



HOW TO REMOVE

FLUX RESIDUES

FROM PCBAs

PCB CLEANING



WHAT IS THE CUSTOMER'S STORY?

The customer uses **KOKI soldering paste**. Its flux residues are very **difficult to remove from PCBAs**. Furthermore, the customer truly cares about the high quality of the production, so they tear off the components from PCBAs to be sure about the perfect **cleanliness even under the components**. This is a technically demanding application.

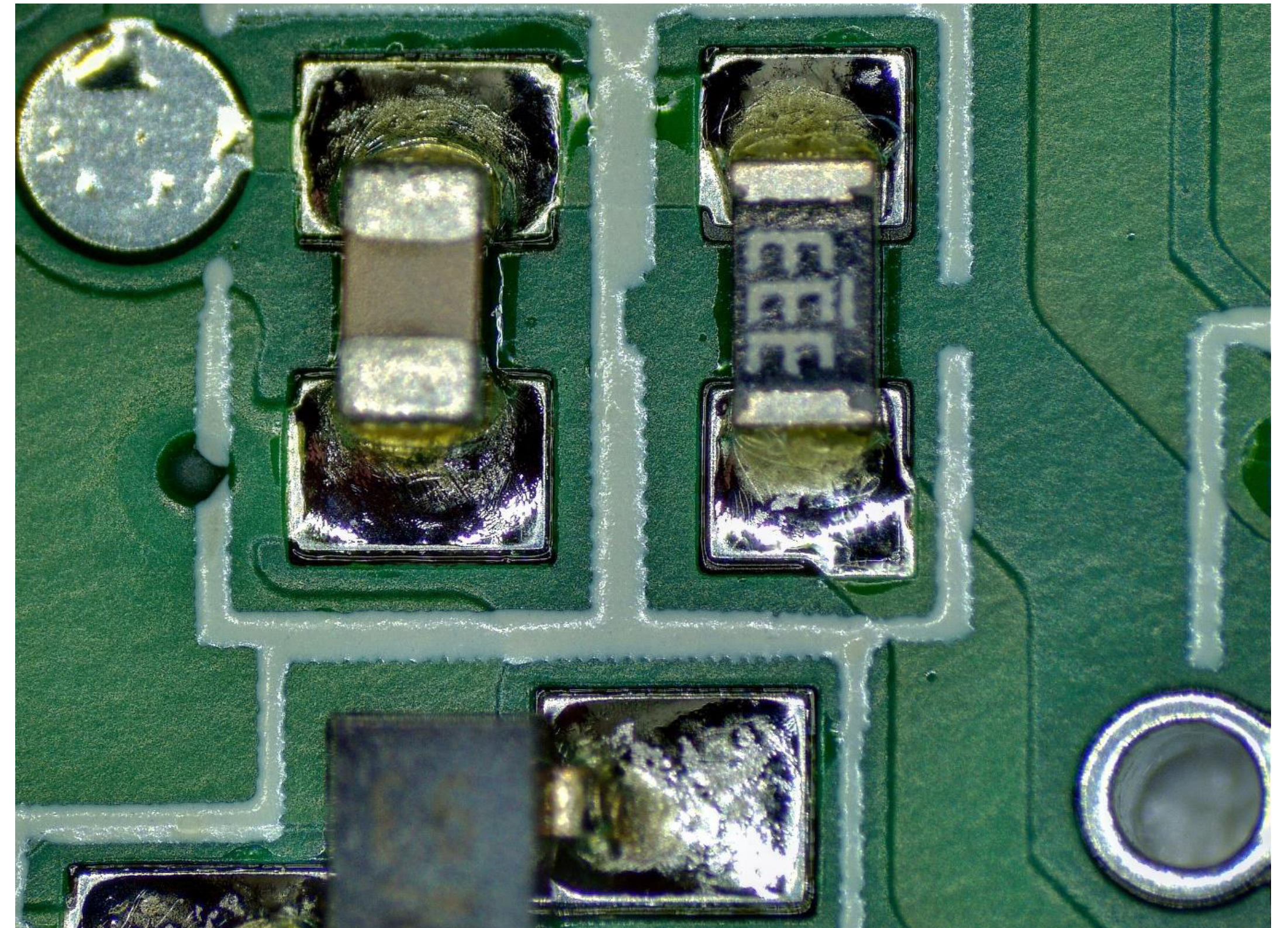
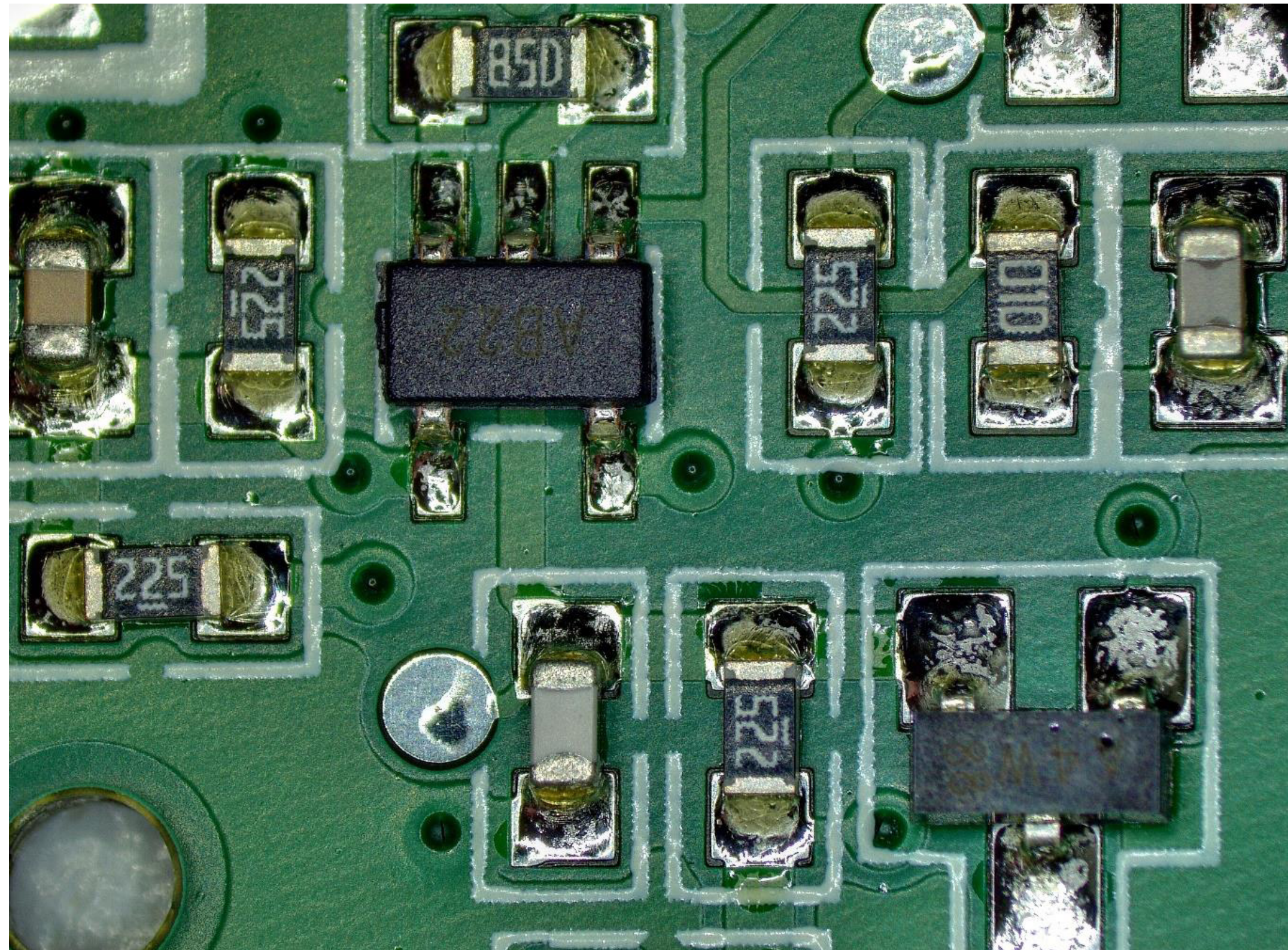


WHAT WE TESTED?

We tested how to clean flux residues from PCBs after soldering process.

PCBAs Before Cleaning

Type of Solder Paste: KOKI S3X58-M500C





COMPLETE CLEANING SOLUTION BY DCT

Water-based cleaning agent
Decotron[®] CP384



Technical data sheet

Cleaning system **InJet[®] 888 CRD**
with the technology of vertical
high-pressure Spray-In-Air



Technical data sheet



see our videoreport



RECOMMENDED CLEANING PROCESS

Cleaning:
Decotron[®] CP384 / 15 min / 50°C

Drip: 180 s

Rinsing: DI Water / 5 min / 25°C

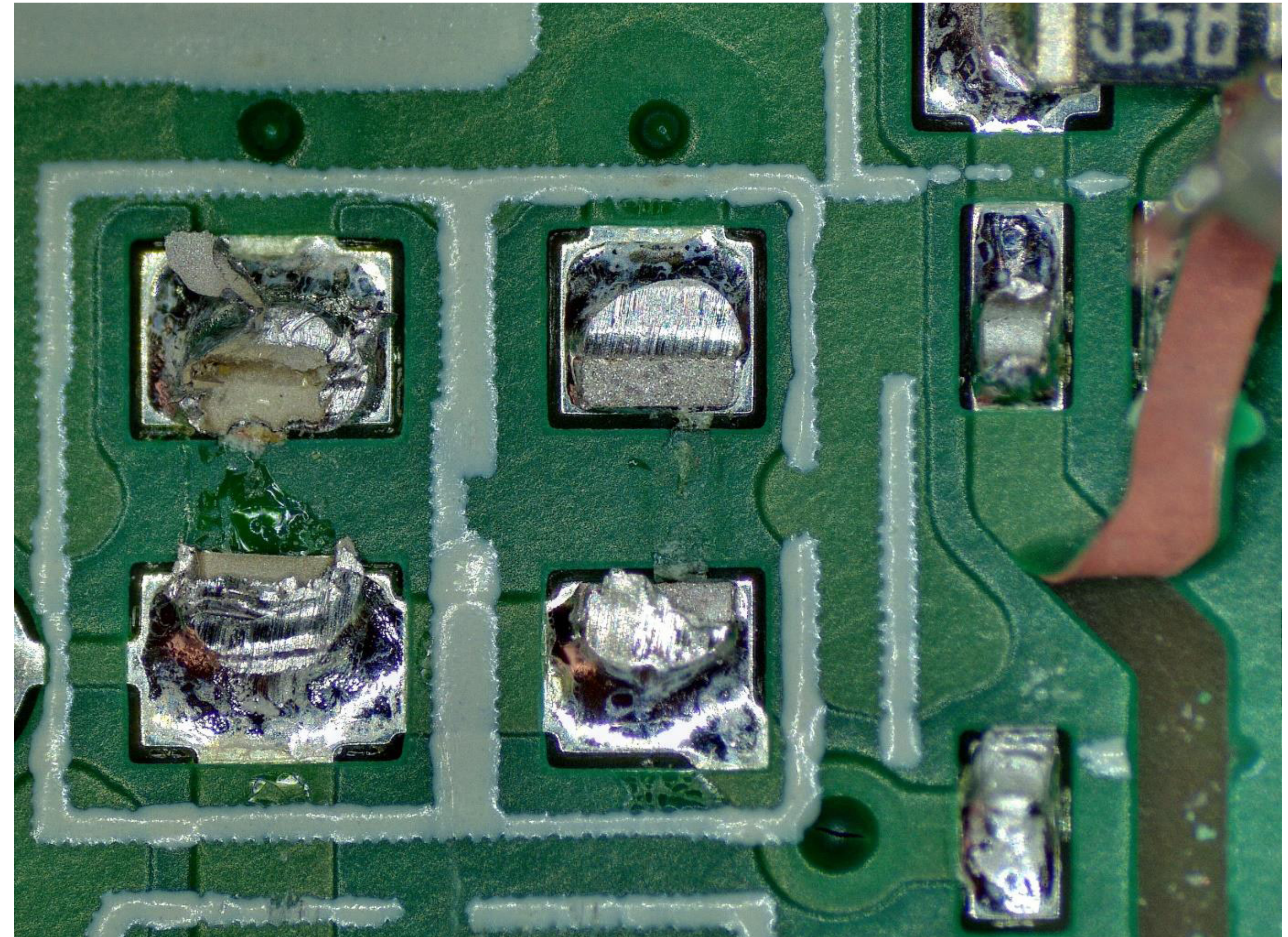
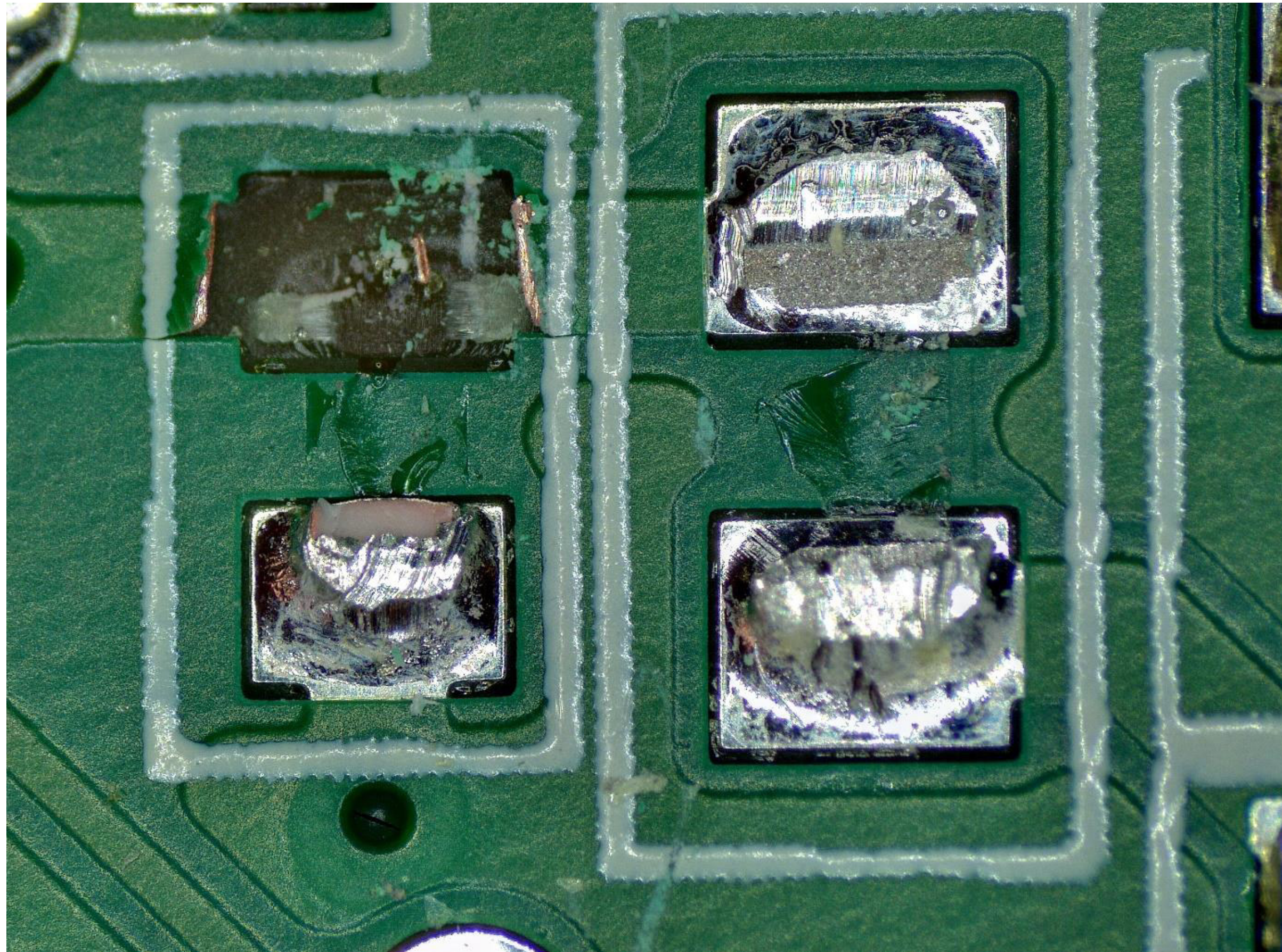
Drip: 90 s

Drying: hot air / 10 min / 80°C



*The cleaning process is **incredibly fast** thanks to our complete cleaning solution. **Only 15 minutes** has taken to perfectly clean solder paste KOKI S3X58-M500C from PCBs after the soldering process!*

Example of Insufficient Cleaning Time (1 min.)





RECOMMENDED CLEANING AGENT



Decotron® CP384

Technical data sheet



- Water-based cleaning agent
- Determined to clean misprints and flux residues after soldering
- Provides effective cleaning under components
- Ready-mix, intended for direct use



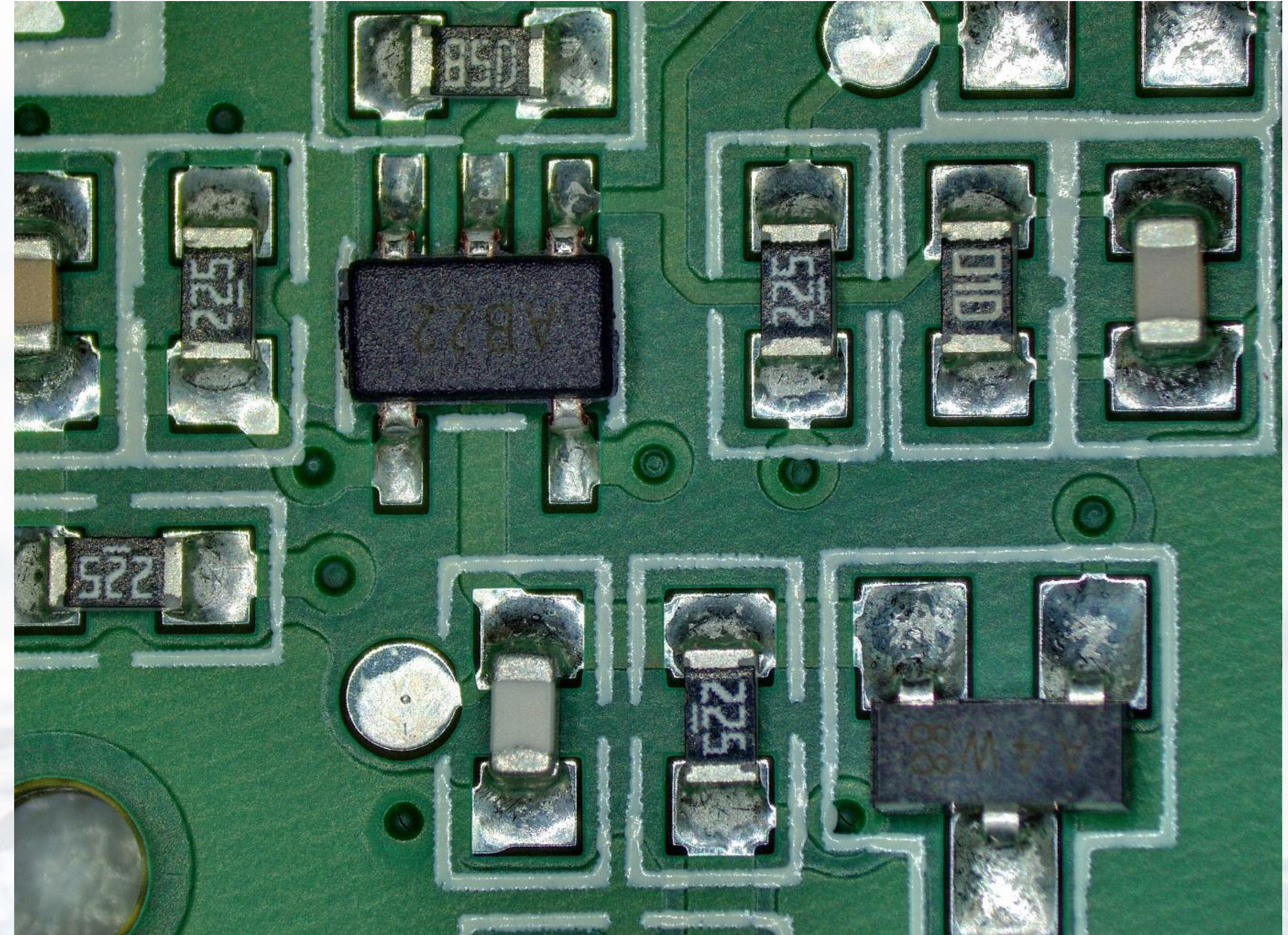
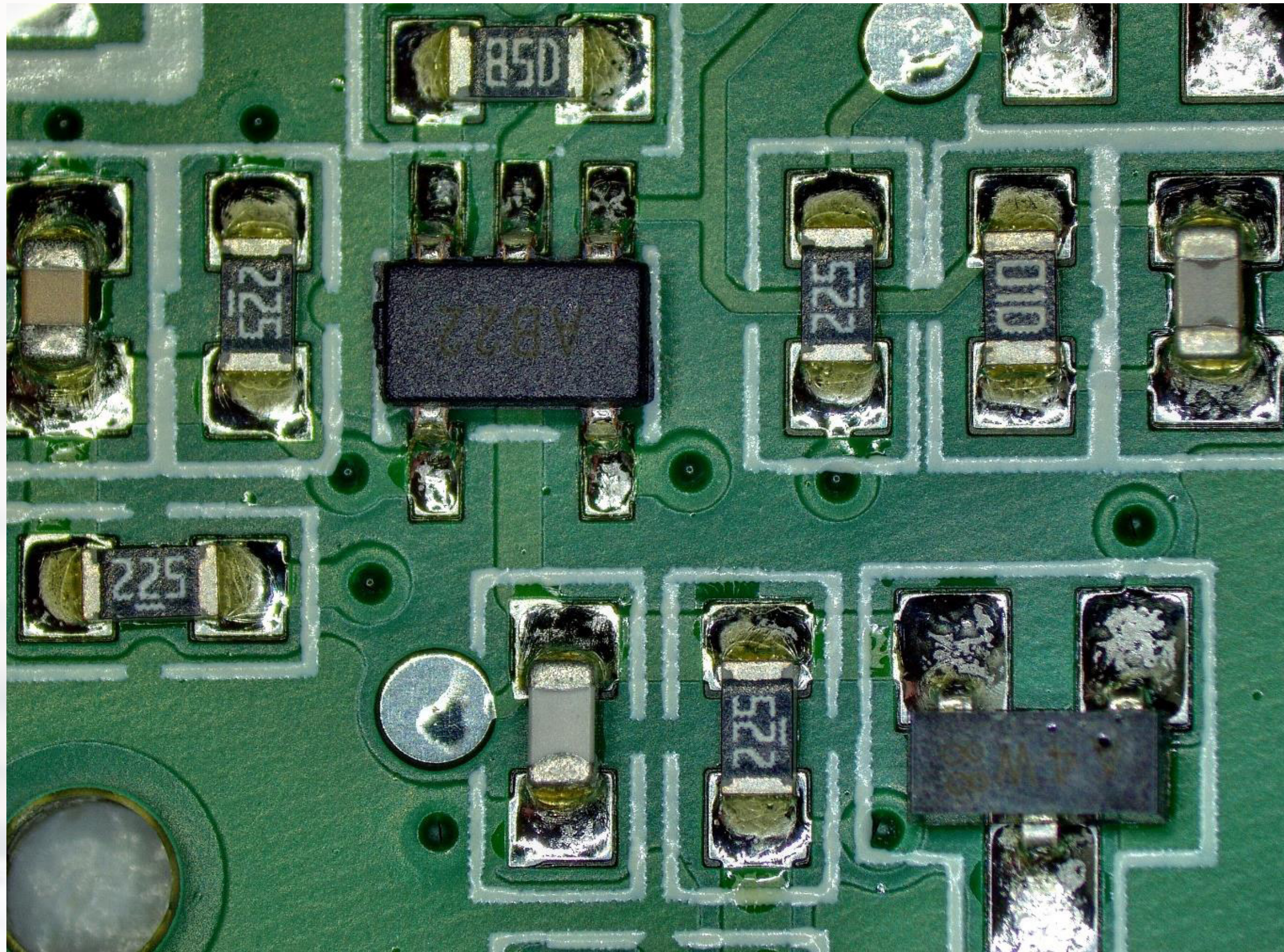
*New cleaning fluid **Decotron® CP384** was successfully introduced to several customers, who struggled to clean flux residues of solder paste **KOKI S3X58-M500C** from **PCBAs**. The cleaning process including also our cleaning machine **Injet® 888 CRD** is able to clean flux residues even under the components!*

BEFORE Cleaning



AFTER Cleaning

with Decotron® CP384

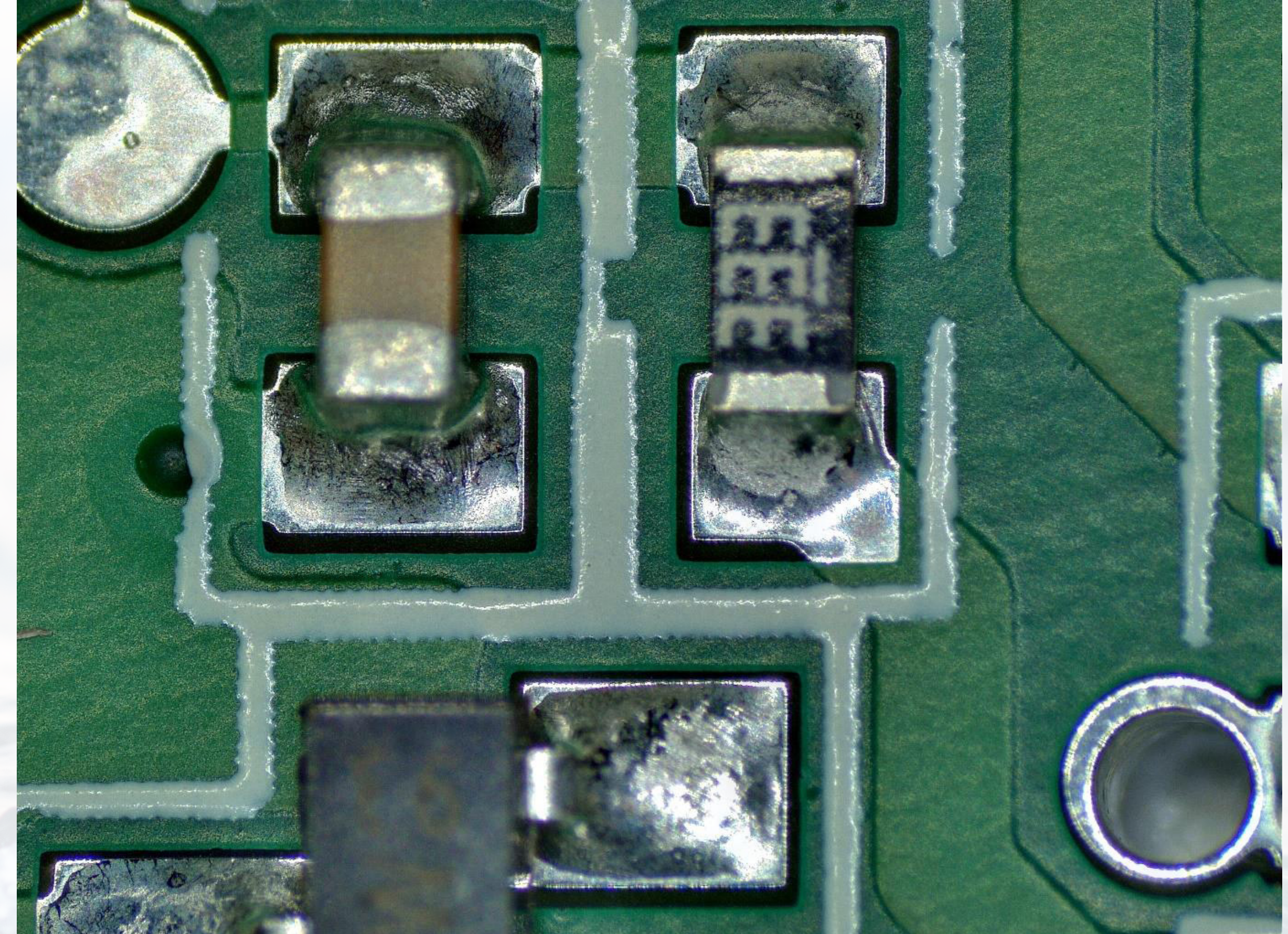
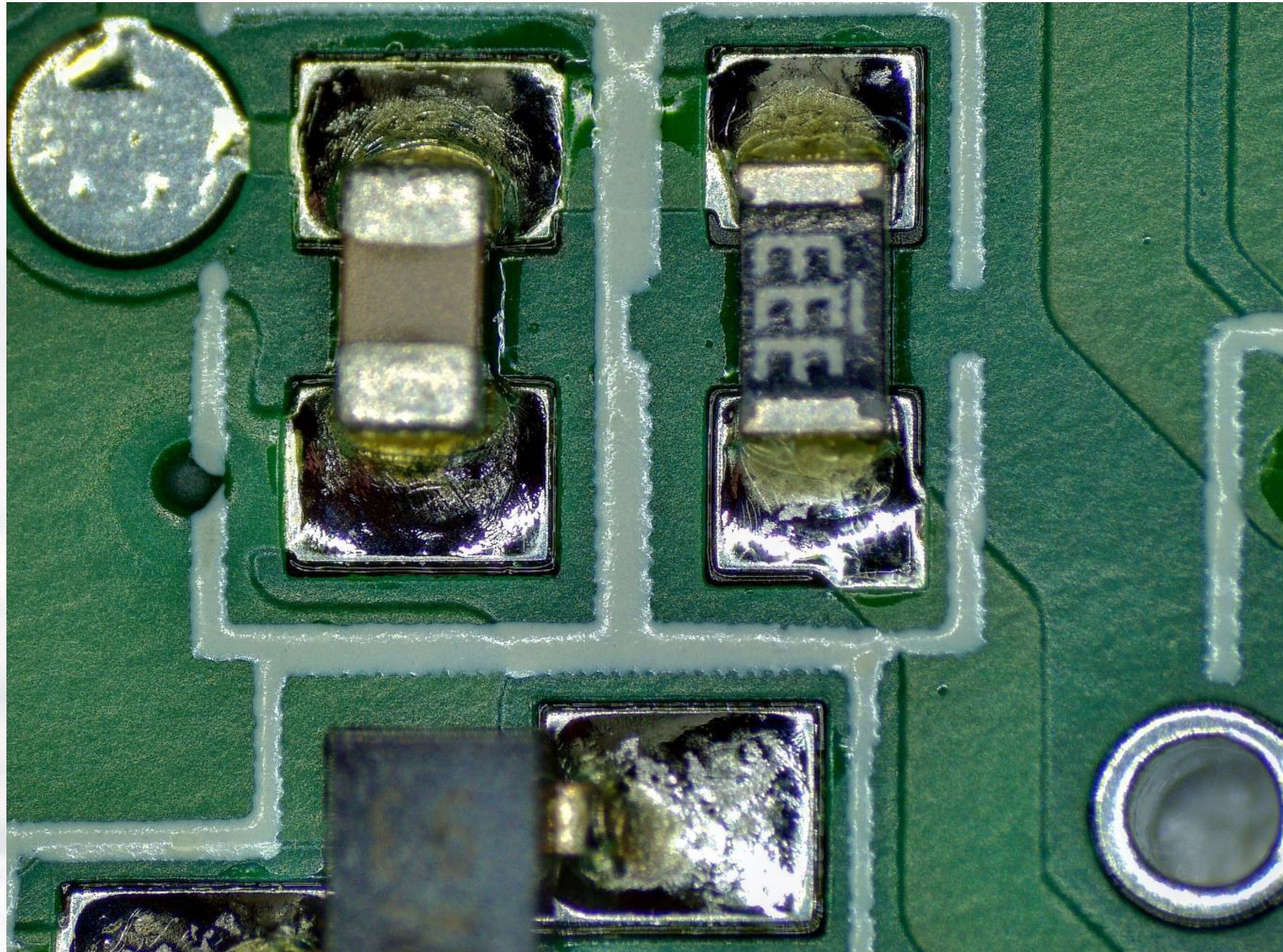


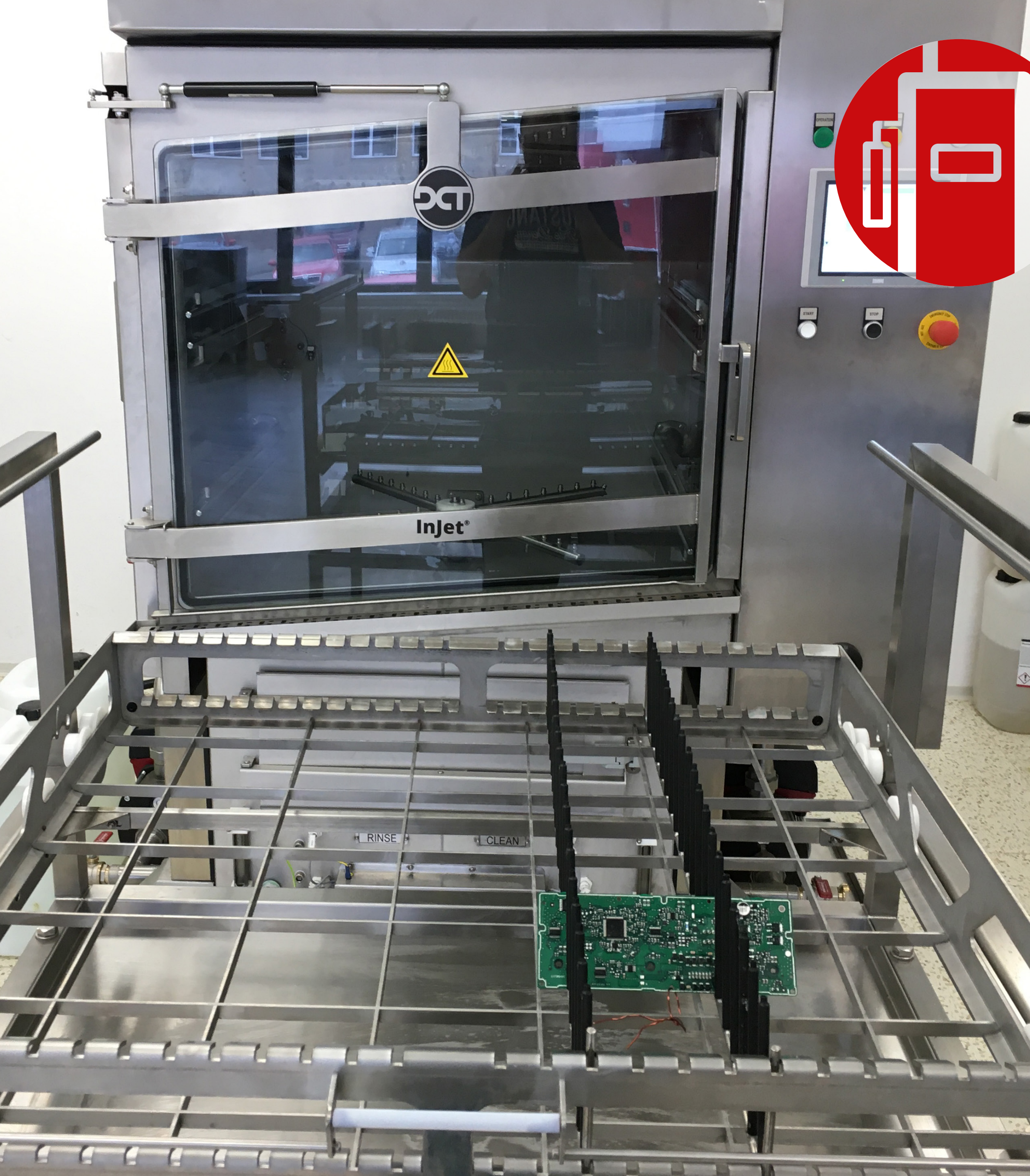
BEFORE Cleaning



AFTER Cleaning

with Decotron® CP384





RECOMMENDED CLEANING SYSTEM

InJet® 888 CRD

with horizontal high-pressure
Spray-In-Air technology

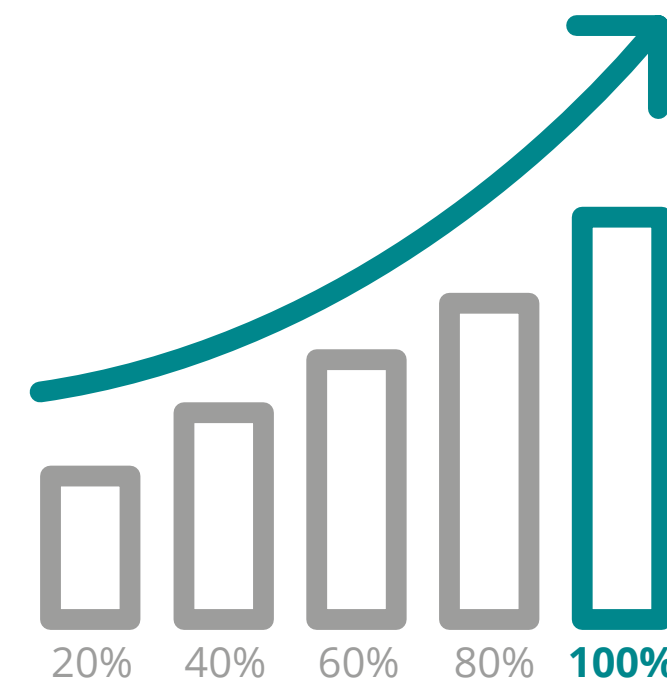
- ★★★ **REFLOW** and **SOLDERING PARTS** cleaning
- ★★ **PCB** cleaning
- ★ **STENCIL, MISPRINT, SQUEEGEE** cleaning



Technical data sheet



see our videoreport



RESULTS OF TESTING

Success rate: 100%

Because the customer uses a competitor's cleaning system with 1 chamber only, we needed to face issues connected with high cross-contamination in this process. We managed these issues by the **development of a new customized cleaning agent** for this customer. However, we would recommend implementing the cleaning system **InJet® 388 TWIN CRRD** in the future, which offers the **minimum cross-contamination thanks to its unique 3-chamber layout.**