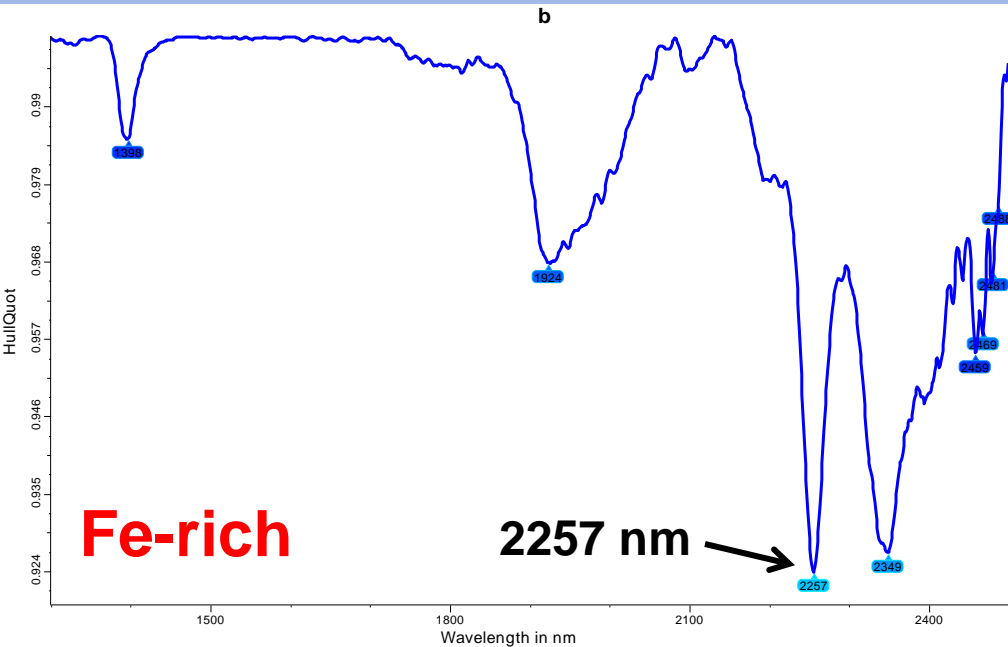
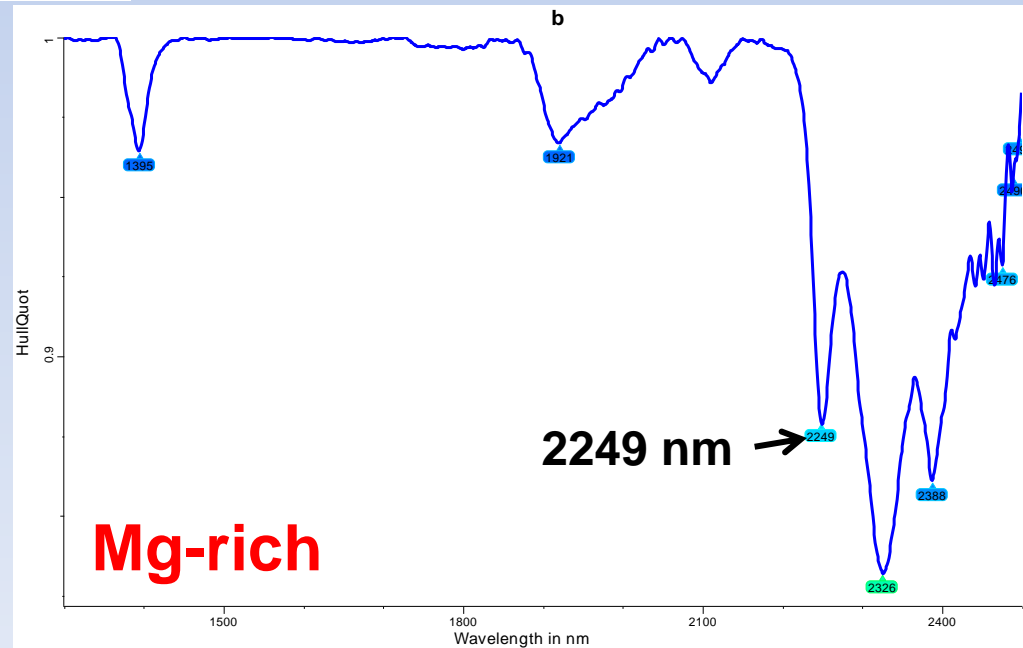


How to distinguish between Fe- and Mg rich biotite:



Longer 2250 nm feature wavelengths for **Fe-rich** biotites...

...and shorter for **Mg-rich** biotites. Mg-biotite also has an additional feature at ca 2390 nm.



Kaolinite crystallinity

Measure the size of the 2160nm doublet.

Poorly ordered Kaolinite

Well ordered
Kaolinite

2160 nm

