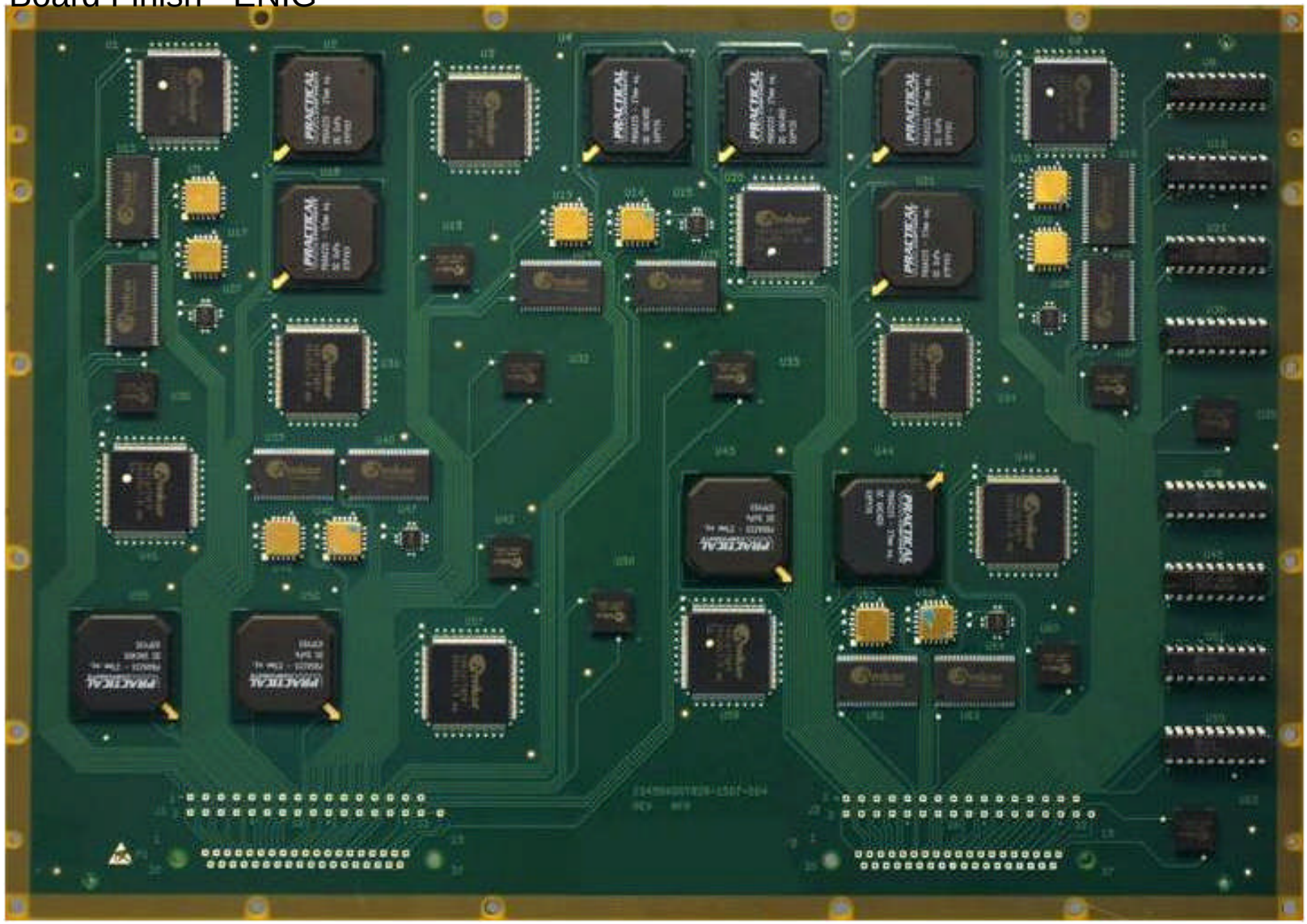
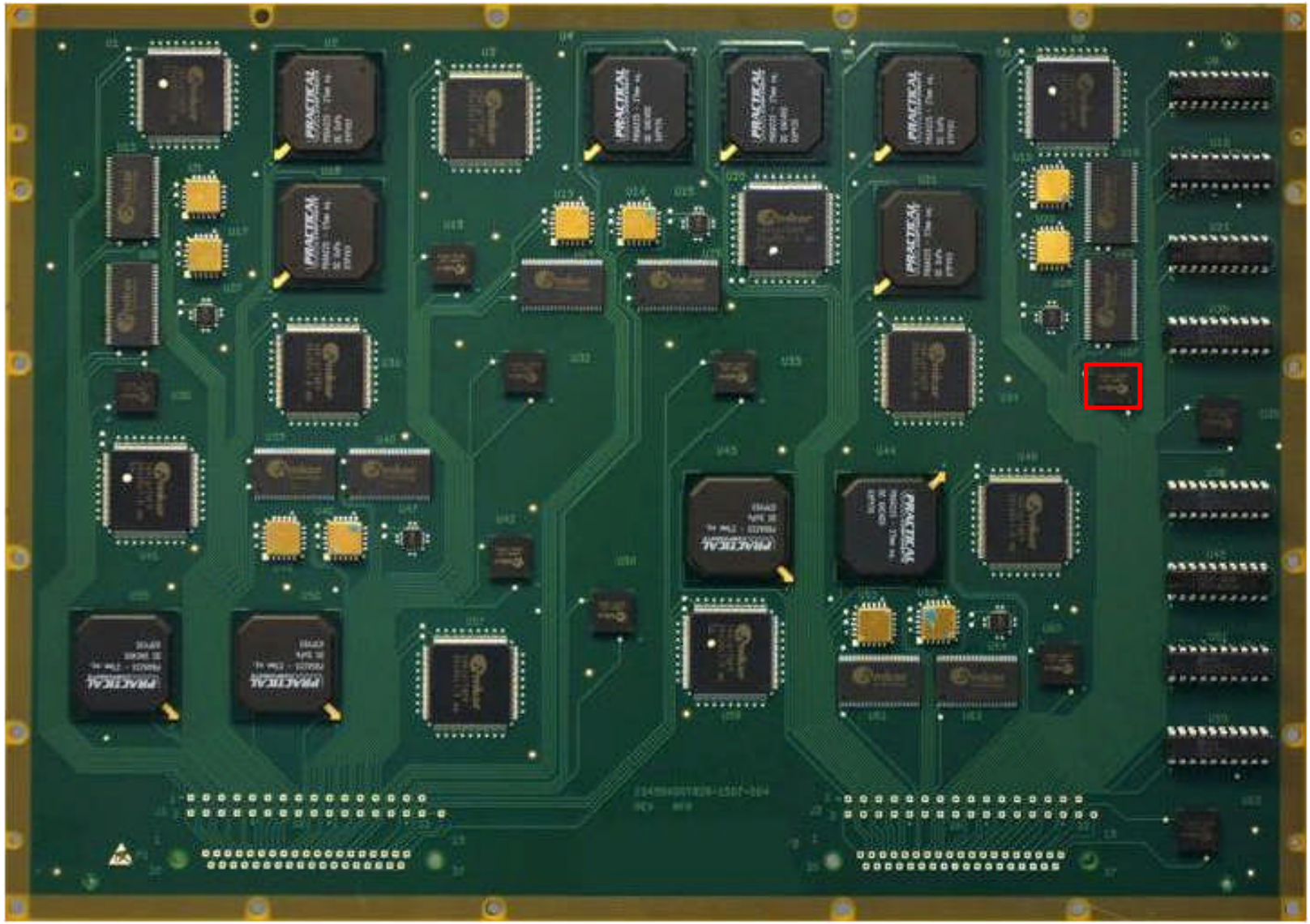
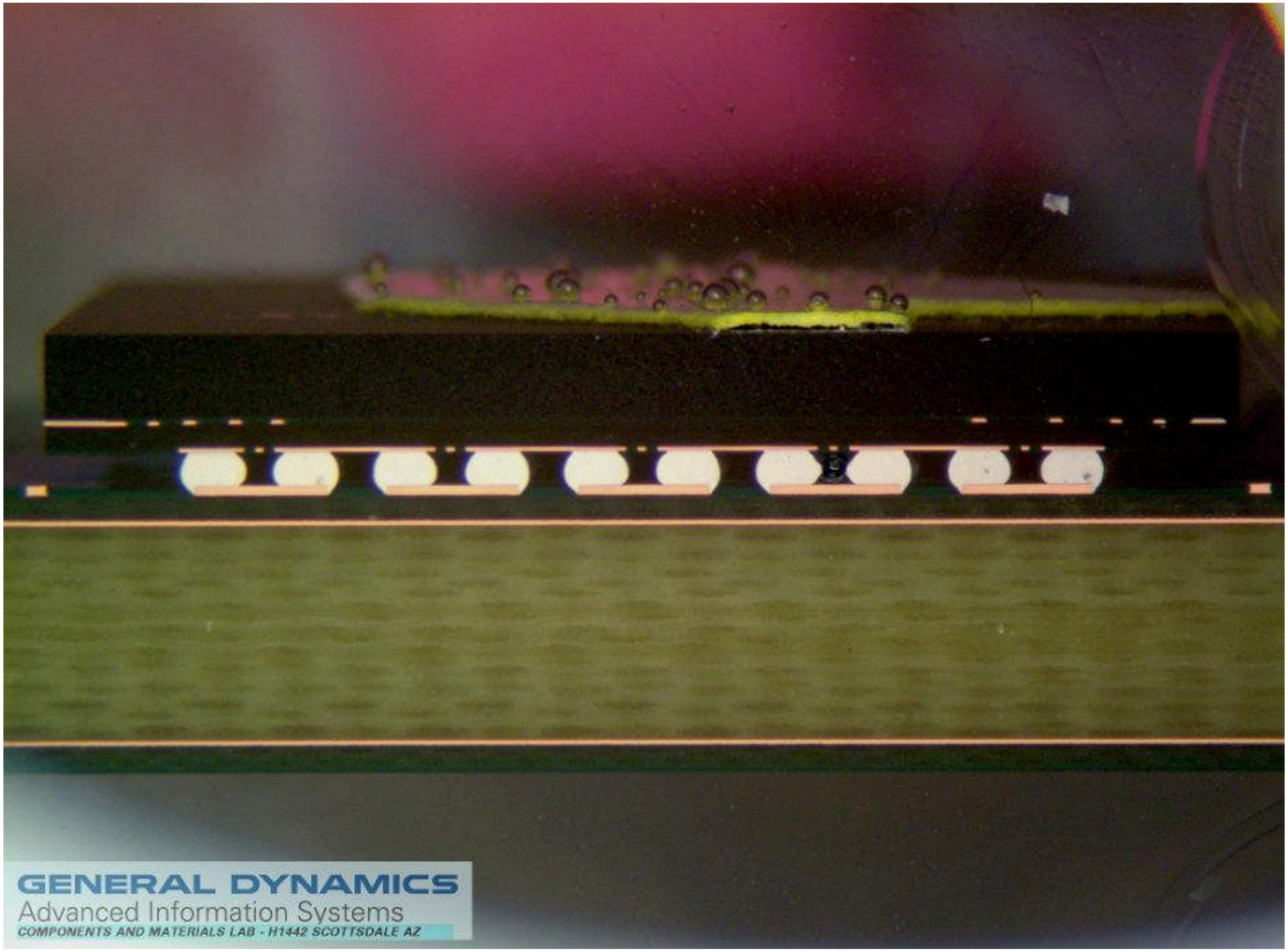
SN93 - Lead-Free Manufactured; Thermal Cycle and Combined Environments Test Vehicle

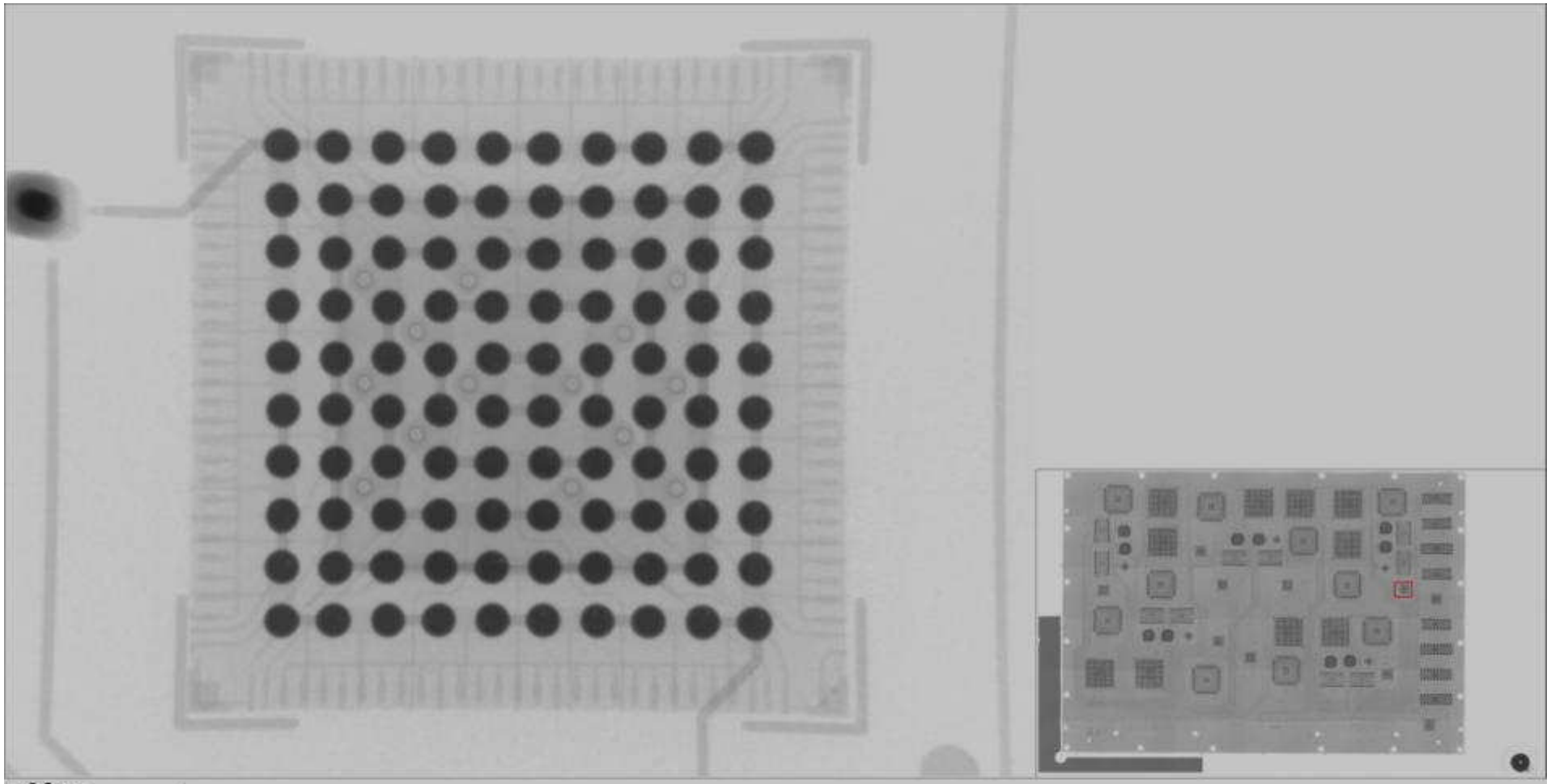
- Assembly Profile – Lead-Free
- Reflow Solder – SAC305
- Wave Solder – SN100C
- Board Finish - ENIG



U37 – CSP-100
SAC105 Finish

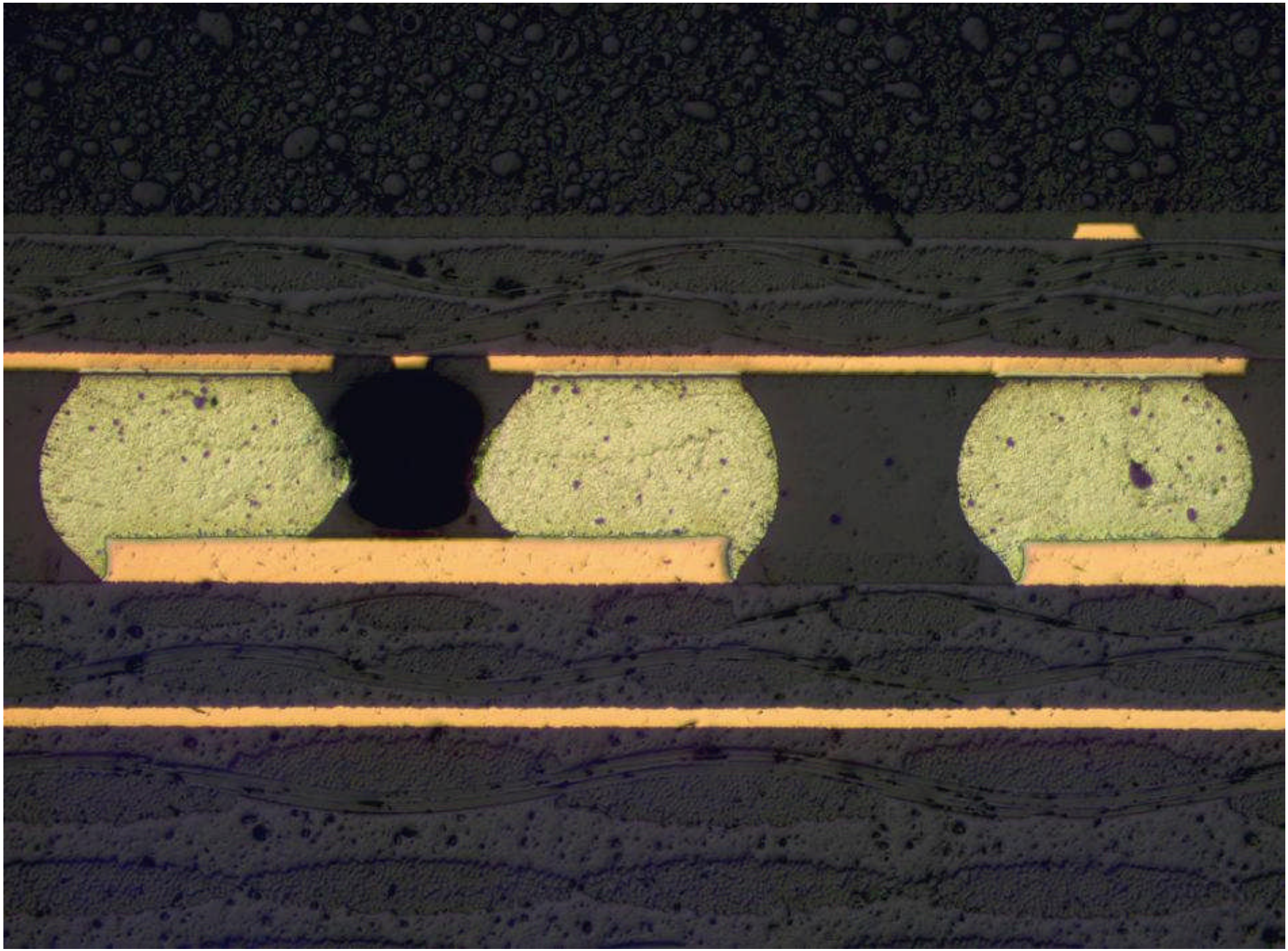


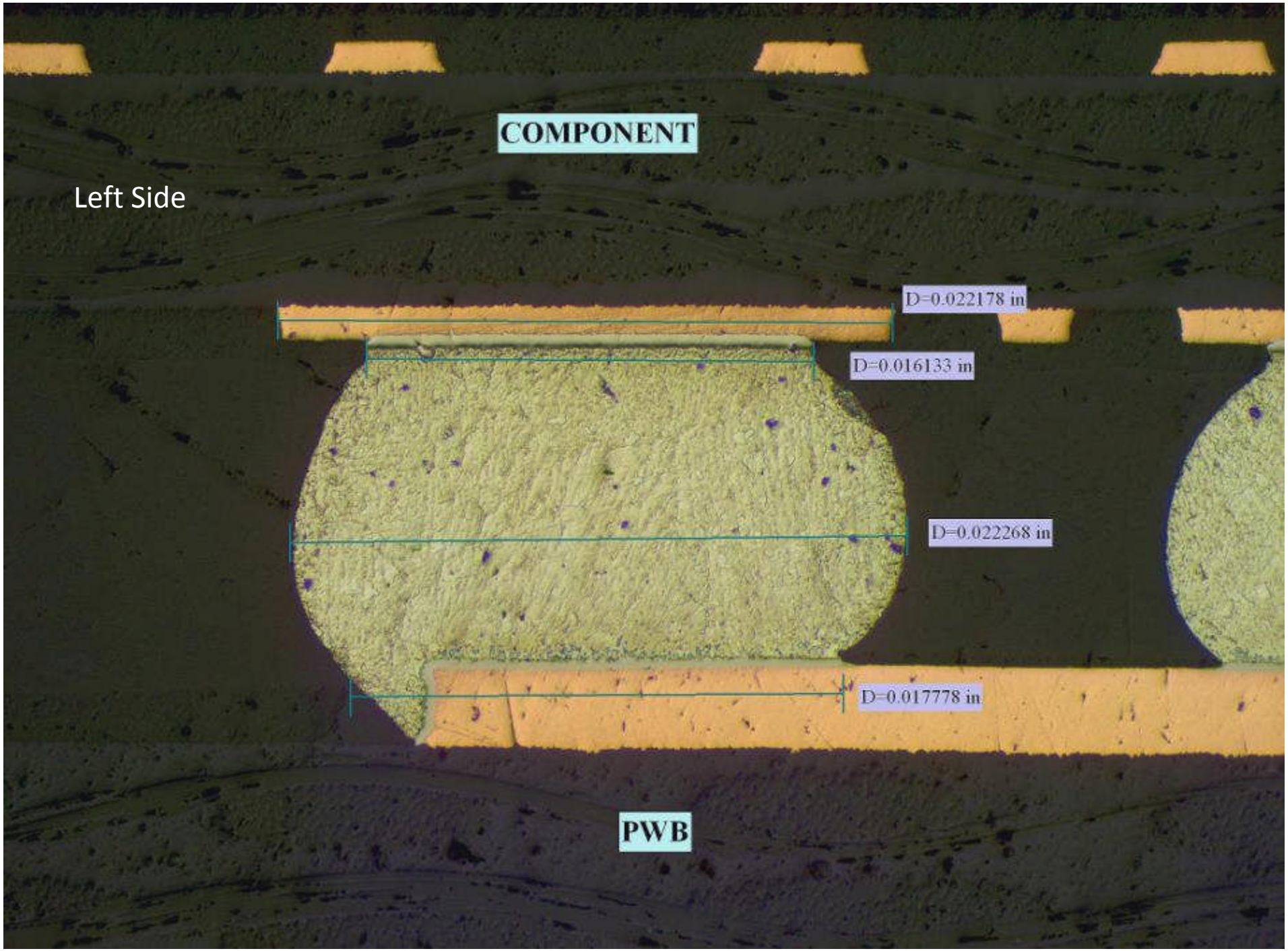

GENERAL DYNAMICS
Advanced Information Systems
COMPONENTS AND MATERIALS LAB - H1442 SCOTTSDALE AZ



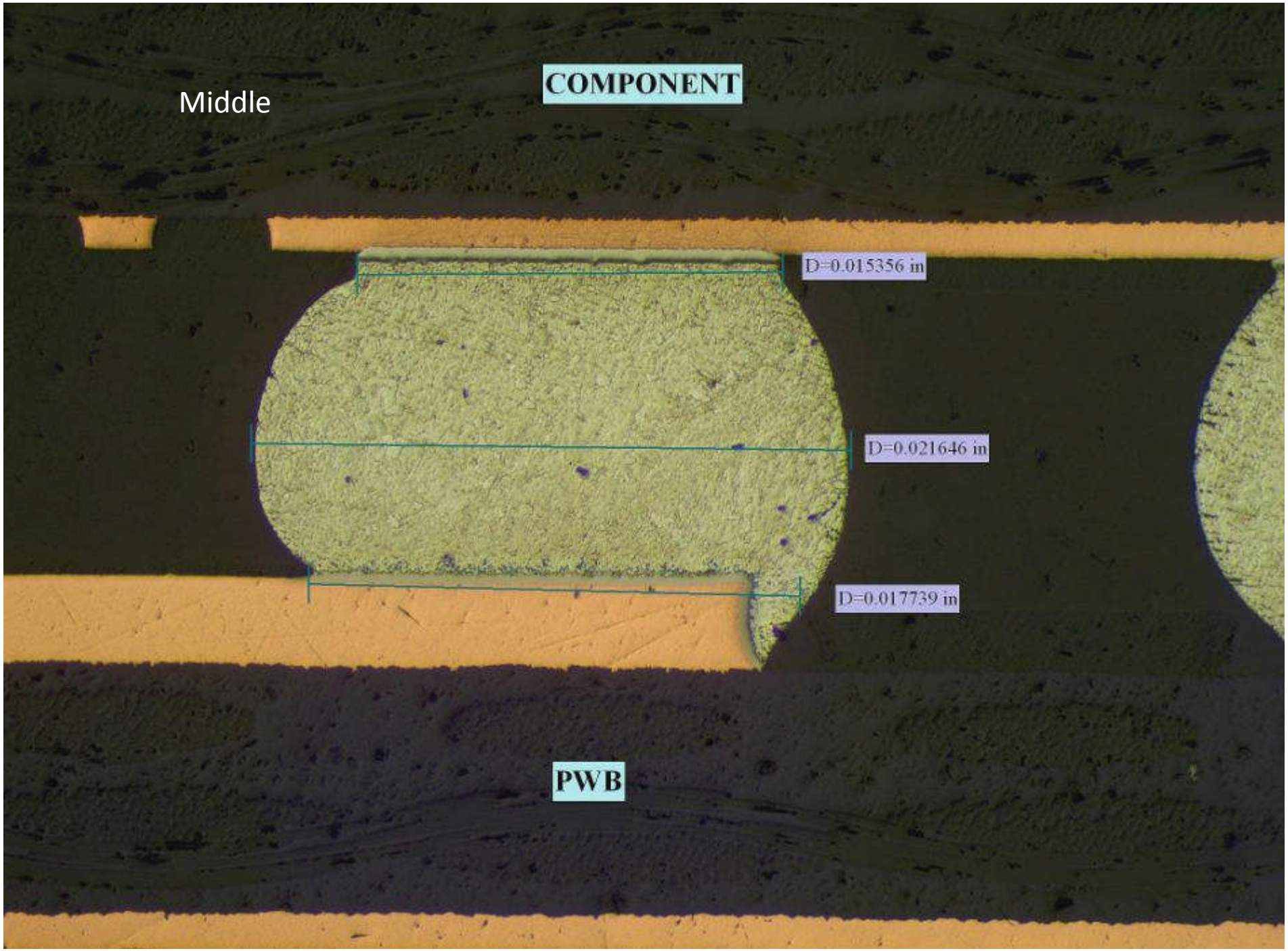
2.5mm

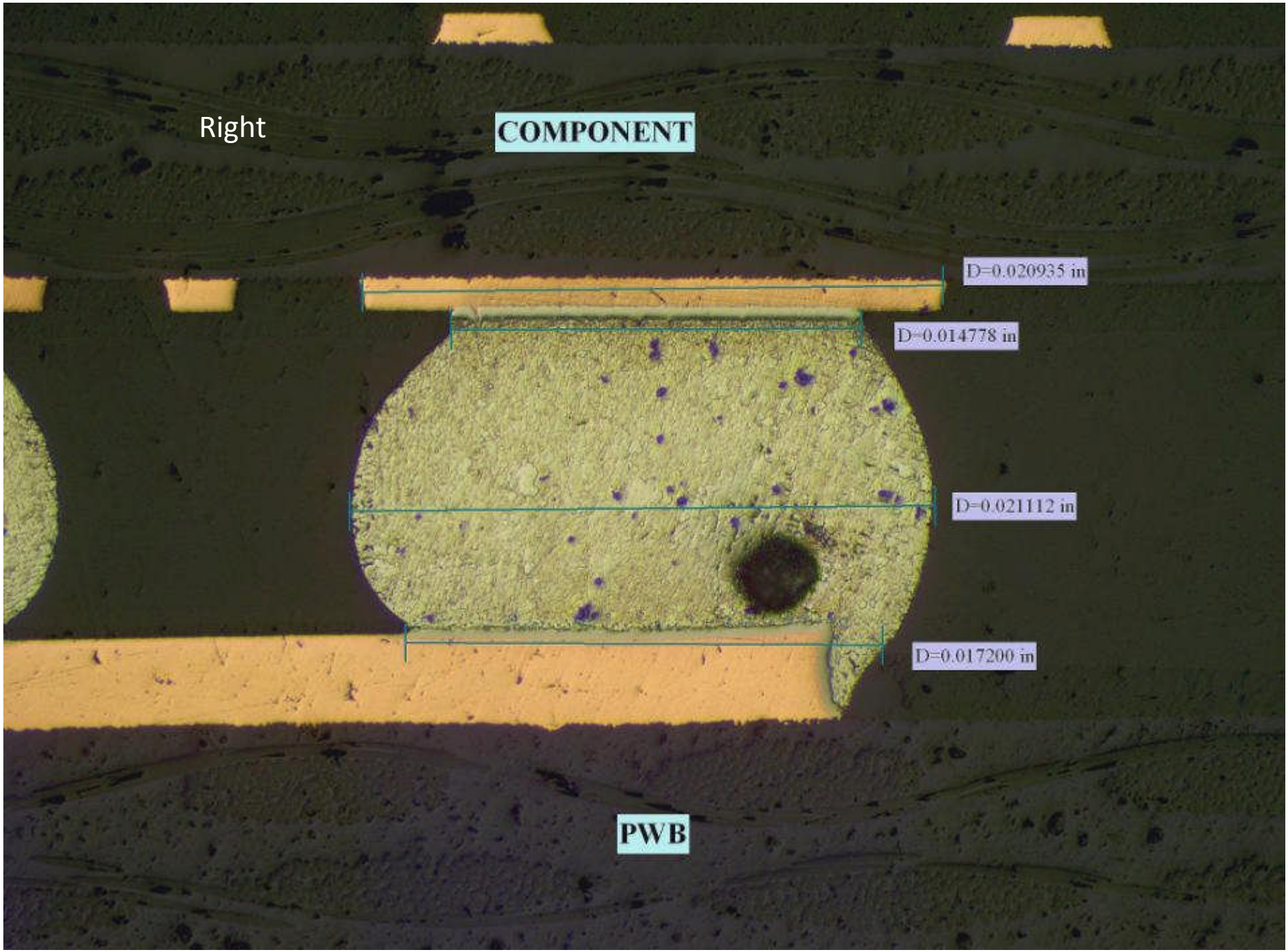
Tube voltage: 125 kV
Tube power: 2.00 W
Filter method used: None
Averaging: 256 frames

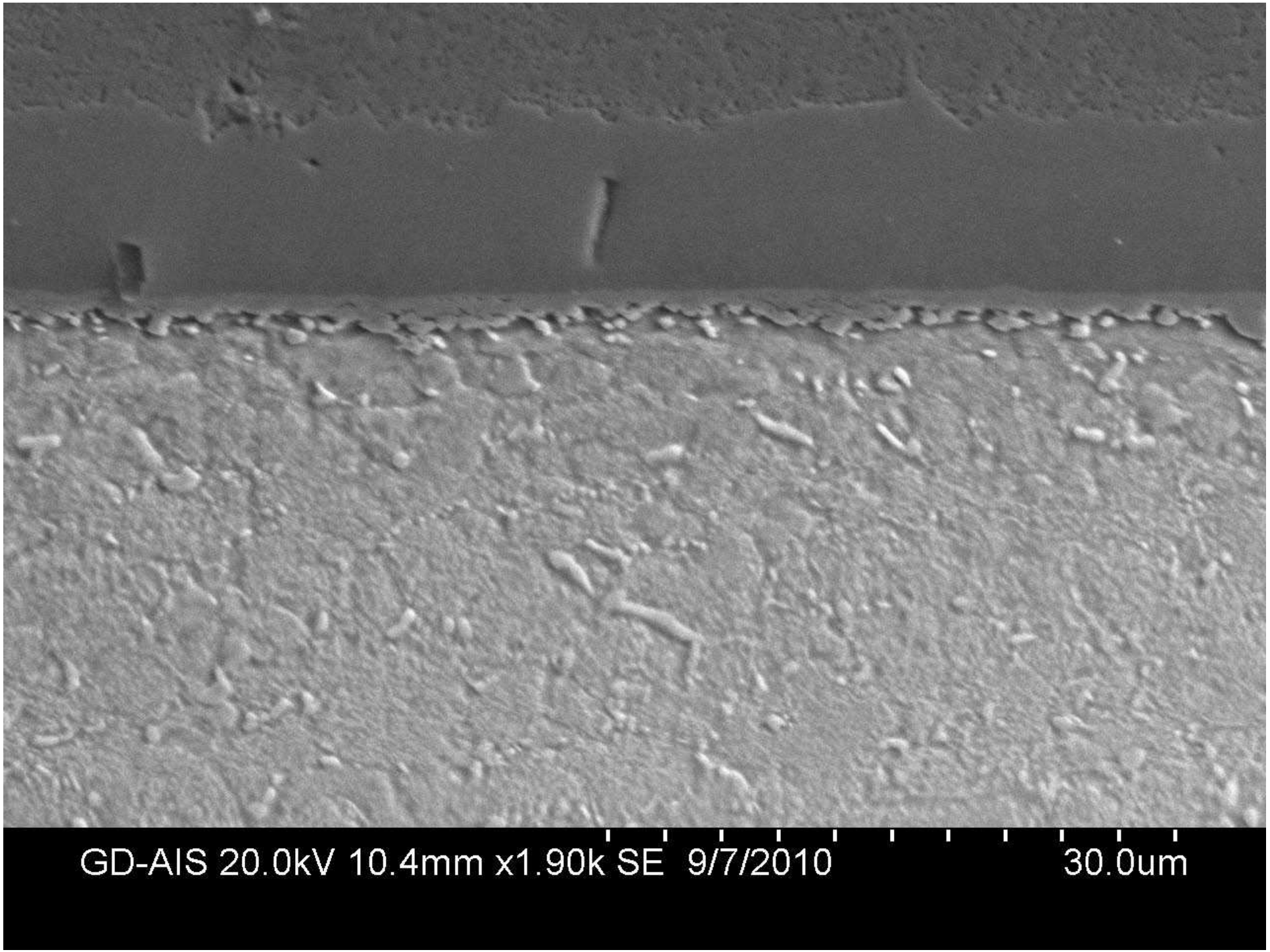


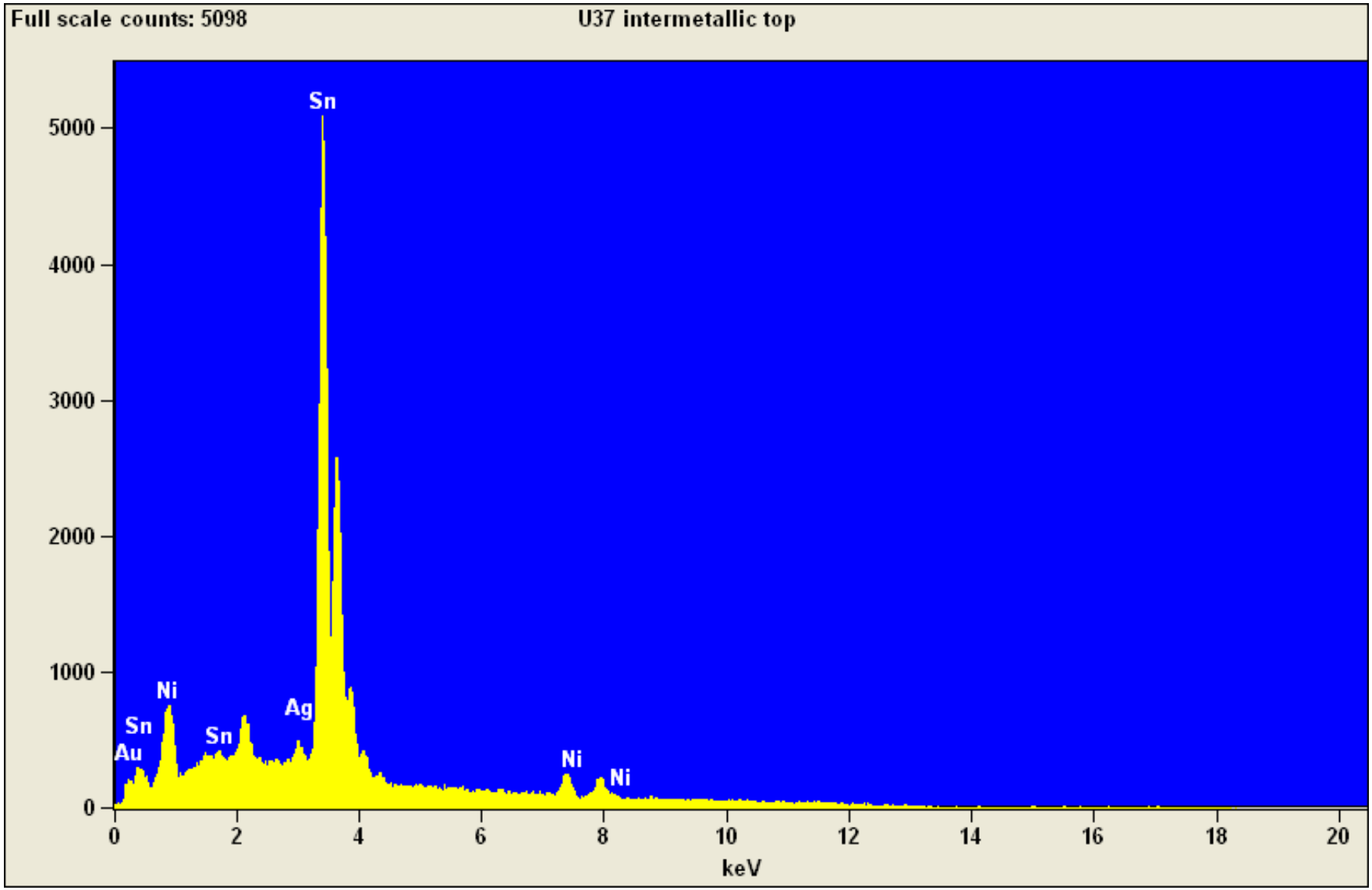

COMPONENT
Left Side
D=0.022178 in
D=0.016133 in
D=0.022268 in
D=0.017778 in
PWB

Middle



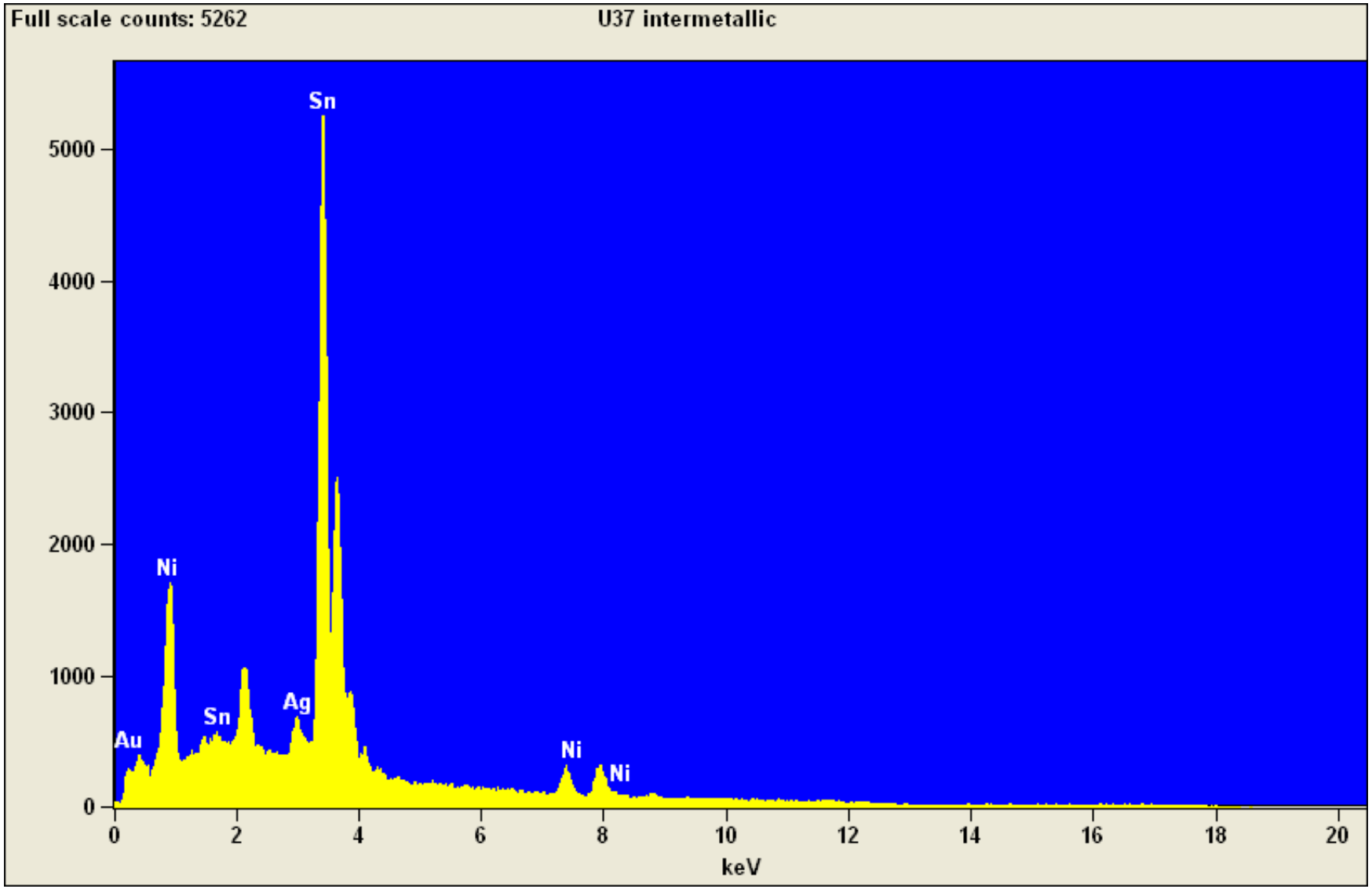

Right
COMPONENT
D=0.020935 in
D=0.014778 in
D=0.021112 in
D=0.017200 in
PWB


GD-AIS 20.0kV 10.4mm x1.90k SE 9/7/2010
30.0um



Quantitative Results for: U37 intermetallic top

Element Line	Weight %	Atom %
Ni K	5.26	10.08
Ag L	0.00	0.00
Sn L	94.74	89.92
Total	100.00	100.00



Quantitative Results for: U37 intermetallic

Element Line	Weight %	Atom %
Ni K	6.00	11.39
Ag L	3.88	4.00
Sn L	90.12	84.61
Total	100.00	100.00