

# CIRCUITGUARD AI — PCB DEFECT ANALYSIS REPORT

Report ID: RPT-4647DB78

Generated On: 2025-11-13 06:31:31

## Defect Summary

Total Defects: 3

Average Confidence: 83.73%

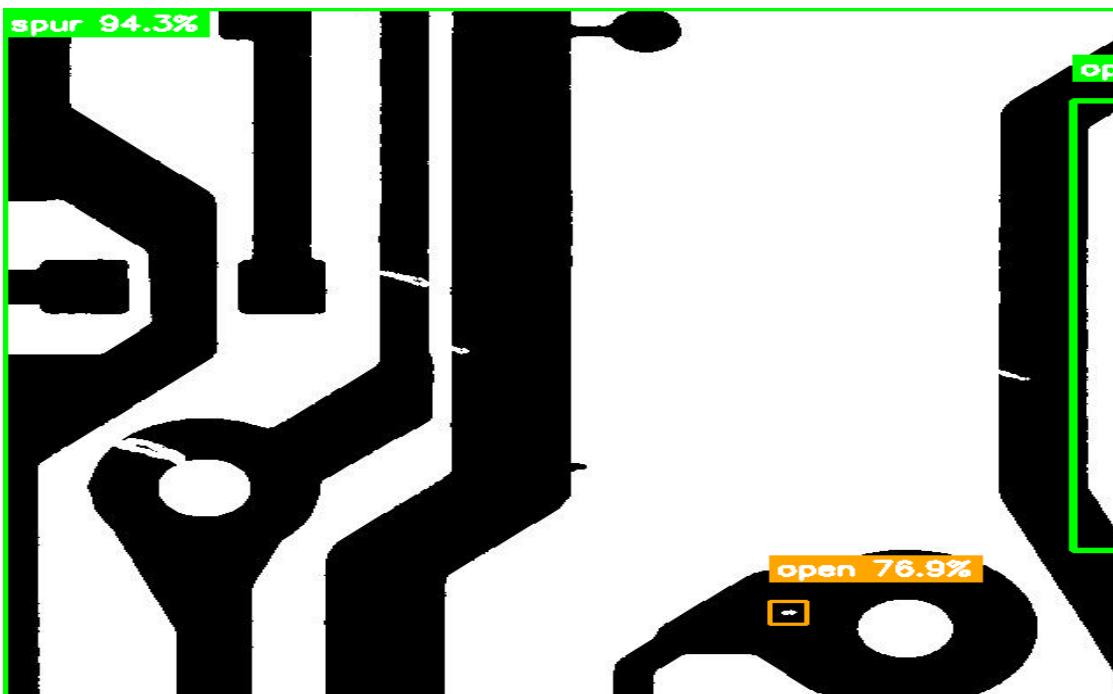
High: 2 | Medium: 1 | Low: 0

## Possible Causes & Remedies

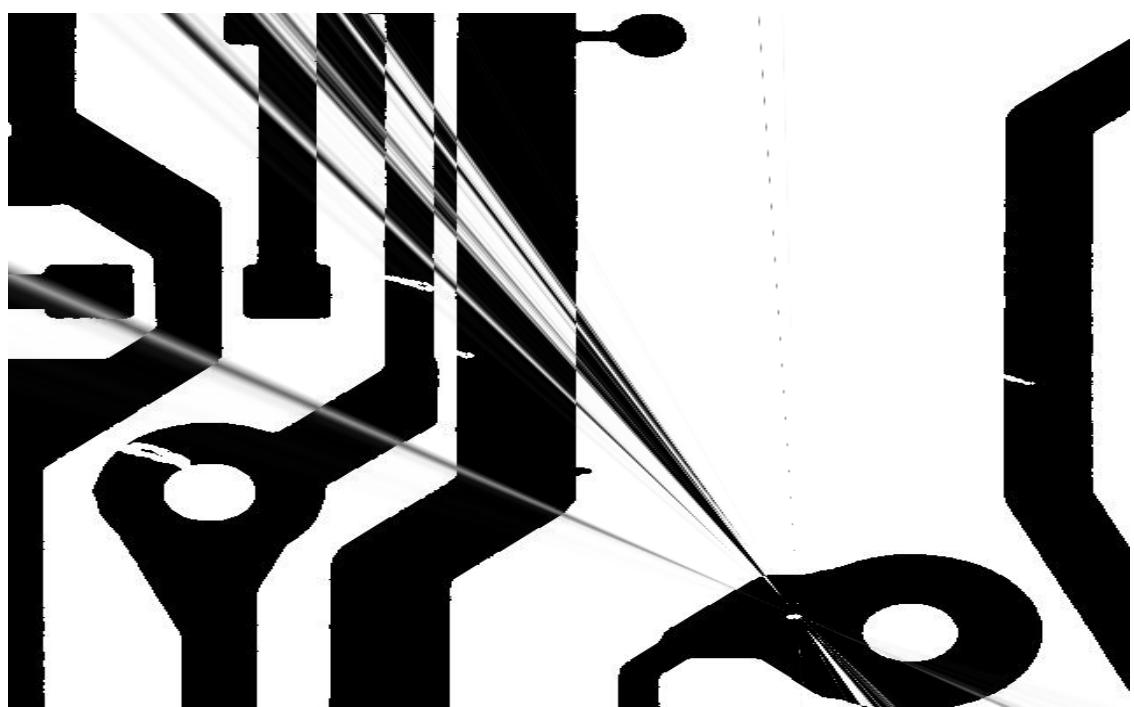
- Solder Bridge — Verify copper trace spacing and solder mask.
- Mousebite — Check drilling alignment and routing process.
- Open Circuit — Ensure complete etching and copper continuity.
- Spur — Clean unwanted copper residues.
- Pinhole — Inspect plating process and solder cleanliness.
- Spurious Copper — Use cleanroom inspection and re-etch.

## Visual Analysis

### Annotated PCB



### Difference Map



Binary Mask

