**Lab log**

**Date:** 7/24/2013

**Info:** --

**Conditions:** BSE, 15 kV, PC 70, 50 Pa, Wd 6 -> ~10.1 mm tech.

**Goal:**

1. Try to test what the problem is with low-quality profiles.

**What I did:**

1. Standard start, go to -45 °C, wait for crystals to start to appear.
2. Quickly go for -35 °C / -30 °C / -27 °C, find a good crystal.
3. Take pictures of it in time.

**Products:**

Some pictures, vertical seems to be much better than horizontal measuring. BMP seems to be better then TIFF, not in quality, but because the 3D software can’t view TIFFs on smaller window sizes (it does not affect the profile quality though).

Also took some calibration vertical/horizontal shots to compare vertical/horizontal measurements (snp8, 9, 10).

**Info:**

|  |  |  |
| --- | --- | --- |
| Temp taken [°C] | Note | Name |
| -35 |  | 942\_3d\_snp1 |
| -35 |  | 942\_3d\_snp2 |
| -30 | Right away | 942\_3d\_snp3 |
| -30 | 4 mins in | 942\_3d\_snp4 |
| -30 | 8 mins in | 942\_3d\_snp5 |
| -35 | 3 mins in (back) | 942\_3d\_snp6 |
| -30 |  | 142\_3d\_snp1 |
| -30 |  | 142\_3d\_snp2 |
| -30 |  | 142\_3d\_snp3 |
| -30 | 2 mins in | 142\_3d\_snp4 |
| -27 | Right away | 142\_3d\_snp5 |
| -27 | 1 min in | 142\_3d\_snp6 |
| -27 |  | 142\_3d\_snp7 |