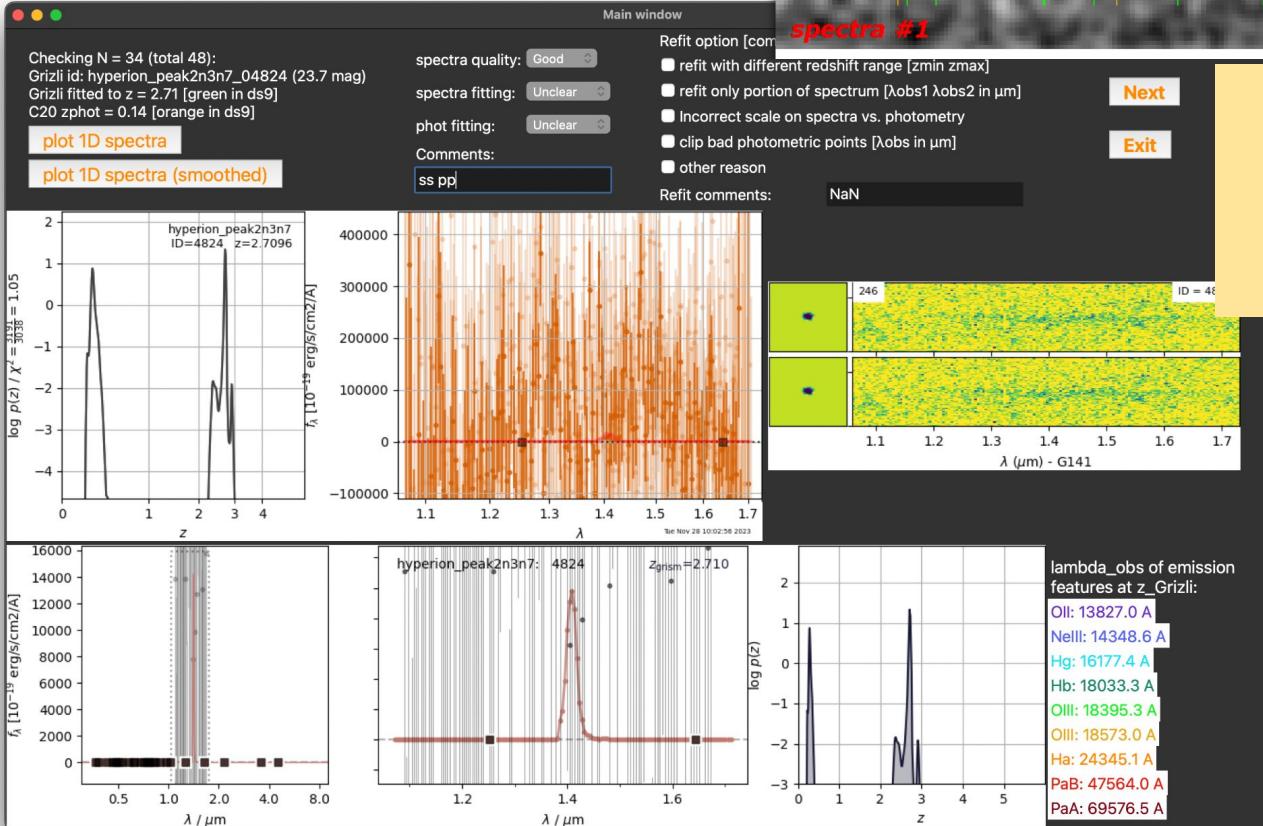


continuum sub #1

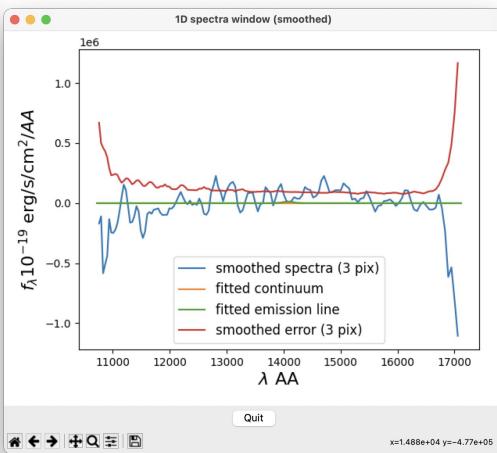
- Great spectrum with continuum and emission lines.
- Spectra fitting is great: continuum is fitted, OII is fitted.
- Few photometry data offset

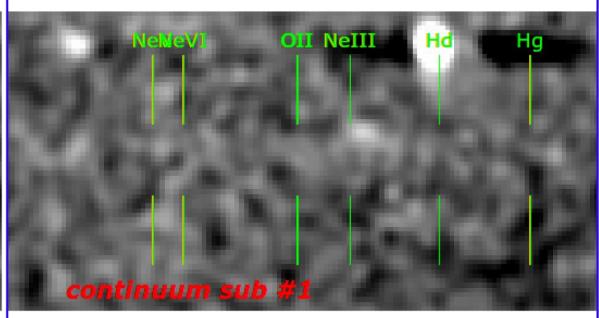
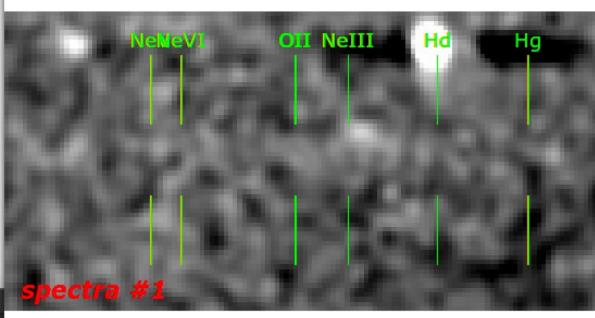
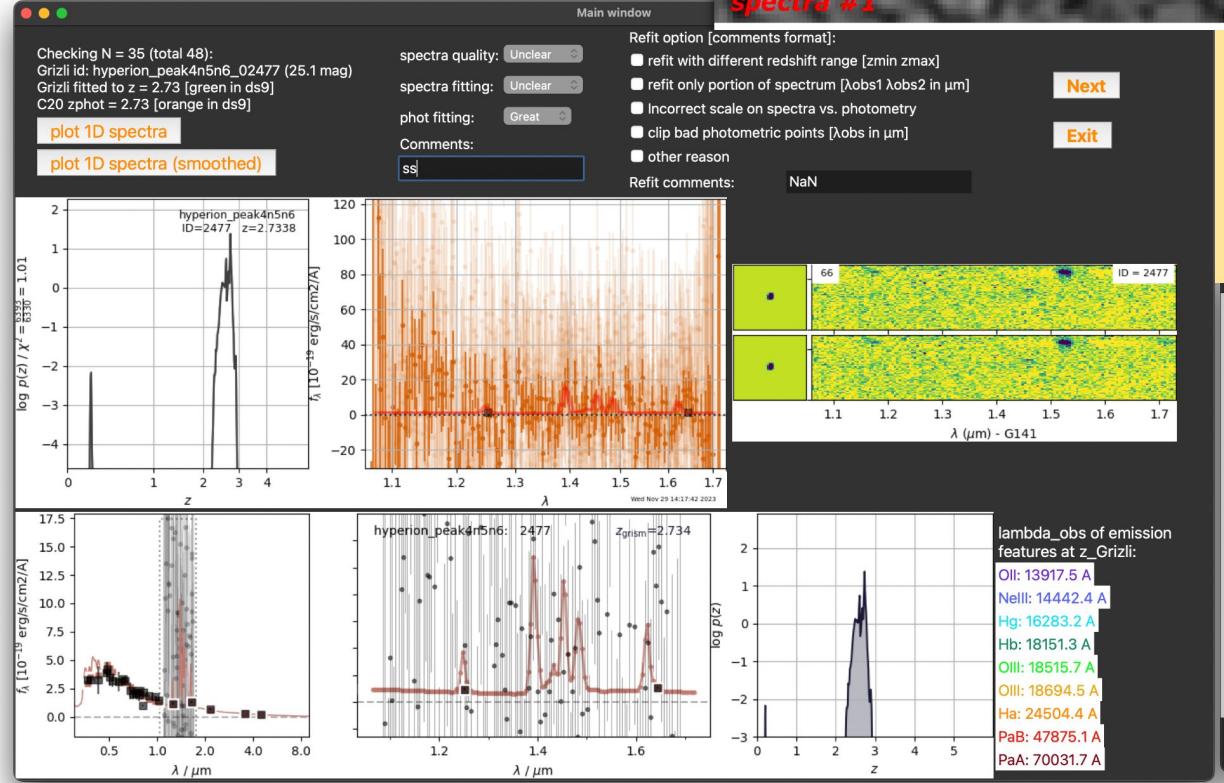




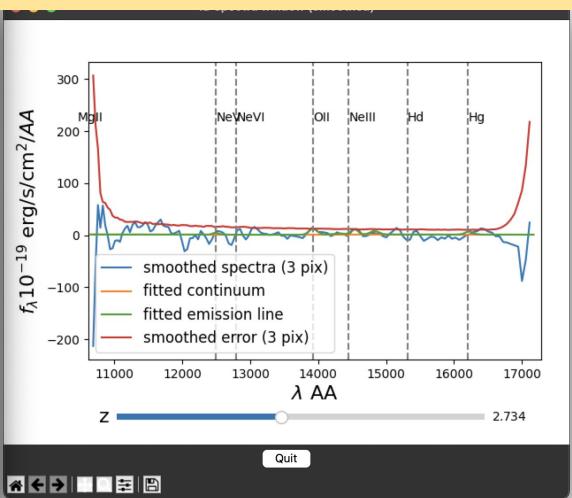


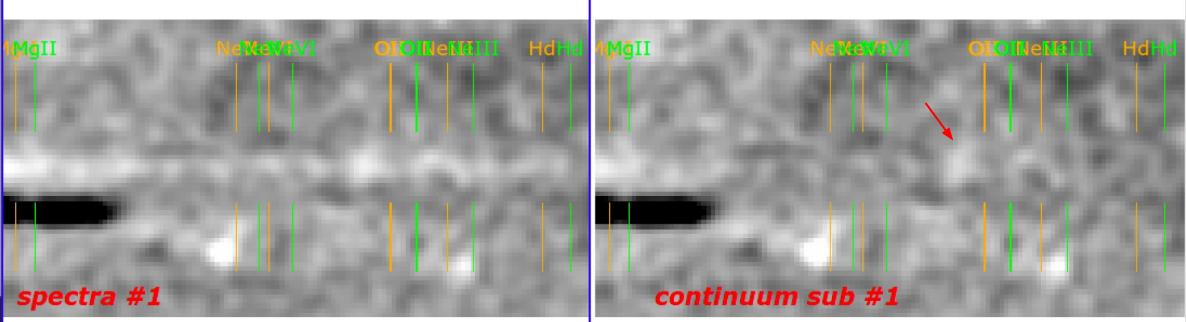
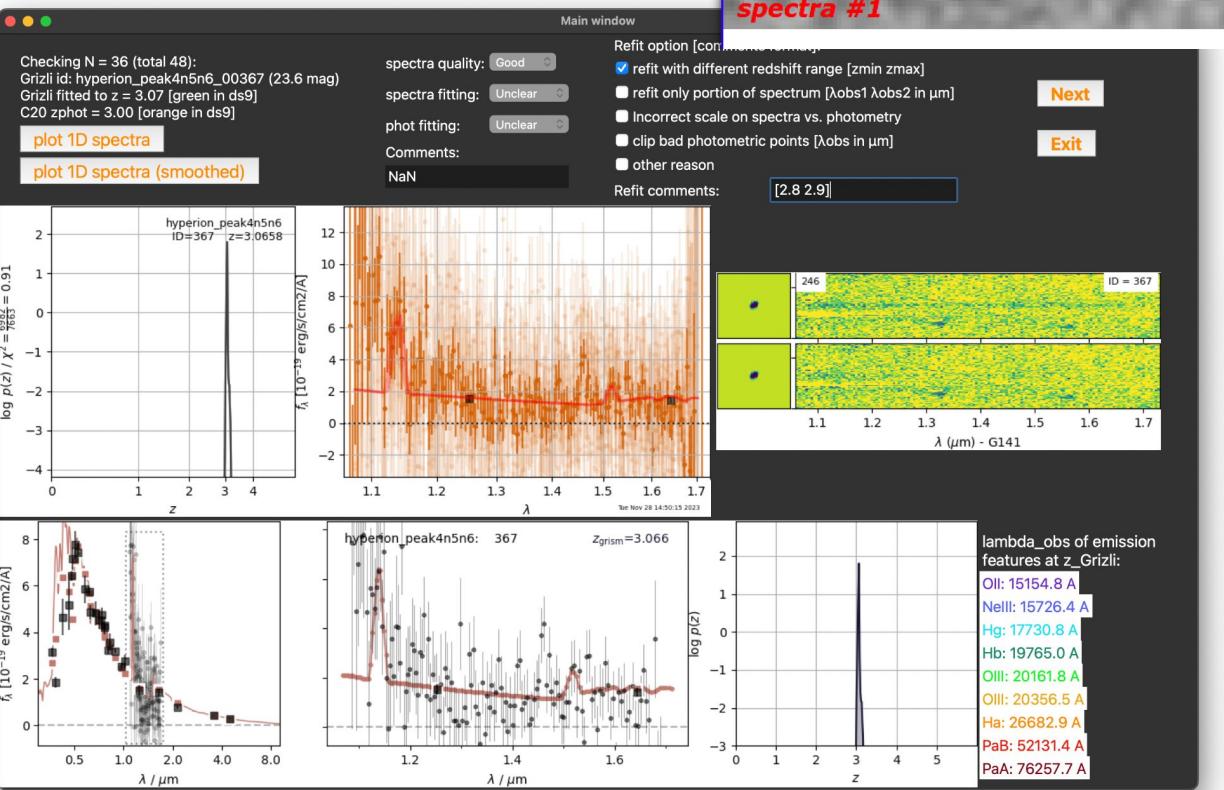
- clear spectrum, no contamination;
- only a continuum without features is fit, but it's unclear whether emission features should be present. Spectra same between spectra and continuum subtracted (mark "ss" in the comment)
- Phot fitting plot is not shown.



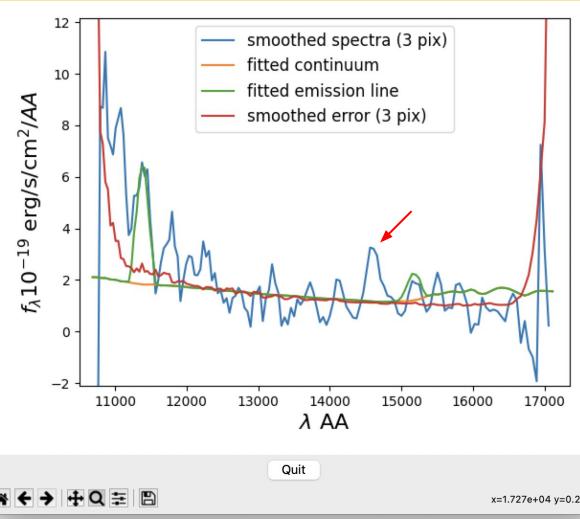


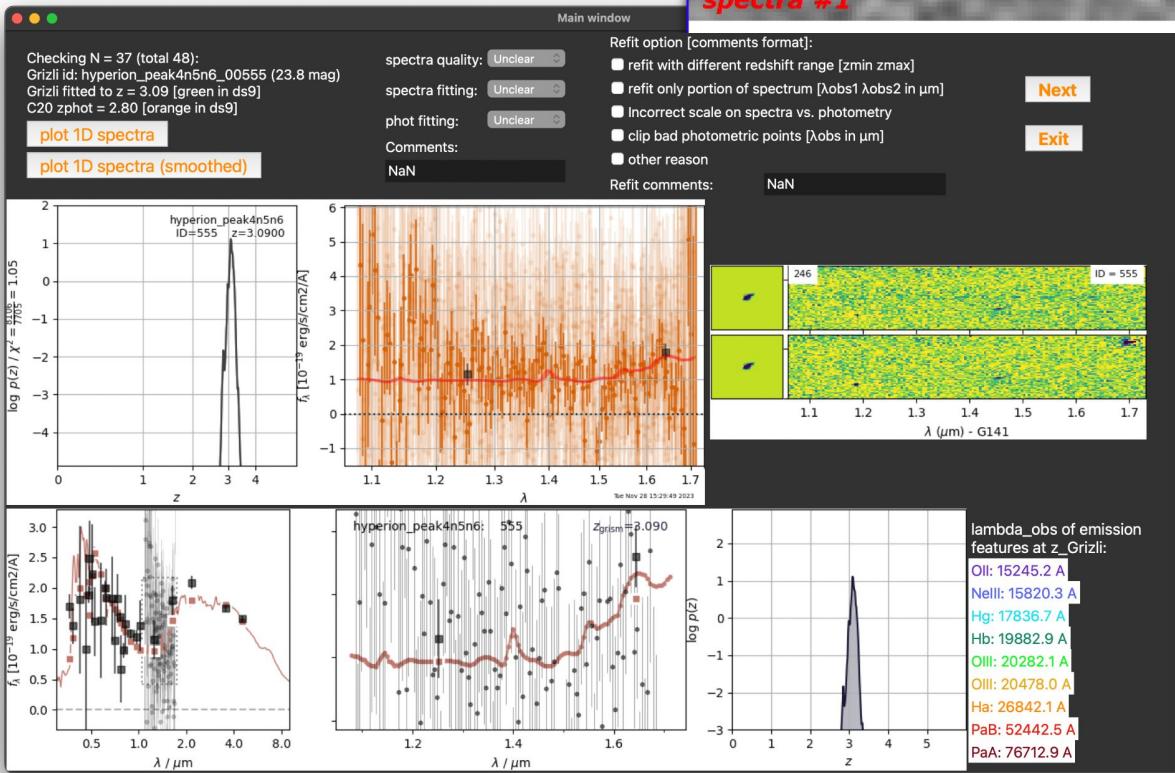
- Unclear spectrum, no contamination;
- only a continuum without features is fit, but it's unclear whether emission features should be present. Spectra same between spectra and continuum subtracted



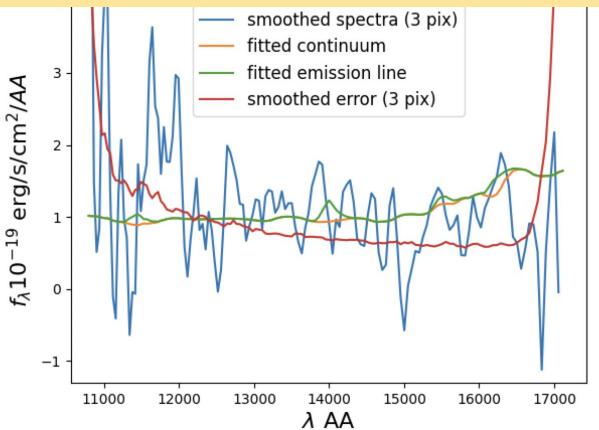


- Good spectrum with faint continuum and possible emission lines.
- Spectra fitting is unclear because one possible emission line is not fitted, might be OII?
- Photometry model off at $< 0.5 \mu\text{m}$

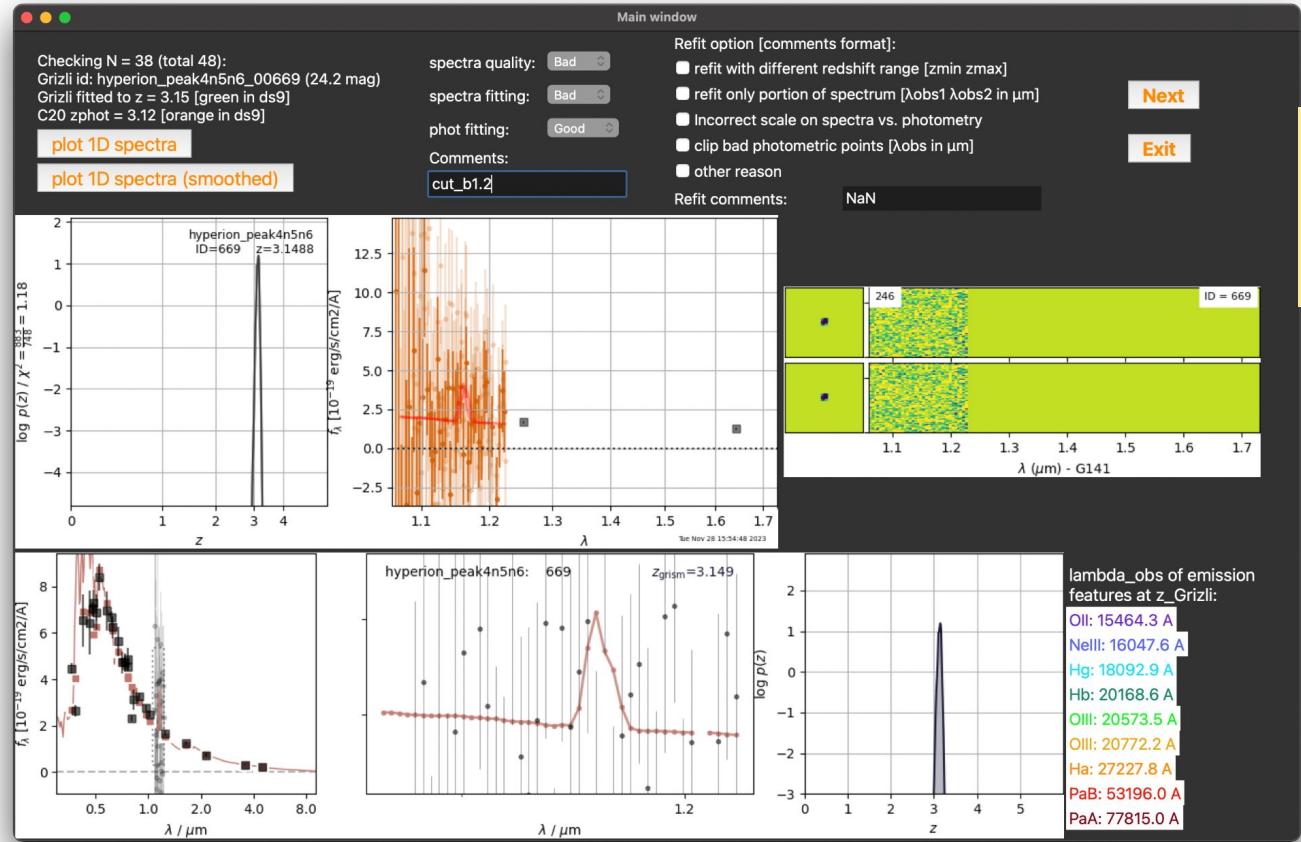




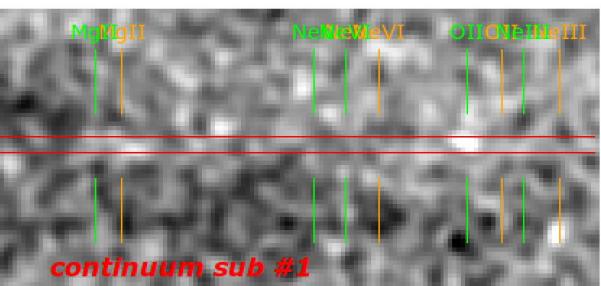
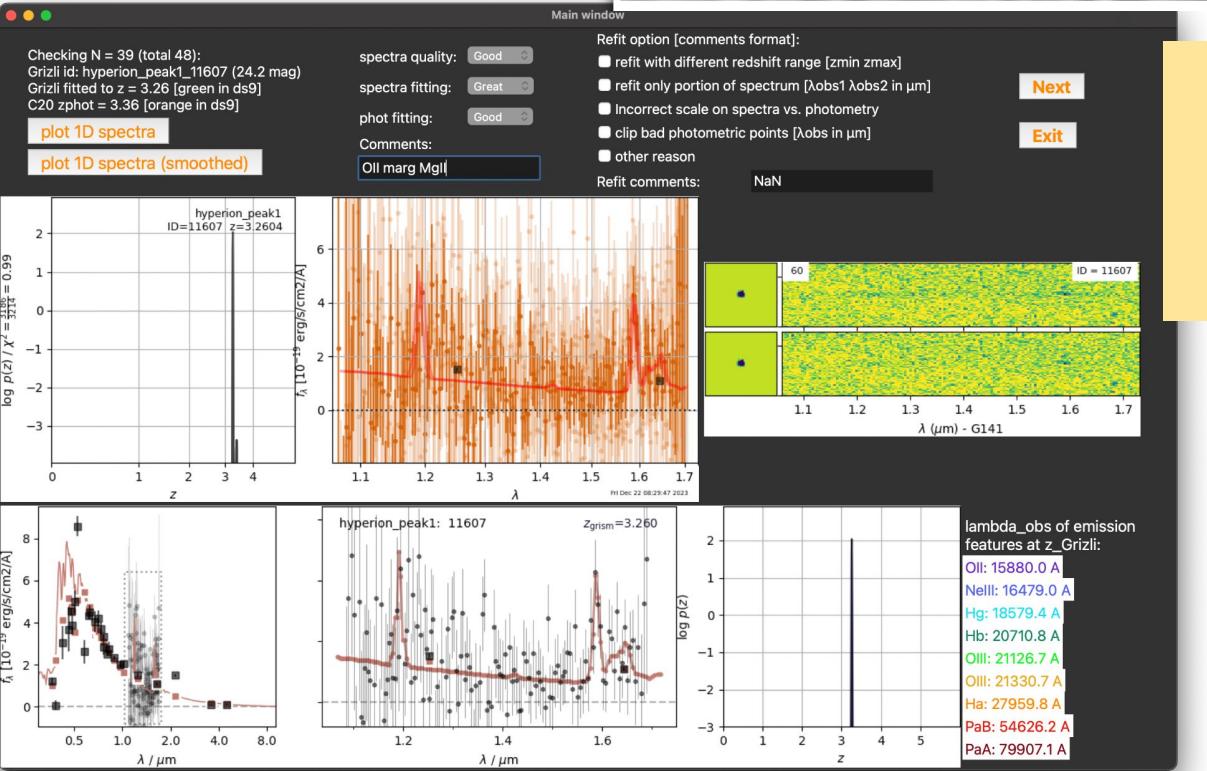
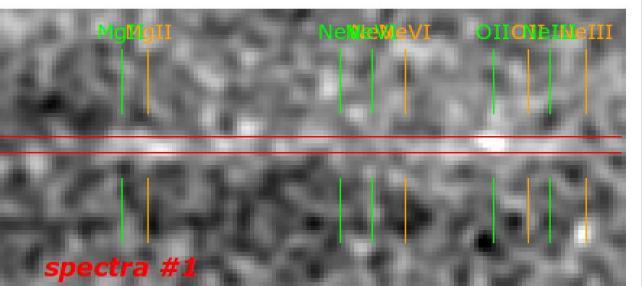
- faint continuum and no emission lines.
- Spectra continuum general fitted, but no emission line is present and fitted.
- Photometry data have large error bars at blue wavelength, and also offset at $\sim 2.5\mu\text{m}$



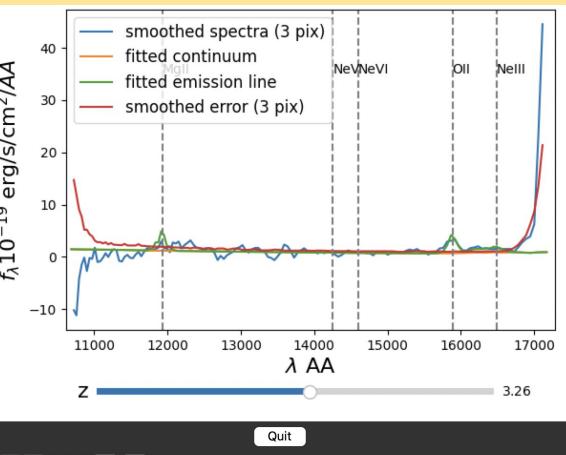
Quit

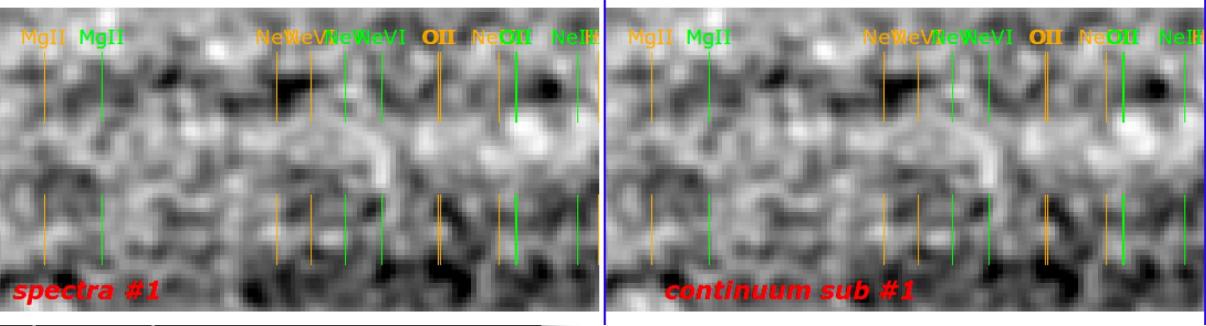
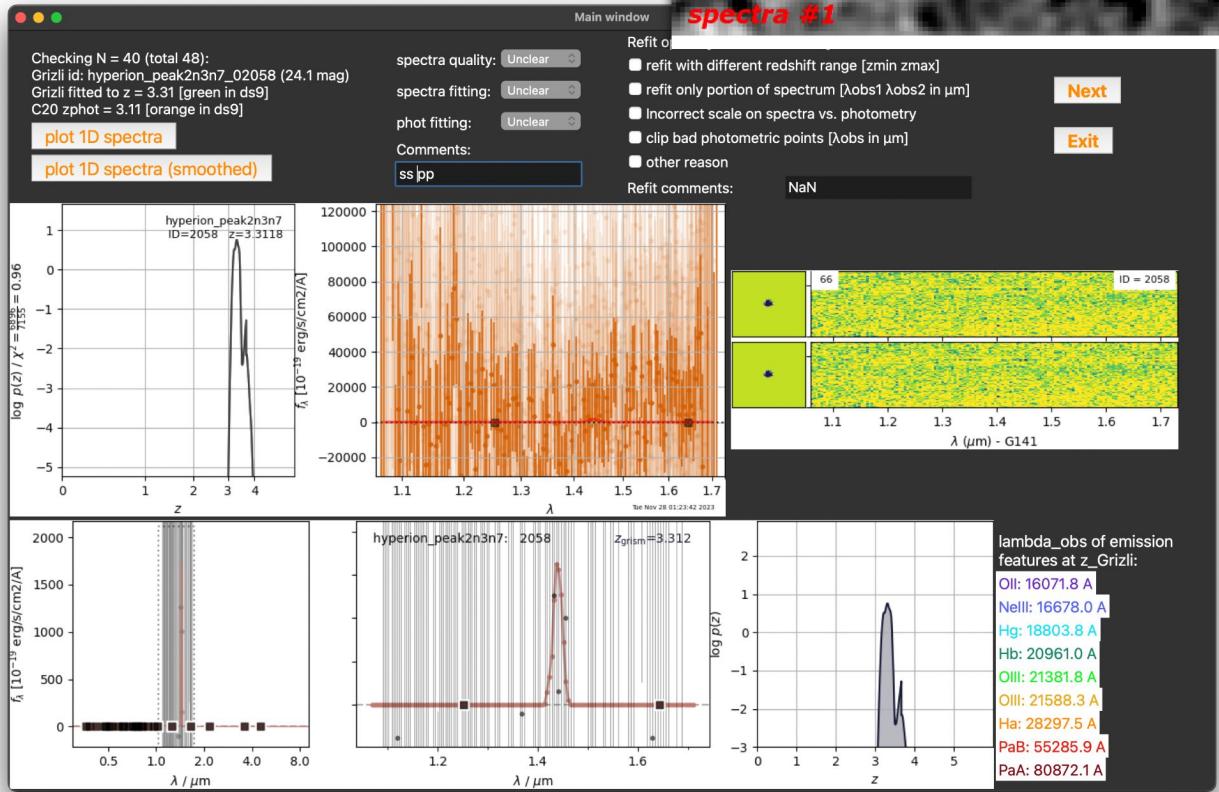


- Bad spectrum: not usable, only $\frac{1}{3}$ spectrum;
- Phot fitting looks good;

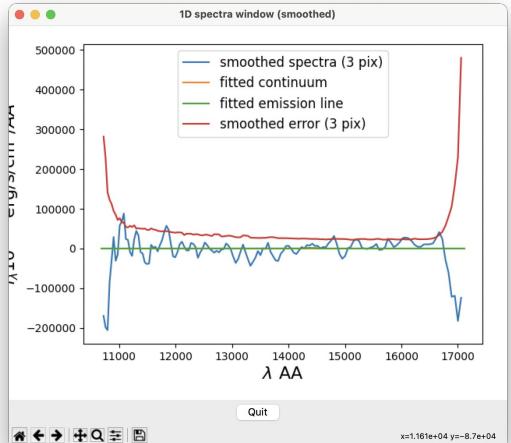


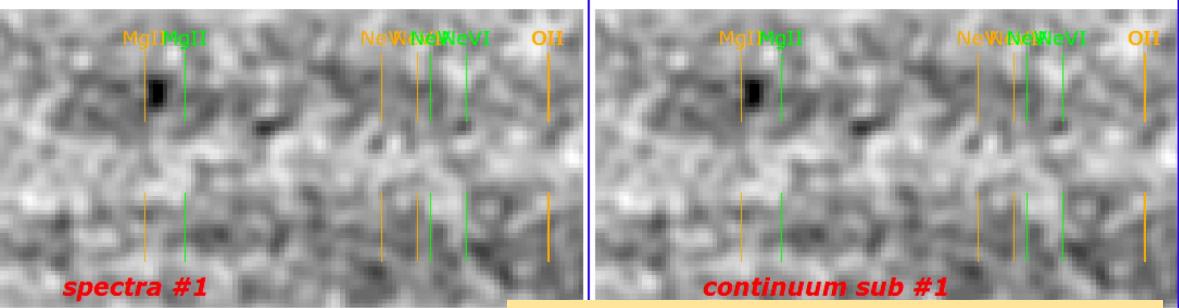
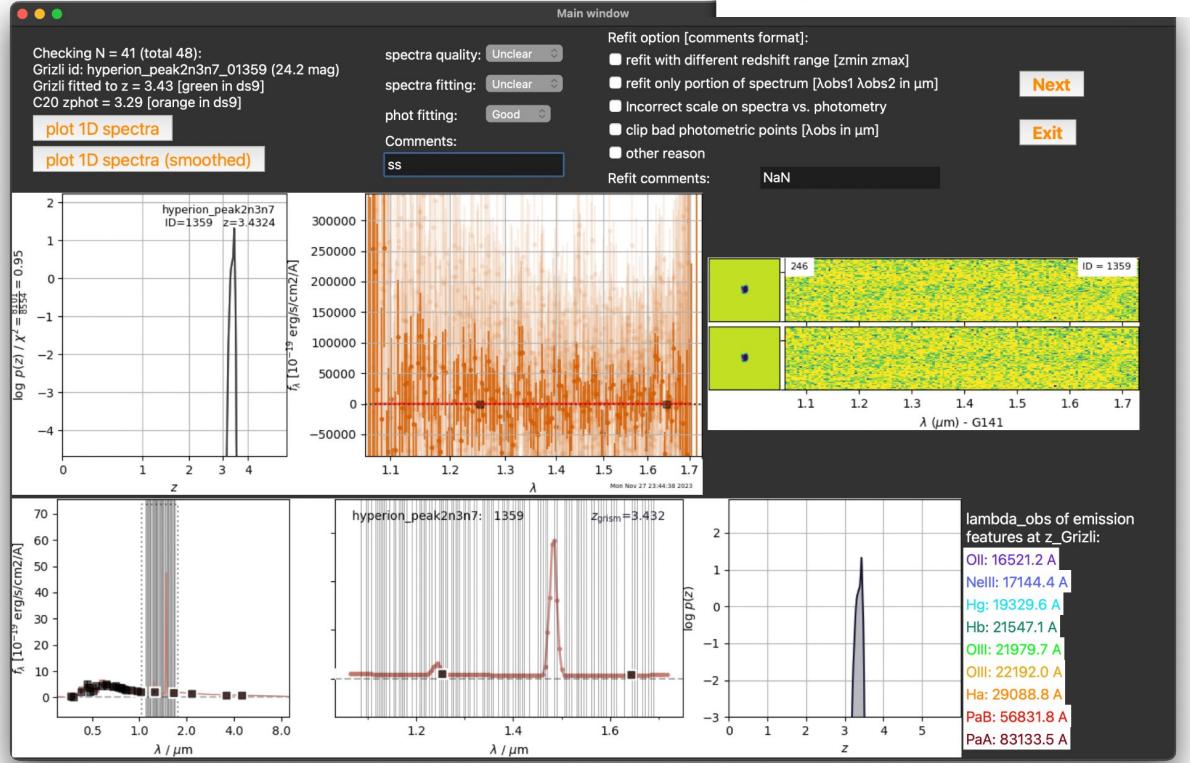
- Good spectrum with faint continuum and one clear emission line at $\sim 1.6\mu\text{m}$.
- Great spectra fitting: OII and MgII are fitted. MgII is over fitted, which is fine, we only need redshift here.
- Good phot fitting: $\sim 0.6\mu\text{m}$ data are not fitted, but the C20 zphot fit to similar redshift.



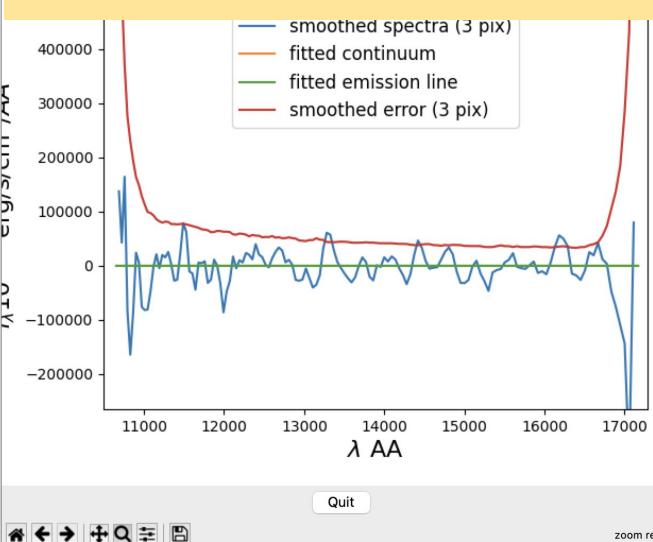


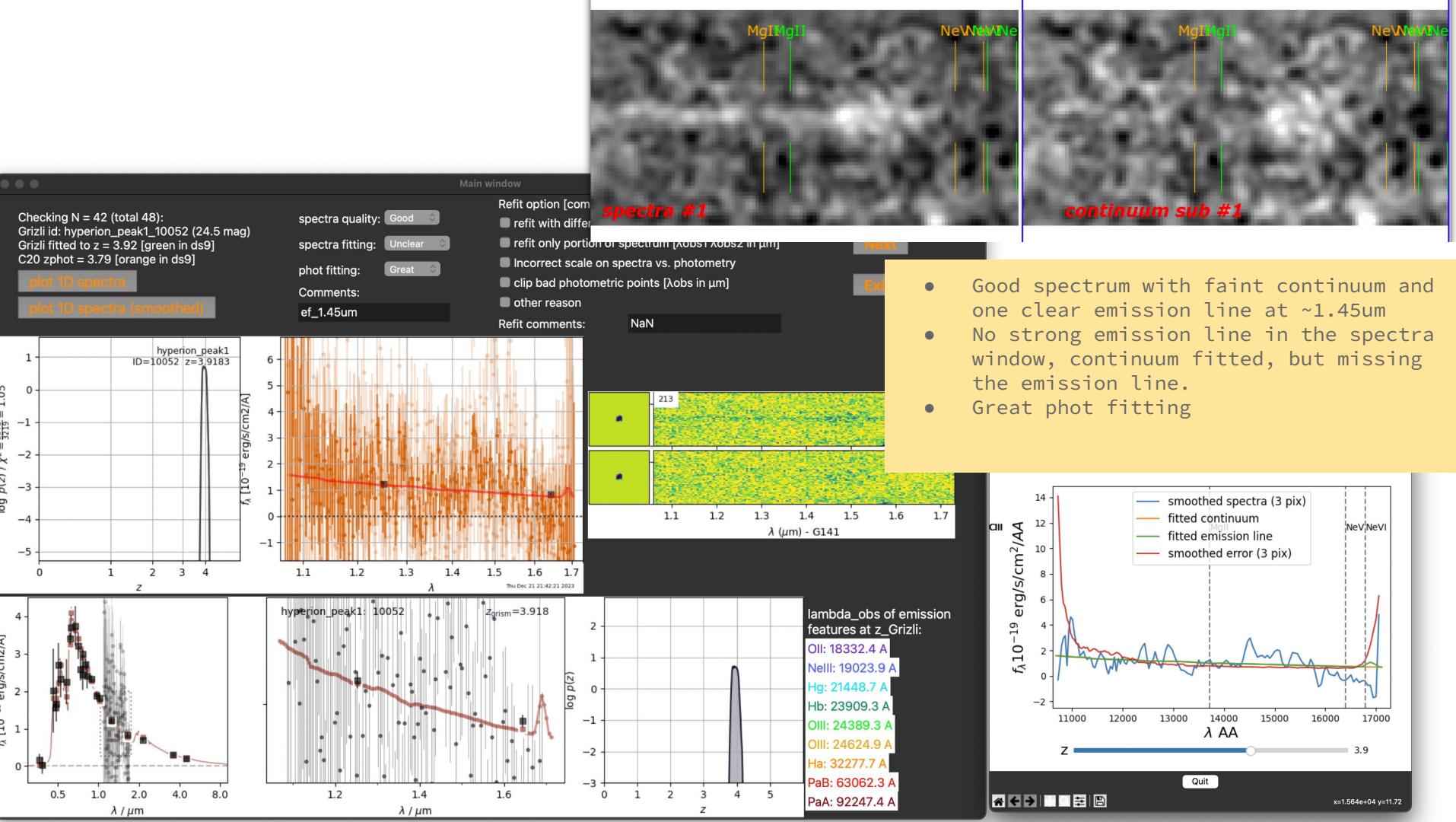
- Unclear spectrum, no contamination;
- only a continuum without features is fit,, but it's unclear whether emission features should be present. Spectra same between spectra and continuum subtracted
- Phot fitting plot is not shown.

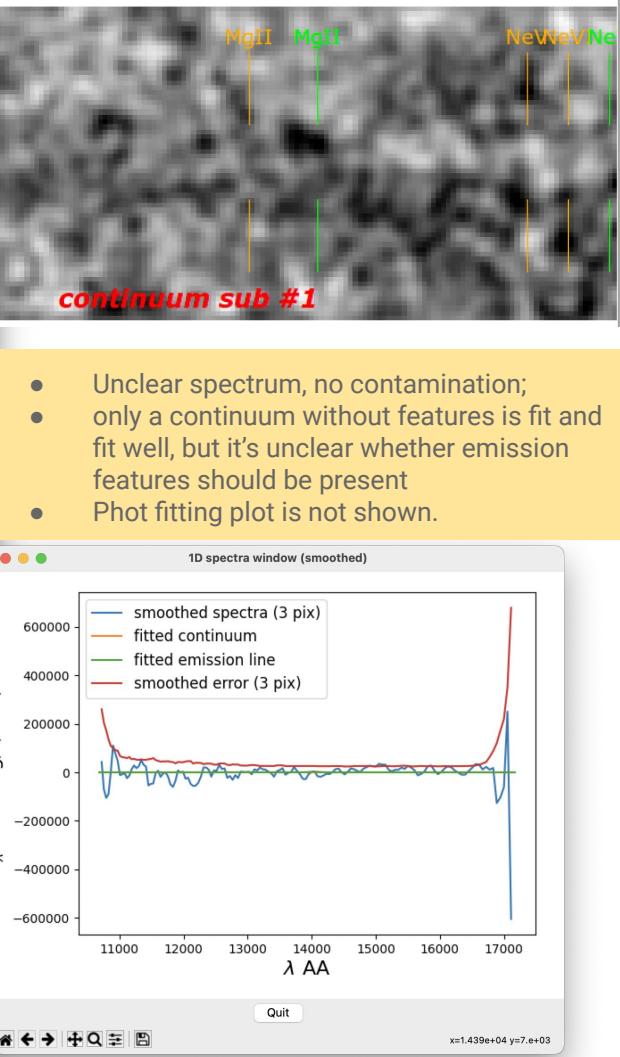
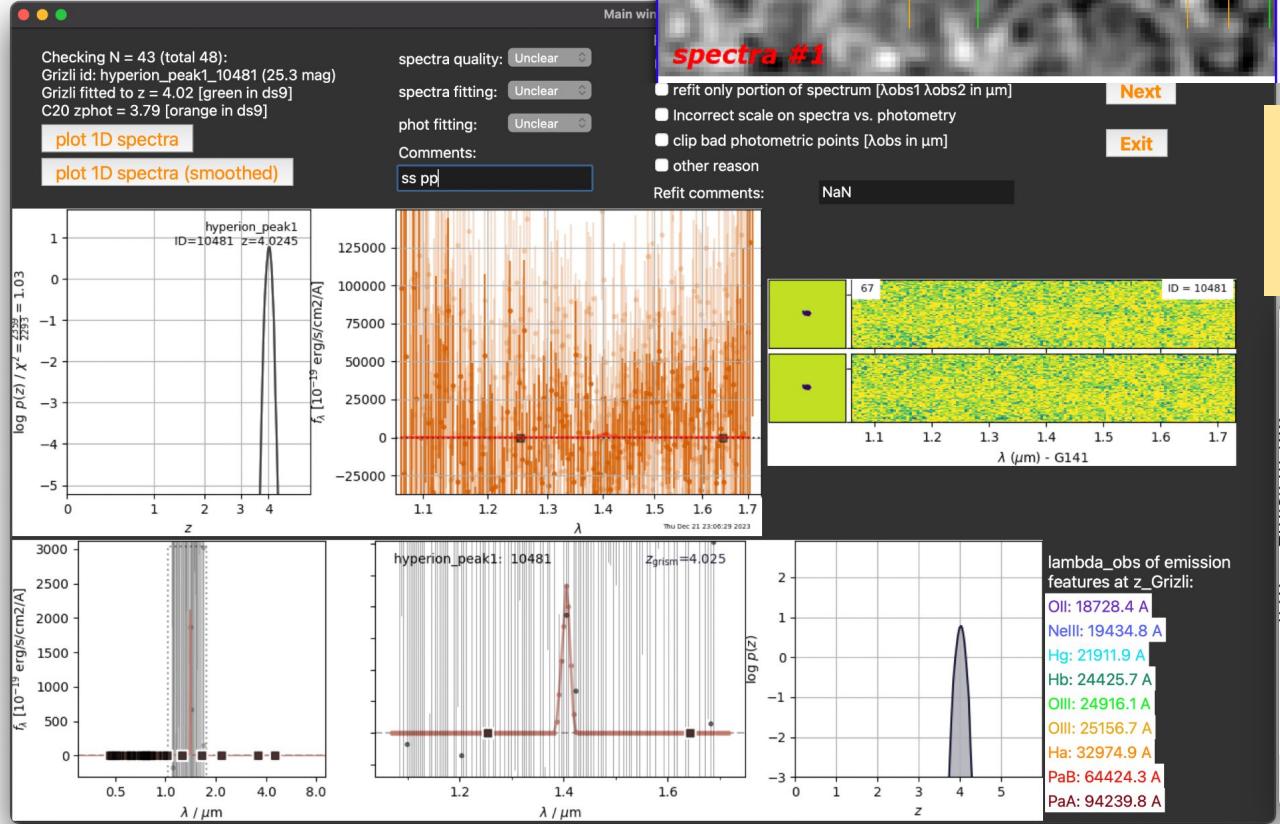


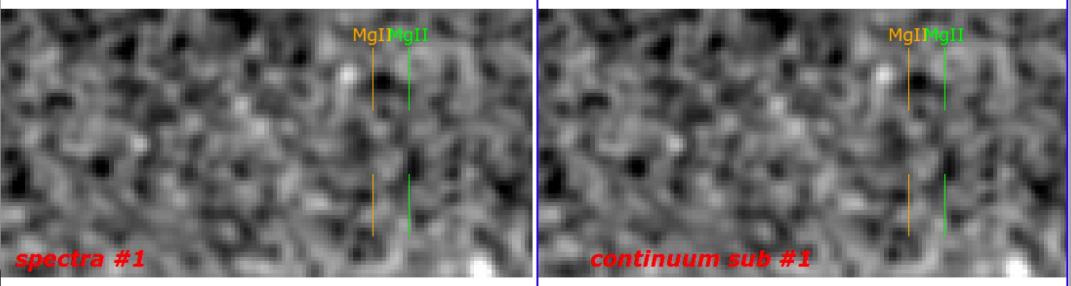
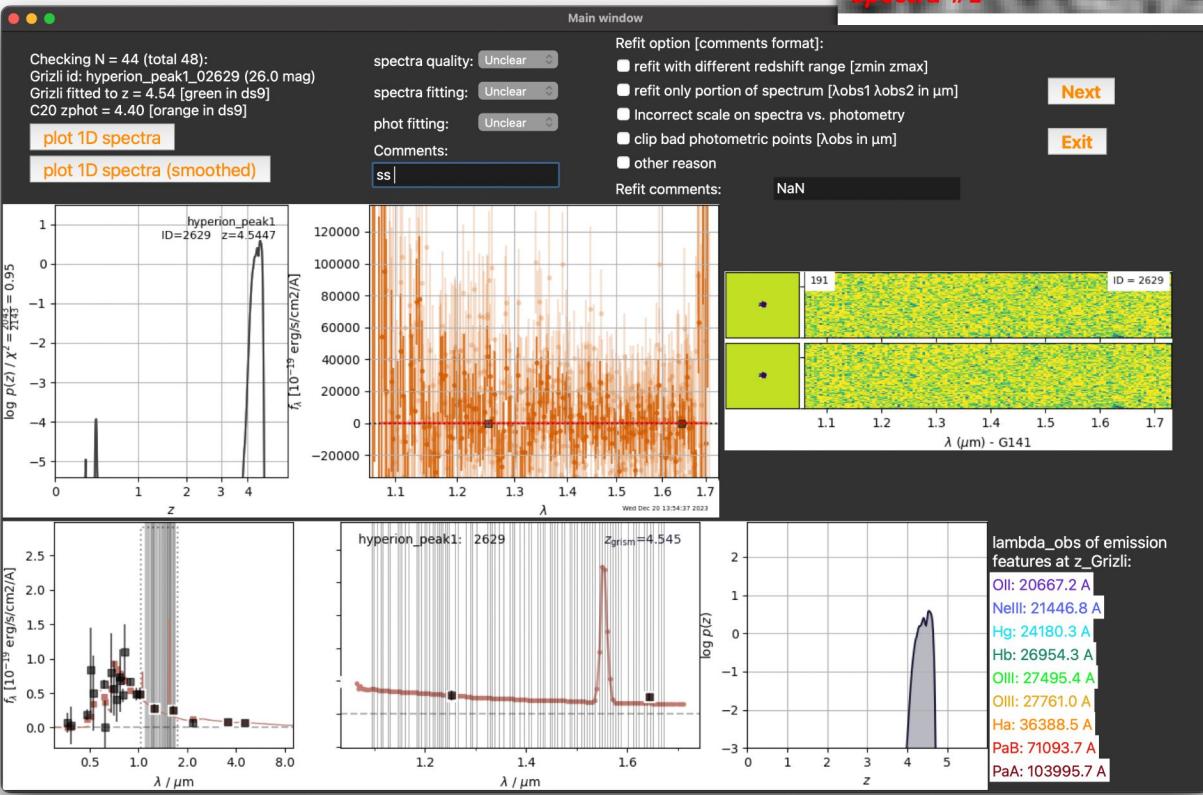


- Unclear spectrum, no contamination;
- only a continuum without features is fit, unclear whether emission features should be present; Spectra same between spectra and continuum subtracted

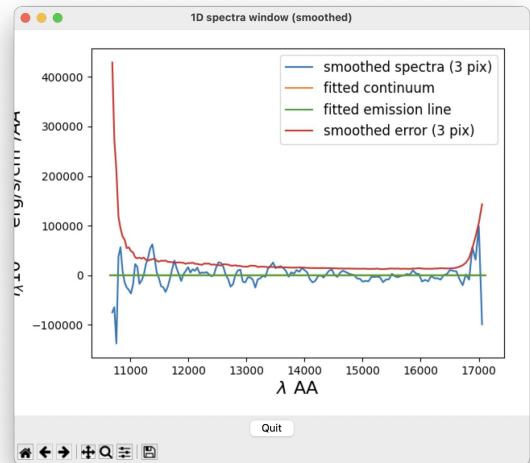


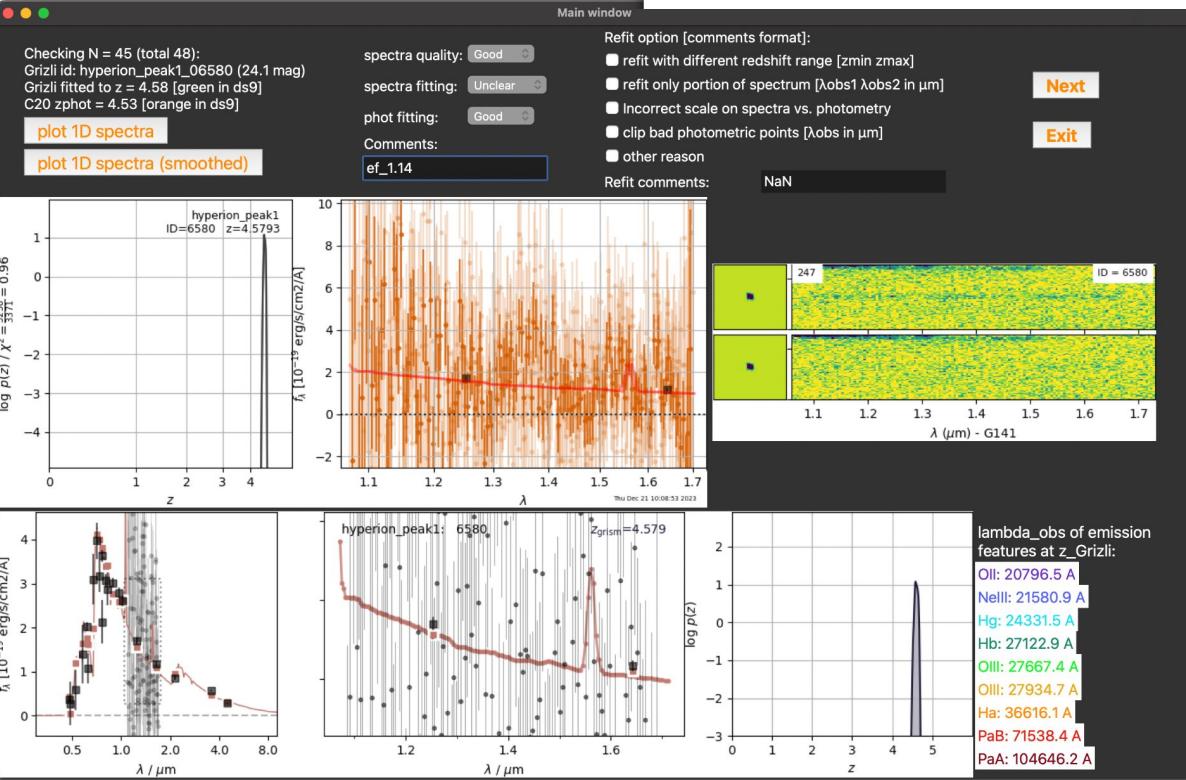
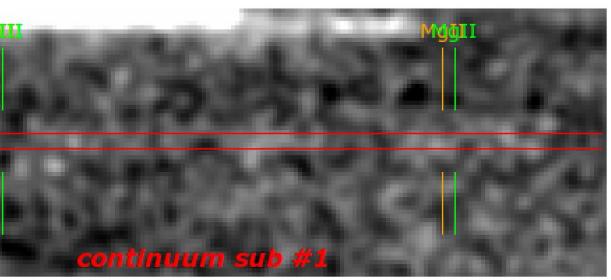
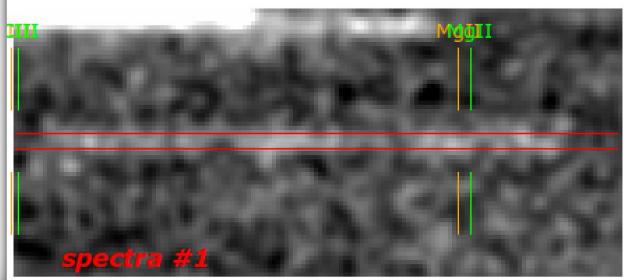




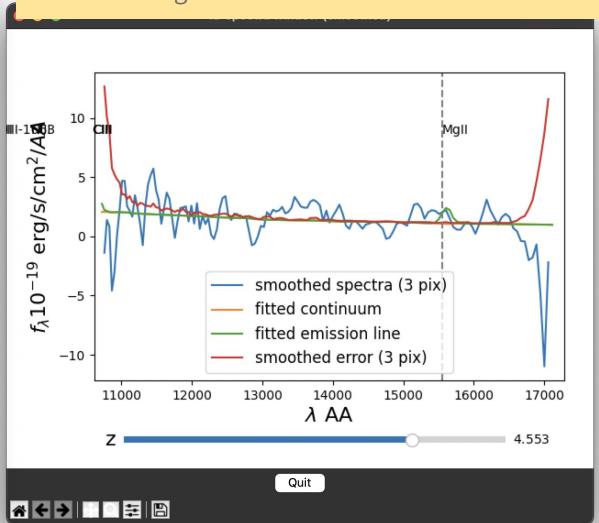


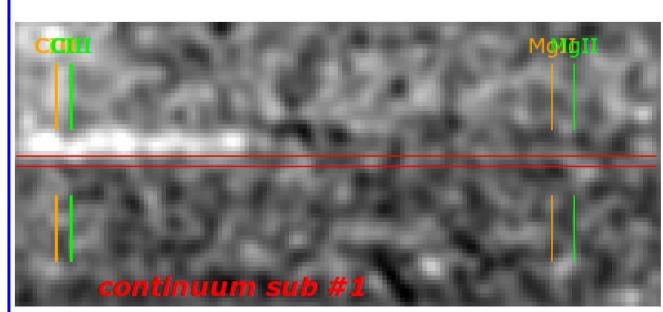
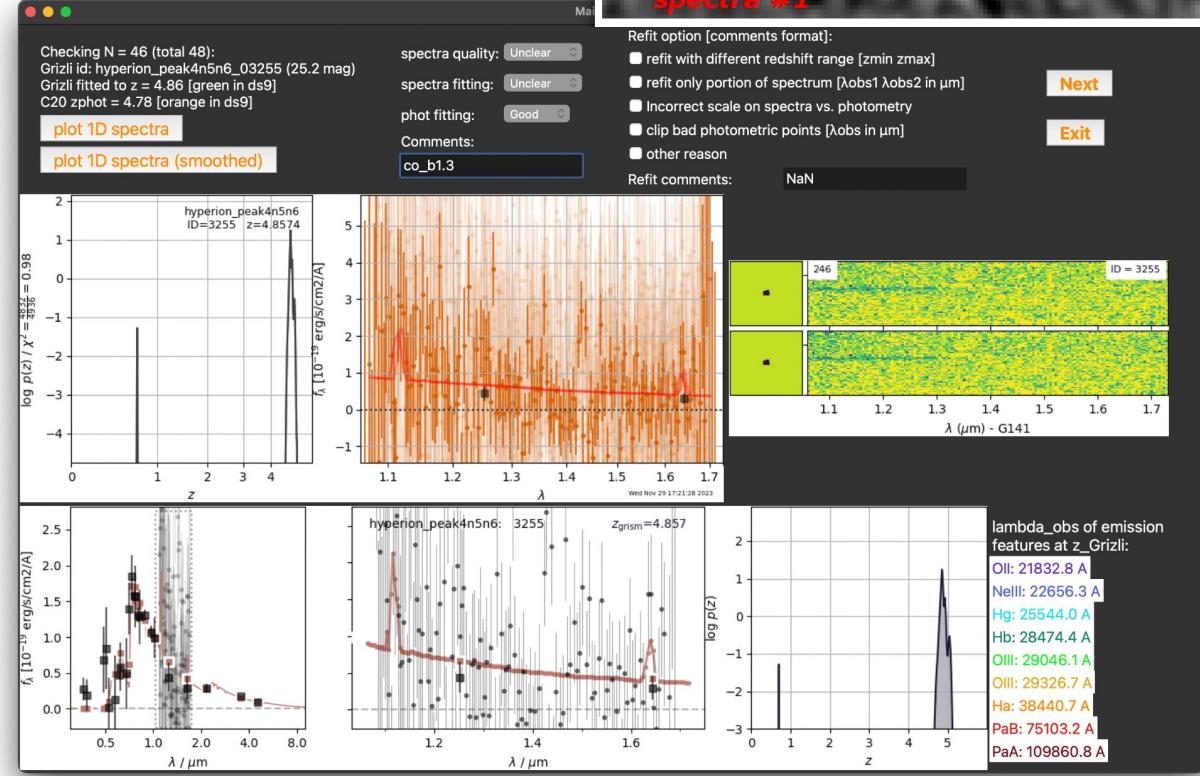
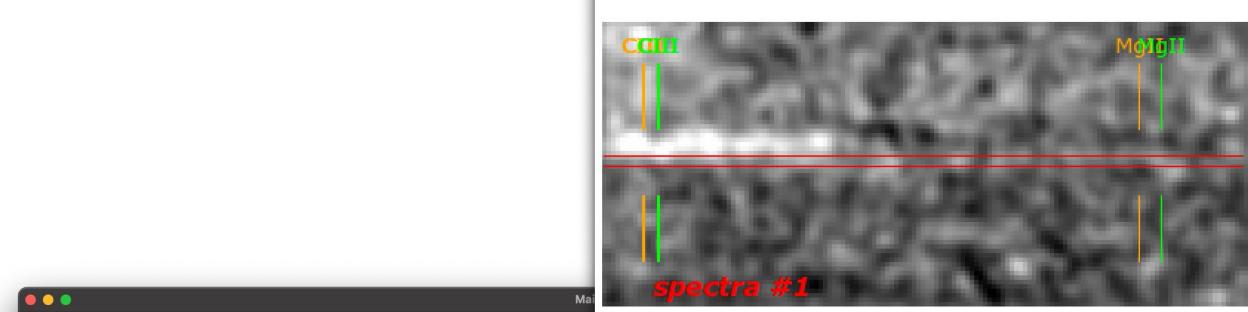
- No contamination, neither continuum nor emission lines are shown.
- Very noisy spectra.
- Phot fitting has large scatter.



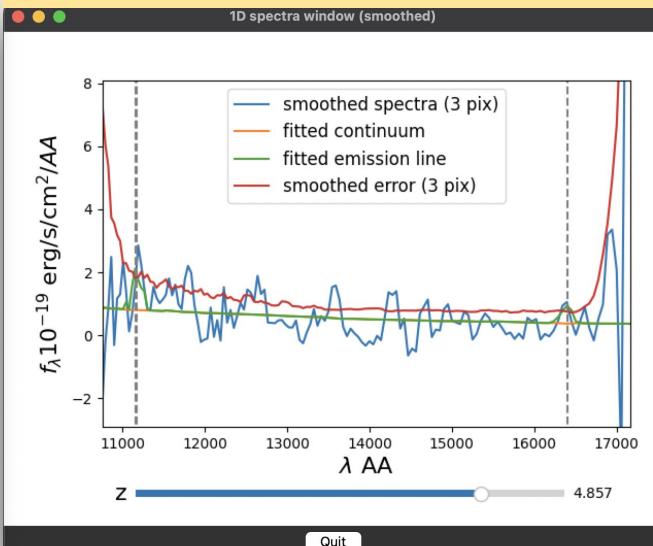


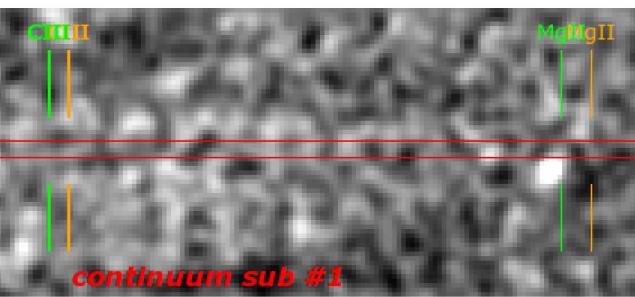
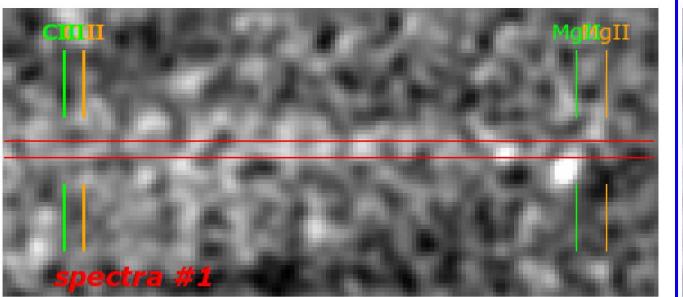
- Clear continuum, possible emission line at 1.14μm
- Continuum fitted, no strong emission is expected with this redshift solution.
- Phot fitting general fitted but has large scatter.





- Very faint continuum, lower than its error, no obvious lines. Contamination out of spectra window.
- spectra continuum fitting good, but no strong line fitted.
- Phot fitting looks good





Checking N = 47 (total 48):
Grizli id: hyperion_peak1_10011 (24.5 mag)
Grizli fitted to $z = 4.88$ [green in ds9]
C20 zphot = 4.99 [orange in ds9]

spectra quality: Unclear

spectra fitting: Unclear

phot fitting: Good

Comments:

NaN

■ refit with different redshift range [zmin zmax]

■ refit only portion of spectrum [$\lambda_{\text{obs}1}$ $\lambda_{\text{obs}2}$ in μm]

■ Incorrect scale on spectra vs. photometry

clip bad photometric points [λ_{obs} in μm]

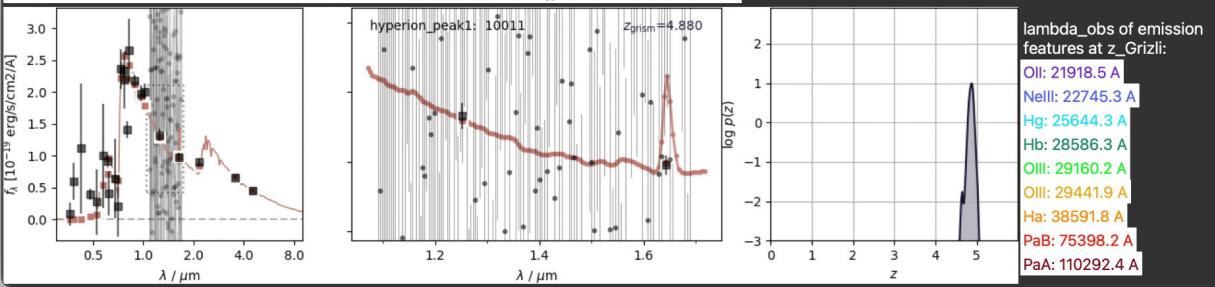
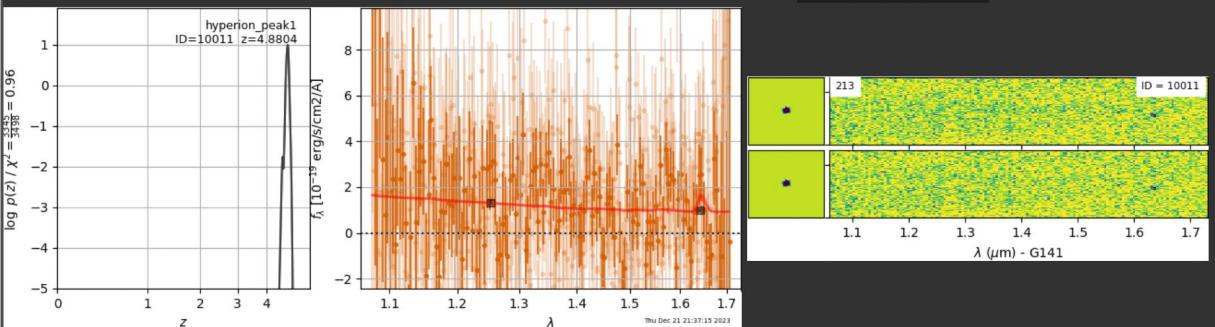
► Other reason:

Next

Exit

plot 1D spectra

plot 1D spectra (smoothed)



- No continuum present.
Possible signal at 1.57um,
but not sure if it real,
slightly offset.
 - Continuum is general fitted,
with large error bar, no
emission line is fitted.
 - Generally good phot fitting

