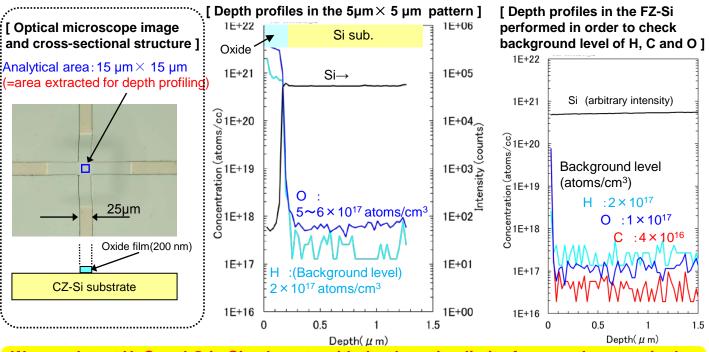
Depth profiling of impurities in the small patterned Si by highly sensitive TOF-SIMS

We measured the depth profiling of impurities in the small area of 15 μ m or less than 10 μ m width, using highly sensitive TOF-SIMS. TOF-SIMS is a powerful technique to be able to obtain some information about the depth profiling of impurities in the small patterned Si devices.

1. Depth profiling of H and O in the 15 μ m \square pattern of CZ-Si by highly sensitive TOF-SIMS



We can detect H, C and O in Si substrate with the detection limit of ppm order, even in the small area of 15 μ m \times 15 μ m for semi-conductor, using highly sensitive TOF-SIMS.

Depth profiling of As and P in the patterned Si of 5 $\,\mu$ m width by highly sensitive TOF-SIMS

