

File S3

Laser Ablation (LA-ICP-TOFMS) results

Using SXRF and LA-ICP-TOFMS to explore evidence of treatment and physiological responses to leprosy in medieval Denmark

Biology

Anastasia Brozou, Marcello A. Mannino, Stijn J.M. Van Malderen, Jan Garrevoet, Eric Pubert, Benjamin T. Fuller, M. Christopher Dean, Thomas Colard, Frédéric Santos, Niels Lynnerup, Jesper L. Boldsen, Marie Louise Jørkov, Andrei Dorian Soficaru, Laszlo Vincze, Adeline Le Cabec

Corresponding author:

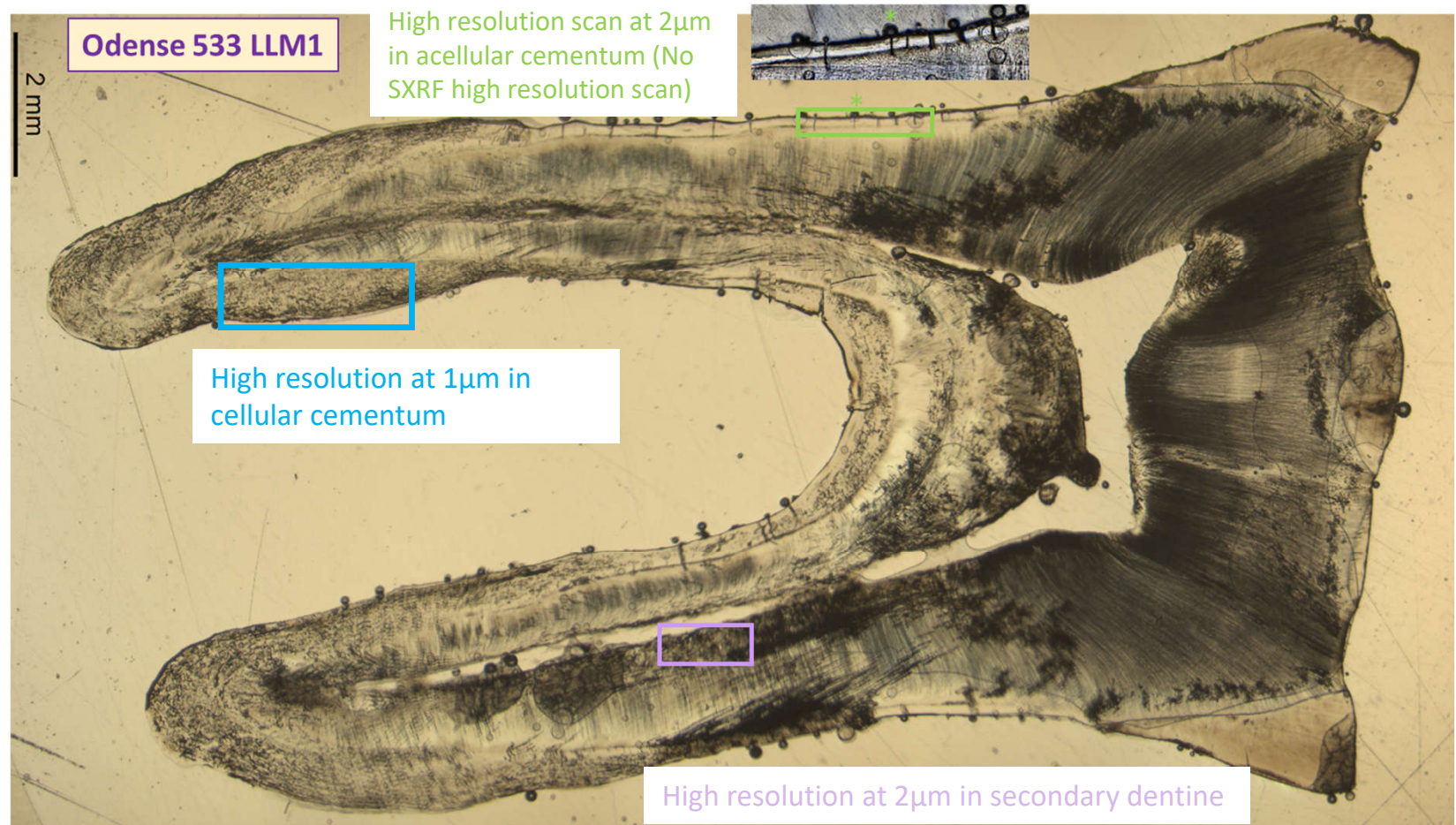
Adeline Le Cabec

E-mail: adeline.le-cabec@u-bordeaux.fr

Teeth with the best SXRF signal in cellular cementum.

Odense 533 LLM1:

The cellular cementum and the secondary dentine are also imaged with SXRF. The acellular cementum is scanned here for comparison.

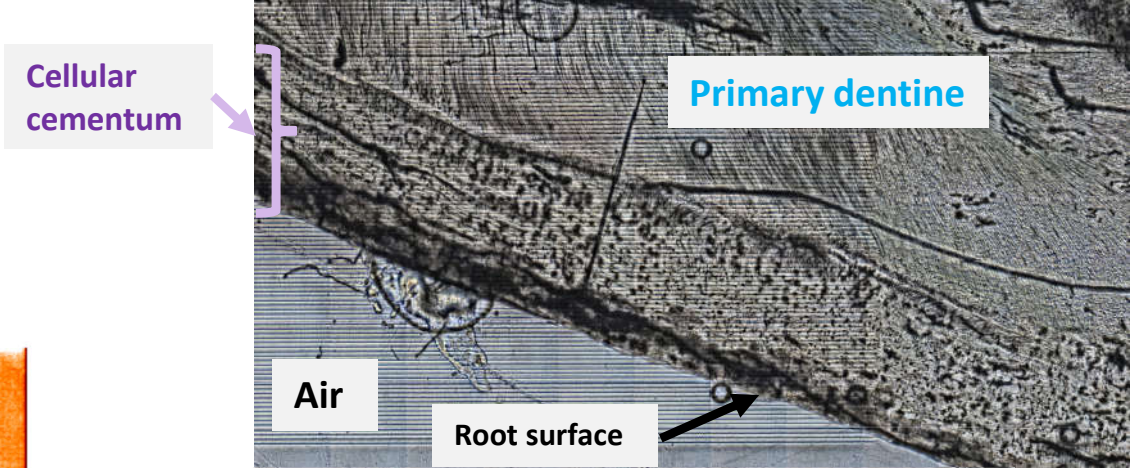
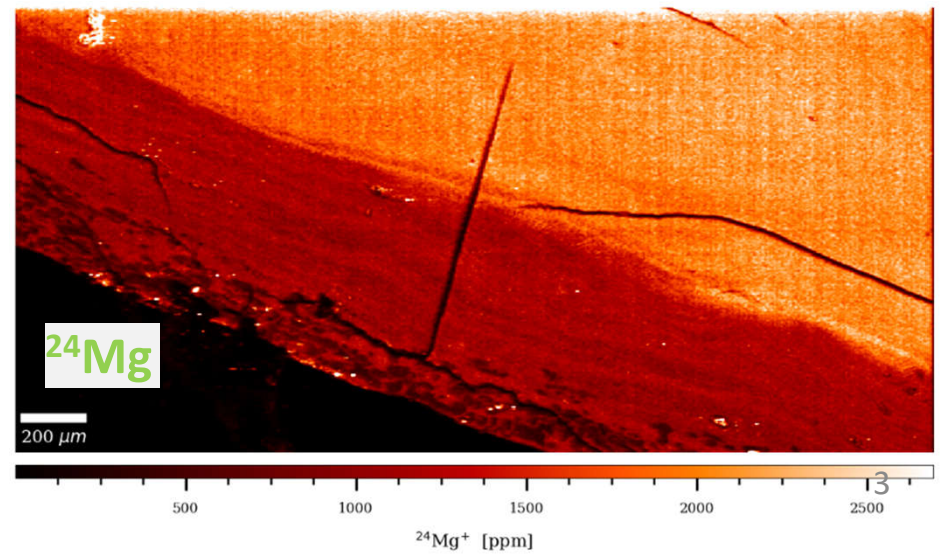
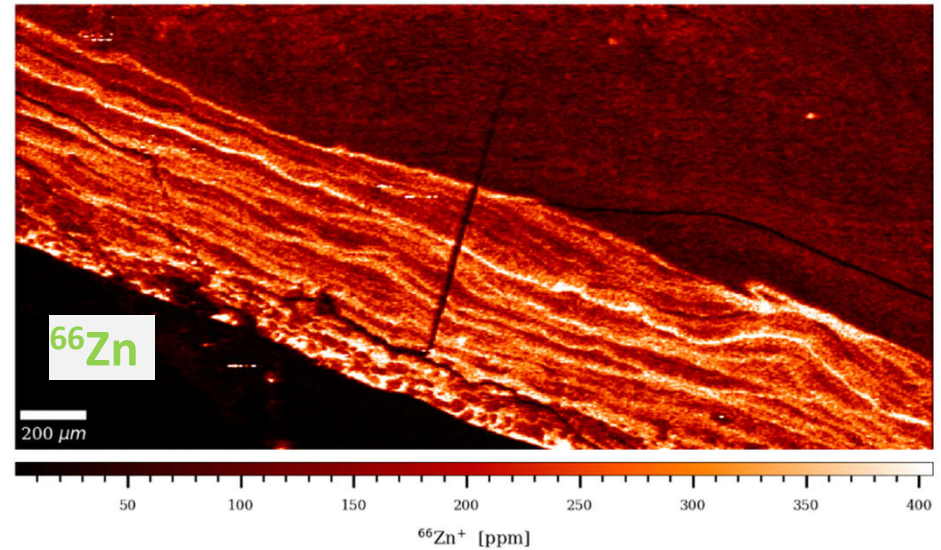
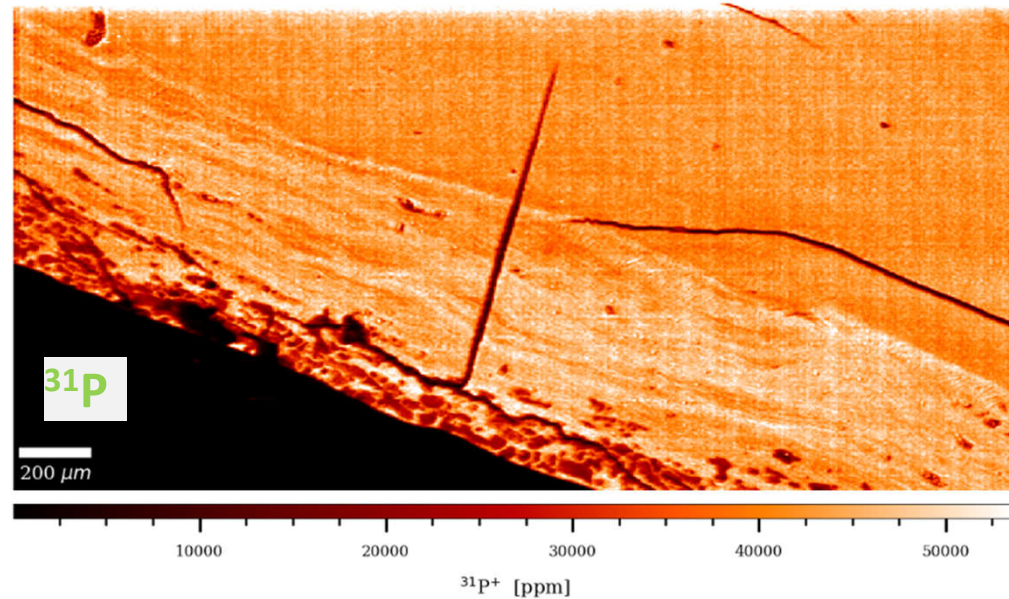
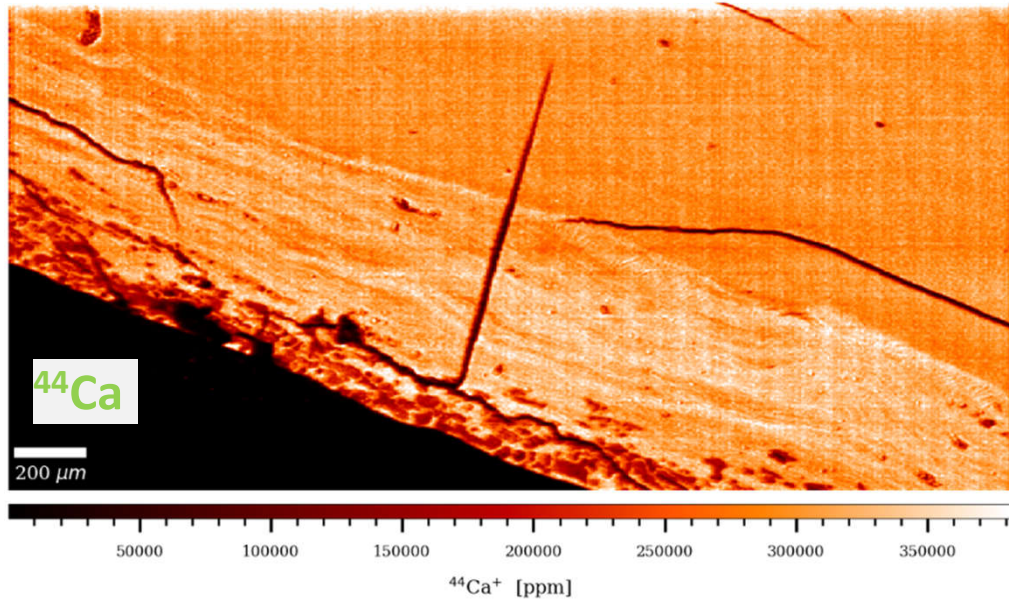


Næstved 211 URC



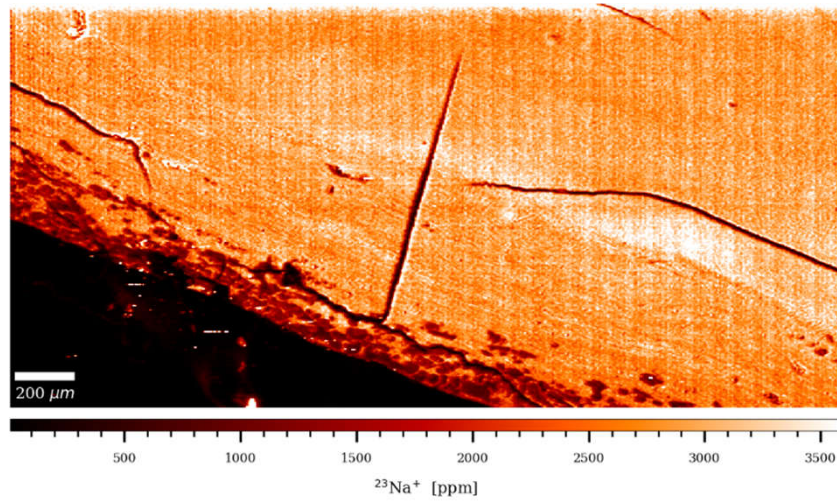
Naestved 211 URC – Cellular Cementum

Gauss 0.8 x 0.8

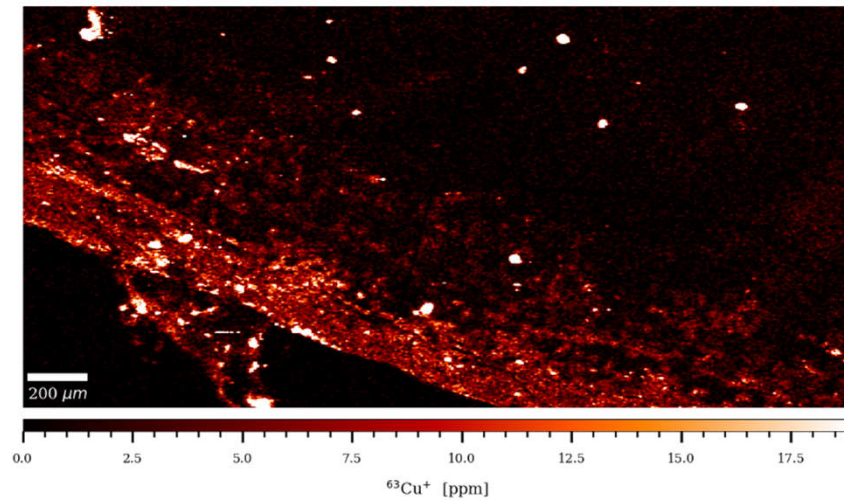


Næstved 211C – Cellular Cementum

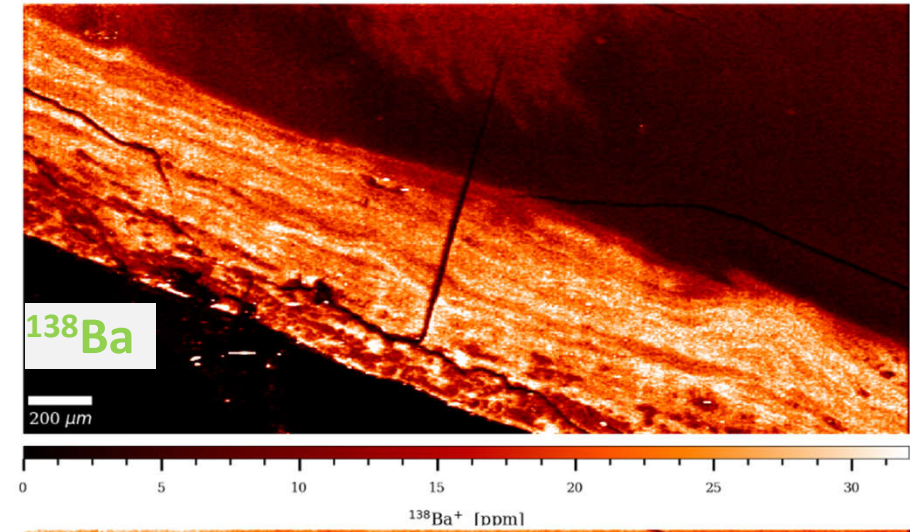
^{23}Na



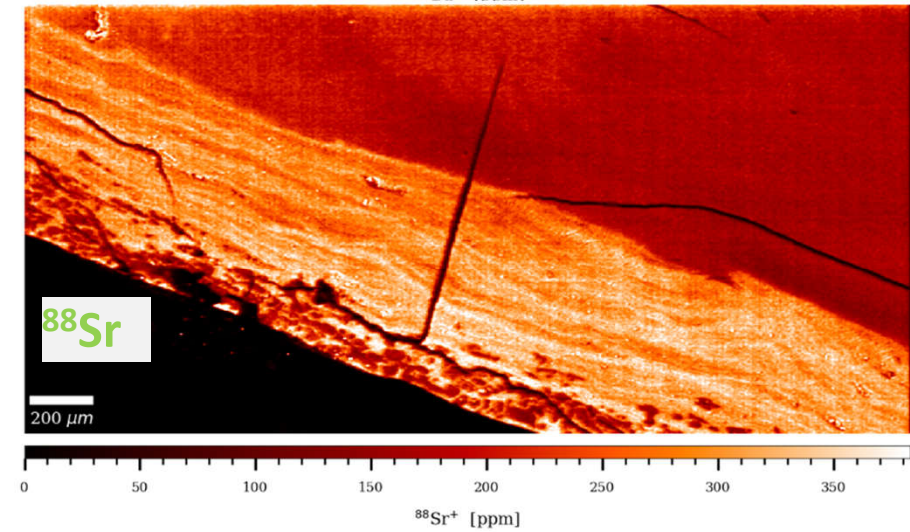
^{63}Cu



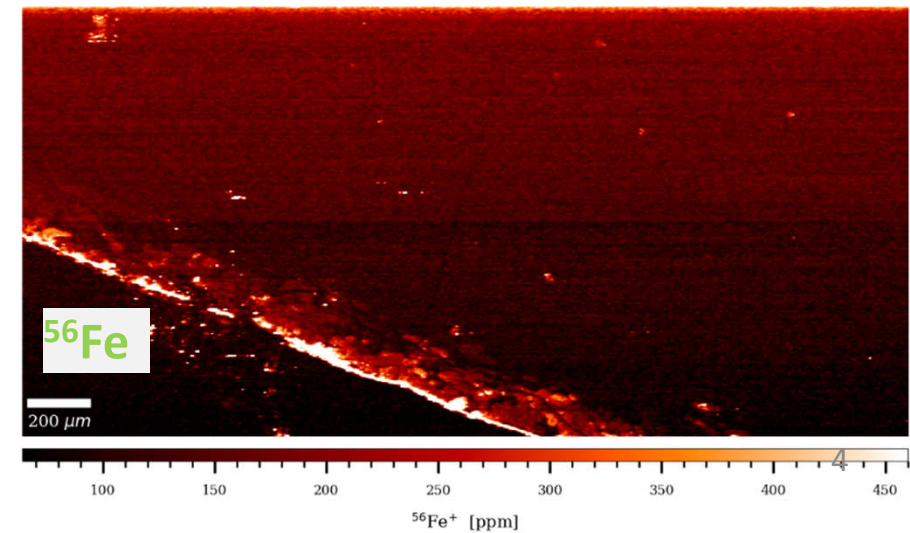
^{138}Ba



^{88}Sr

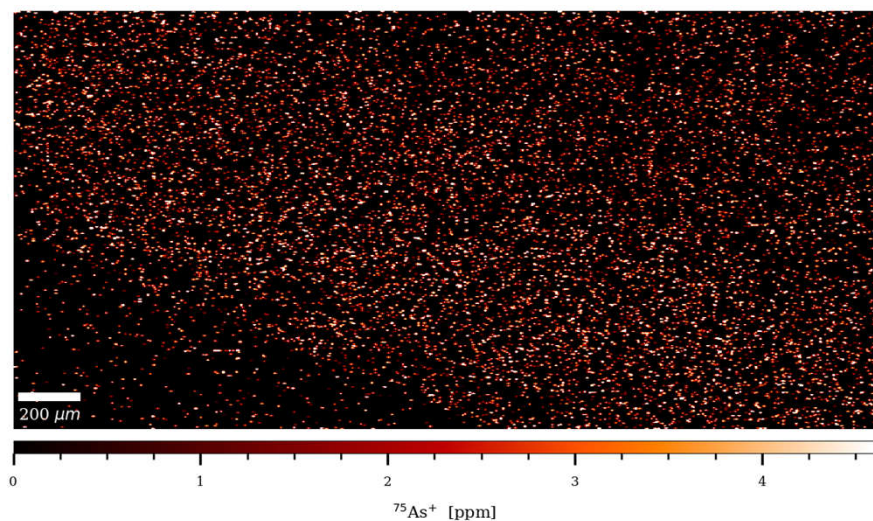


^{56}Fe

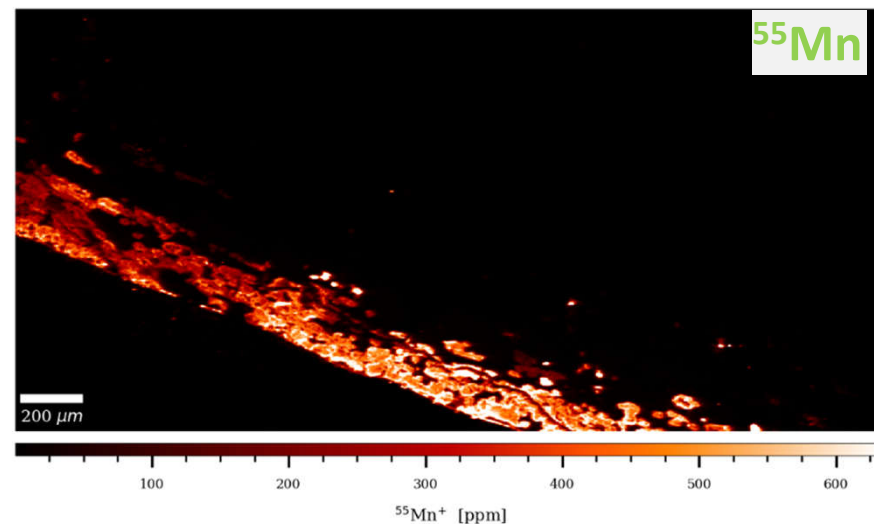


Næstved 211C – Cellular Cementum

^{75}As

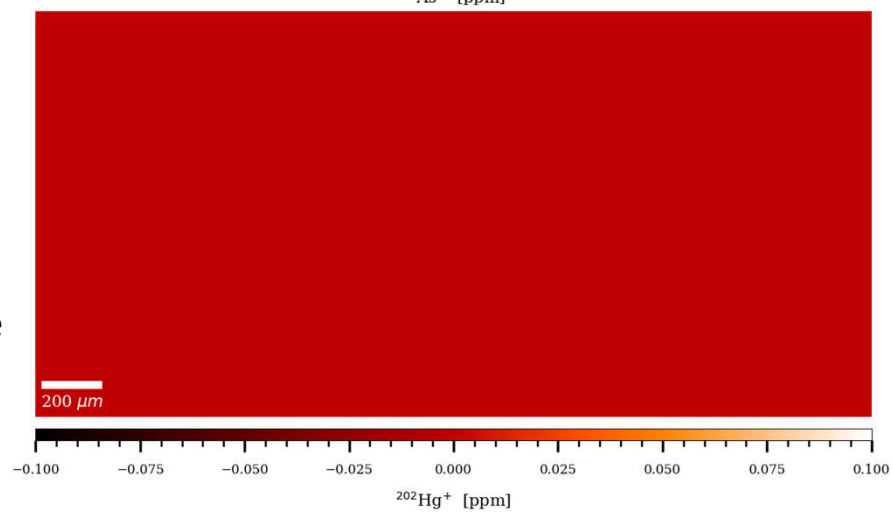


^{55}Mn

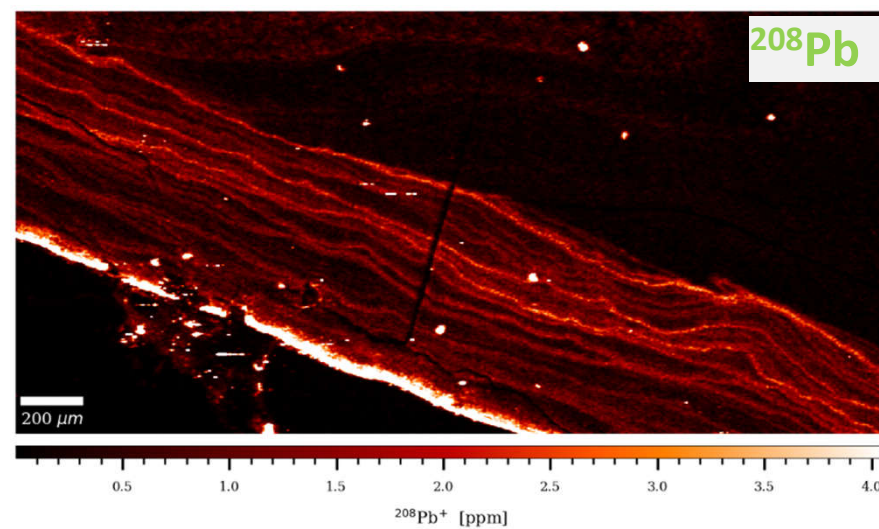


^{202}Hg

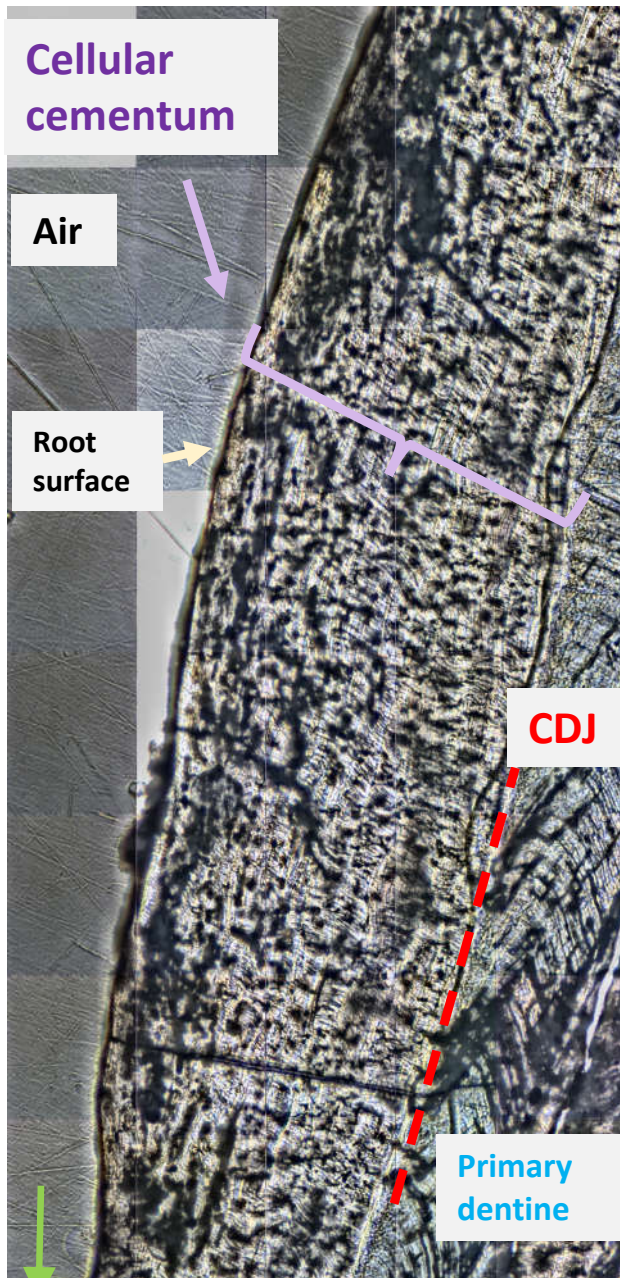
No detectable
mercury



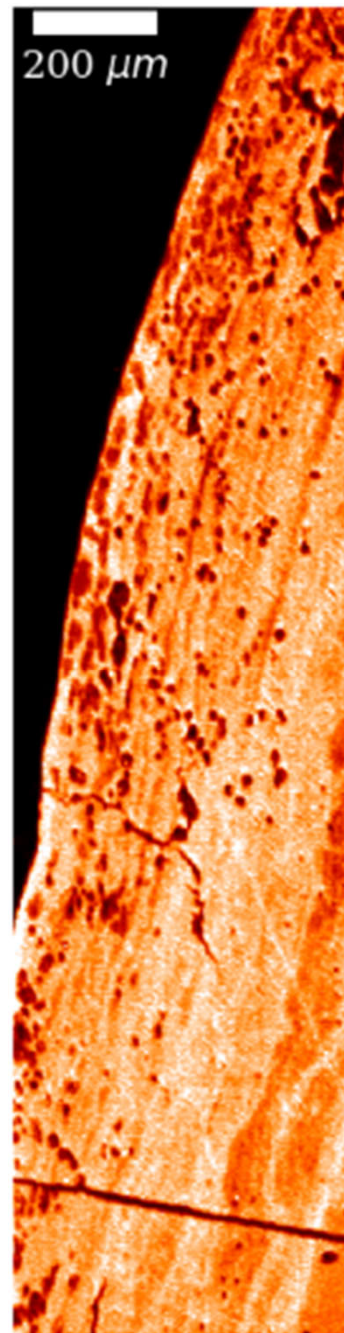
^{208}Pb



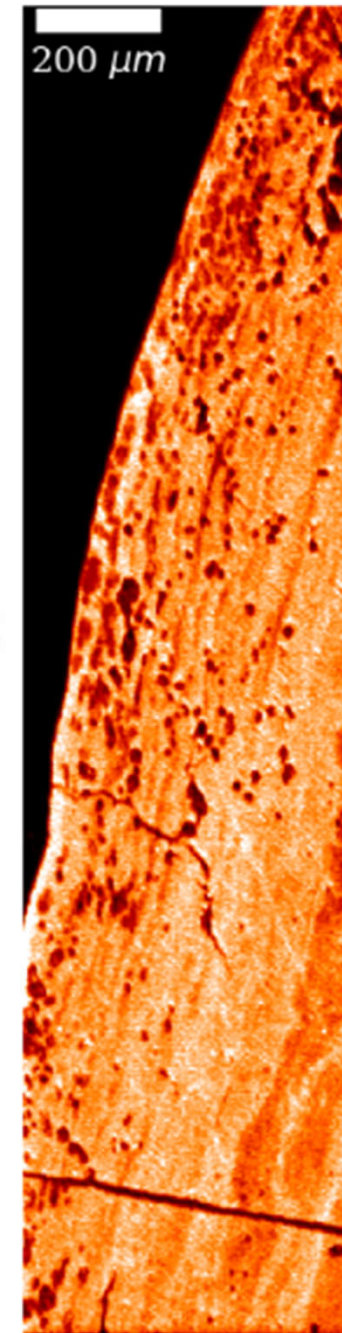
Odense 533 LLM1 – Cellular Cementum



⁴⁴Ca



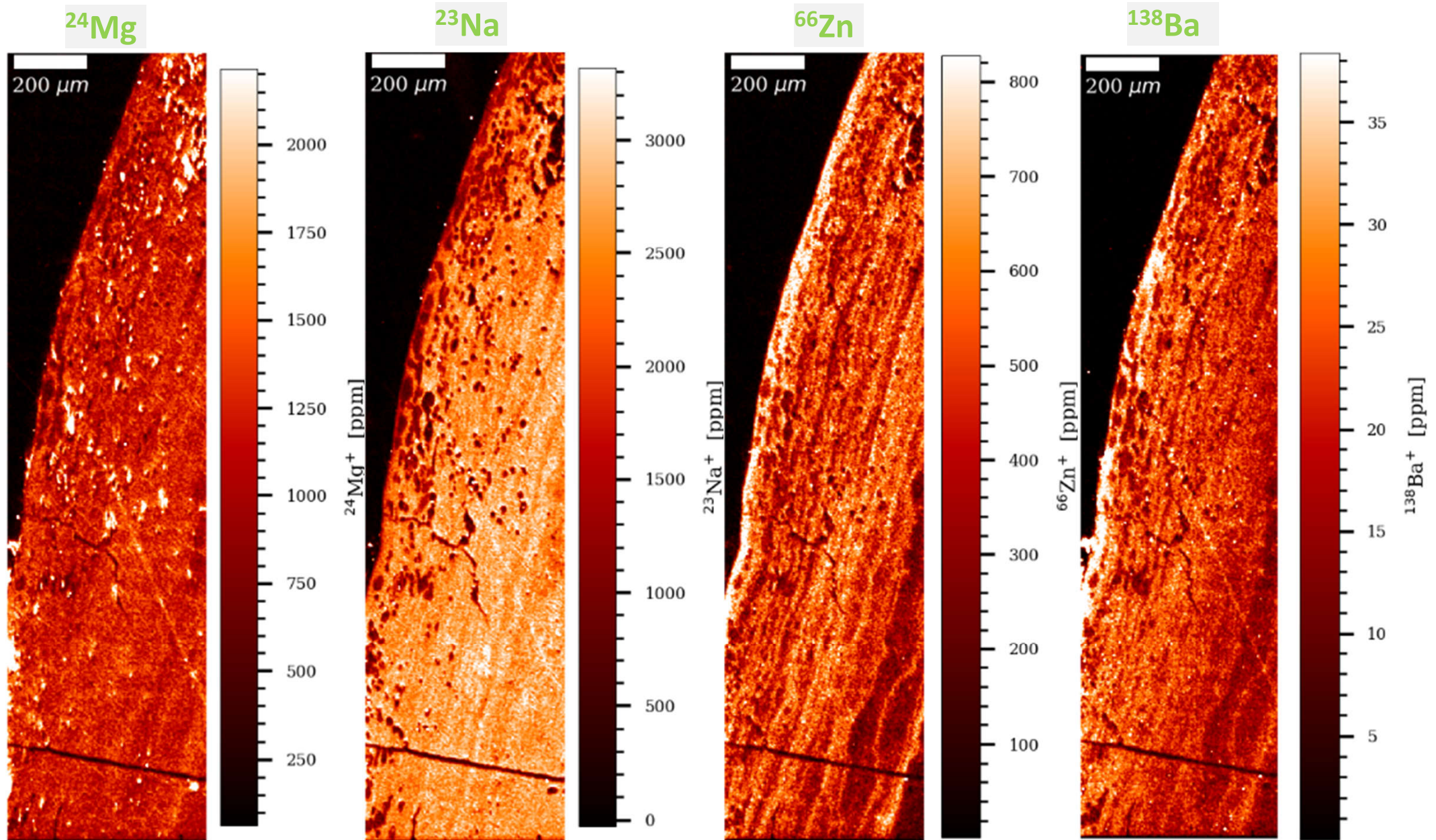
³¹P



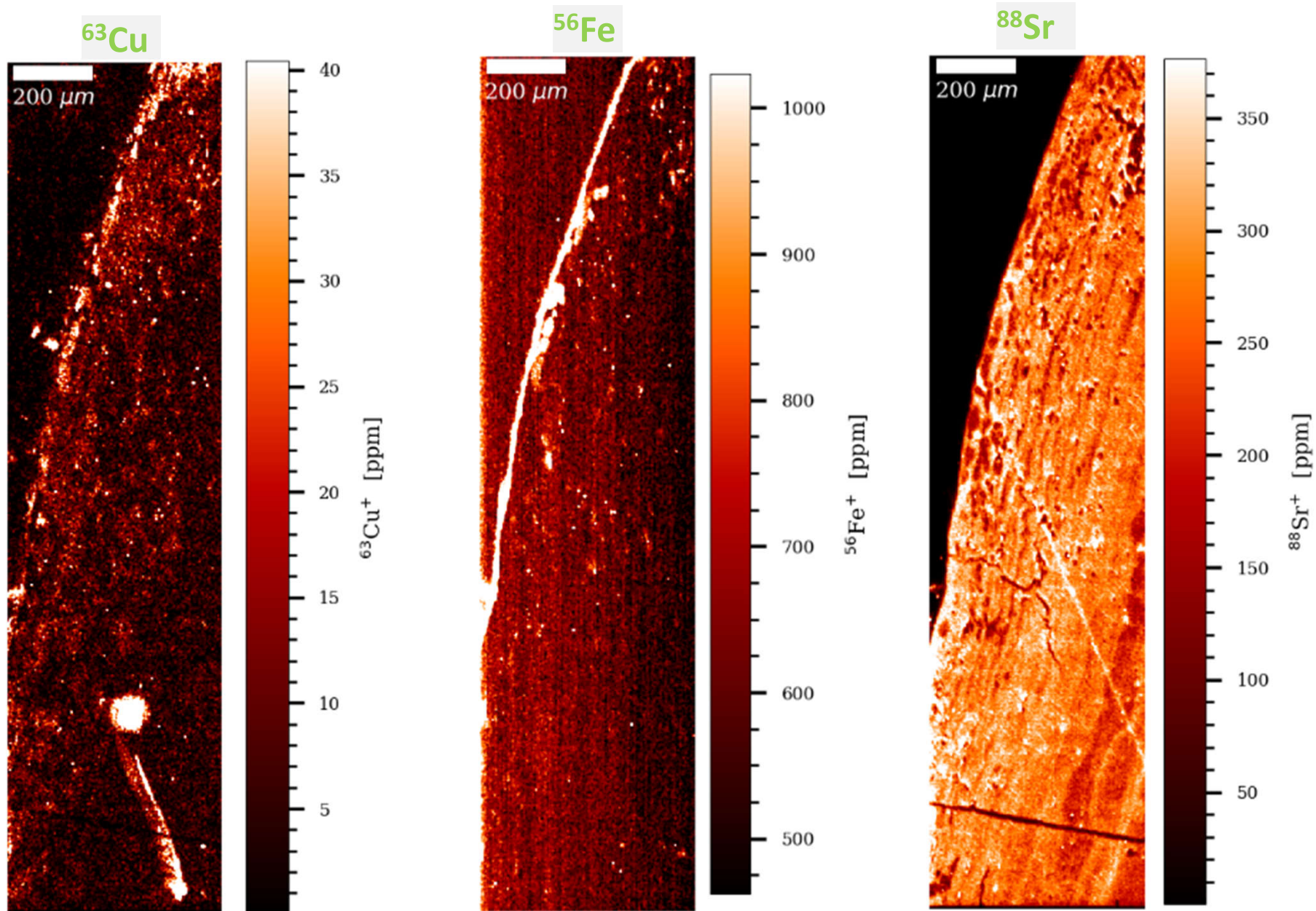
Towards root apex

Gauss 0.9 x 0.9

Odense 533M – Cellular Cementum

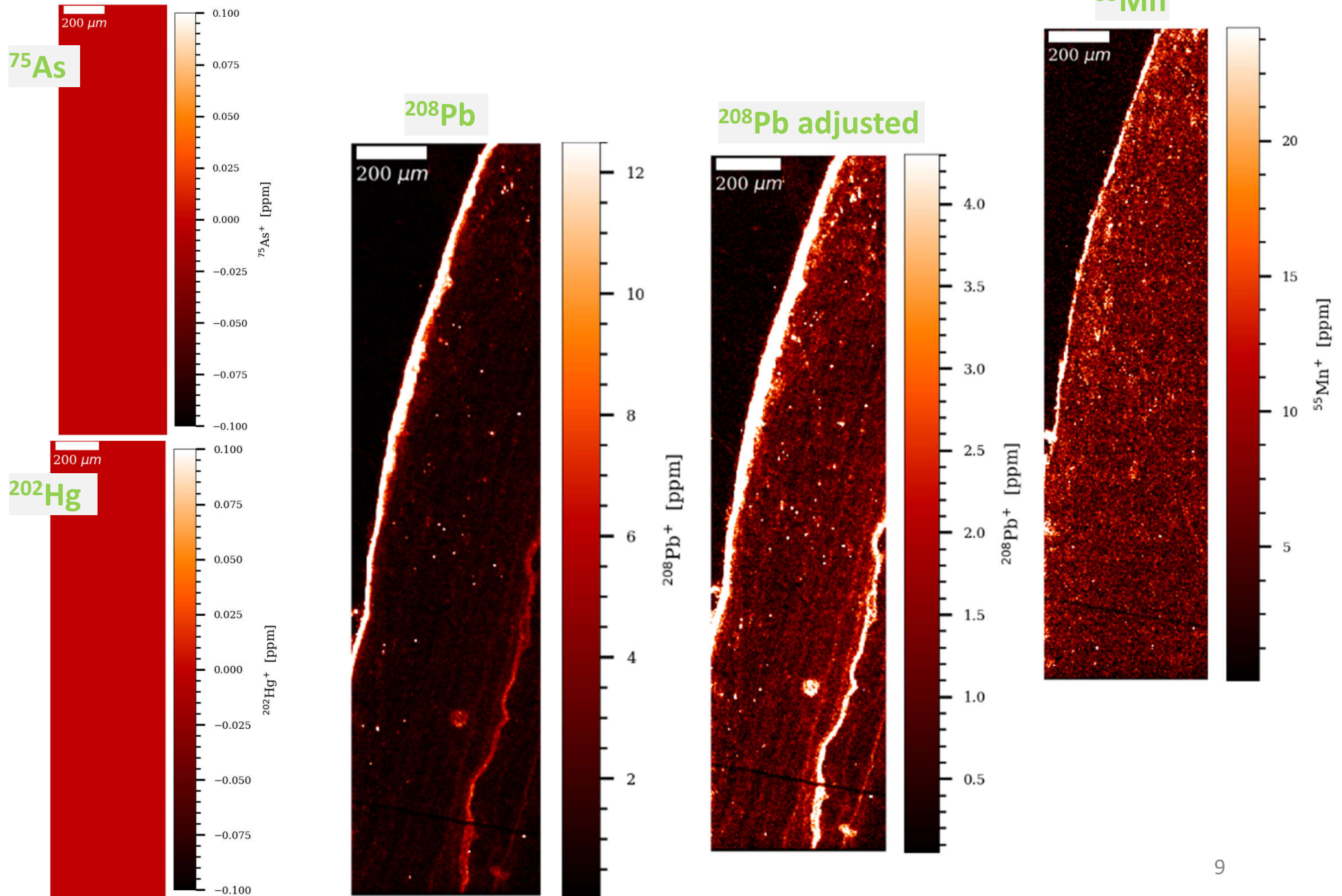


Odense 533M – Cellular Cementum



Odense 533M – Cellular Cementum

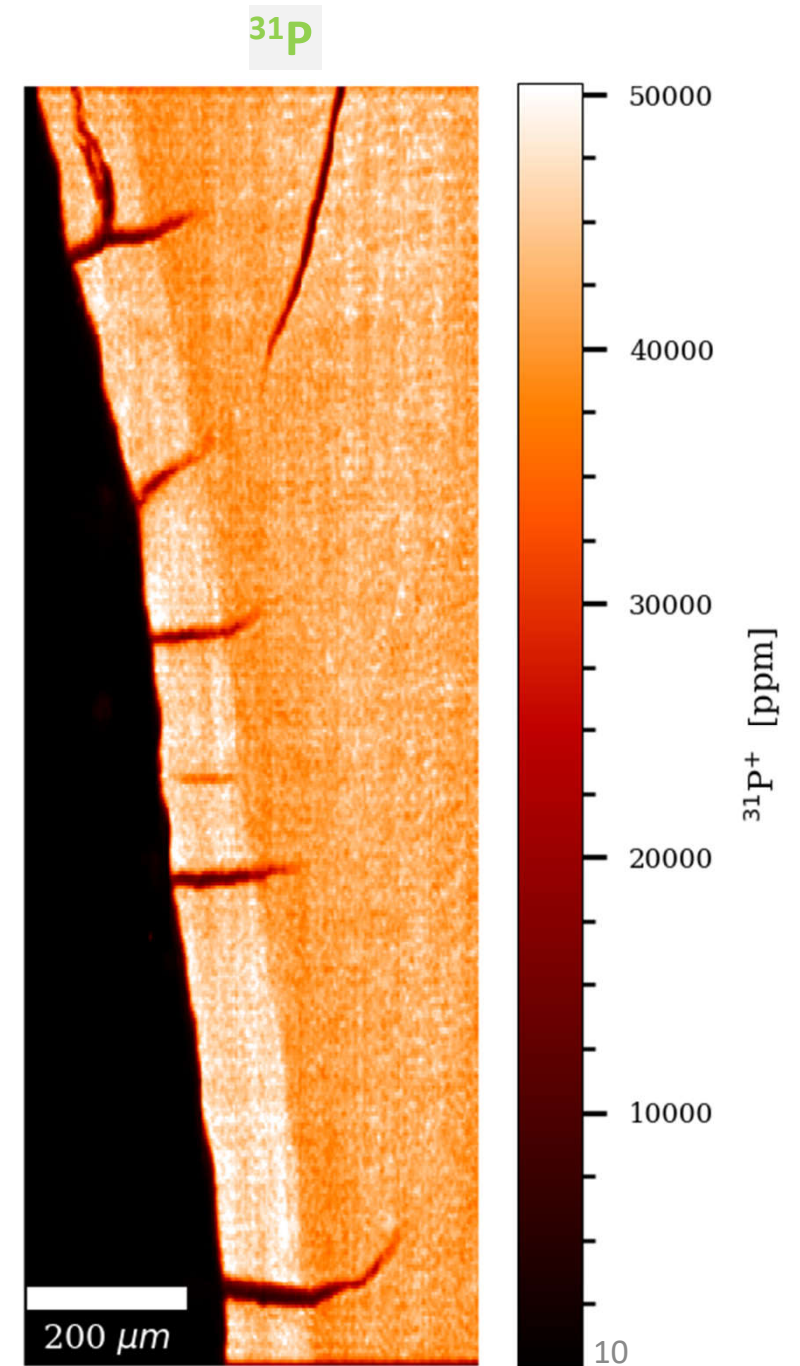
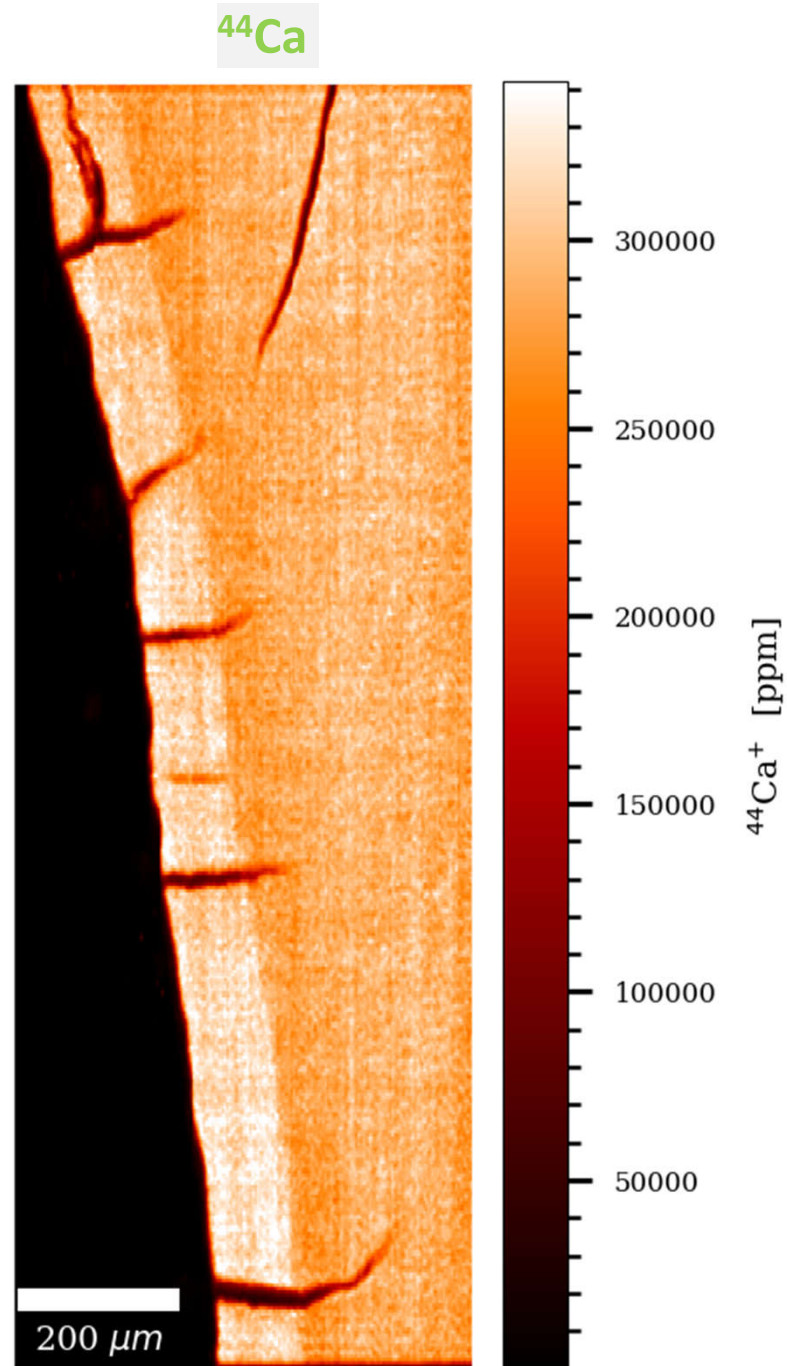
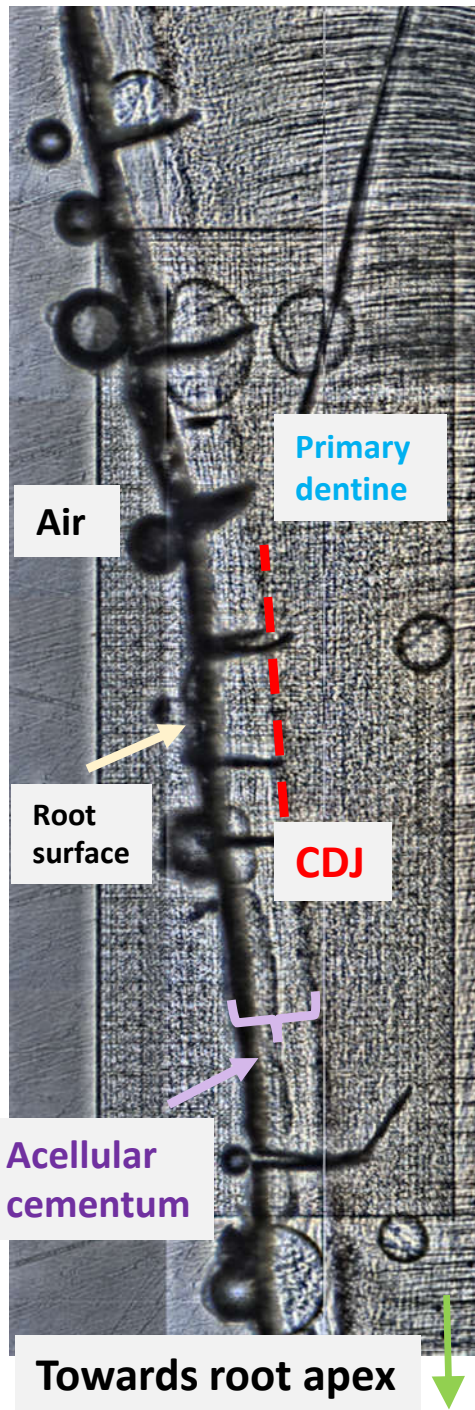
No detectable mercury or arsenic



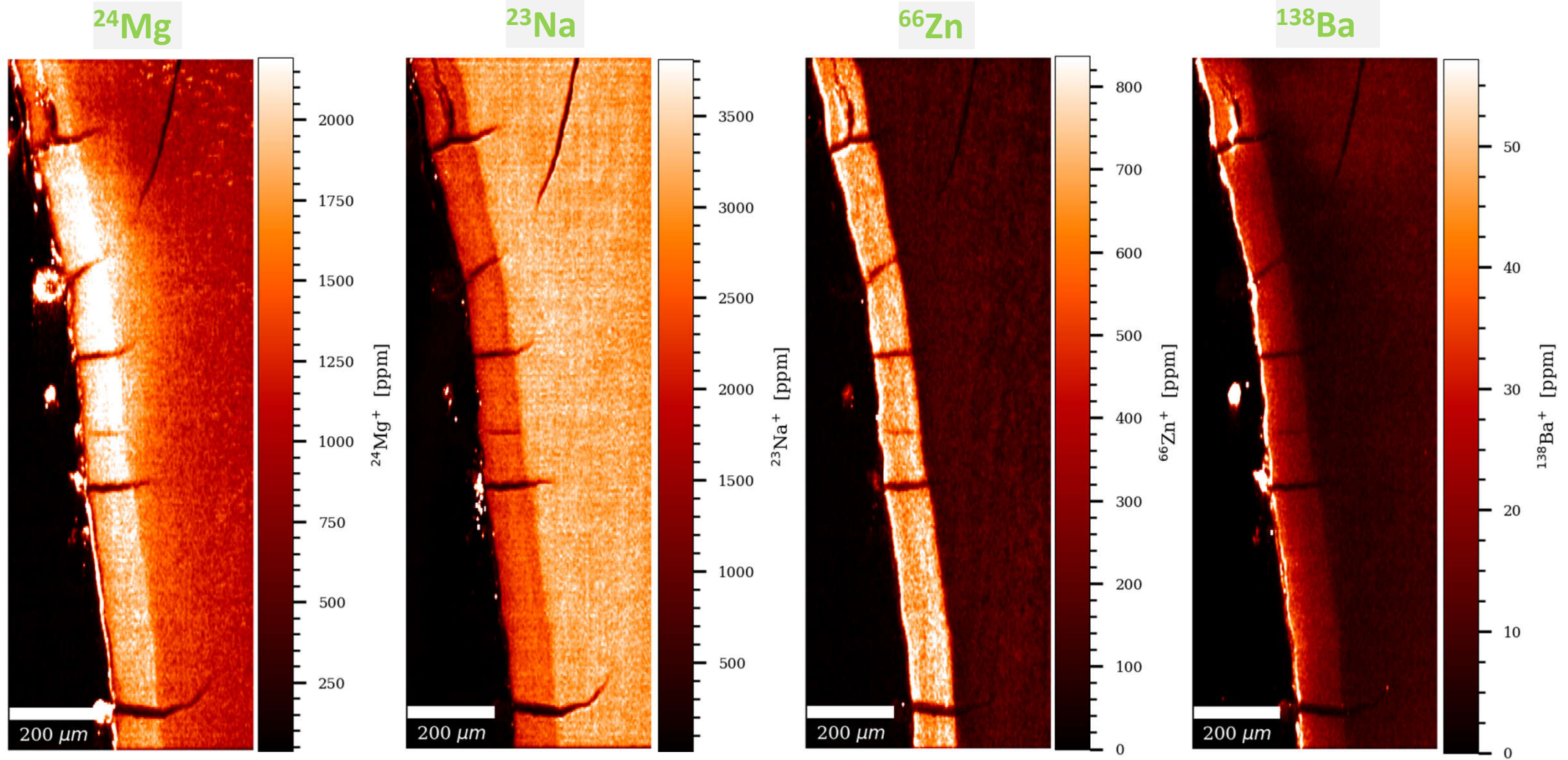
Odense 533 LLM1 –

Gauss 0.8 x 0.8

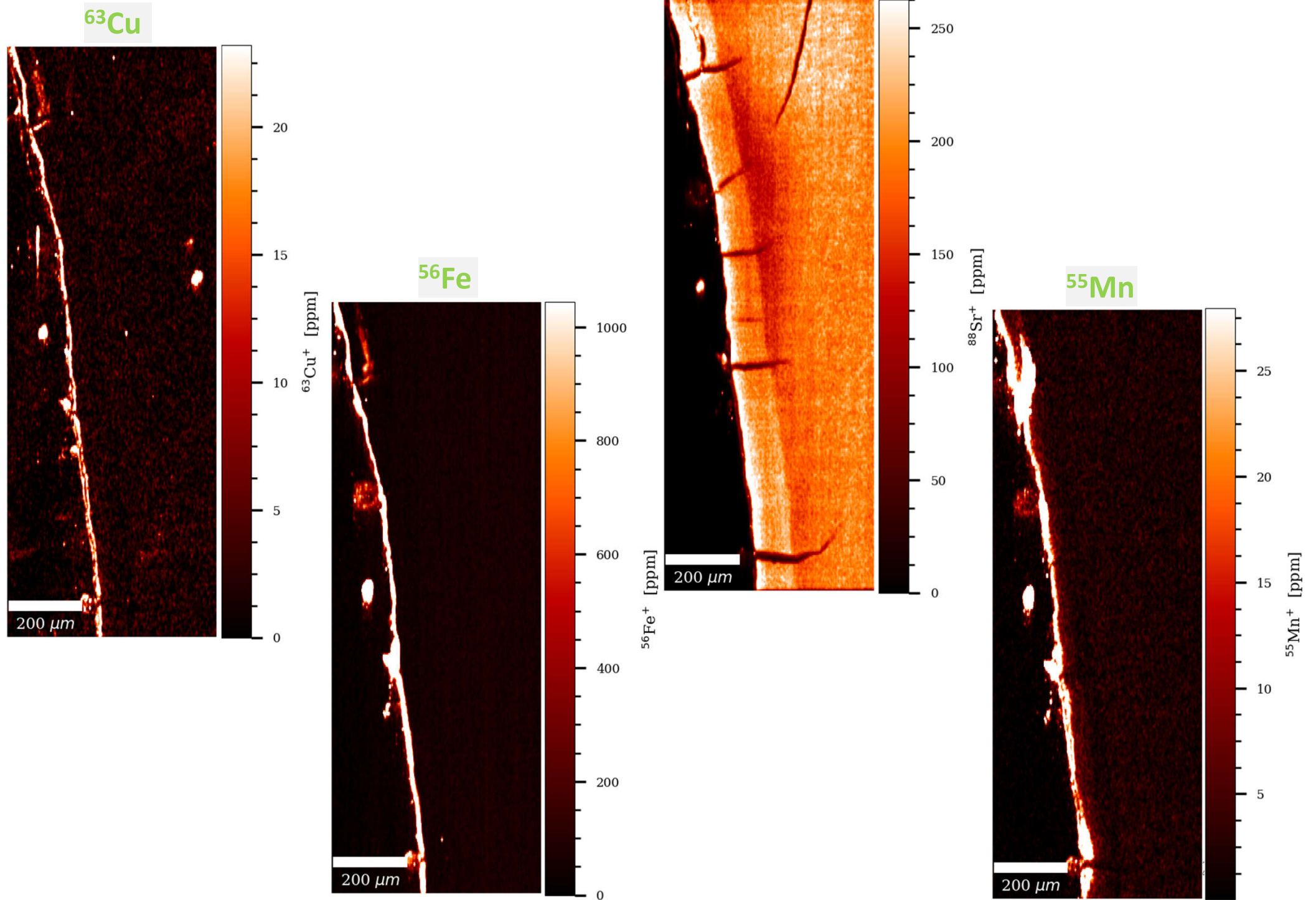
Acellular Cementum



Odense 533M – Acellular Cementum

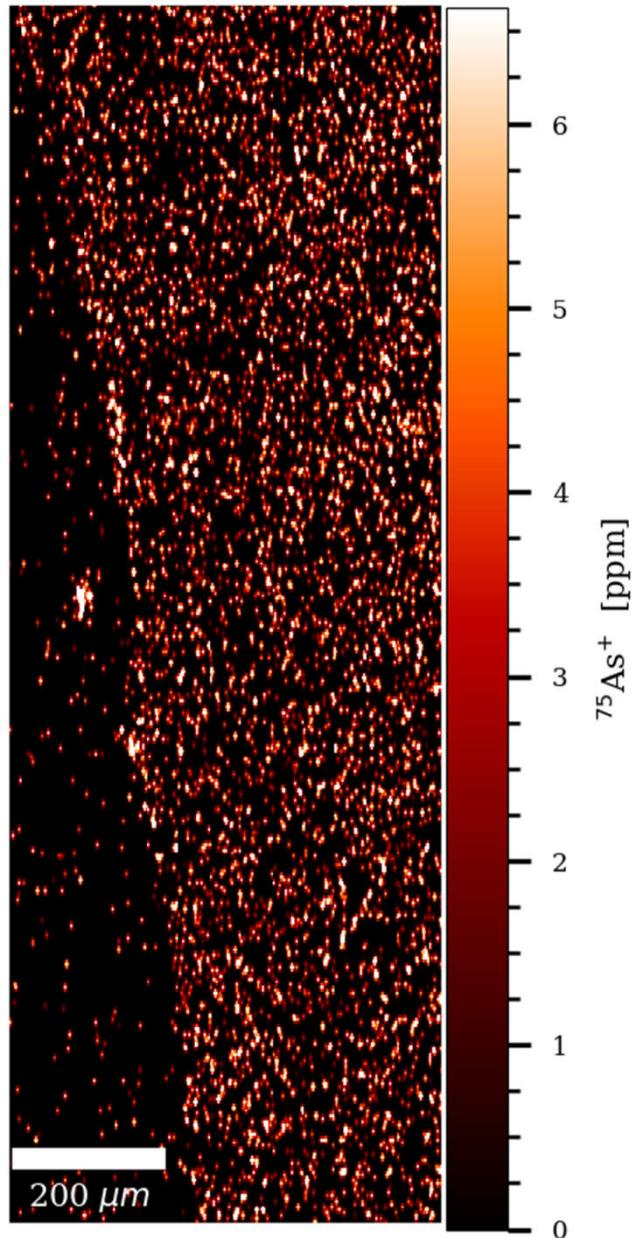


Odense 533M – Acellular Cementum

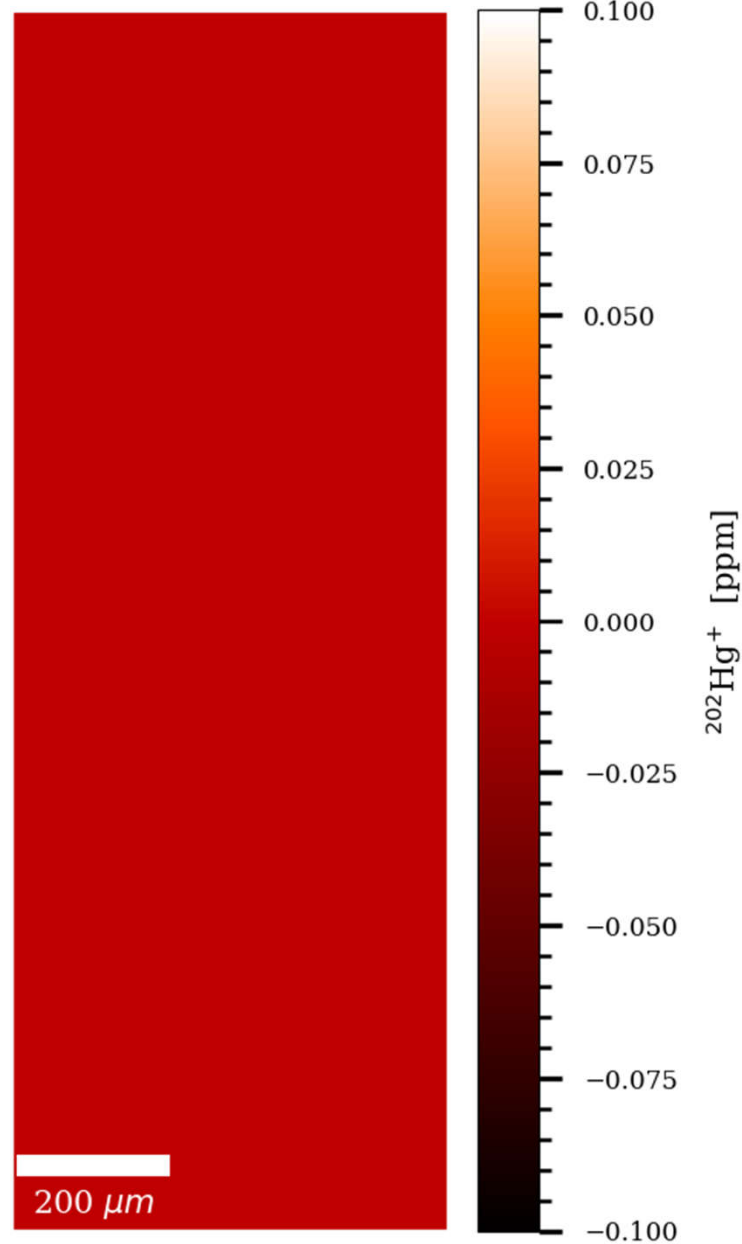


Odense 533M – Acellular Cementum

^{75}As

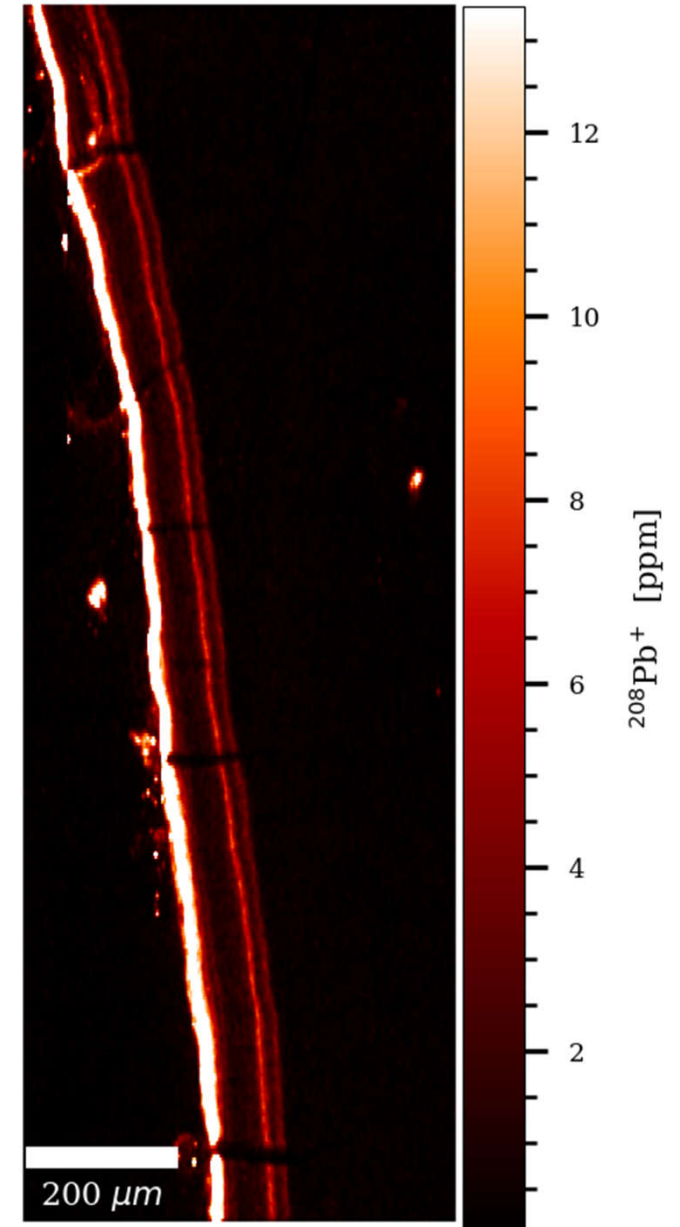


^{202}Hg

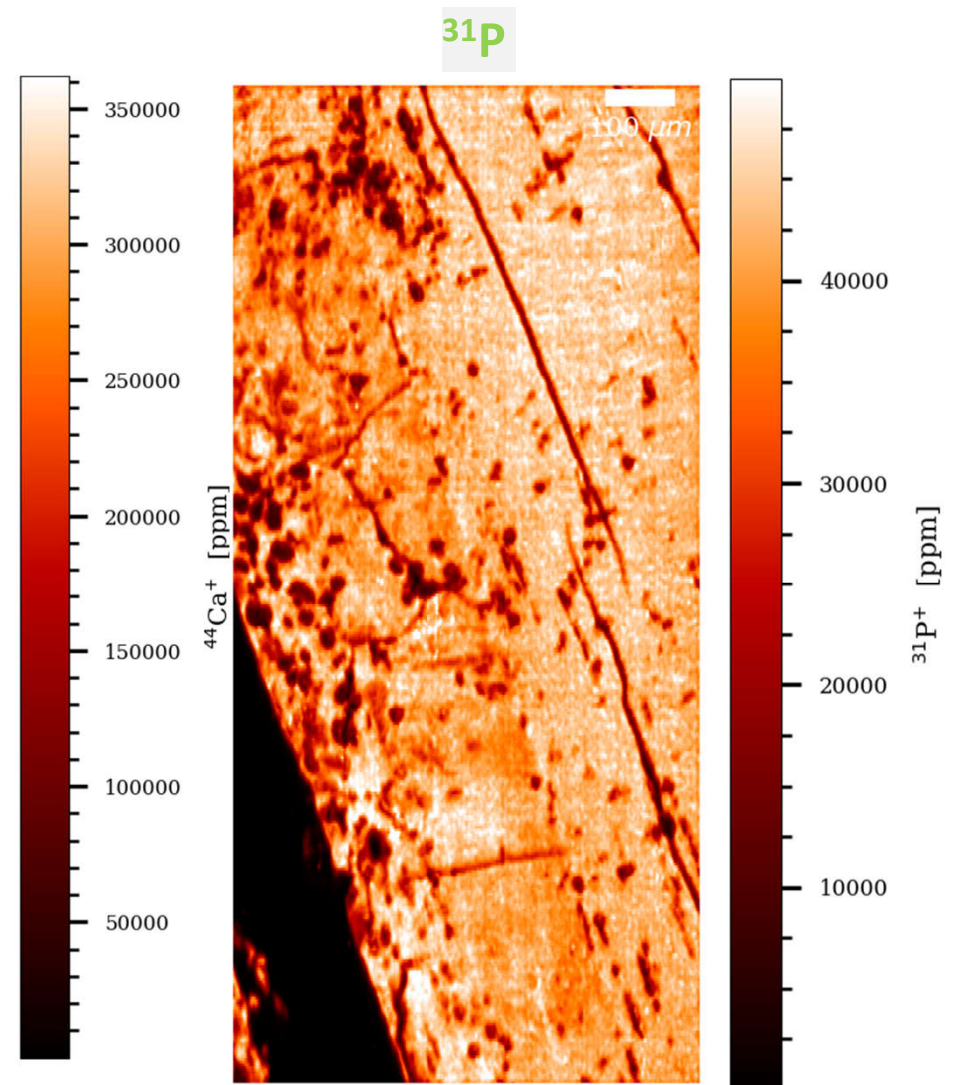
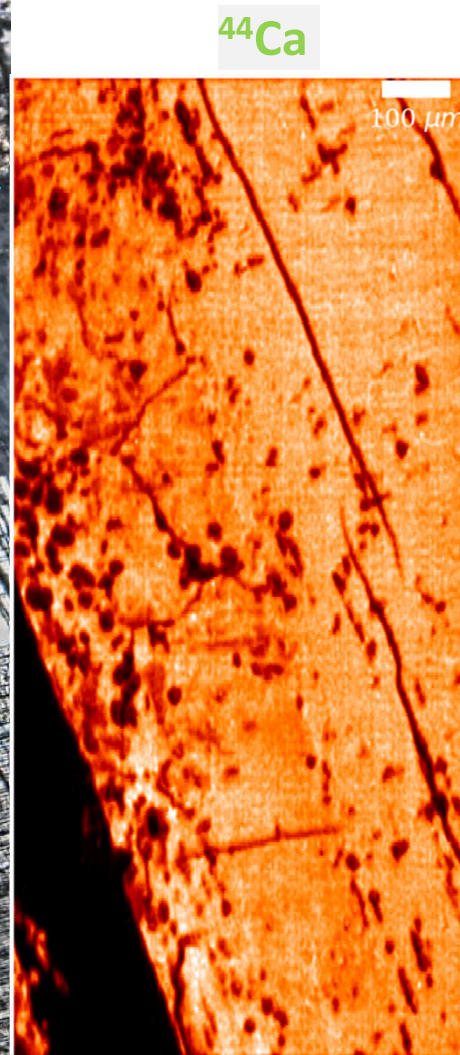
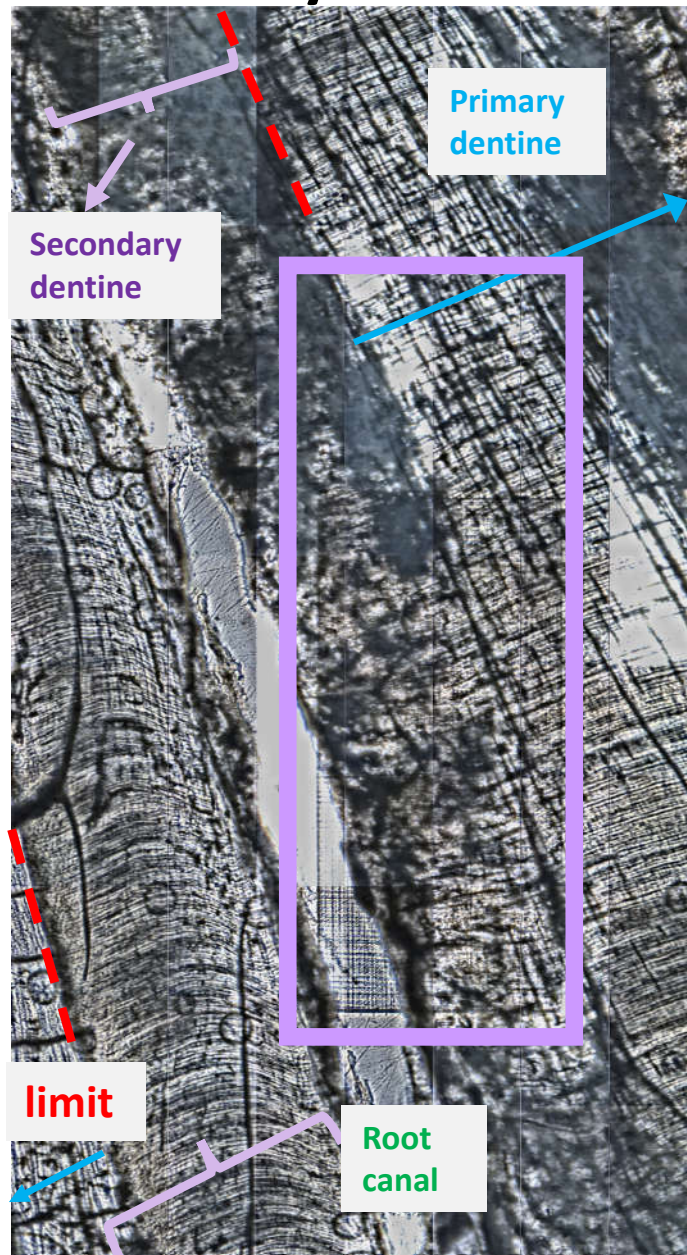


No detectable mercury

^{208}Pb



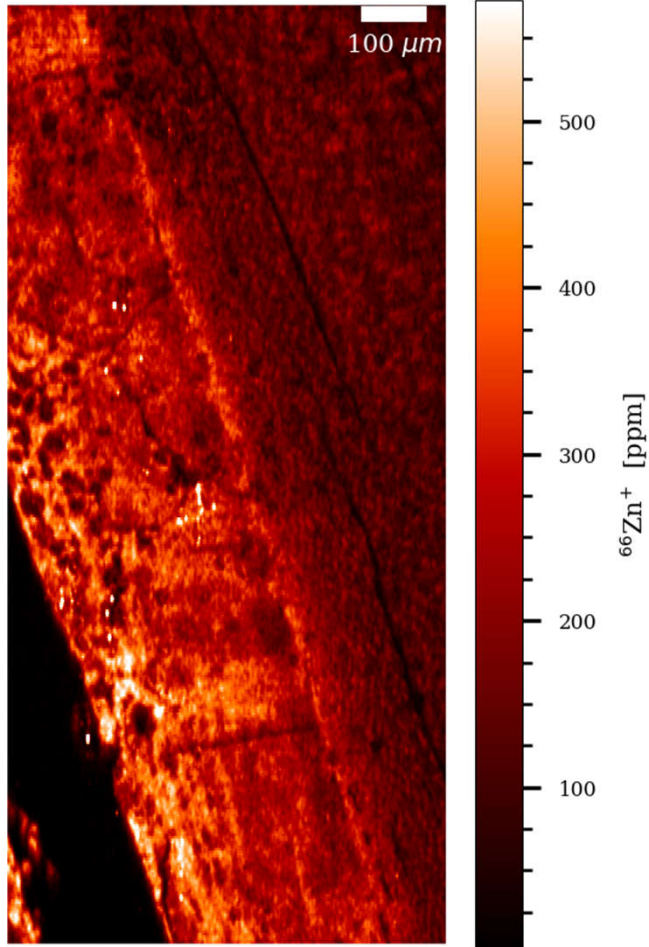
Secondary Dentine



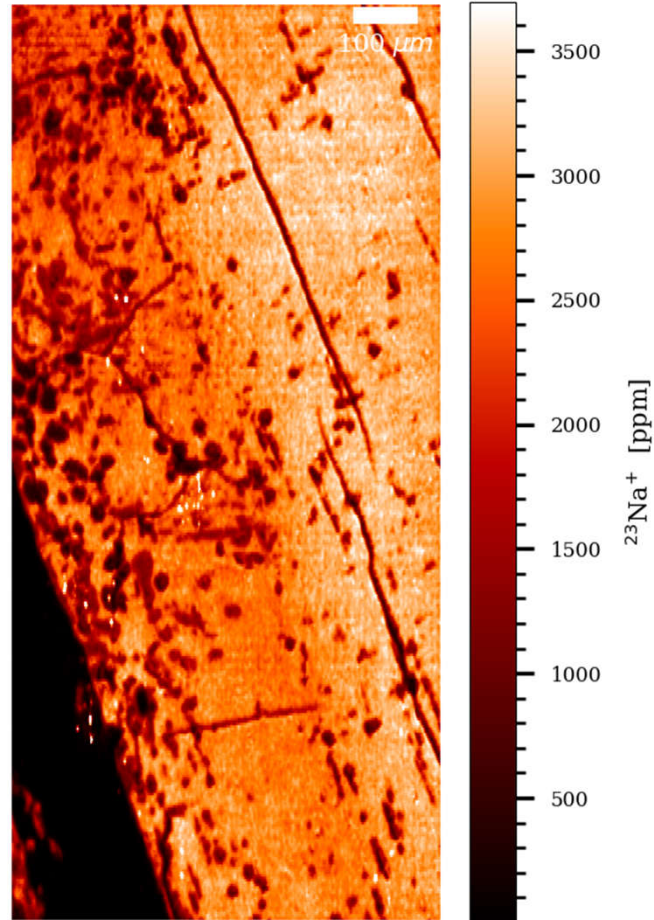
Towards root apex

Odense 533M – Secondary Dentine

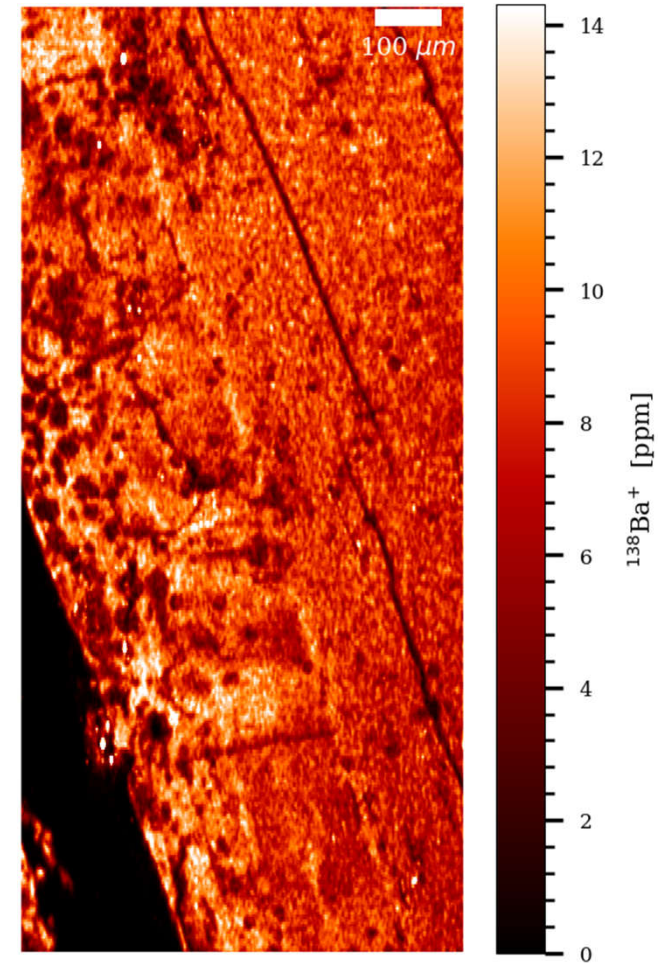
^{66}Zn



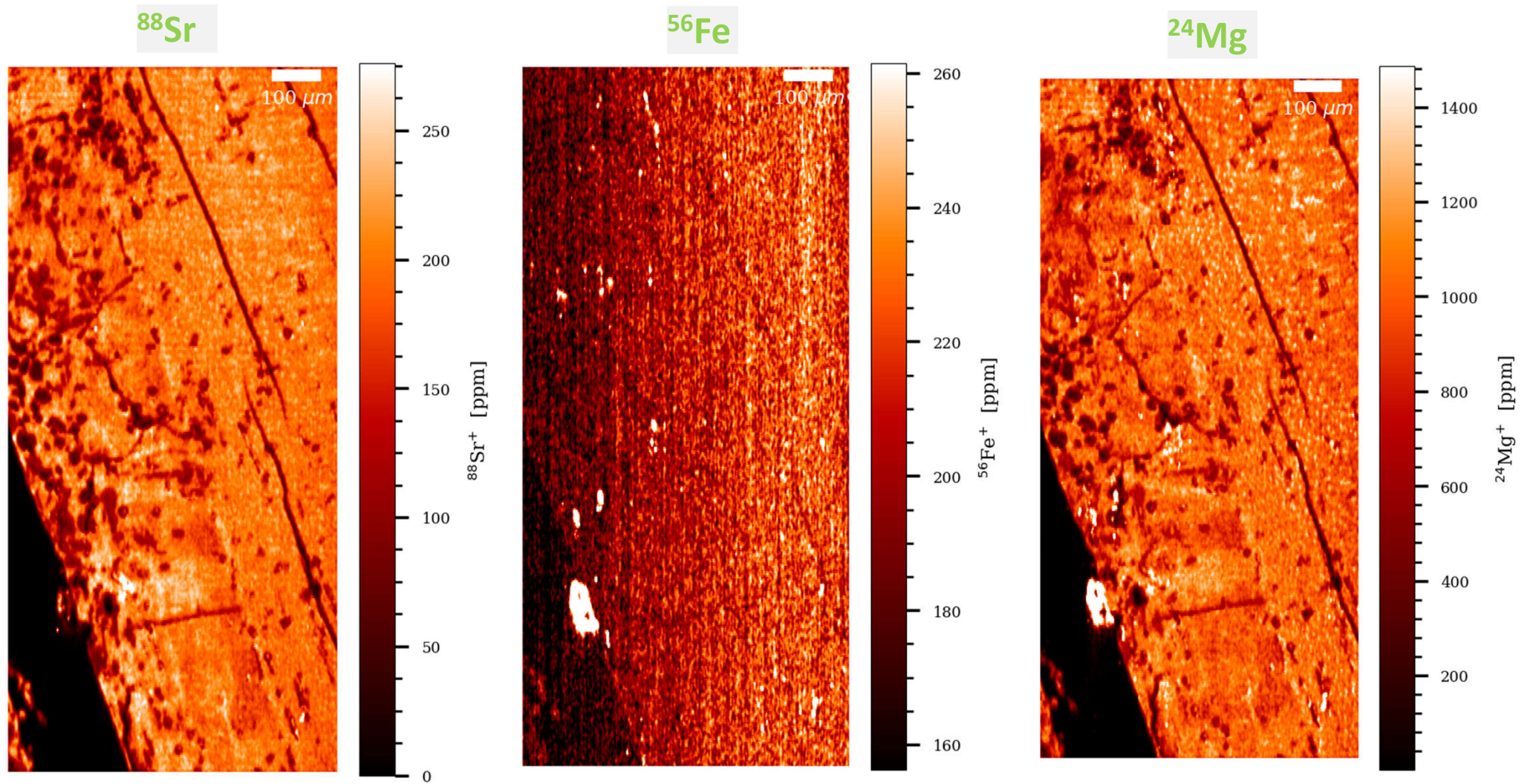
^{23}Na



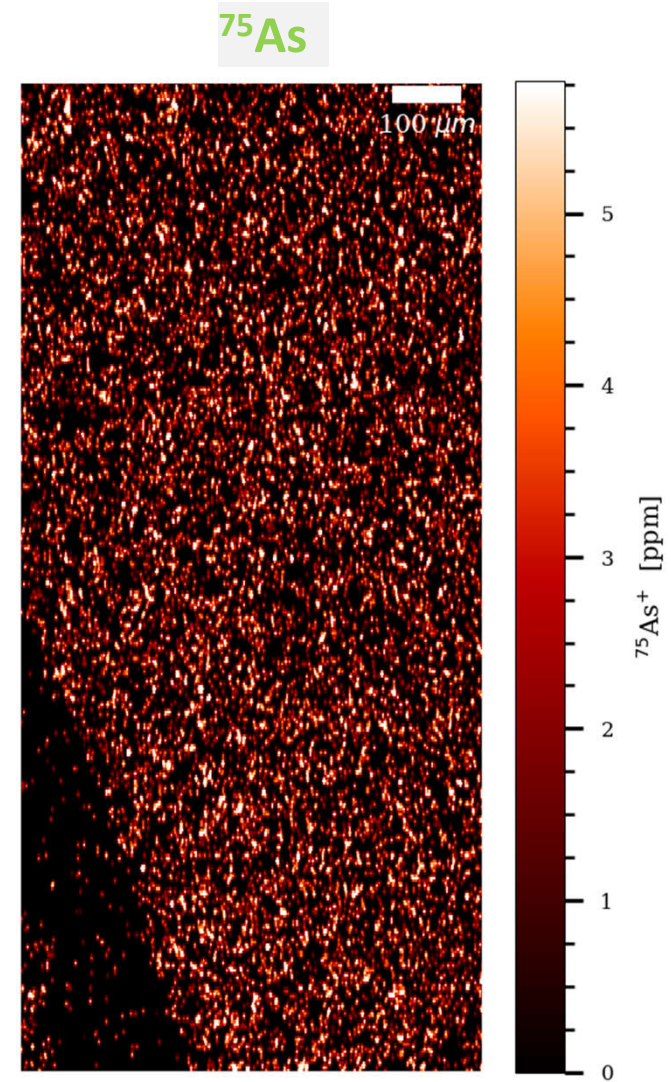
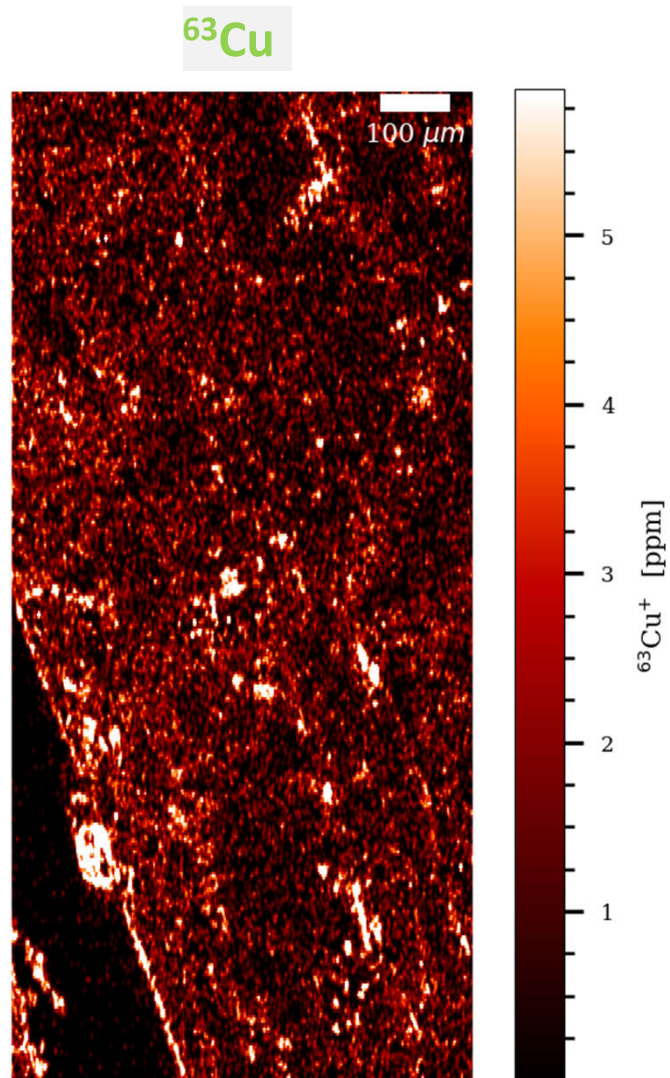
^{138}Ba



Odense 533M – Secondary Dentine

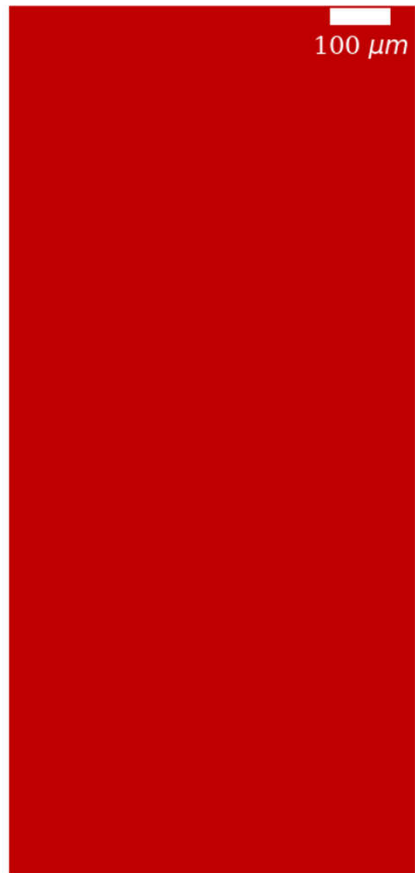


Odense 533M – Secondary Dentine

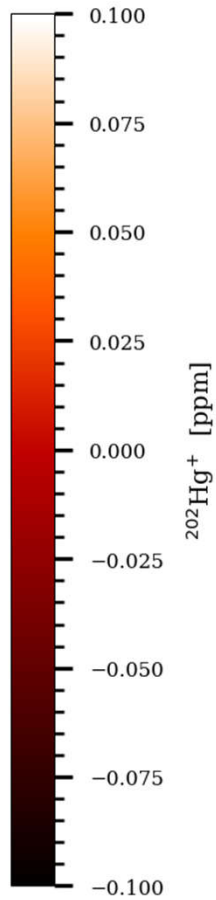


Odense 533M – Secondary Dentine

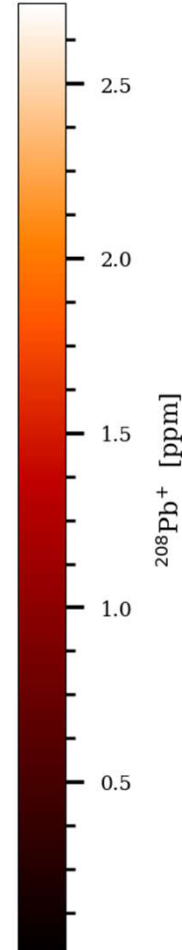
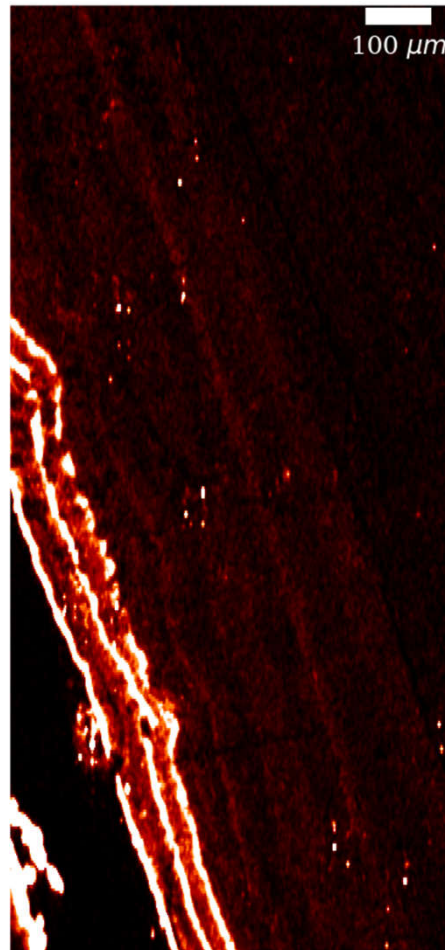
^{202}Hg



No detectable mercury



^{208}Pb



^{55}Mn

