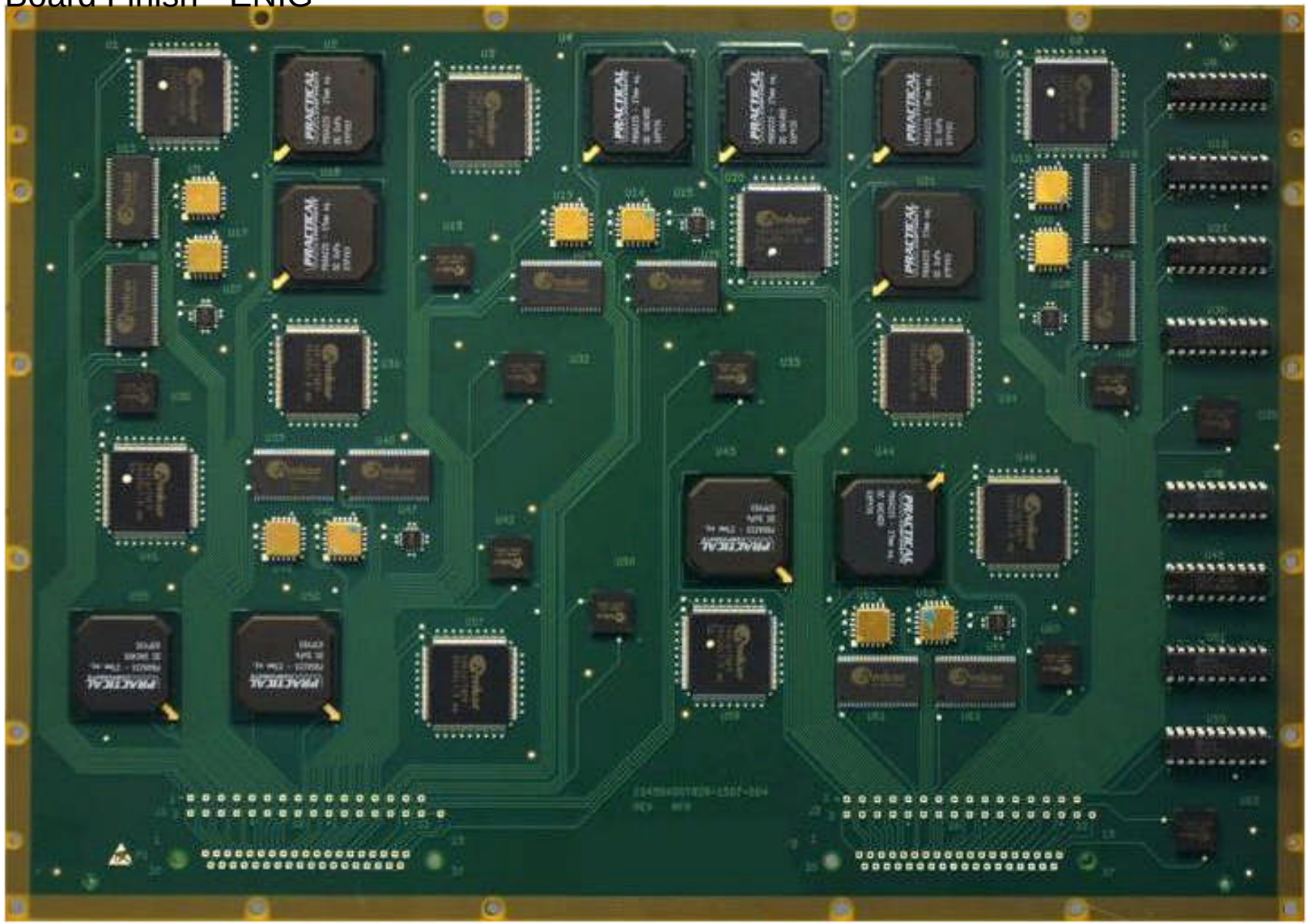
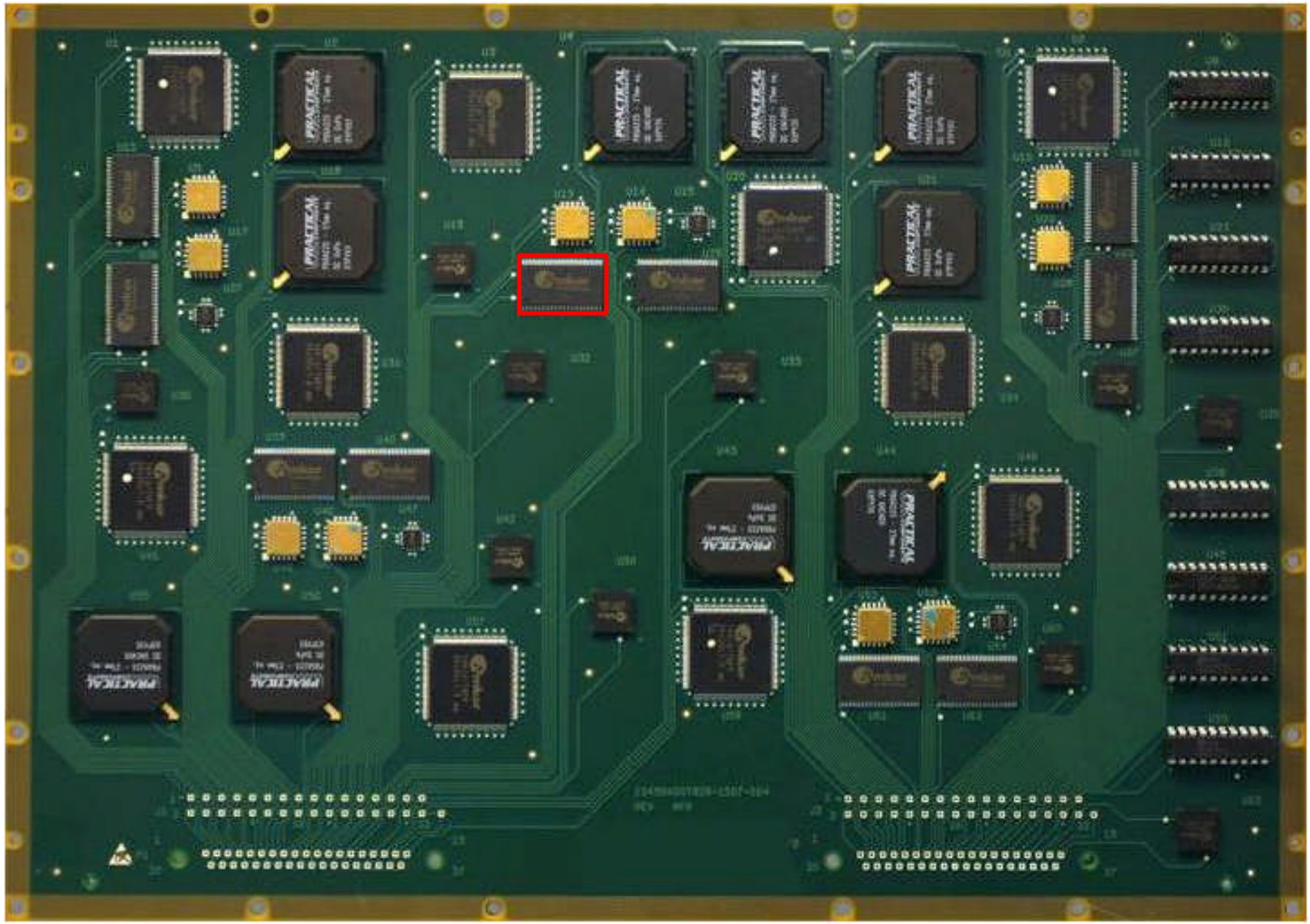
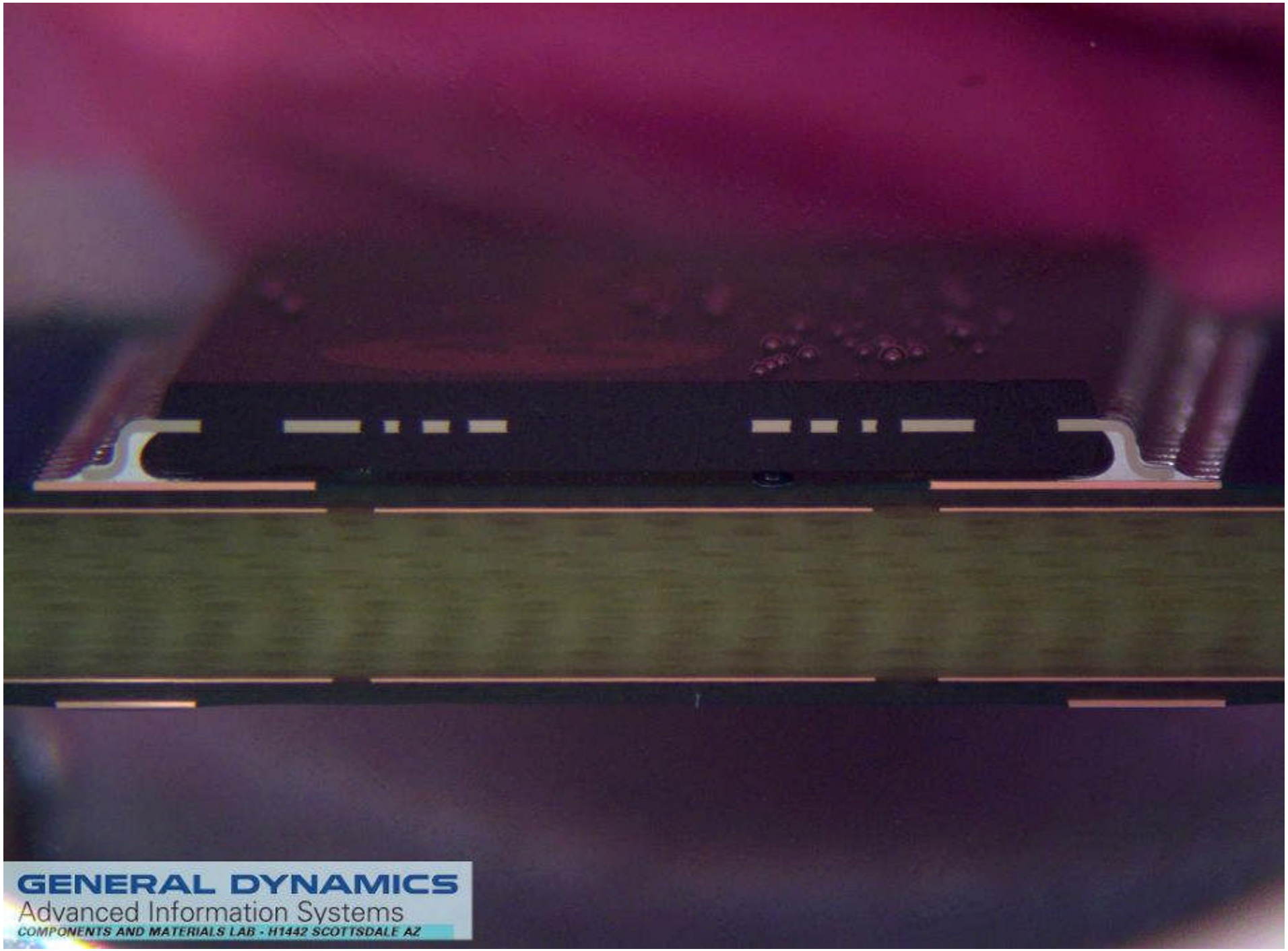
SN93 - Lead-Free Manufactured; Thermal Cycle and Combined Environments Test Vehicle

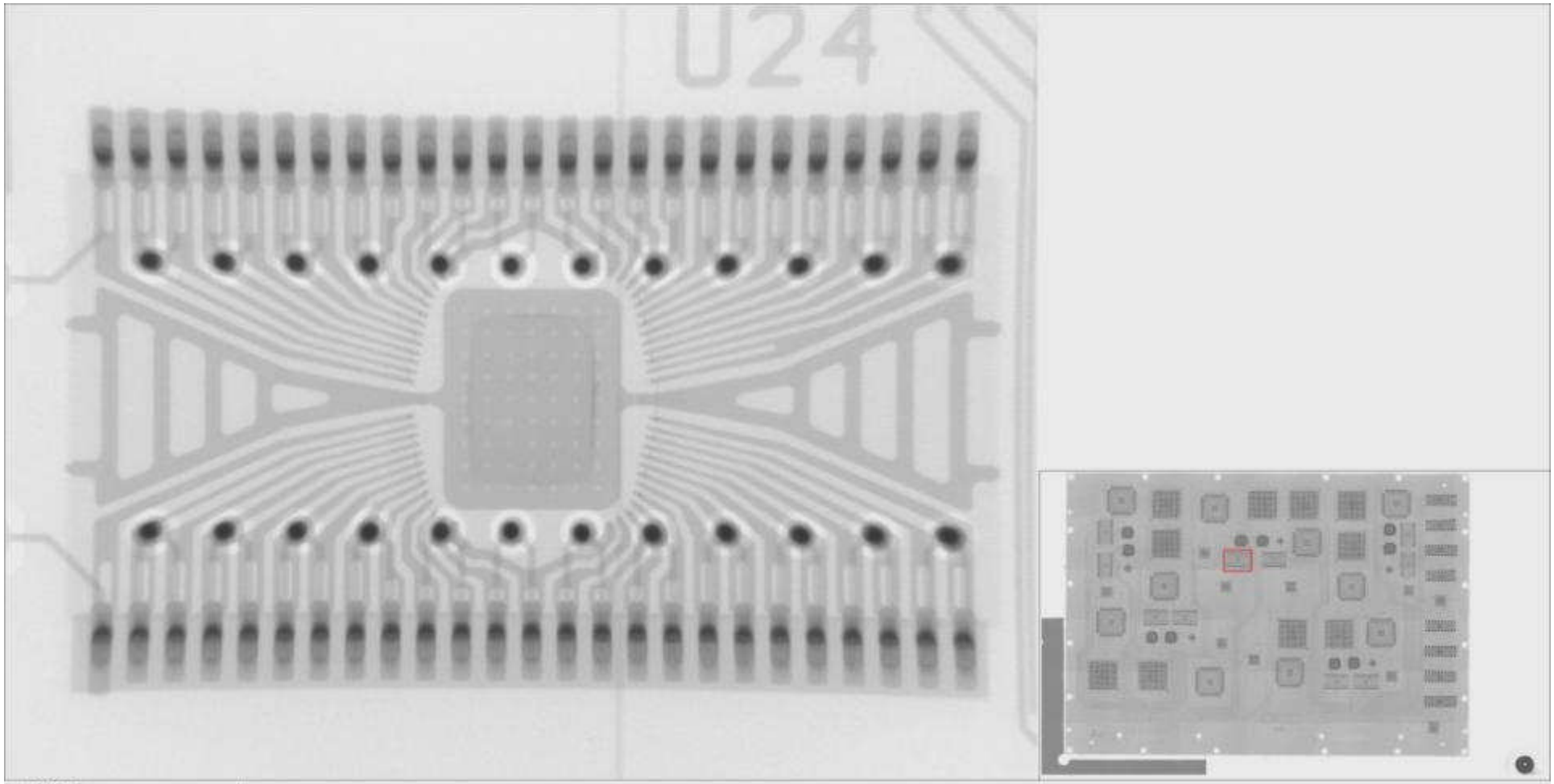
- Assembly Profile – Lead-Free
- Reflow Solder – SAC305
- Wave Solder – SN100C
- Board Finish - ENIG



U24 – TSOP-50
SnBi Finish

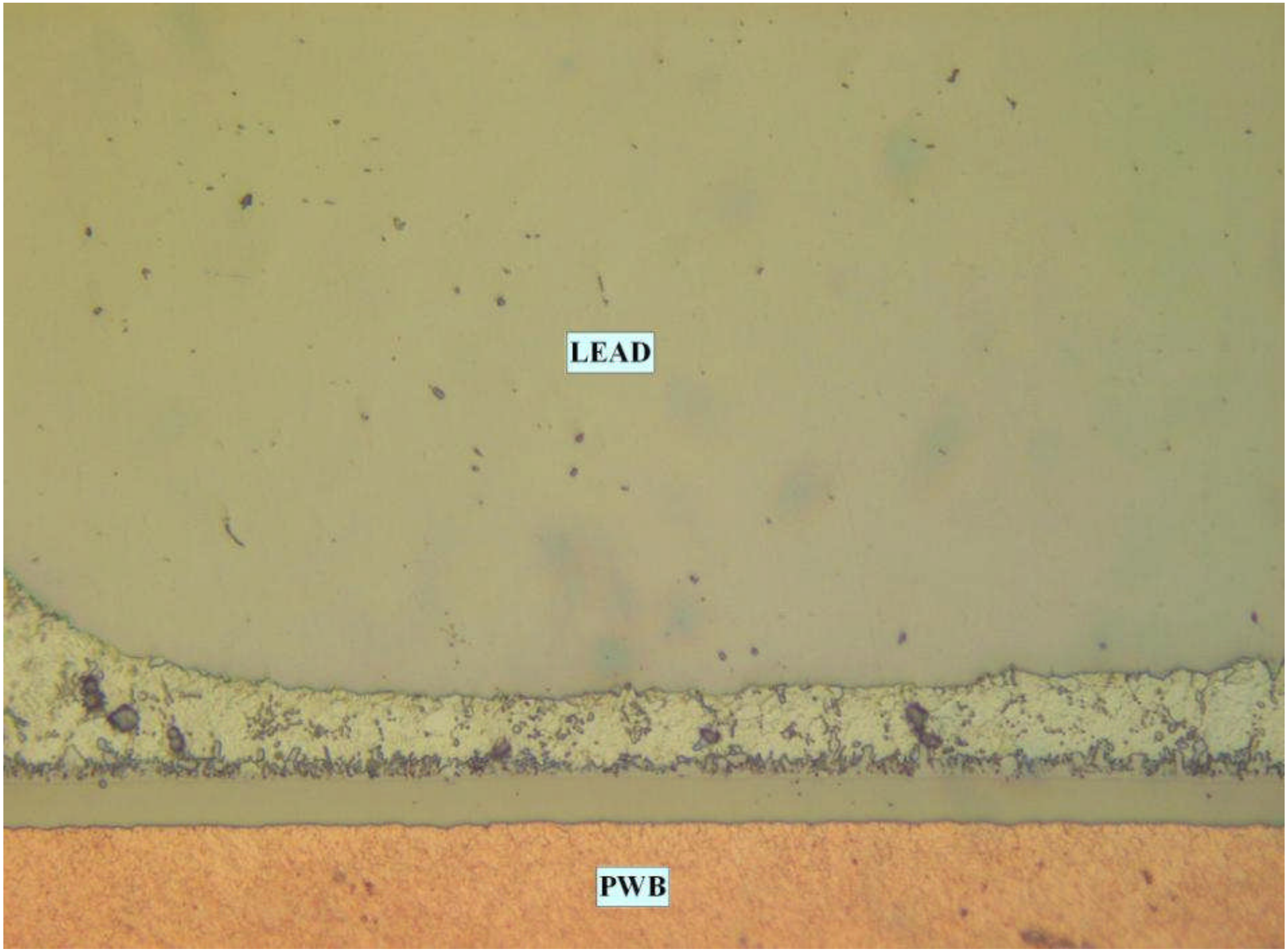


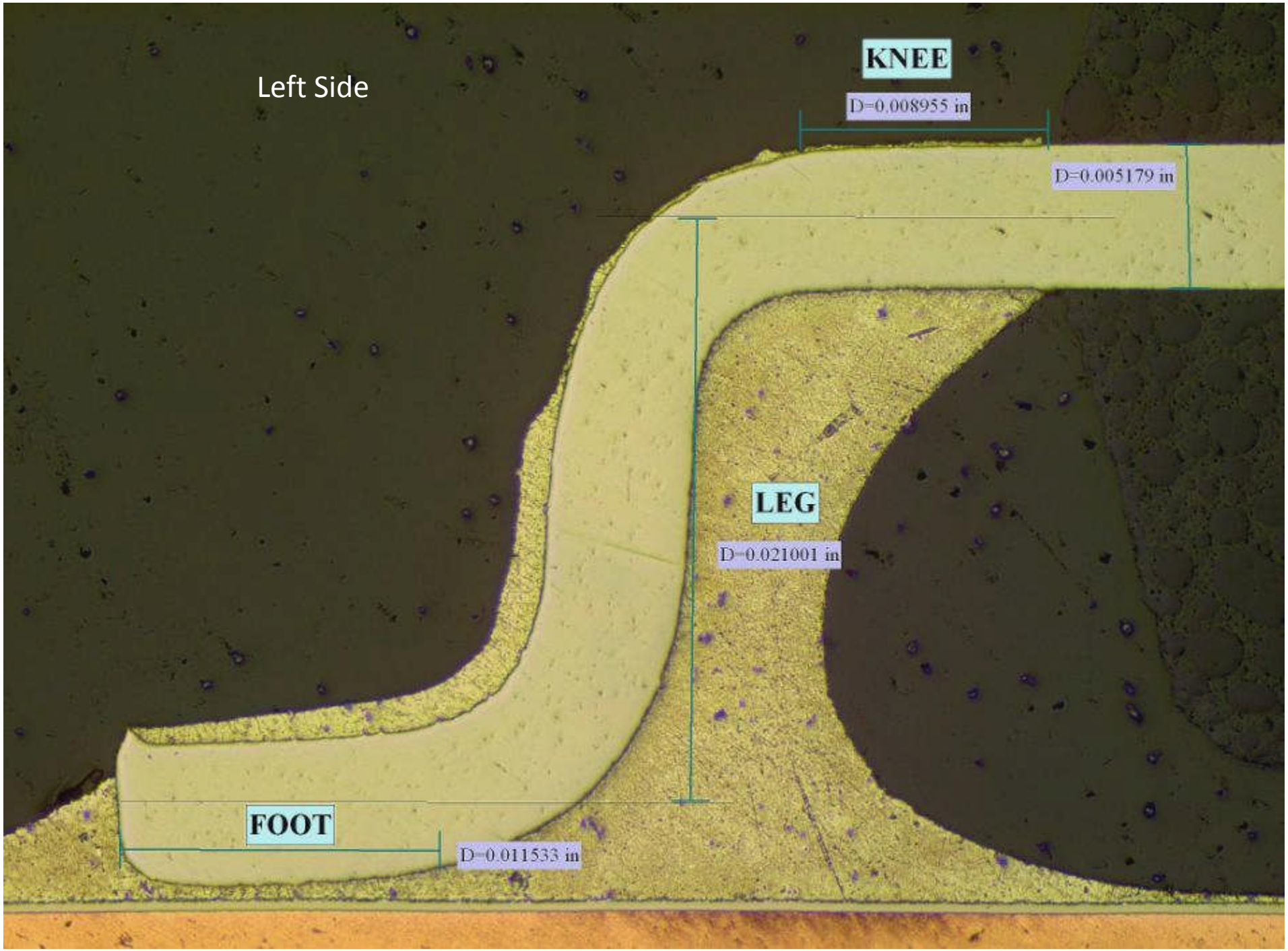

GENERAL DYNAMICS
Advanced Information Systems
COMPONENTS AND MATERIALS LAB - H1442 SCOTTSDALE AZ

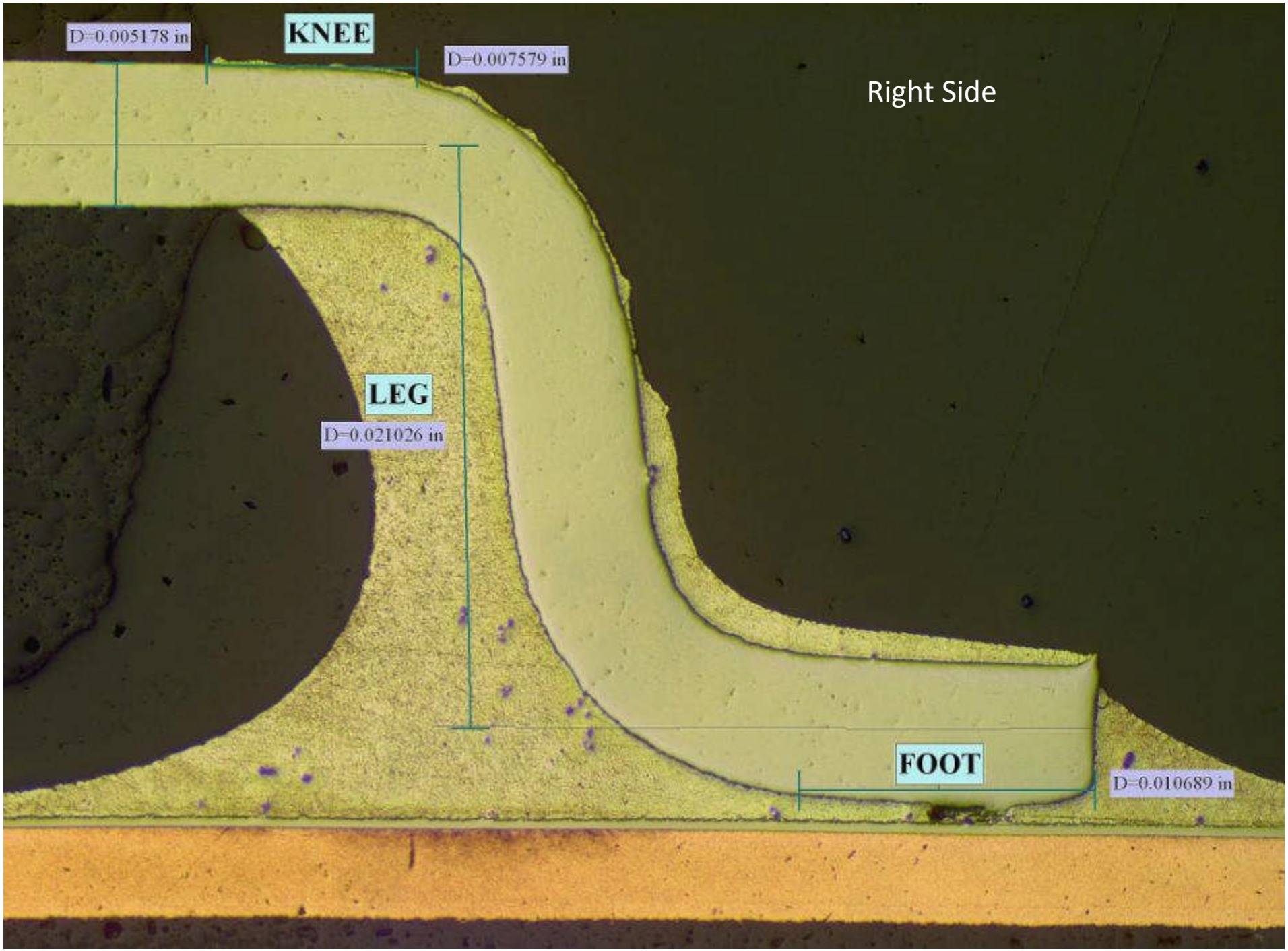


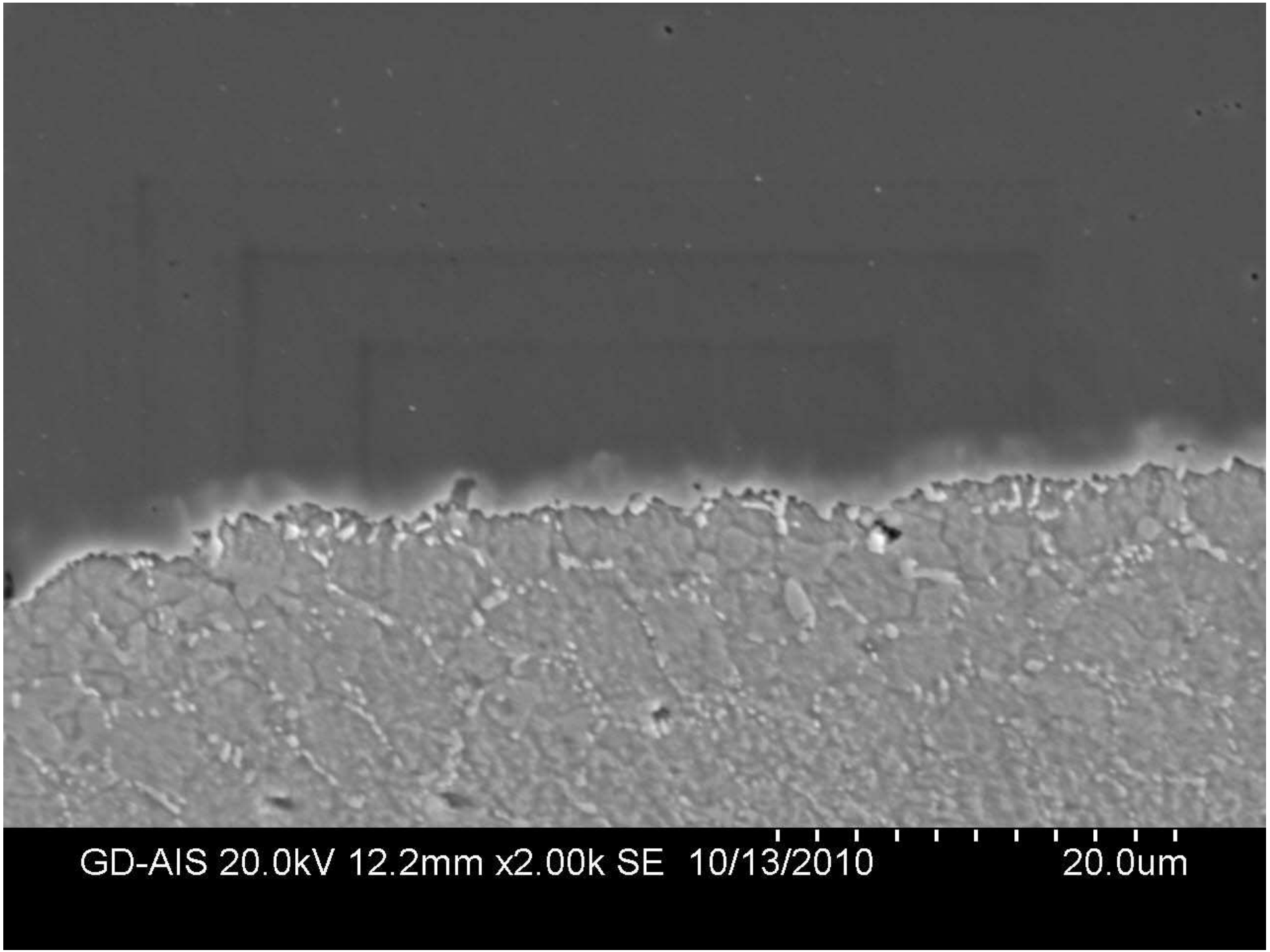
5.0mm

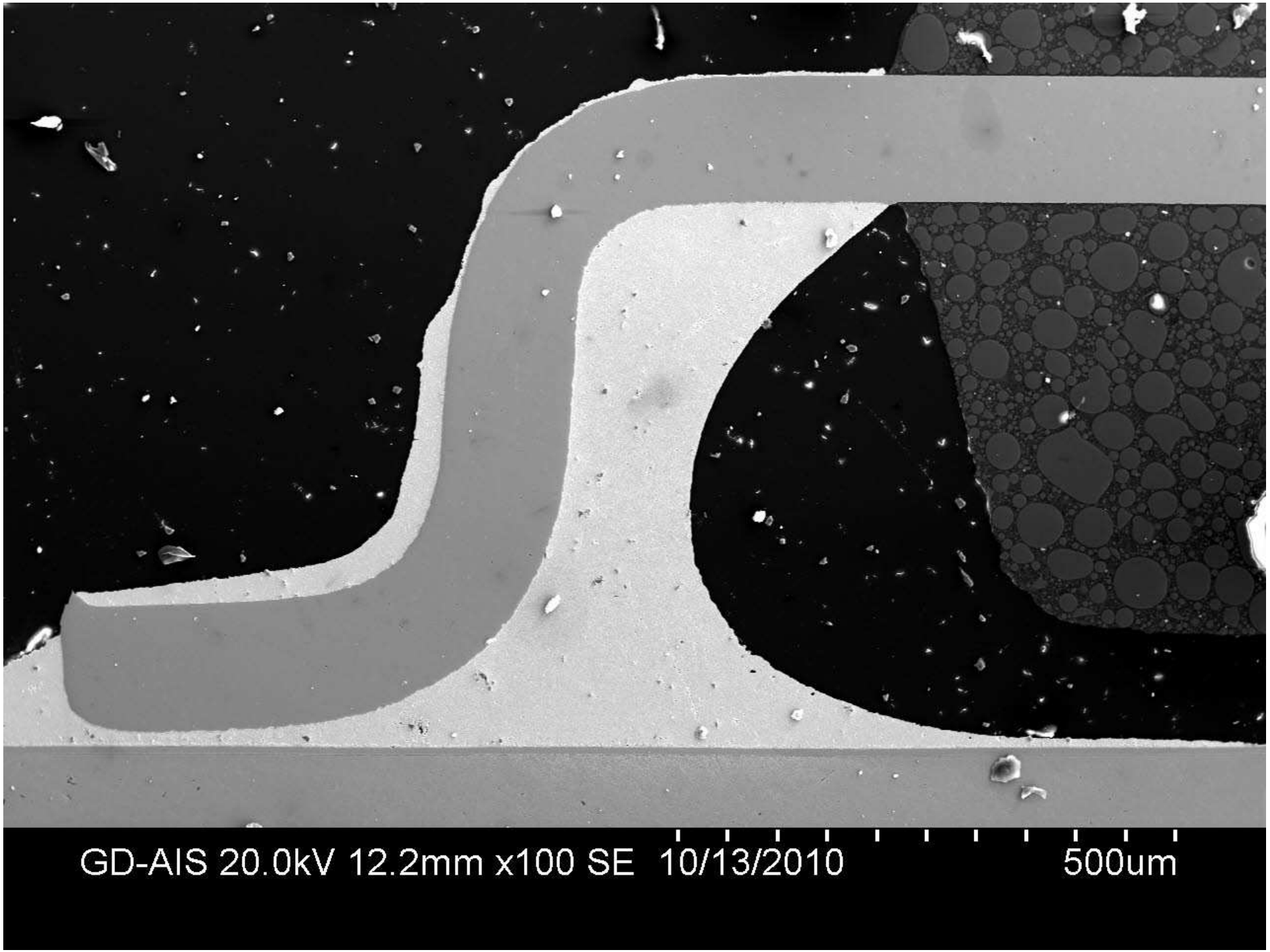
Tube voltage: 120 kV
Tube power: 2.00 W
Filter method used: None
Averaging: 256 frames

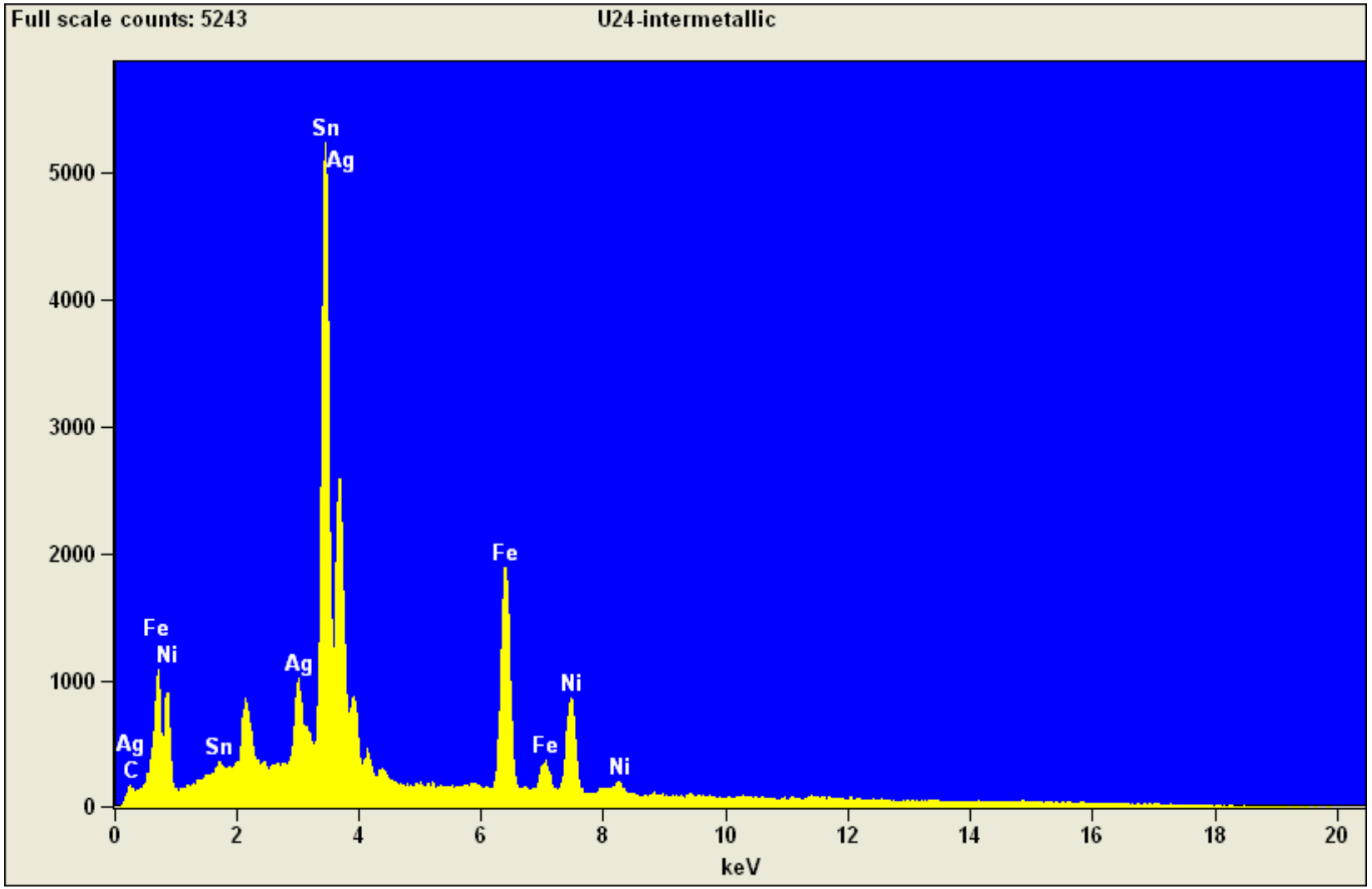

LEAD
PWB


Left Side
KNEE
D=0.008955 in
D=0.005179 in
LEG
D=0.021001 in
FOOT
D=0.011533 in


D=0.005178 in
KNEE
D=0.007579 in
Right Side
LEG
D=0.021026 in
FOOT
D=0.010689 in


GD-AIS 20.0kV 12.2mm x2.00k SE 10/13/2010
20.0um


GD-AIS 20.0kV 12.2mm x100 SE 10/13/2010
500um



Quantitative Results for: U24-intermetallic

Element Line	Weight %	Atom %
Fe K	21.87	33.78
Ni K	12.18	17.90
Ag L	5.45	4.36
Sn L	60.50	43.96
Total	100.00	100.00