

# Secondary ion mass spectrometry investigation of carbon grains formation in boron nitride epitaxial layers with atomic depth resolution

## Electronic Supplementary Information

The following figures presents an example of a lateral distribution of carbon, boron and nitrogen (a, b and c, respectively) for BN layers (counting from the surface) for a sample grown under high and low reactor pressure (Self-terminated and 3D mode respectively). For 3D mode only 6 out of 68 layers are presented.

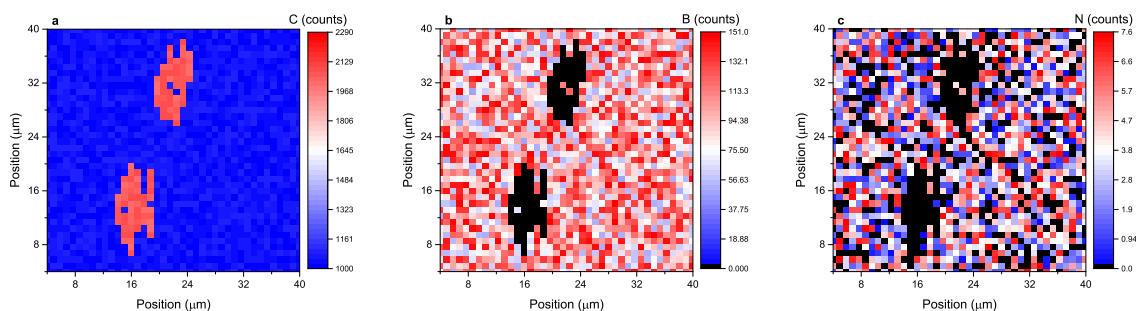


Figure 1: Self-terminated, layer 1

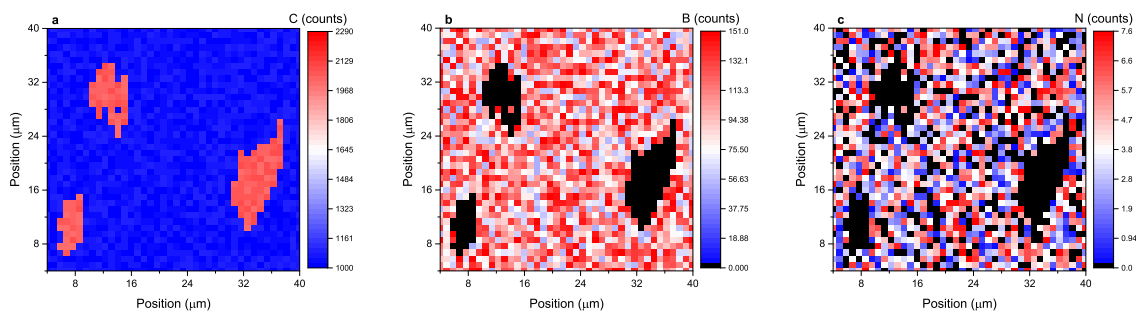


Figure 2: Self-terminated, layer 2

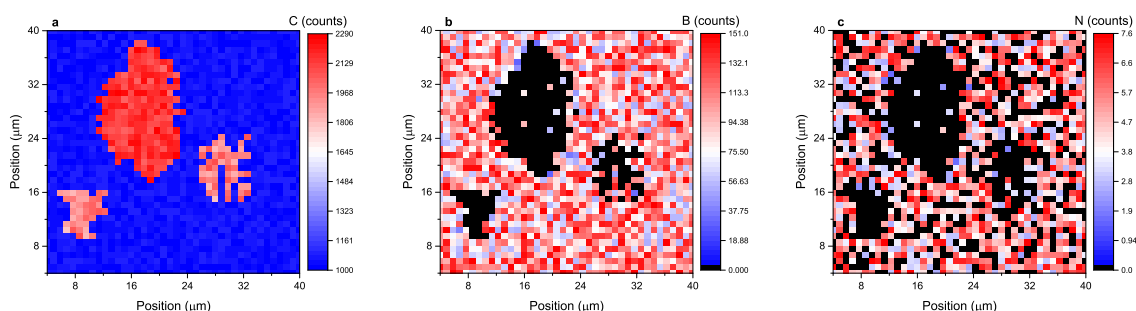


Figure 3: Self-terminated, layer 3

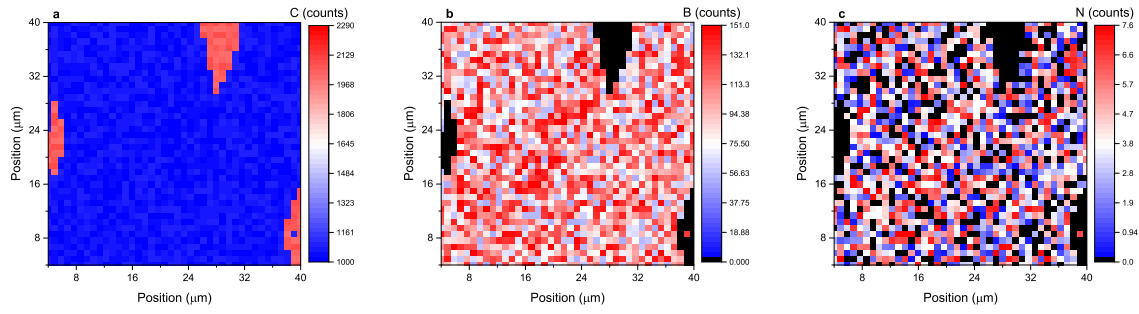


Figure 4: Self-terminated, layer 4

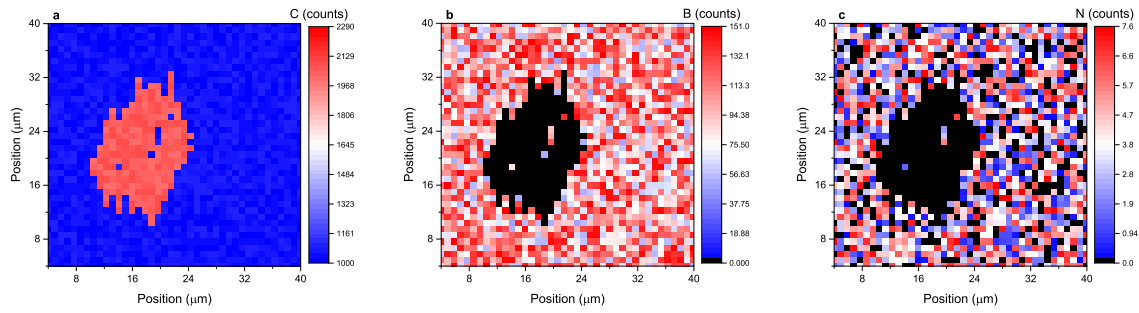


Figure 5: Self-terminated, layer 5

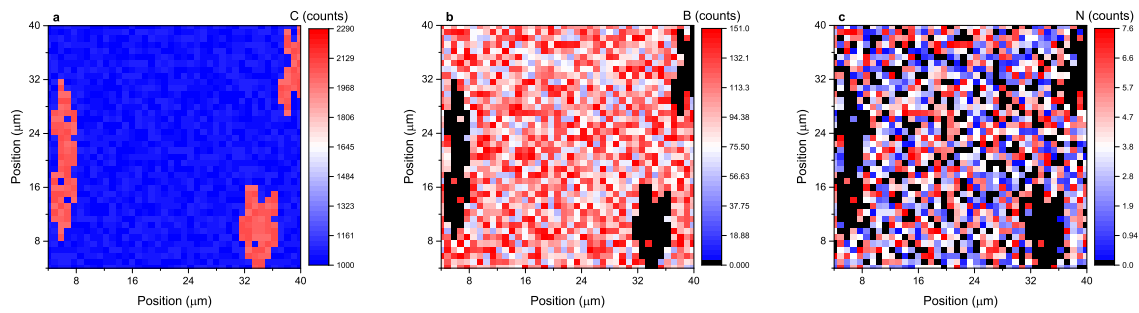


Figure 6: Self-terminated, layer 6

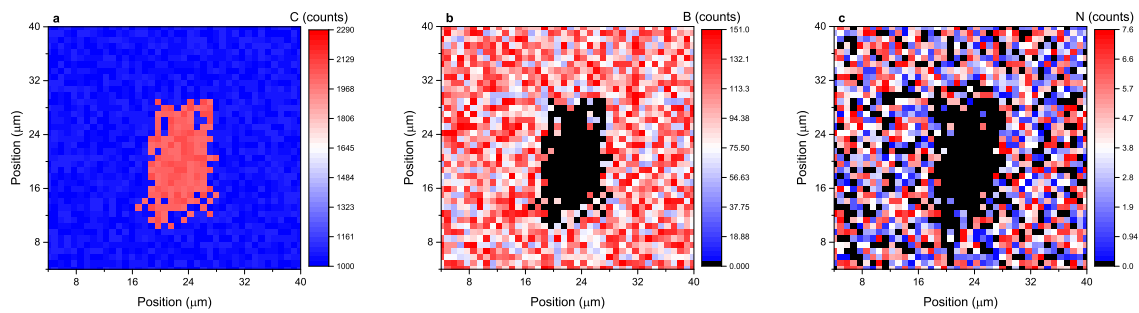


Figure 7: 3D mode, layer 1

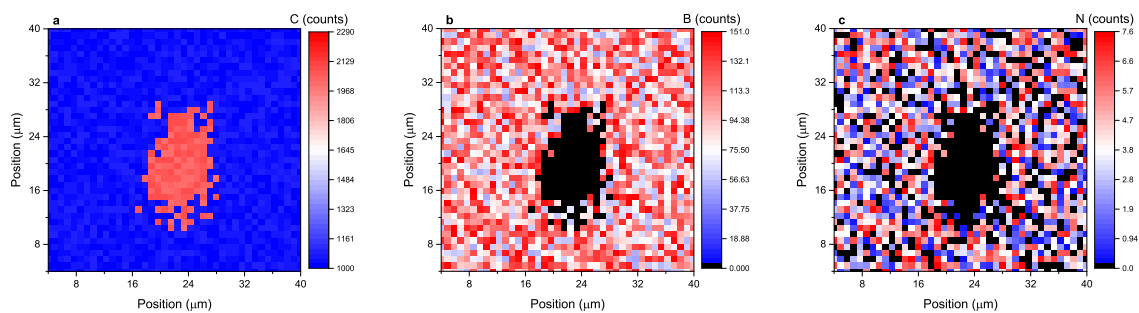


Figure 8: 3D mode, layer 12

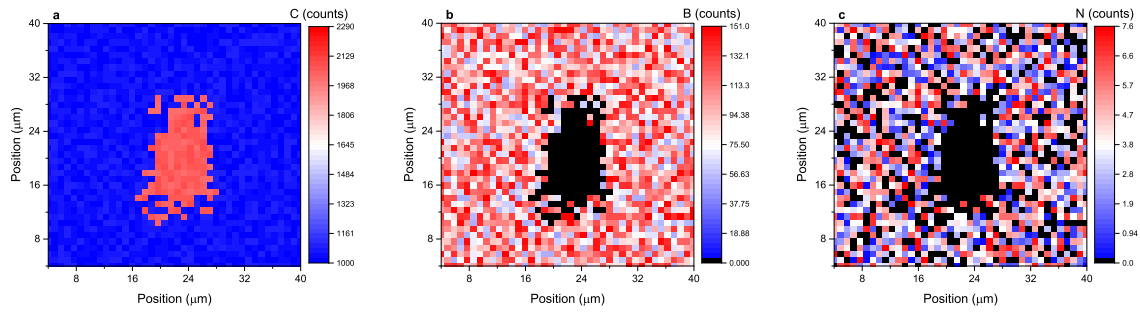


Figure 9: 3D mode, layer 23

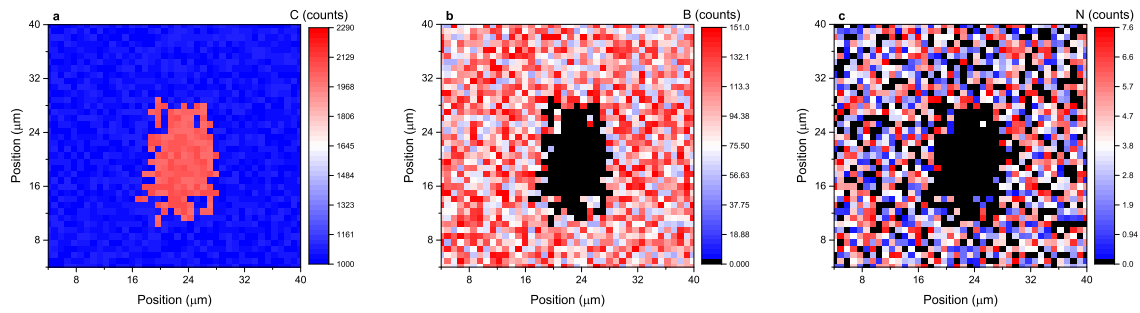


Figure 10: 3D mode, layer 34

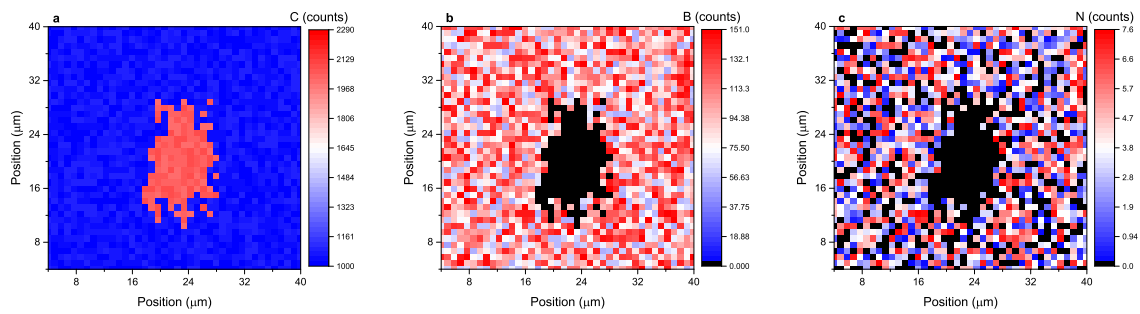


Figure 11: 3D mode, layer 45

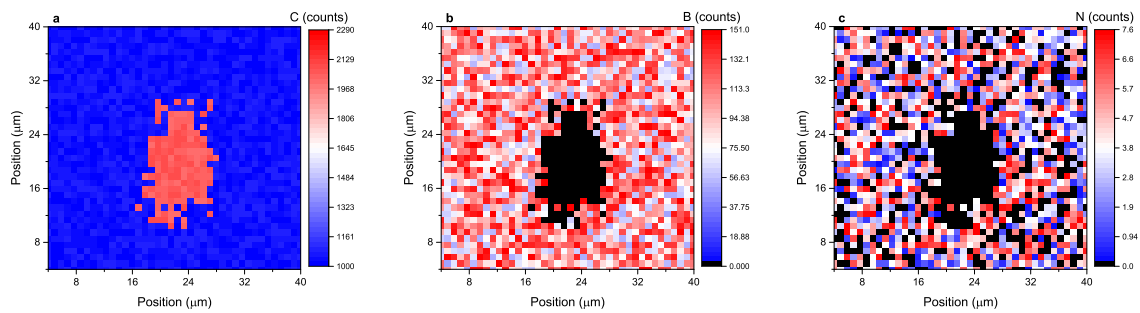


Figure 12: 3D mode, layer 56