

# Test Report

( Vision Precision Instruments: SD-900M Model )

## Equipment List

Description	Model	Brand	Number	Condition
Magnetron Sputtering Coater	SD-900M	VPI	1	✓
Pump	VRD-8	VPI	1	✓
Sputtering Target	Purity 99.99%	VPI	1	✓

## Acceptance Testing

- Sputtering Time: 30s
- Sputtering Target: Au (Gold)

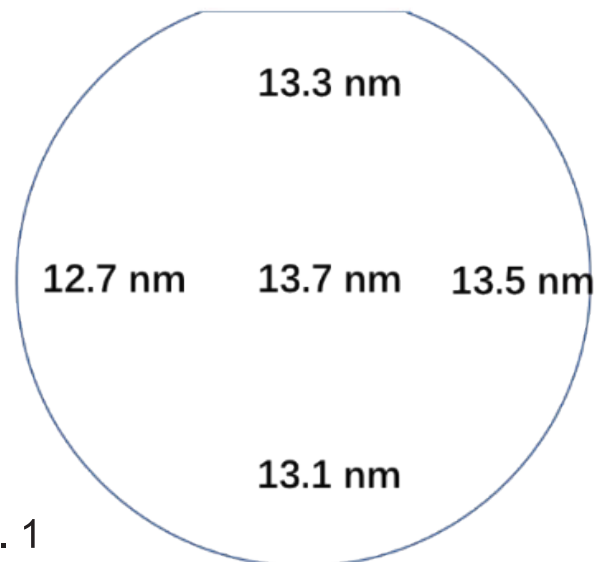
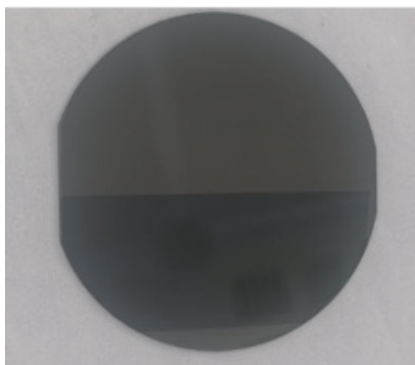


FIG. 1

- Thickness (Ellipsometer): 13.7 nm (FIG. 1)
- AFM (Atomic Force Microscopes): 13 nm;
- Deposition Uniformity: within  $\pm 3\%$

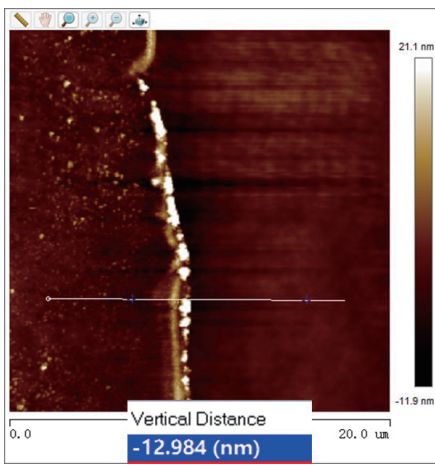


FIG. 2

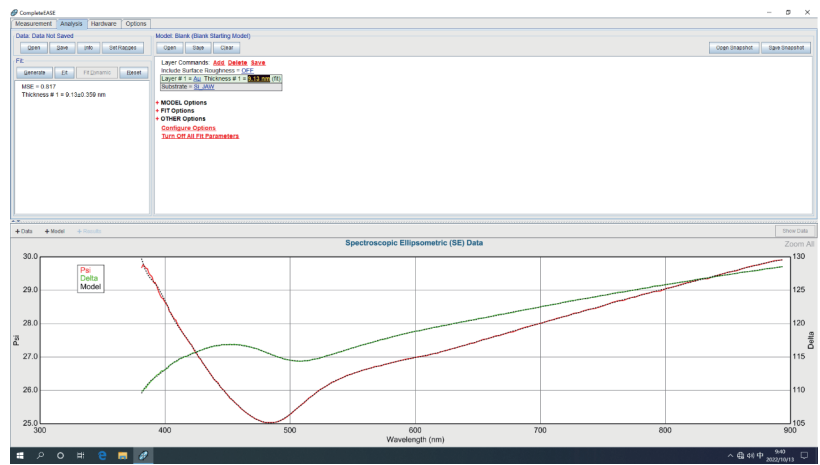


FIG. 3

## Sputtering Affect

- The structure morphology has no obvious change;
- Granular Size (Gold): 20~50 nm (FIG. 4)

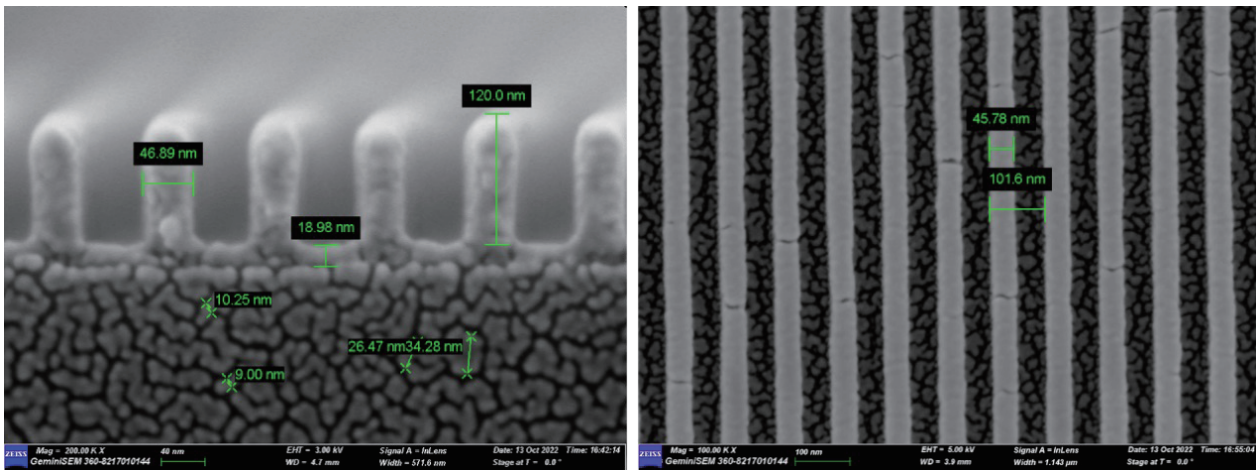


FIG. 4

This test report comes from Gusu Chinese National Laboratory of Materials Science by 2022-10-21

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