

Visualize the invisible with Flash!

Additional explanation.

January 2020

Updated Flash! displaying more than ever before ...

This presentation is a comparison guide for CR and DDA images from various applications and industries without image enhancement, with the previous version and with new Flash!

Comment from some upgraded users: *“The updated Flash! is showing “noisy” images compared to the previous version.”*

Answer: images are indeed represented more “noisy”, the result of visualising the ultimate out of the available digital data.

After a closer look, one notices that **detail definition** and **contrast** has highly improved, resulting in:

- improved probability of detection (POD)
- more visible details with higher distinctiveness
- increased visibility of inner & outer wall and erosion / corrosion
- better distinction between system artefacts and object flaws, defects and indications

What is Flash!

Reveals what is important, does not emphasize what is irrelevant, but derives all indications from the raw image, which is the ultimate truth.

Flash! is based upon a patented image enhancement algorithm that is **visualising** the embedded image data in a more clear way for the human eye, resulting in faster reading **without image manipulation!**

Flash is:

NOT a filter that is modifying image data to find defects easier

NOT a filter that is helping you to find more defects

Updated Flash! showing more than ever before ...

Users that were used to the previous version of Flash! , will need to adapt to the updated representation of images with the new Flash!

Question to customer: **what are you looking for, the reality or a good looking image ?**

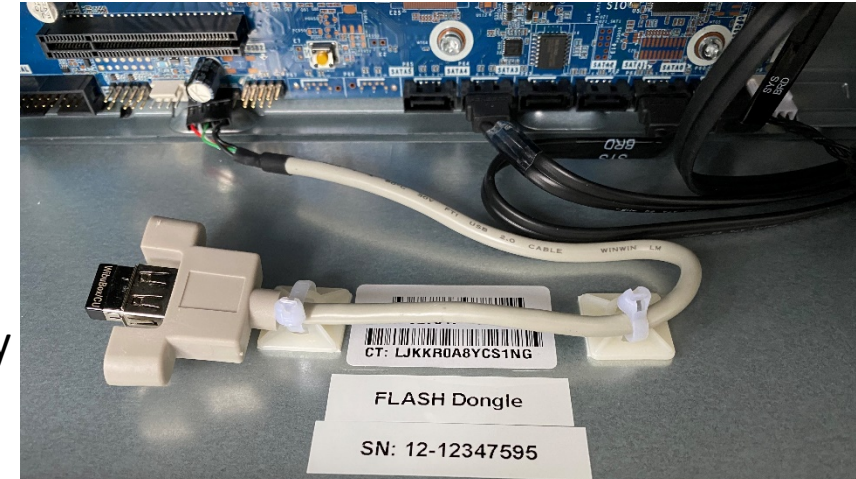
Remember, when activating Flash!

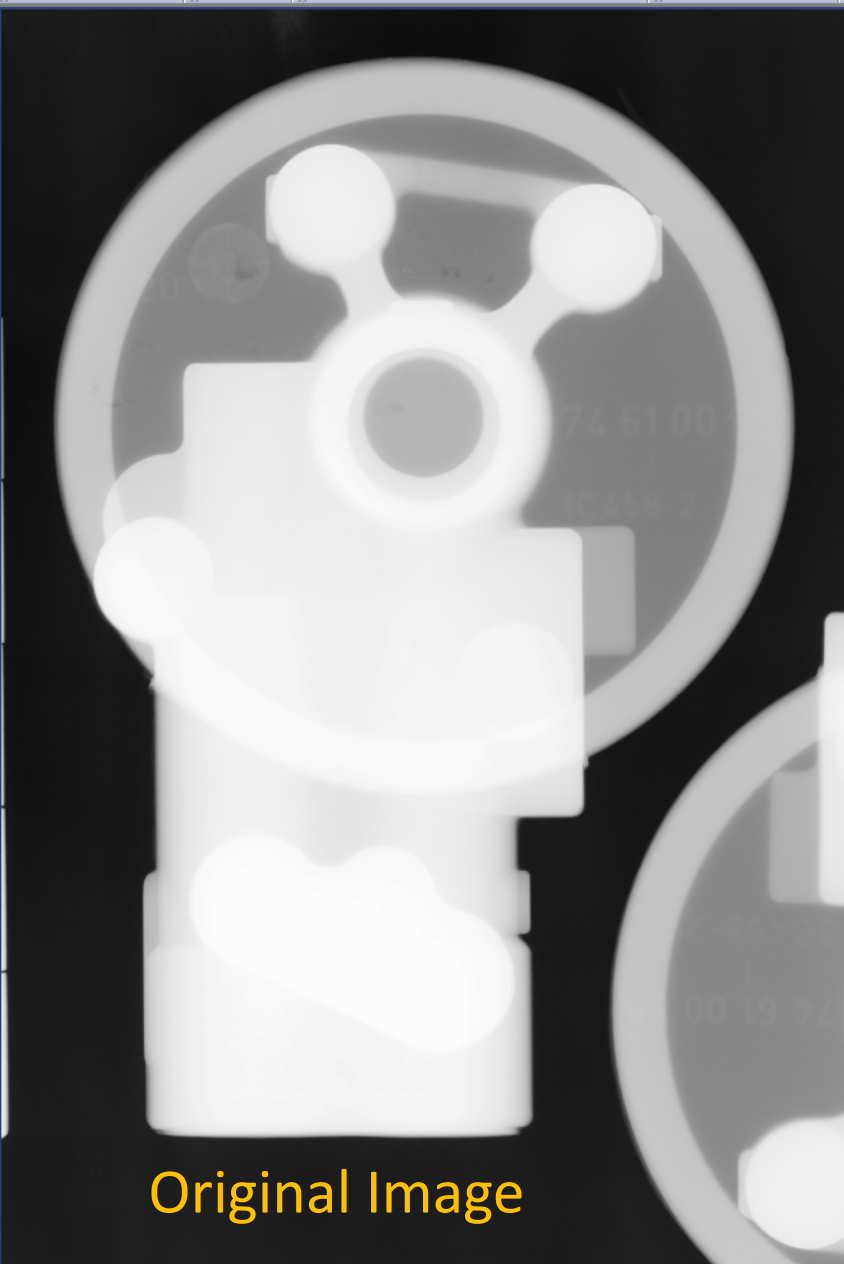
- Providing consistent results, operator independent
- 1,000 calculations per pixel are performed (**±60,000,000,000** for a 14x17" image @ 50μ)
- No masking, hiding or pre-processing of images
- Full representation of system induced artefacts
- The reality is shown, goodly or badly
- DICOM compliant images are represented
- The measured noise level stays the same.

Additional info

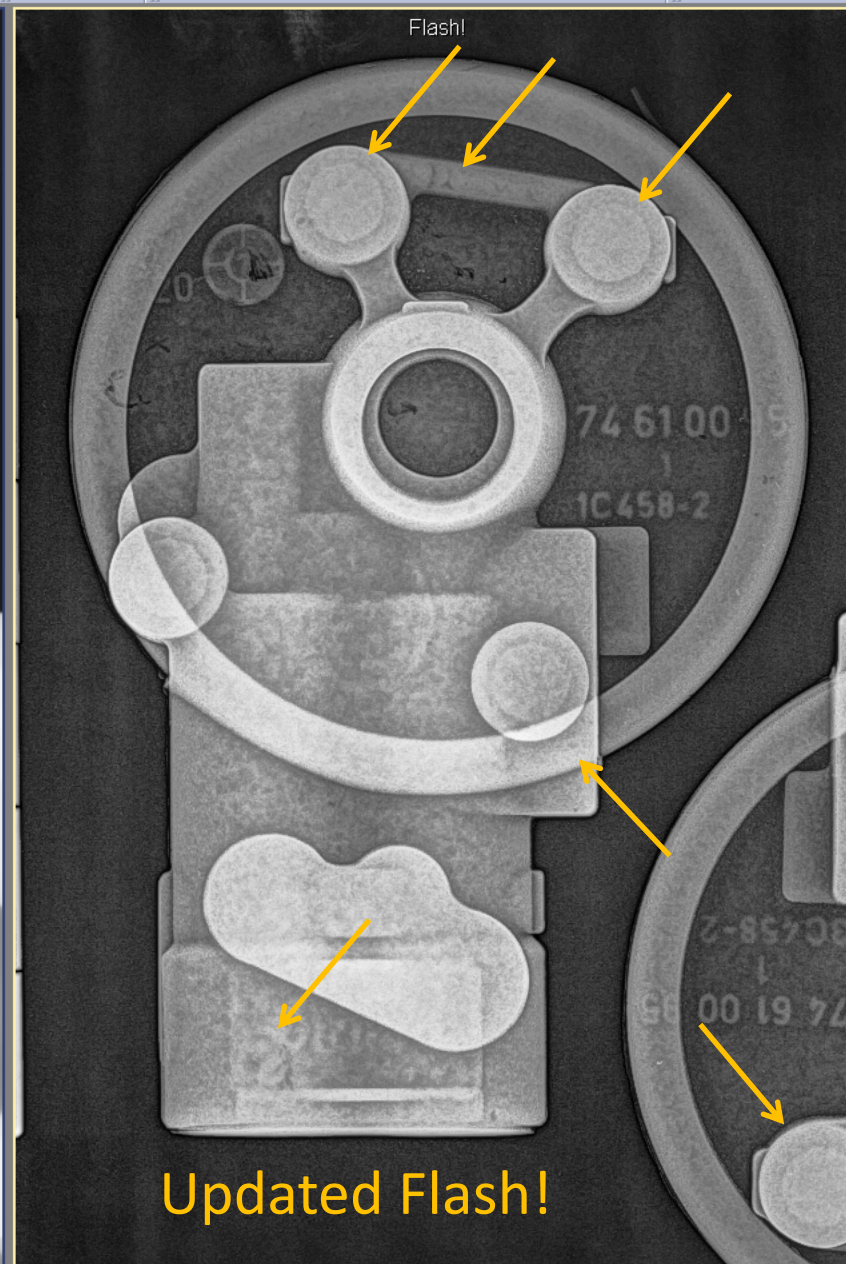
Flash! is enabled with:

- a license file (embedded in the Rhythm folders)
- a hardware dongle:
 - Micro USB dongle hidden inside the workstation (not directly accessible by customer)
 - A micro SD card for the laptops
 - When removed by end-customer, resulting in non-functional software including watermark, and grace period (30 days) starting to count down automatically, after which new license is required. This will result in additional service costs for customer.





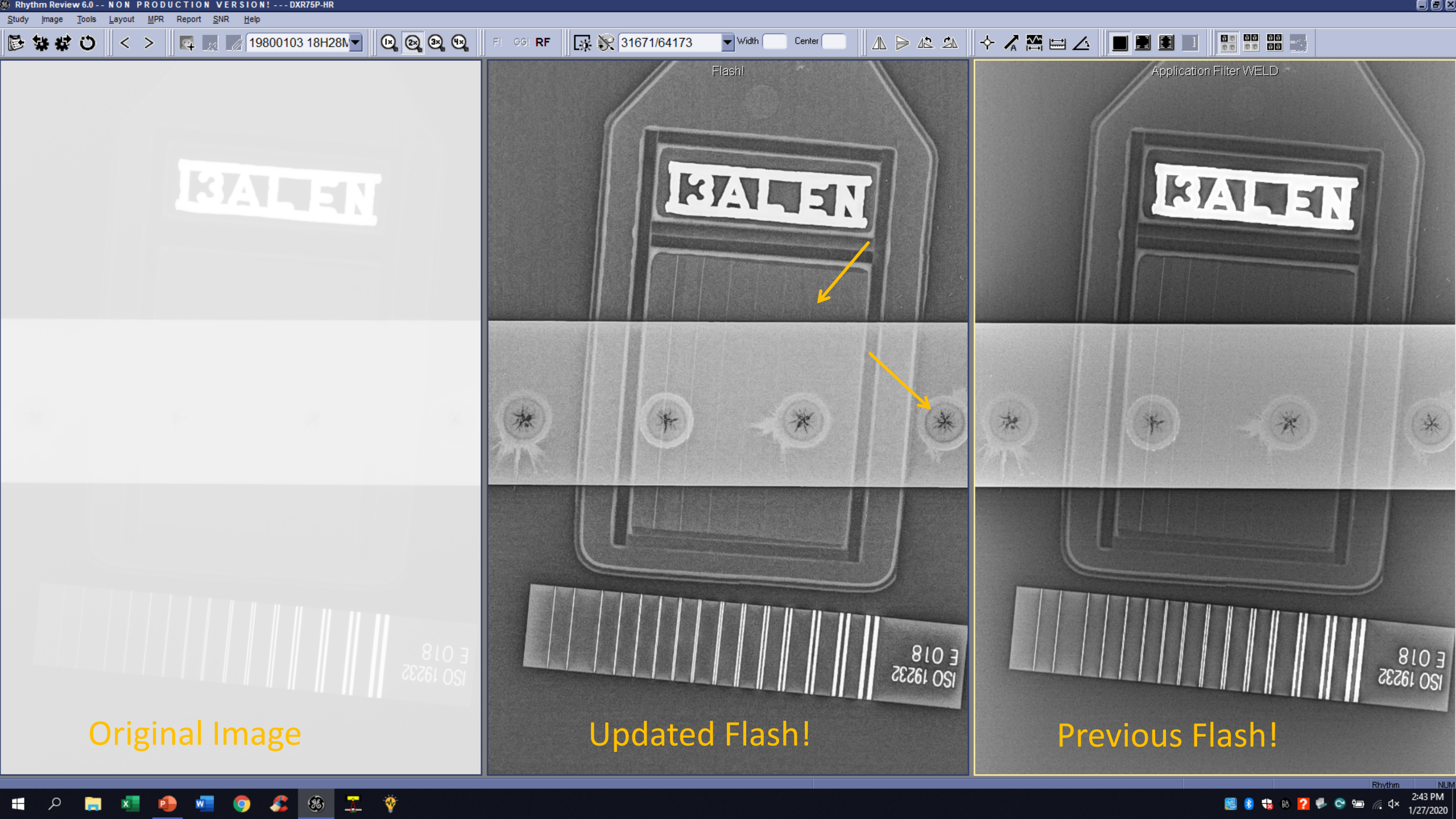
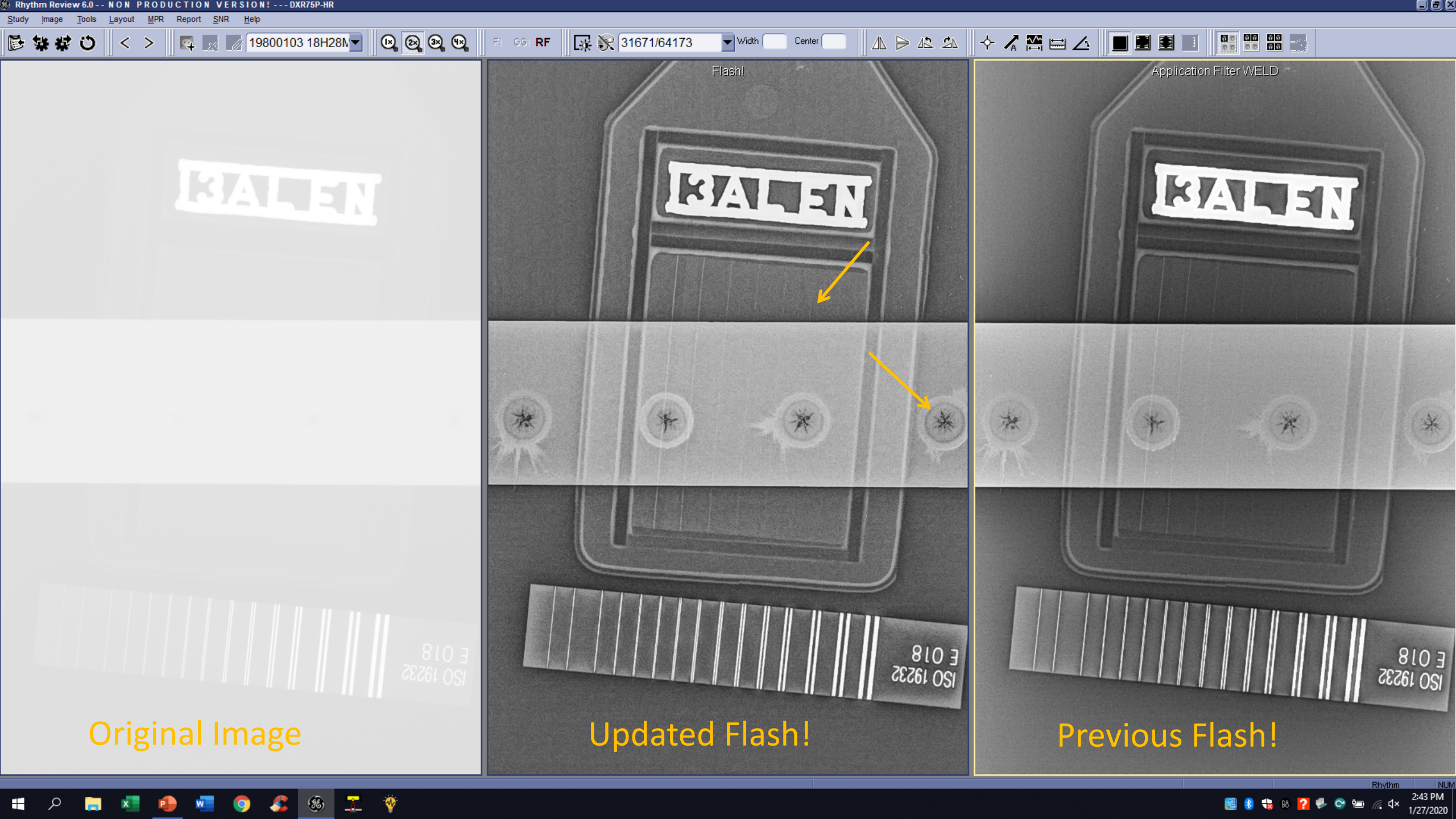
Original Image

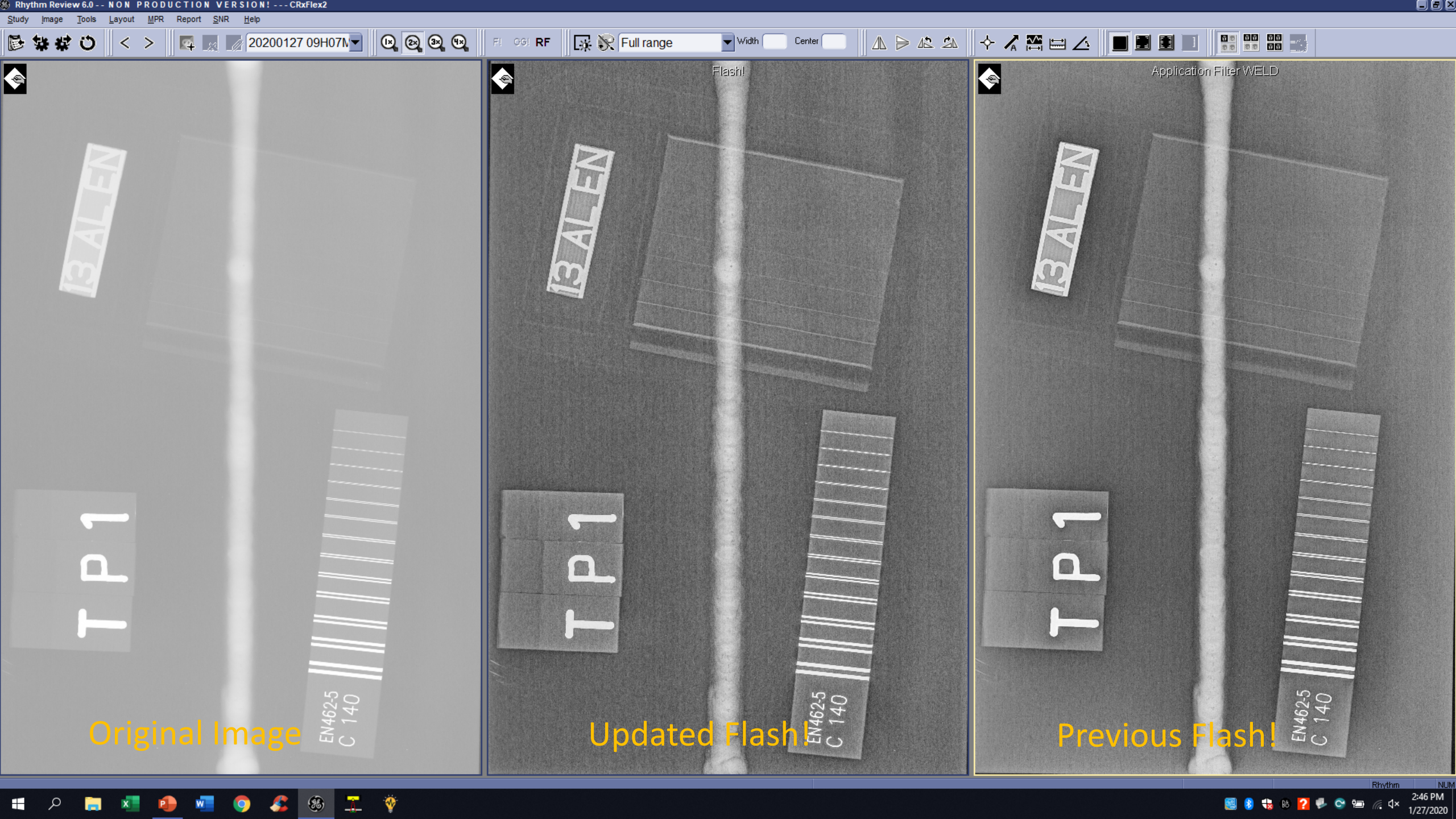


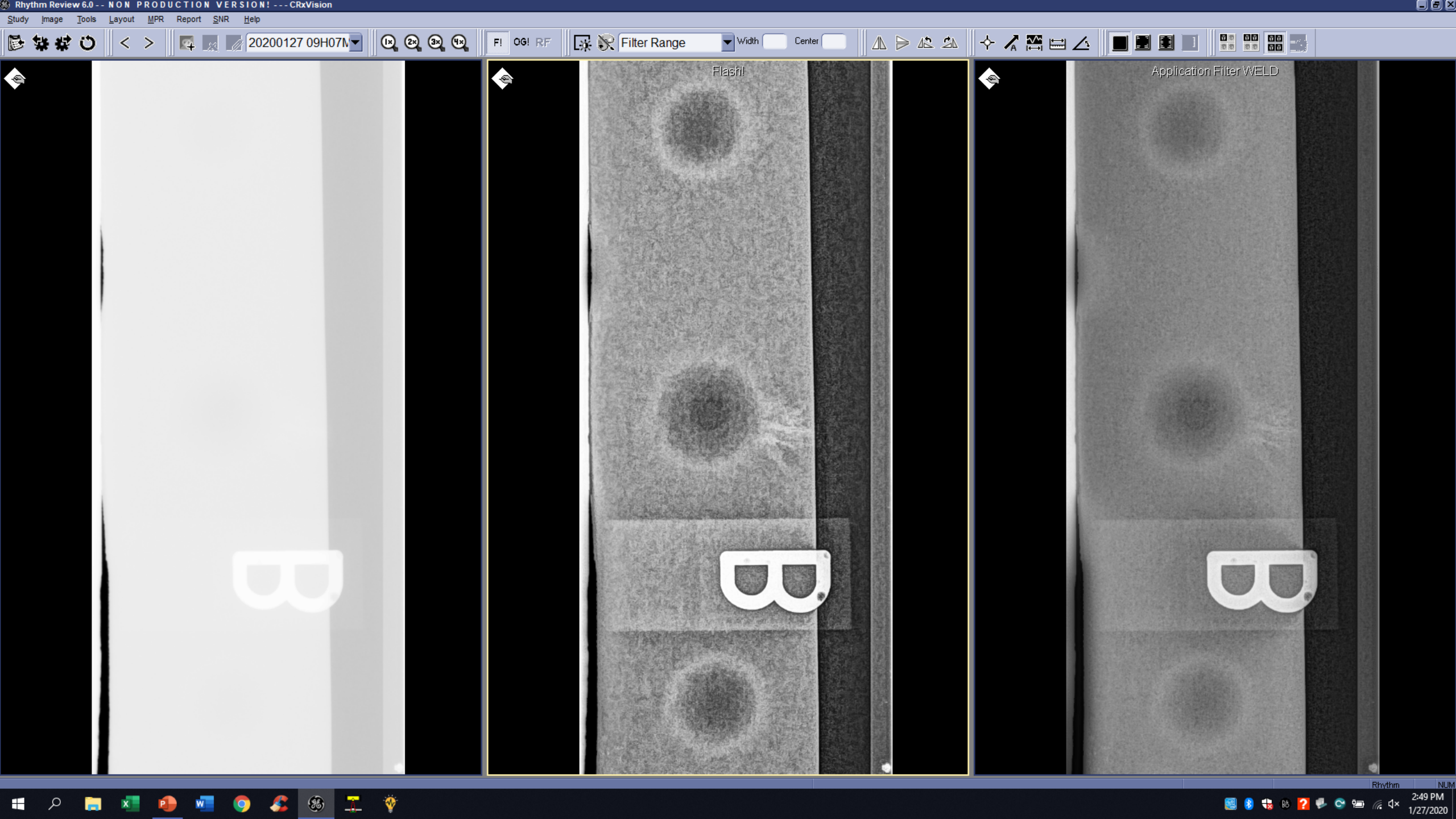
Updated Flash!

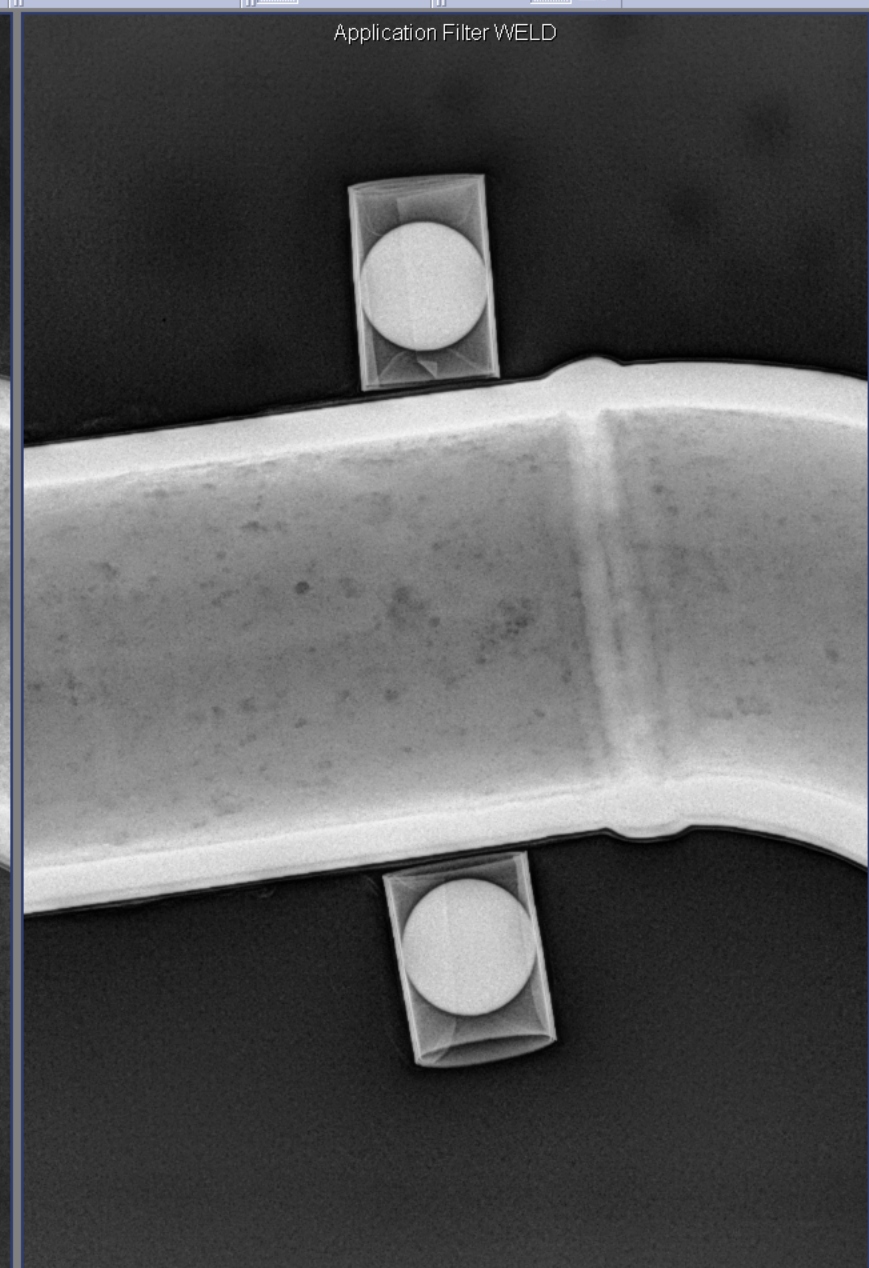
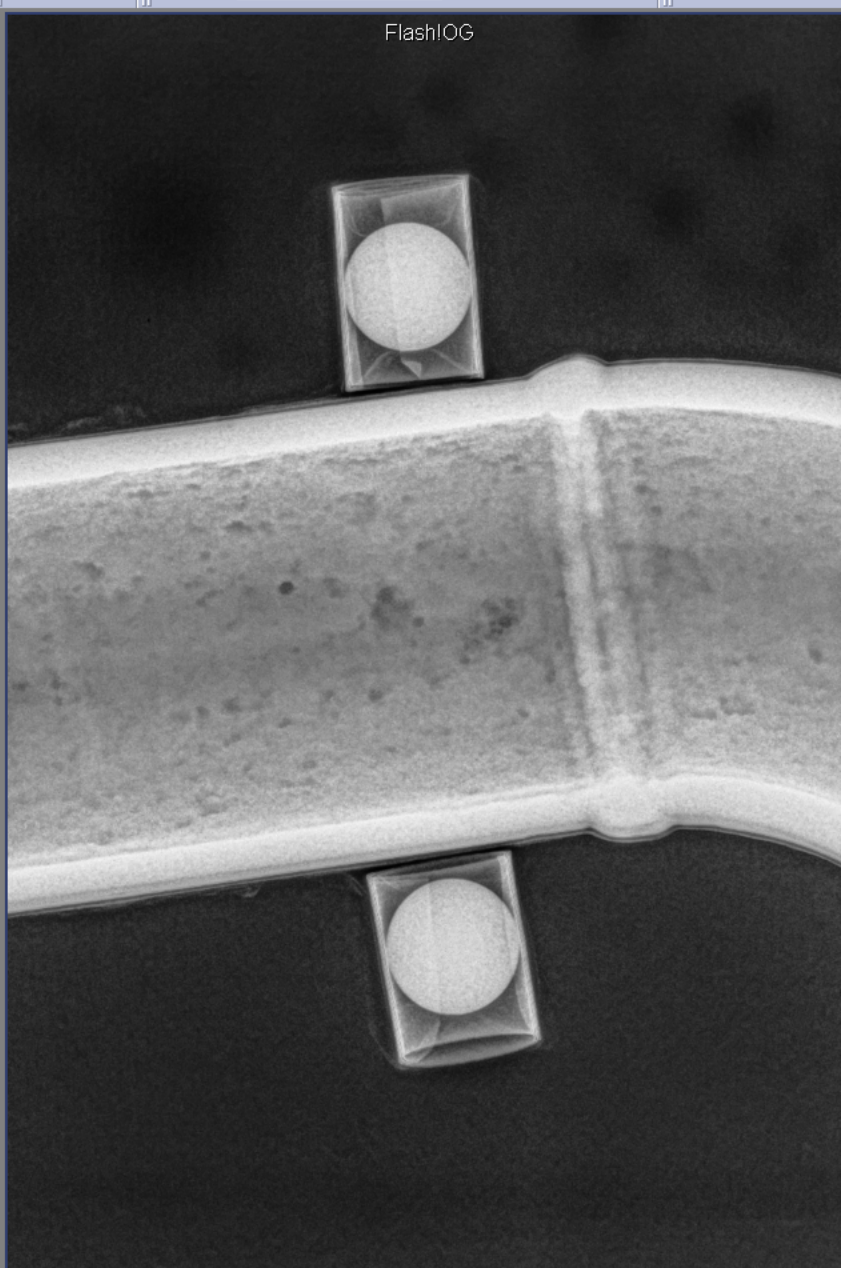
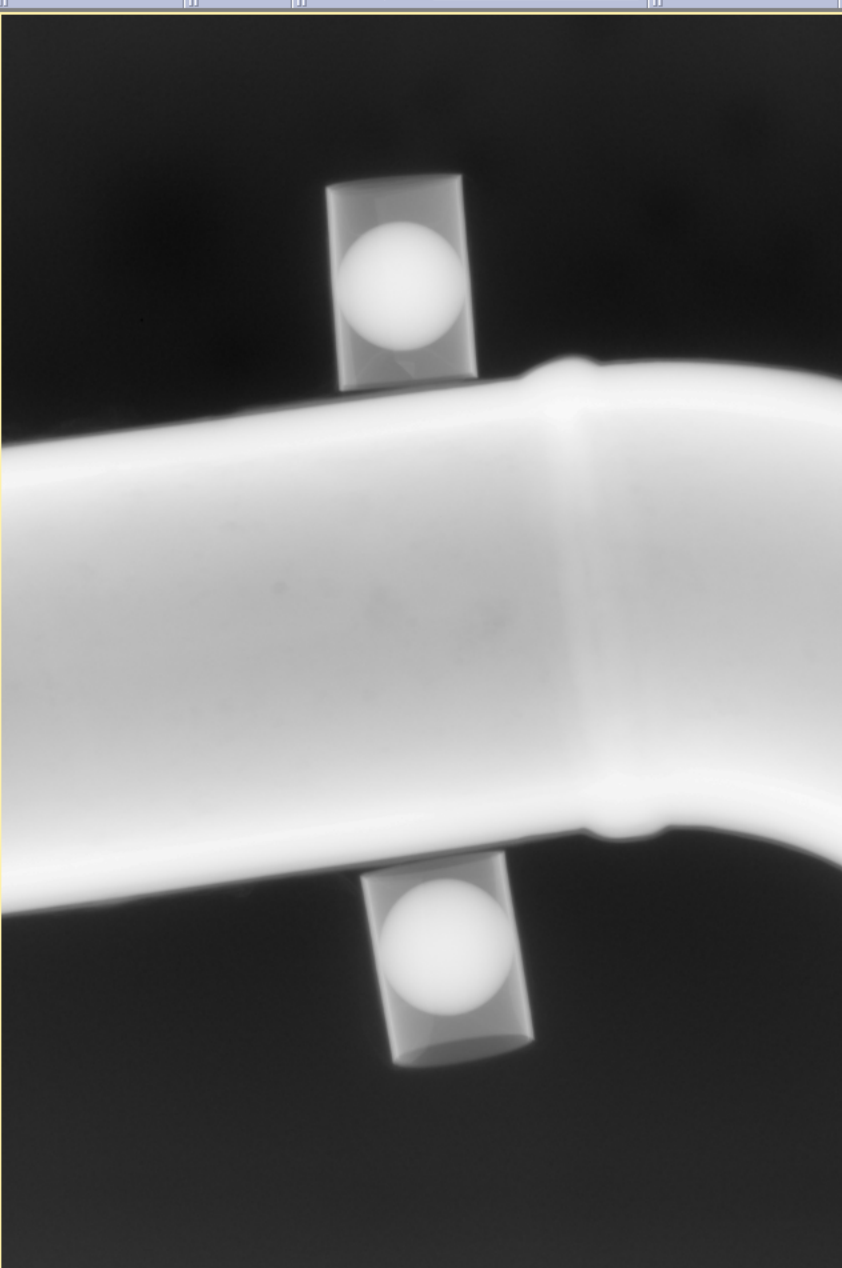


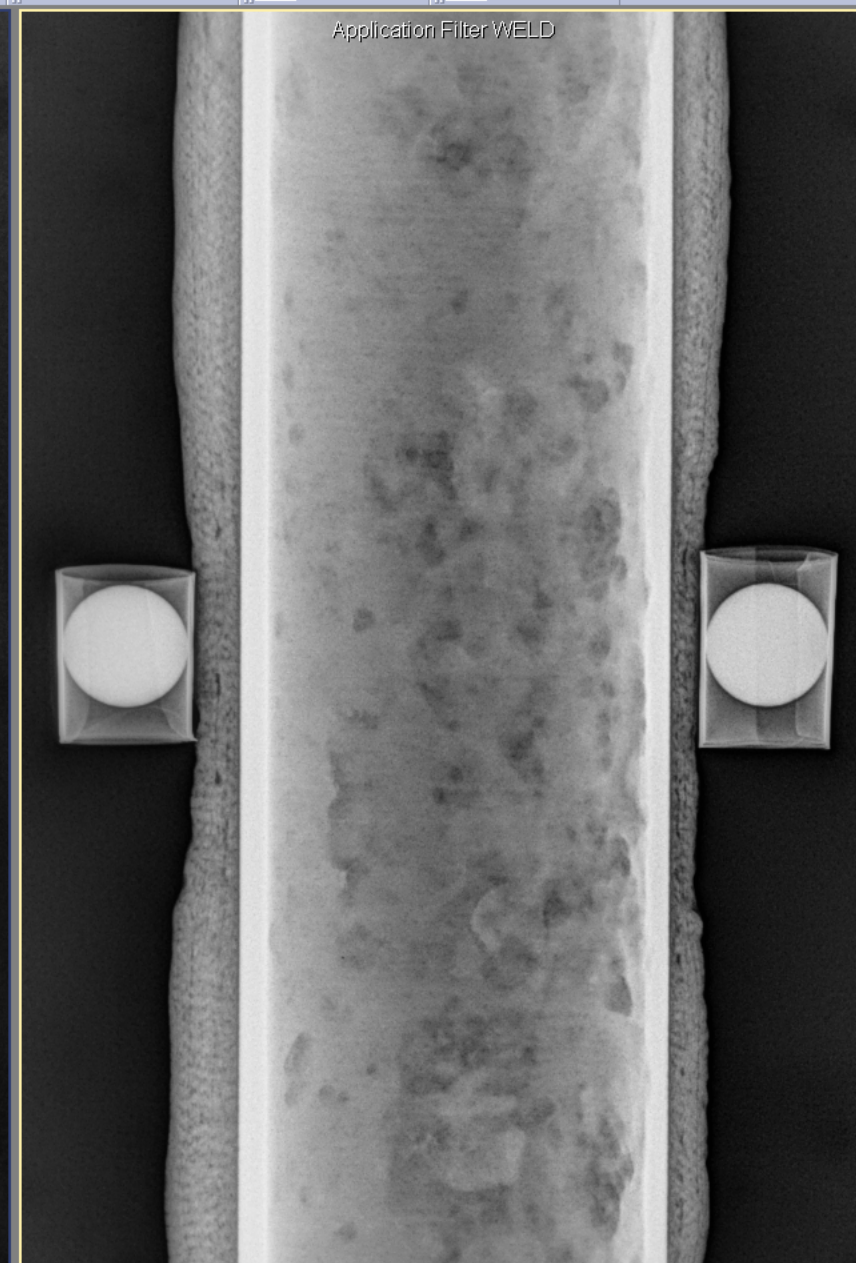
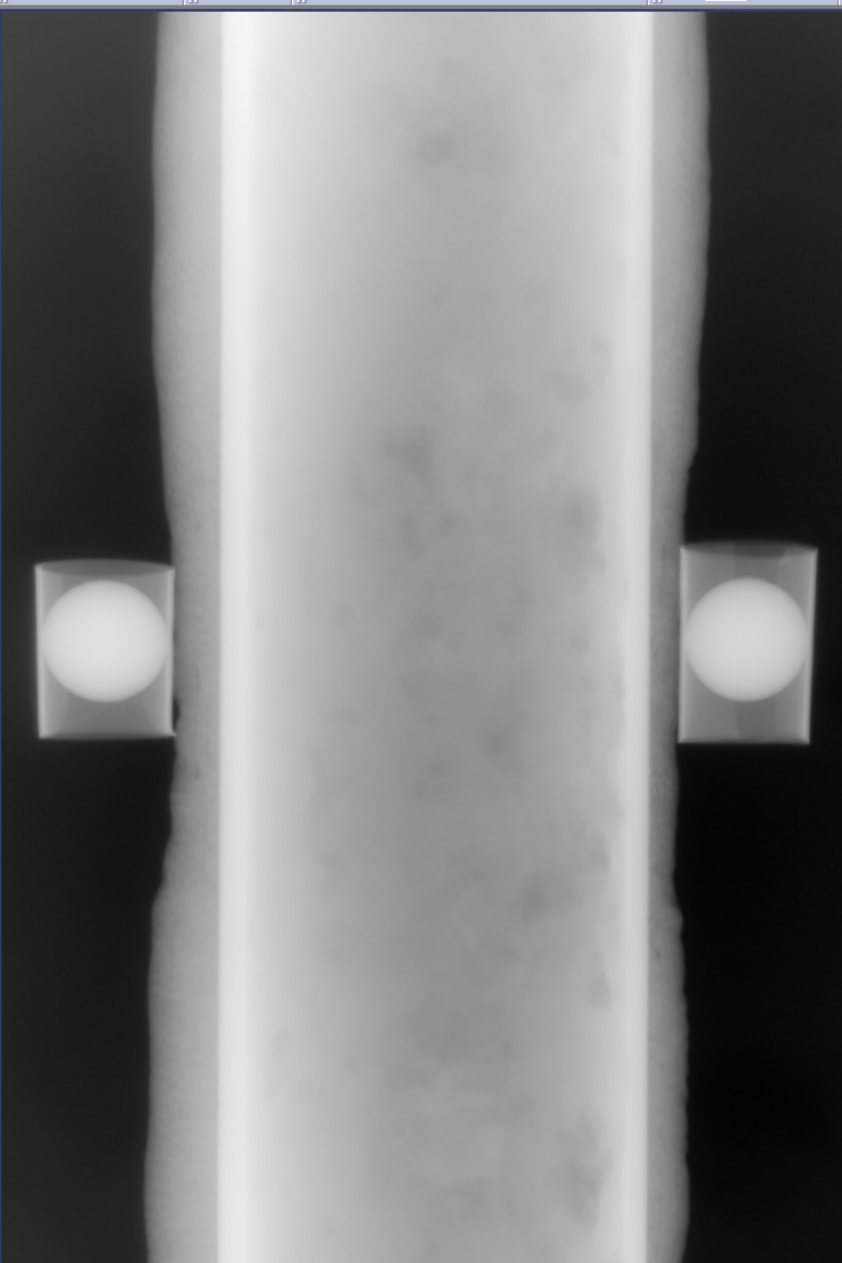
Previous Flash!

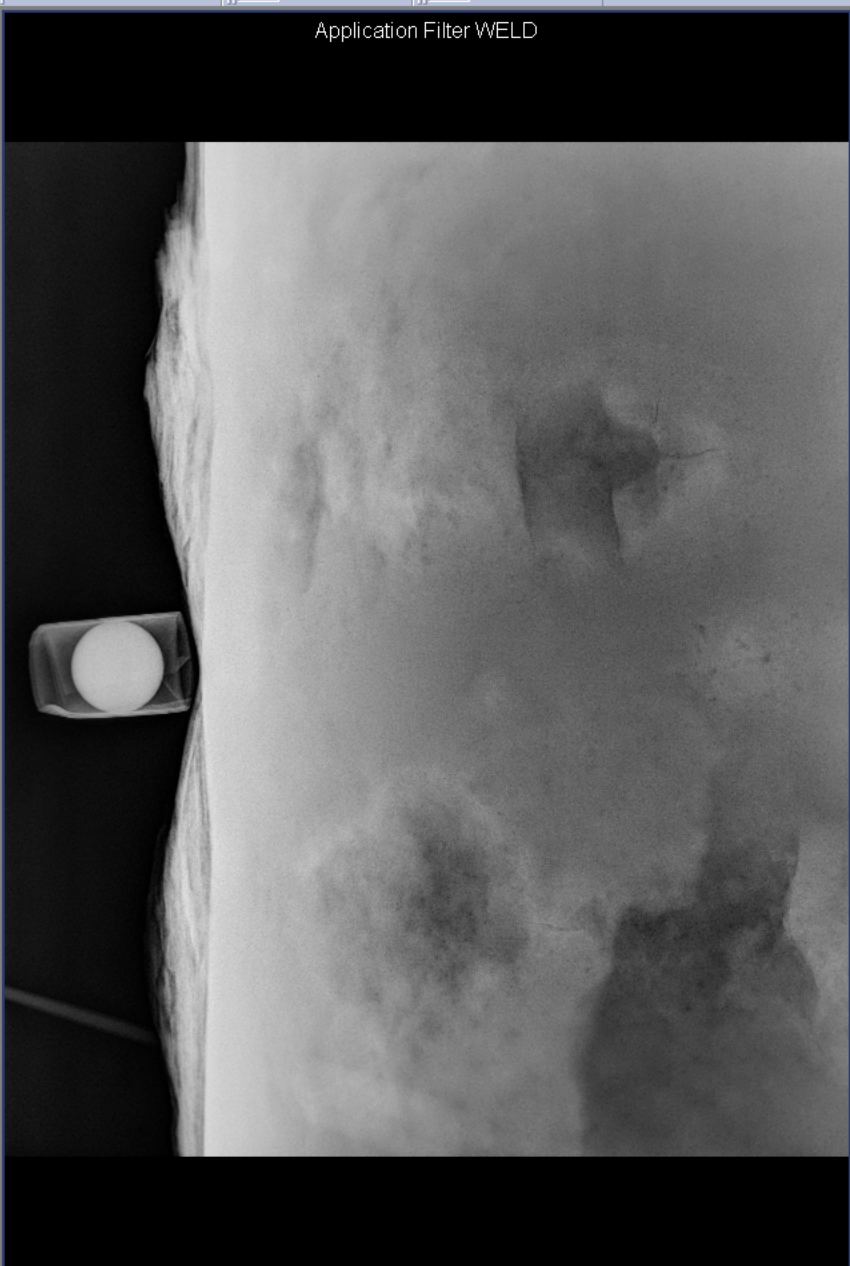
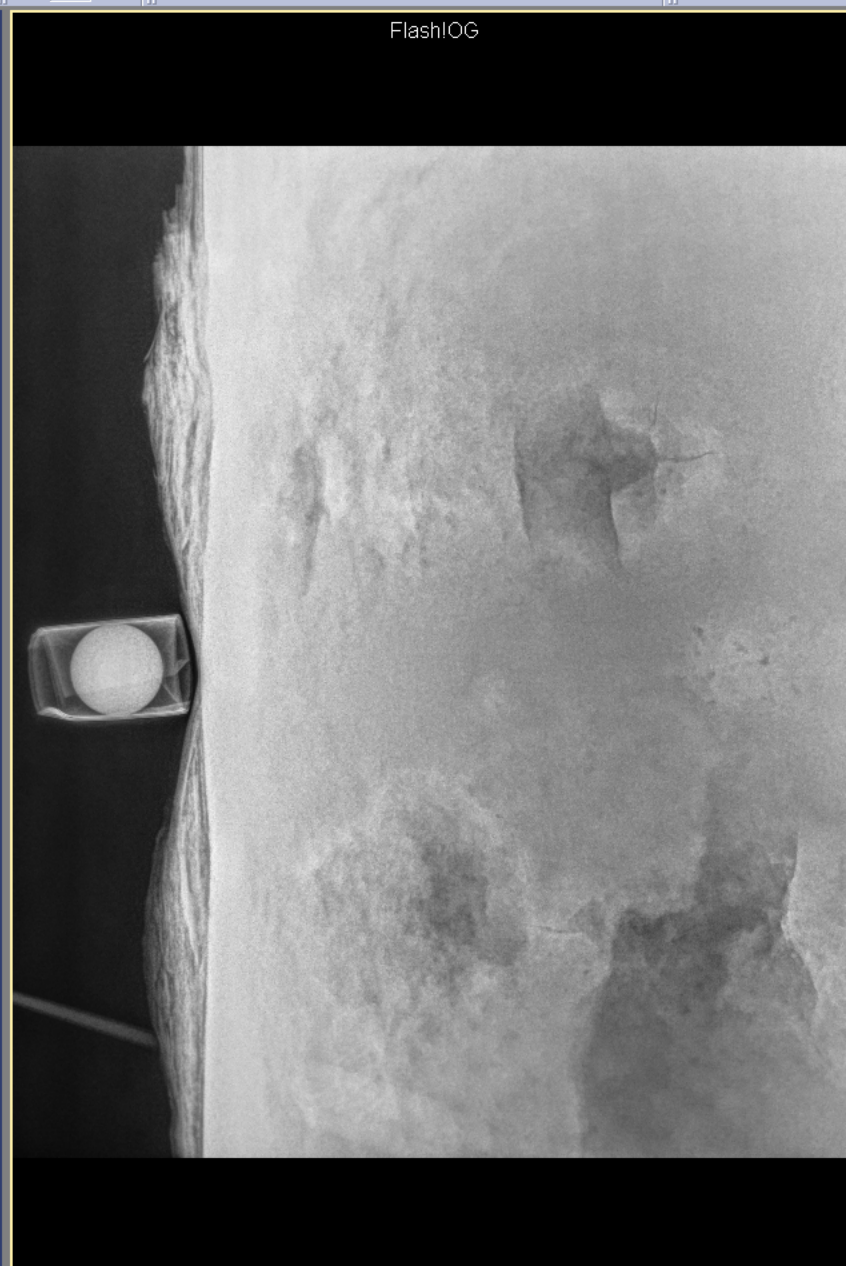
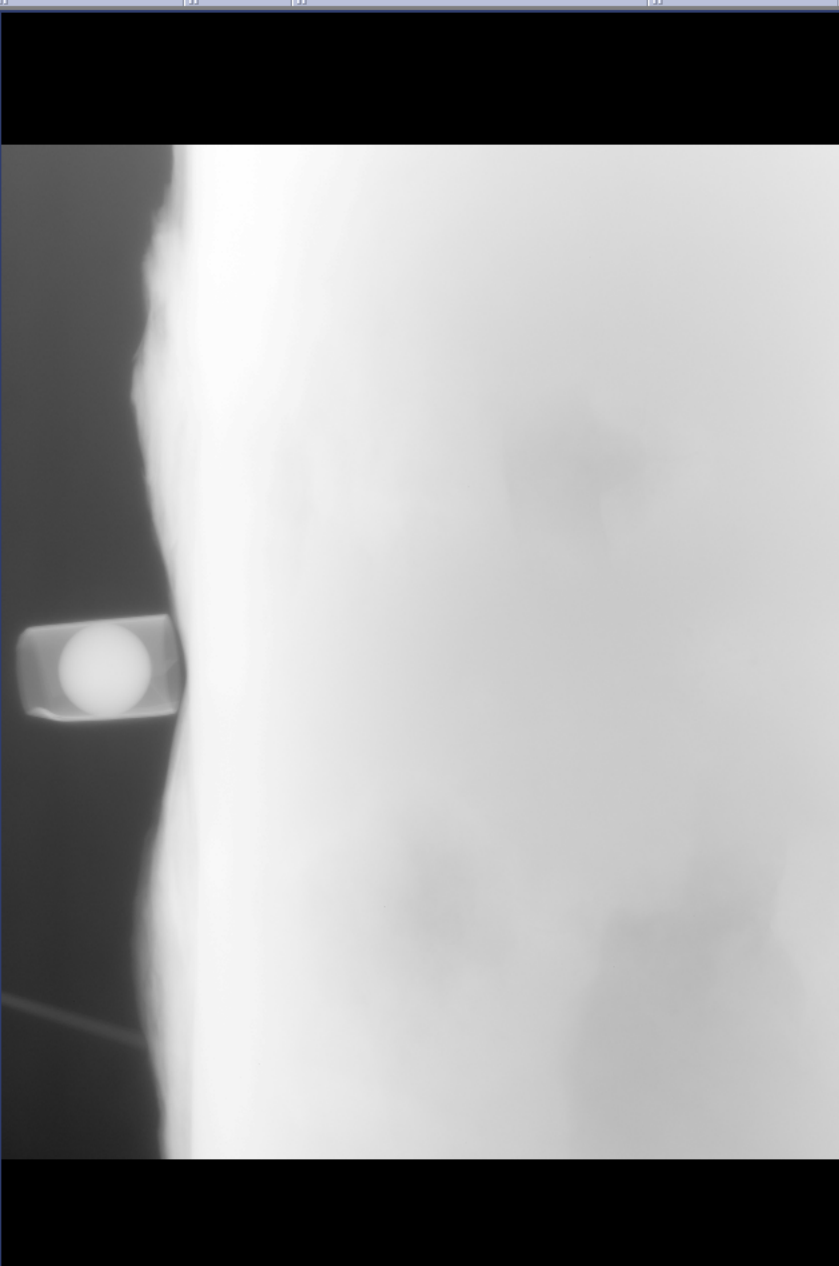


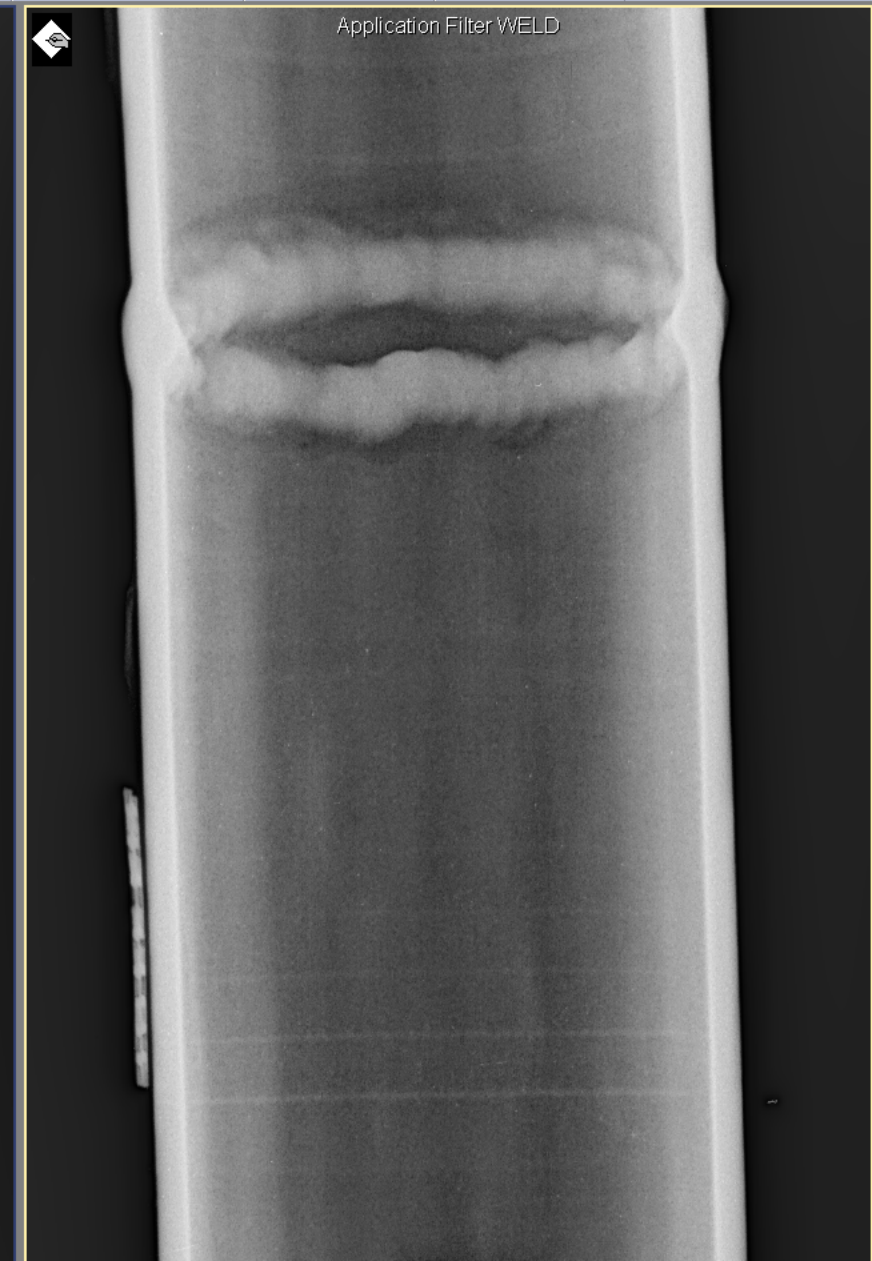
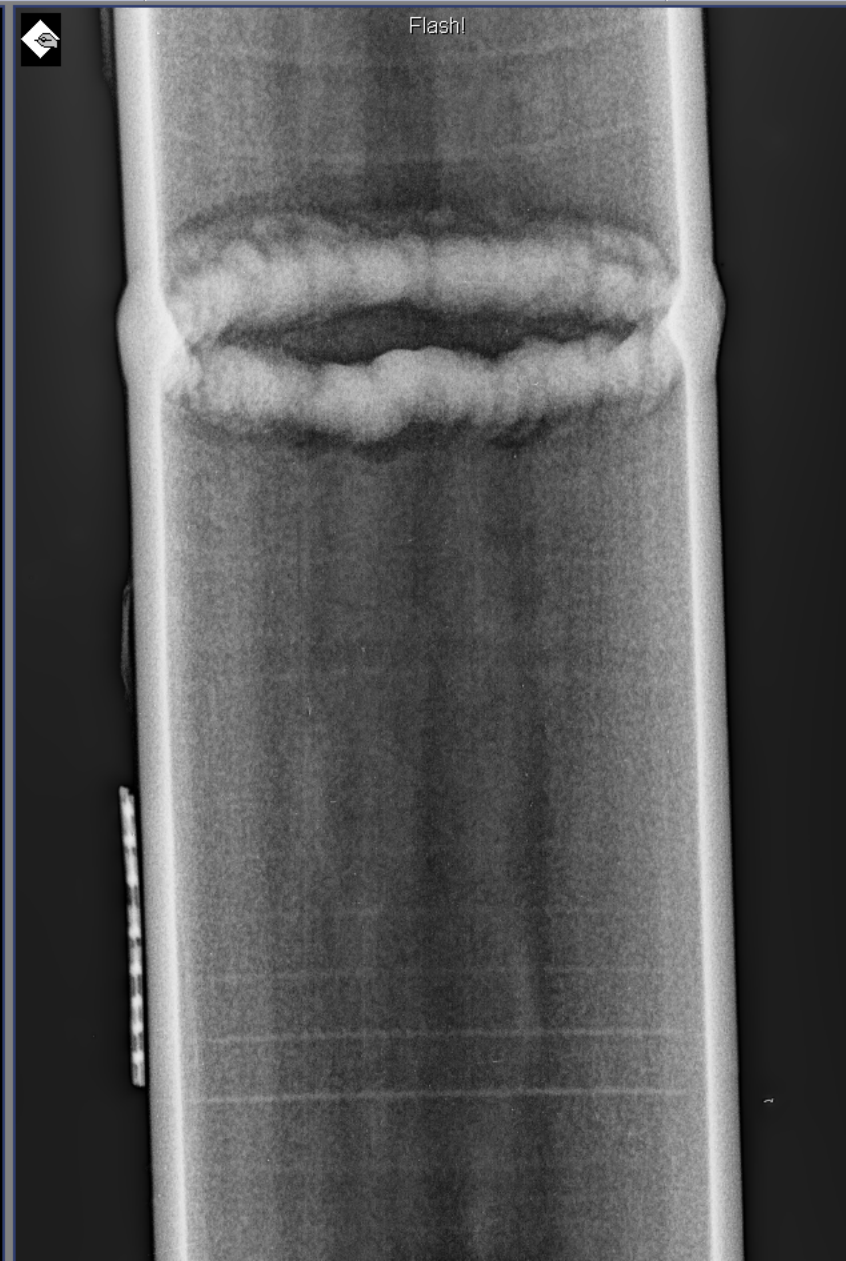


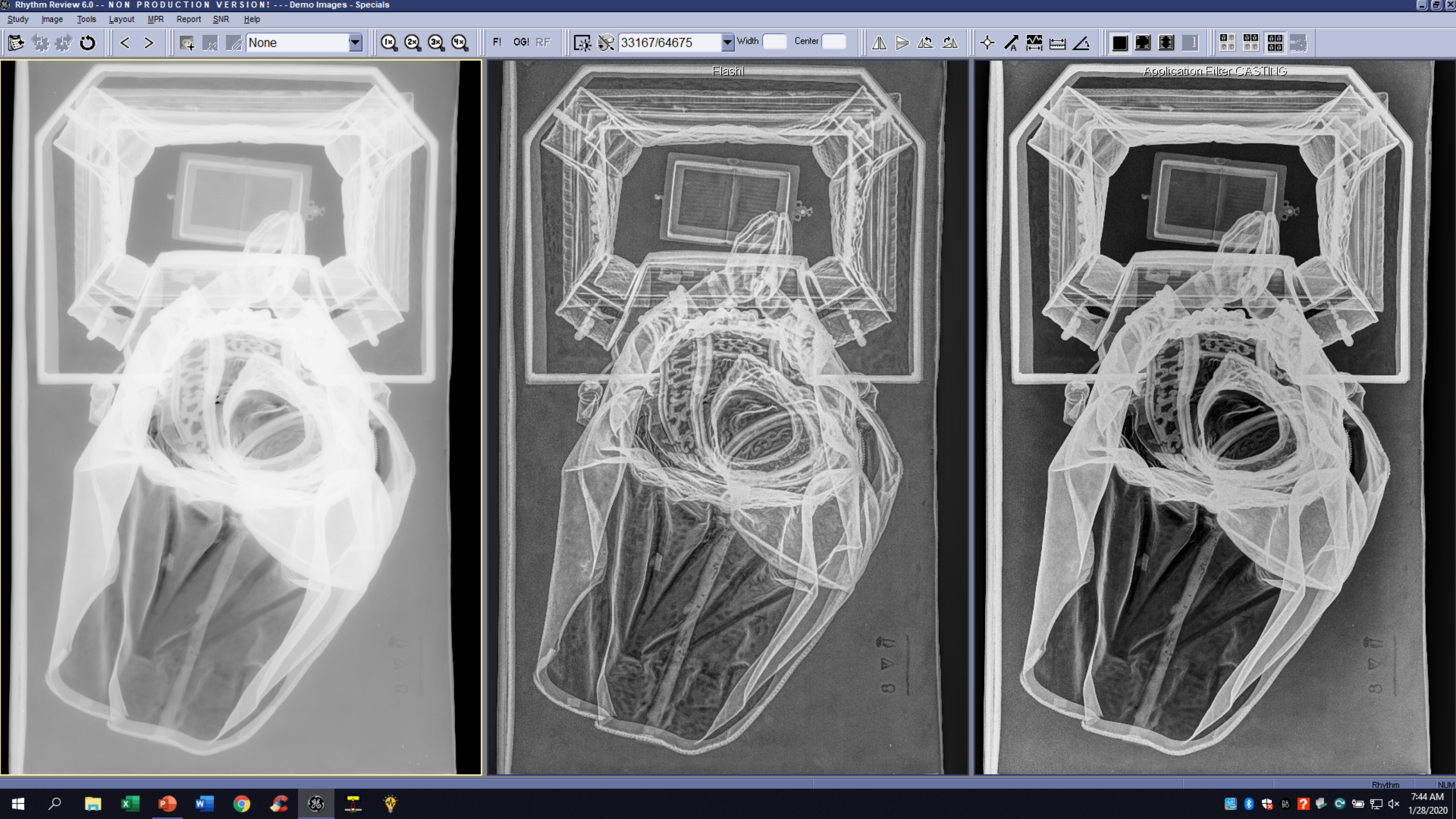


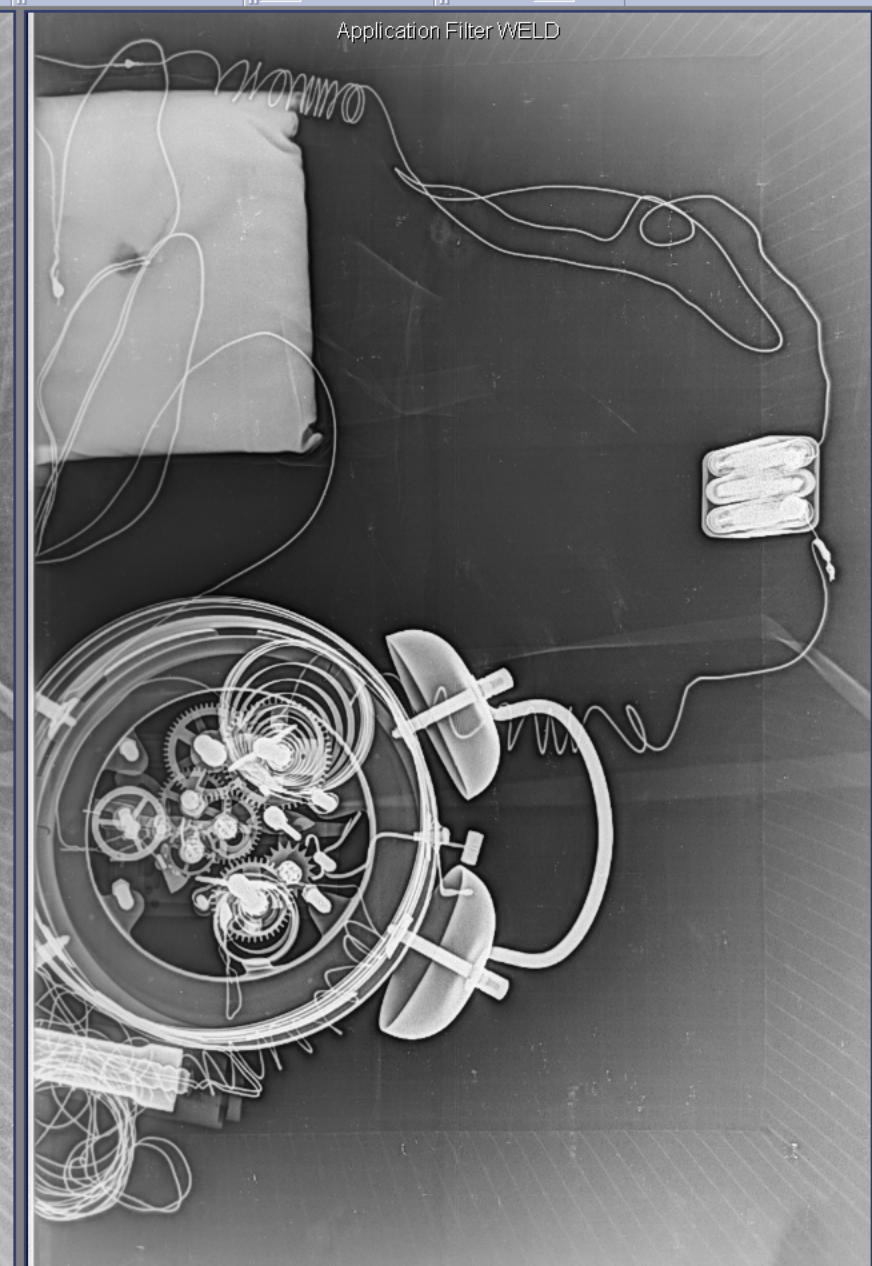


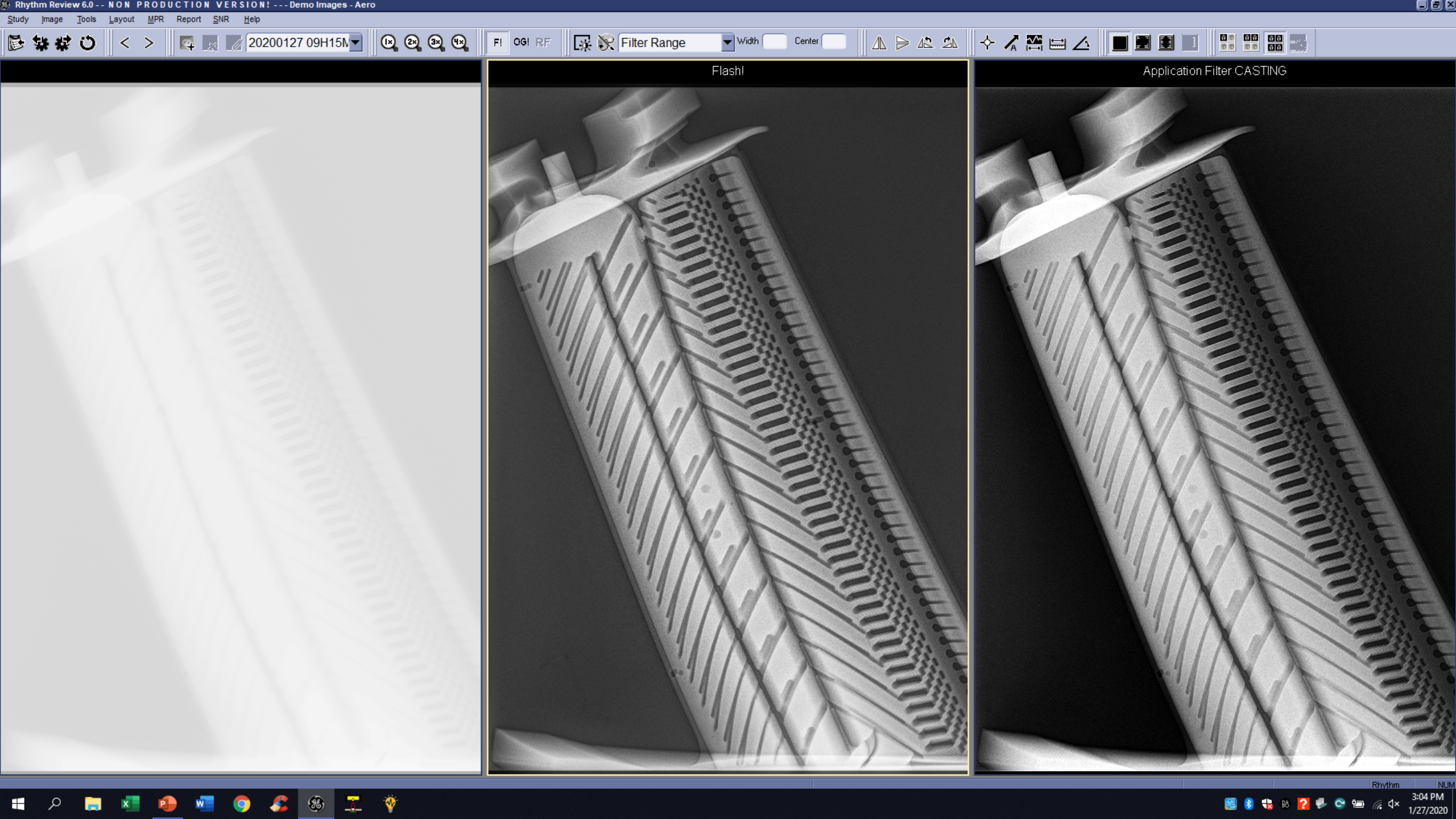












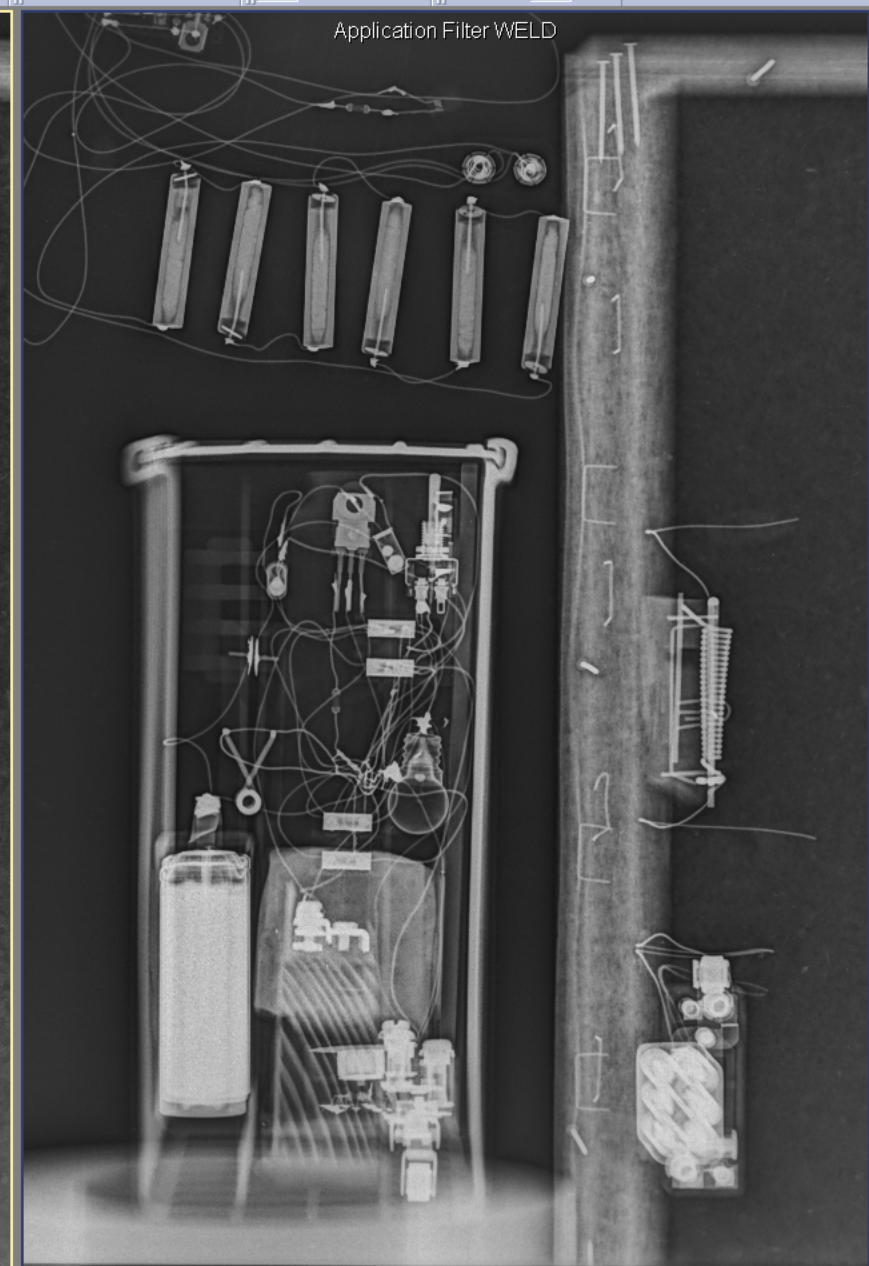
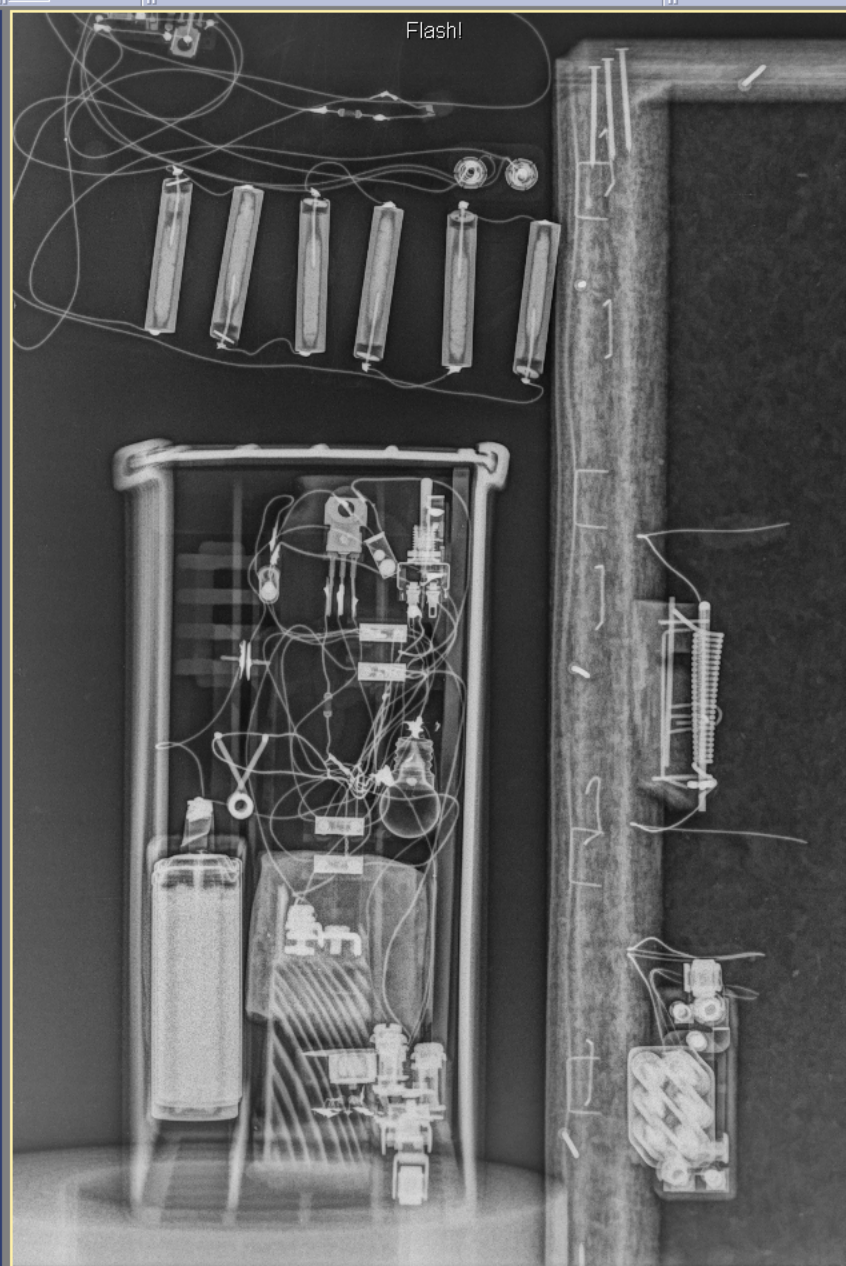


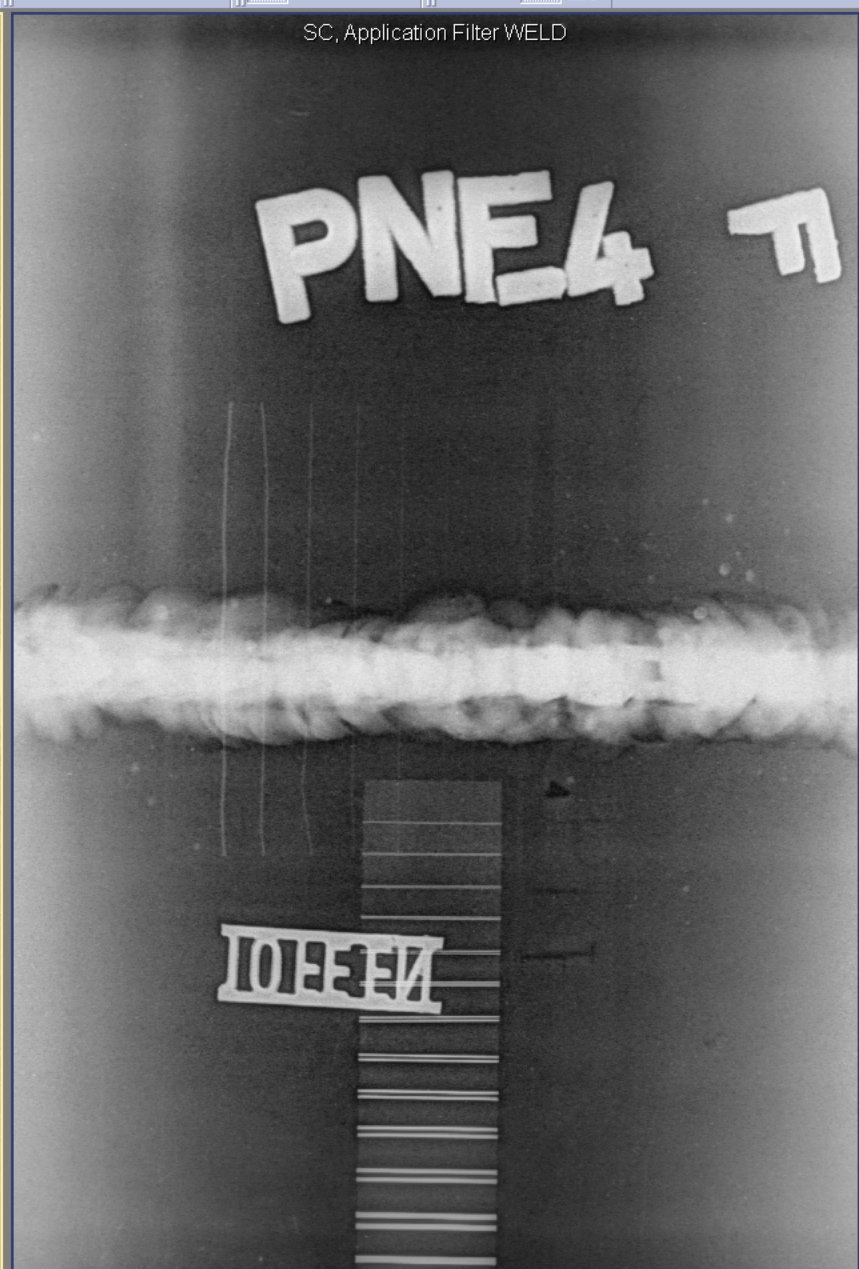
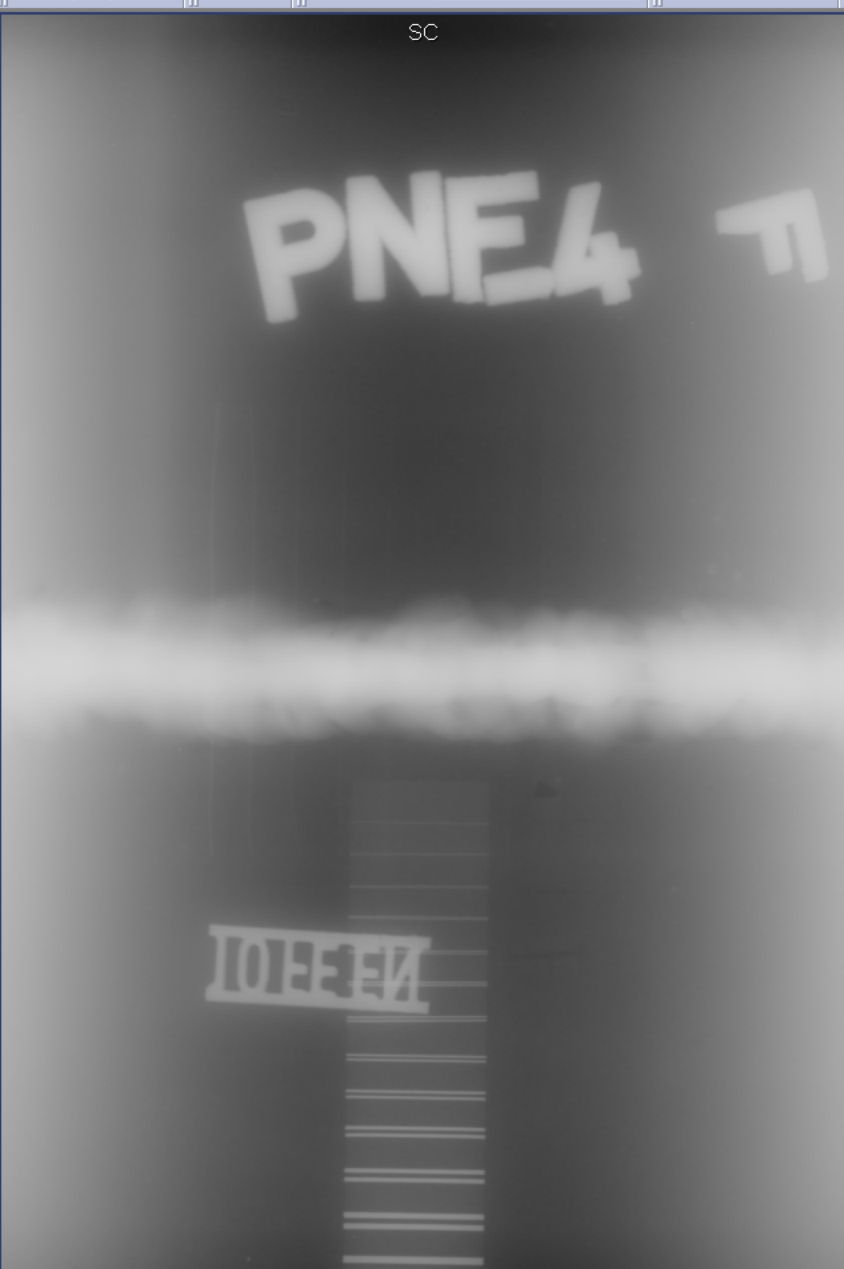
FI OG! RF

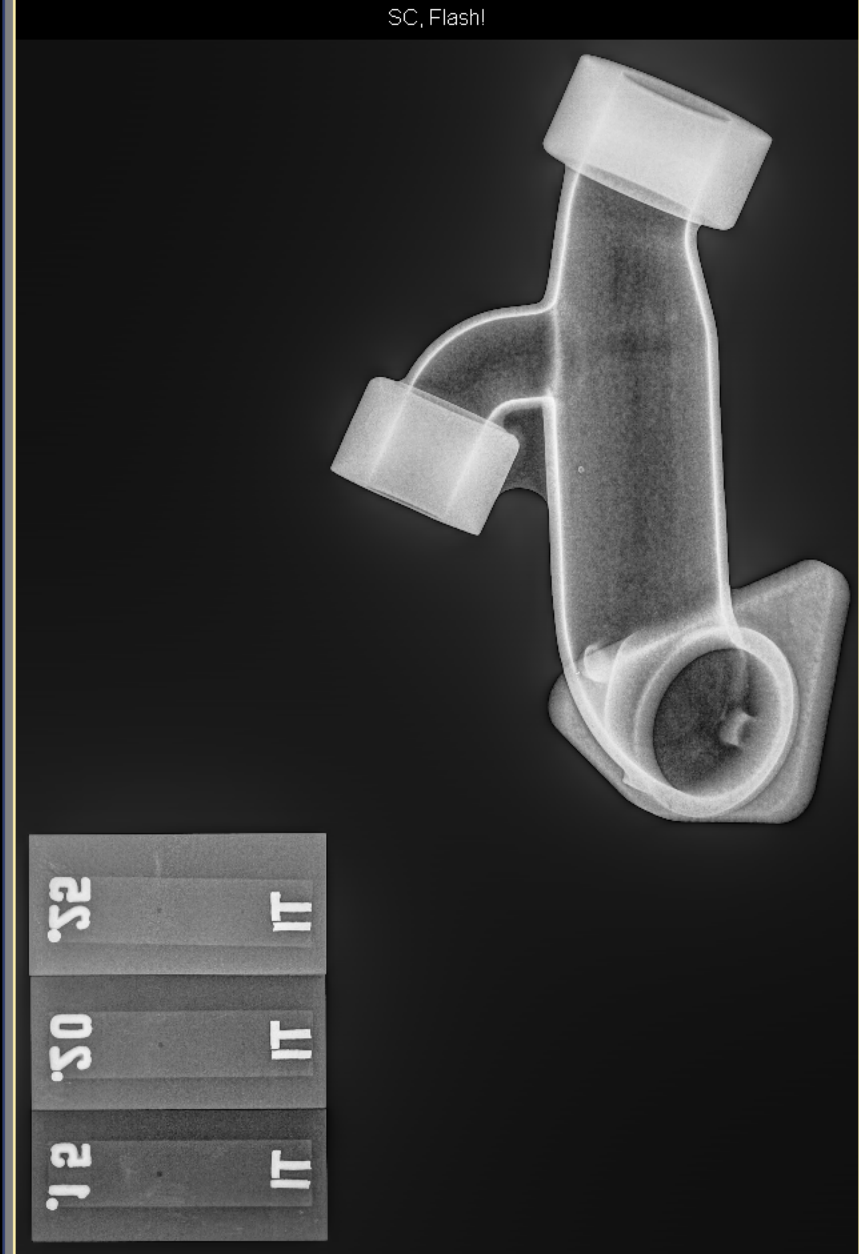
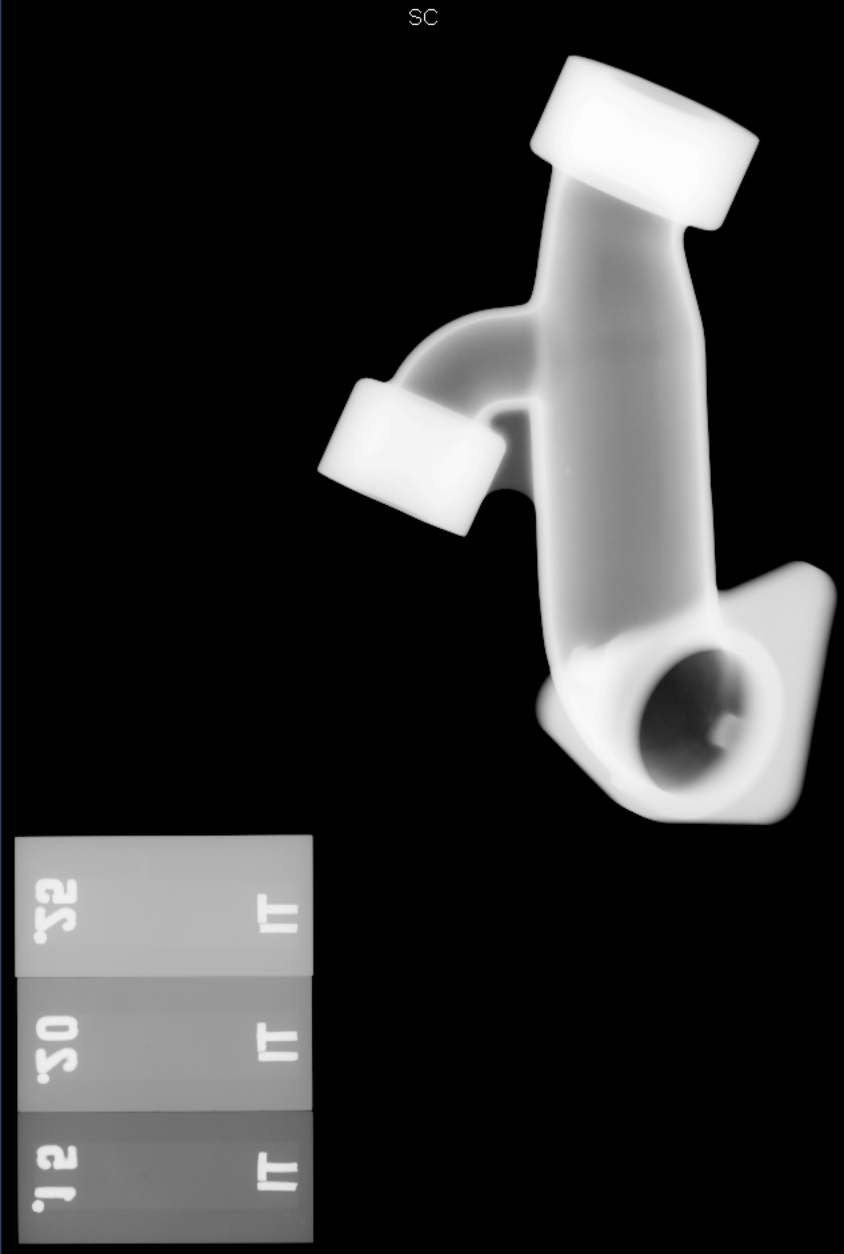
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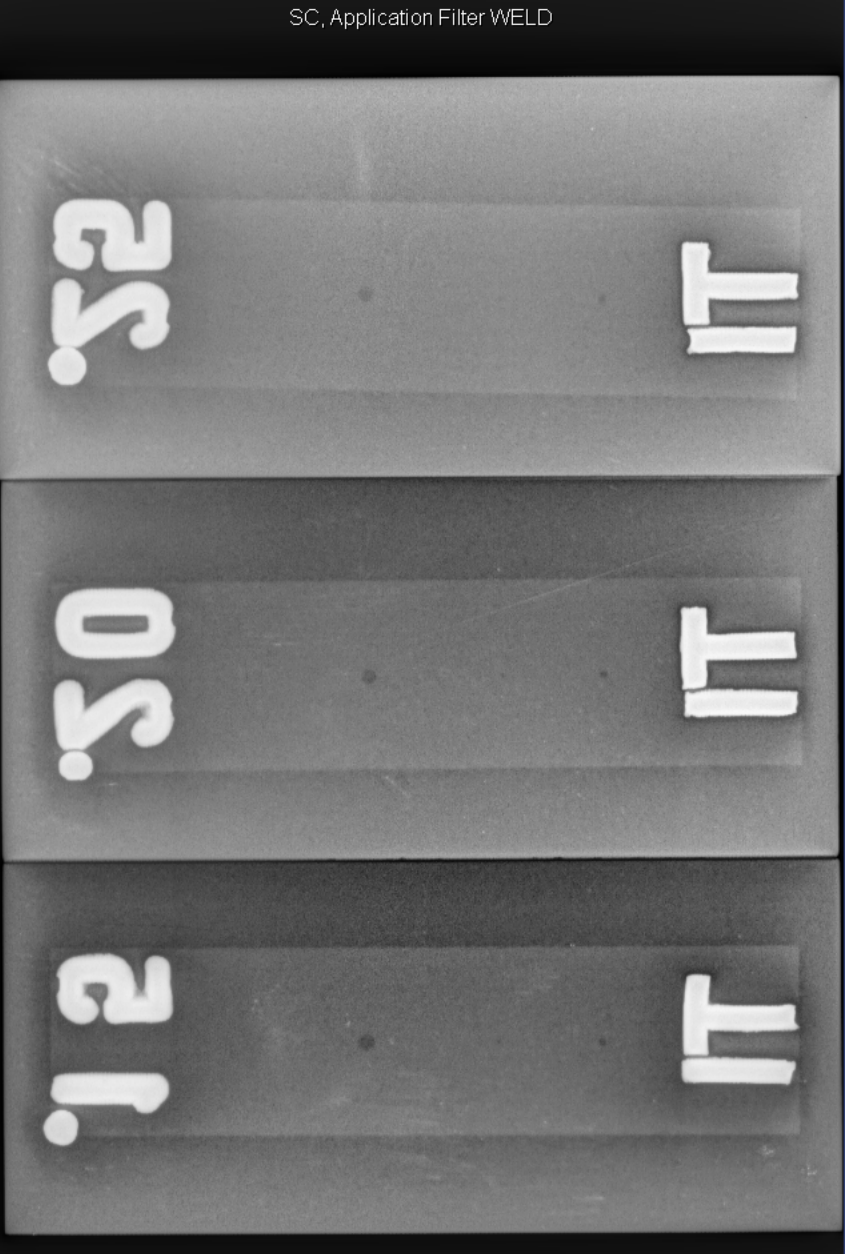
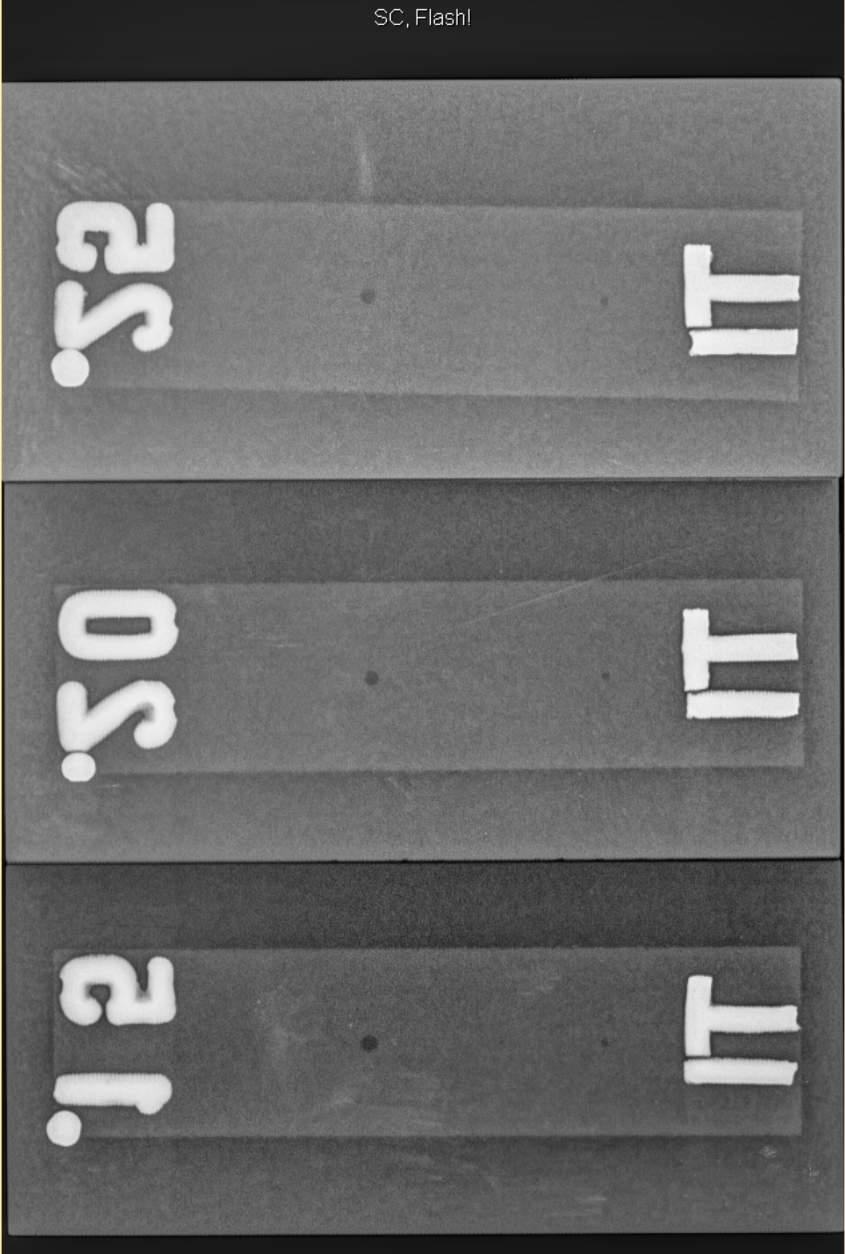
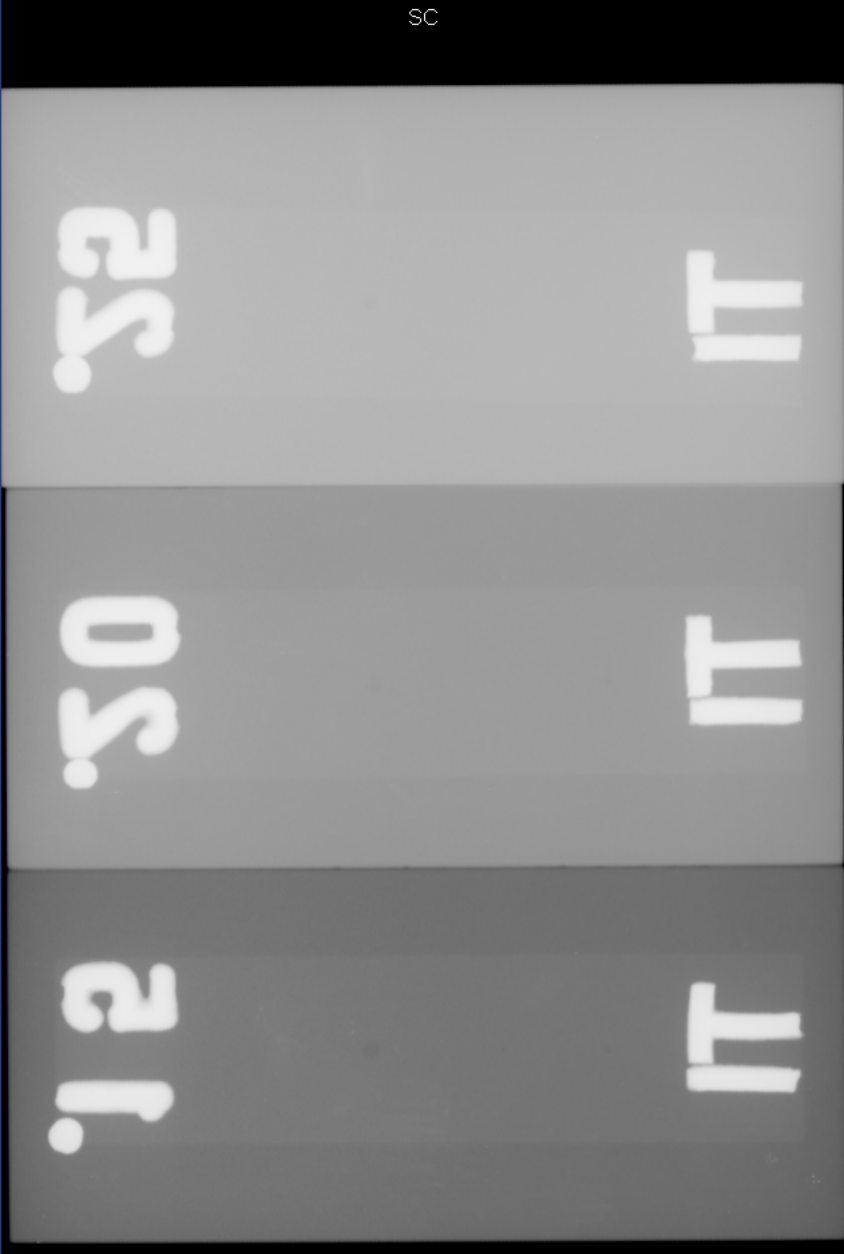
Width Center





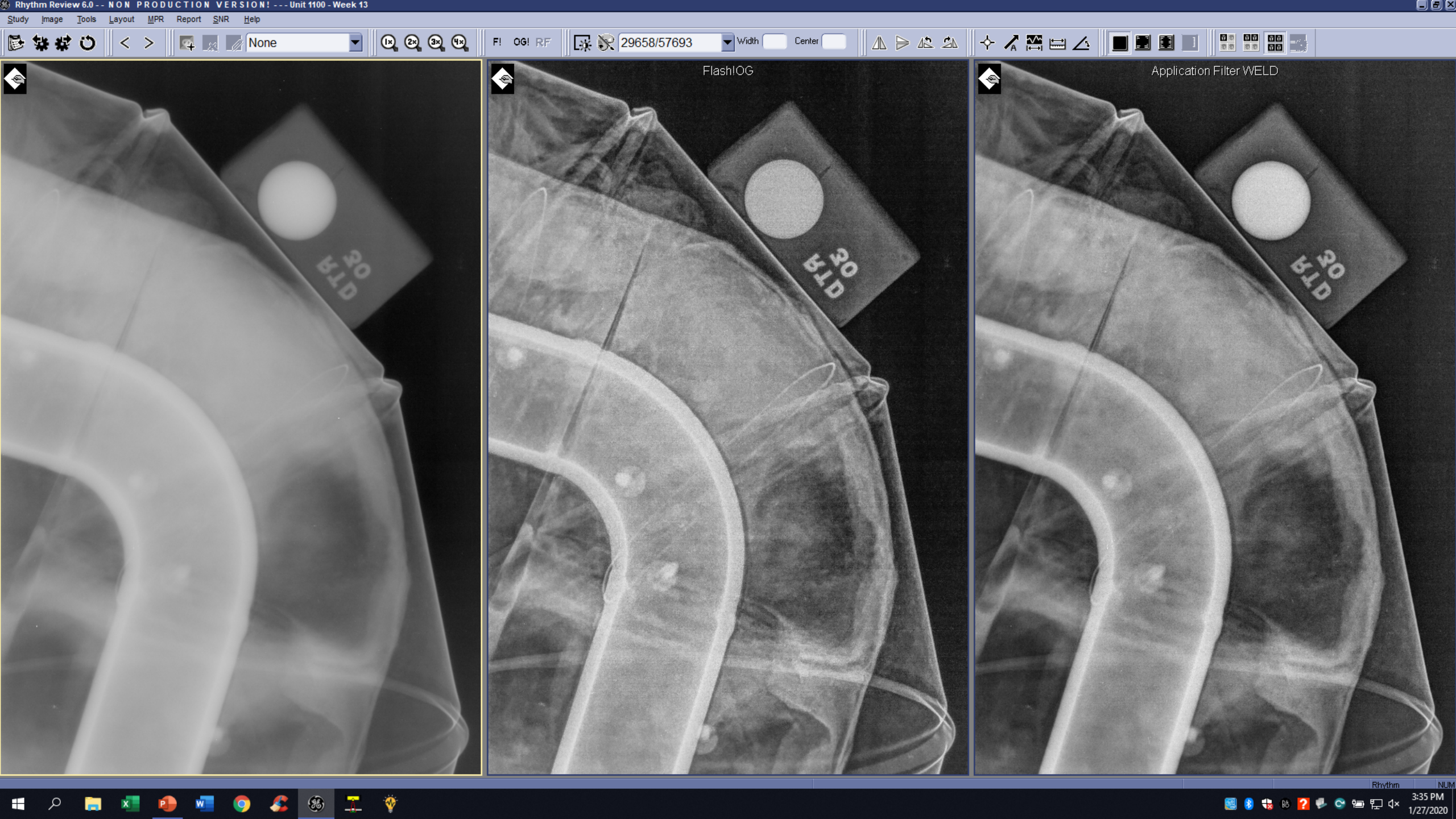


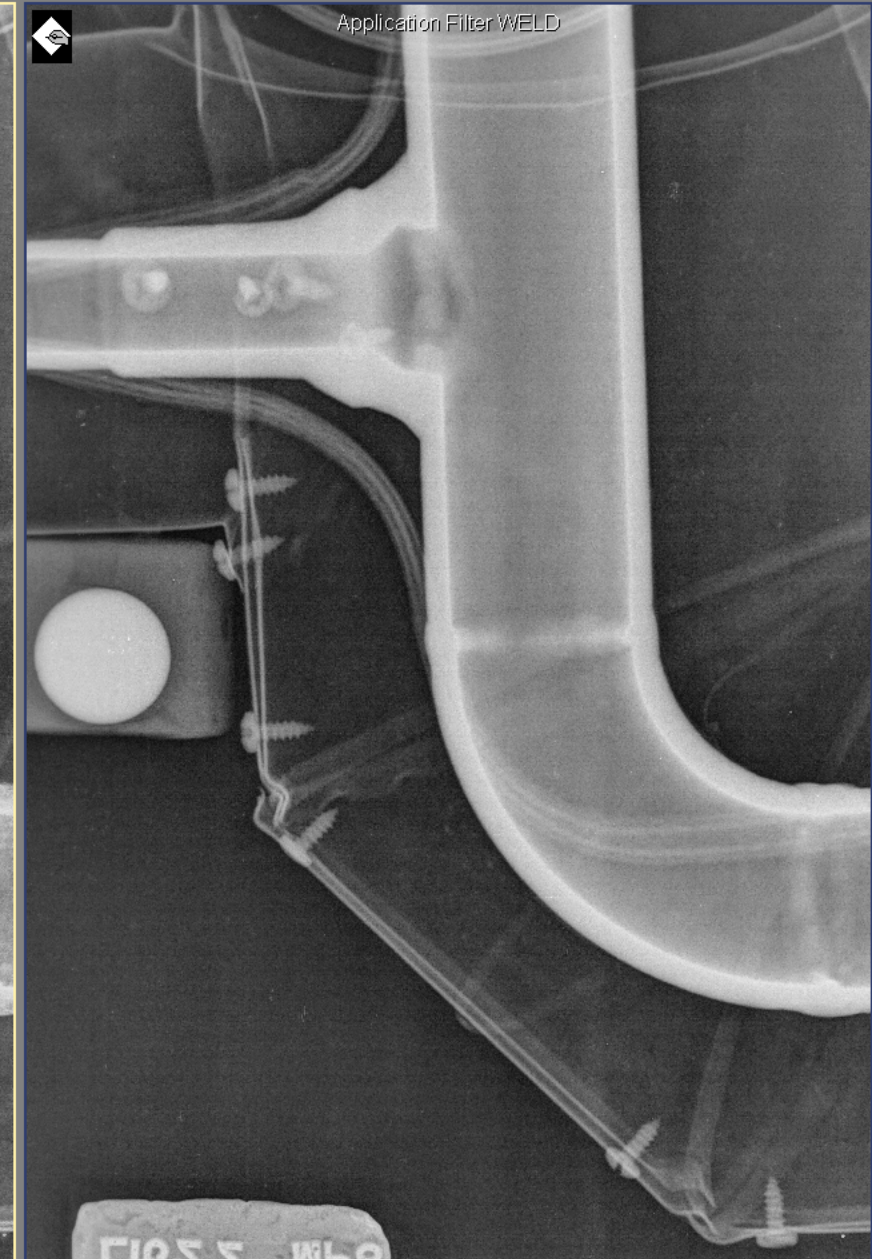
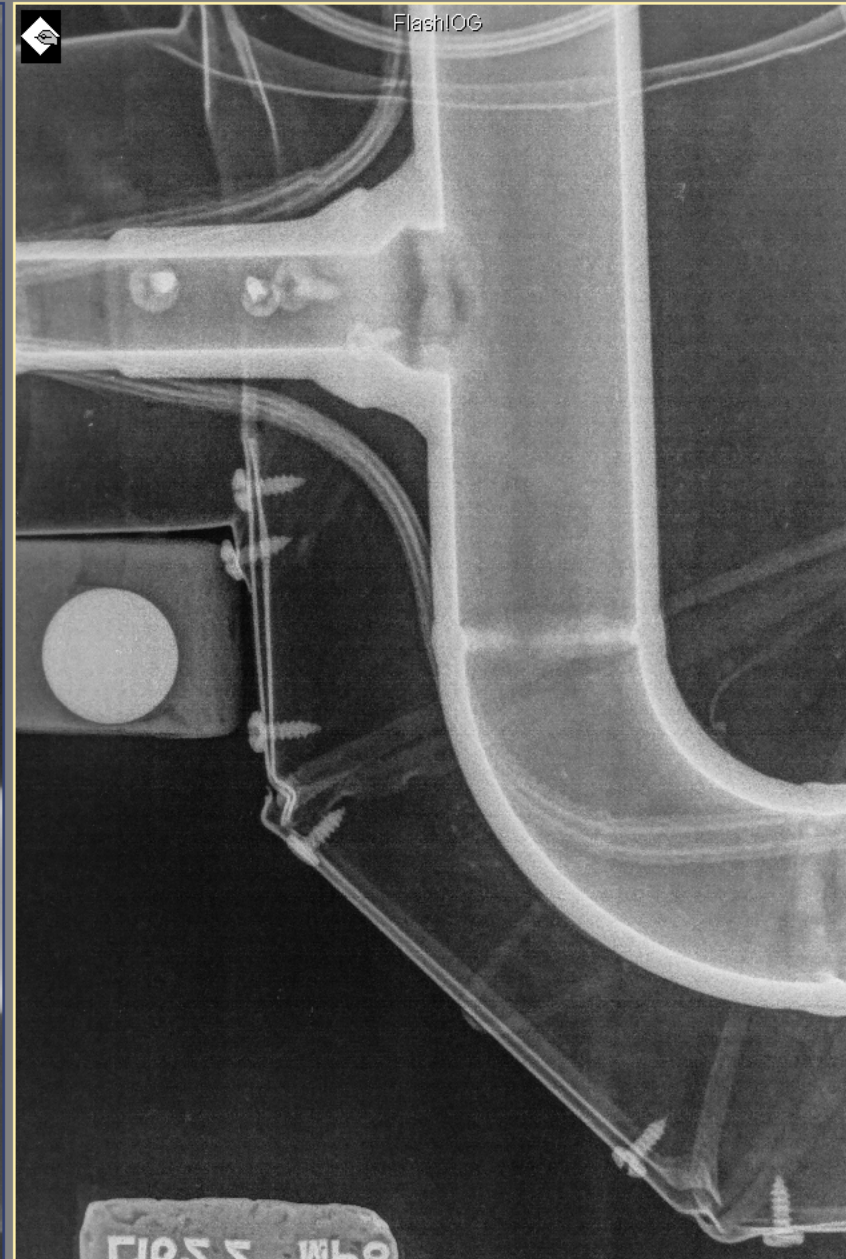
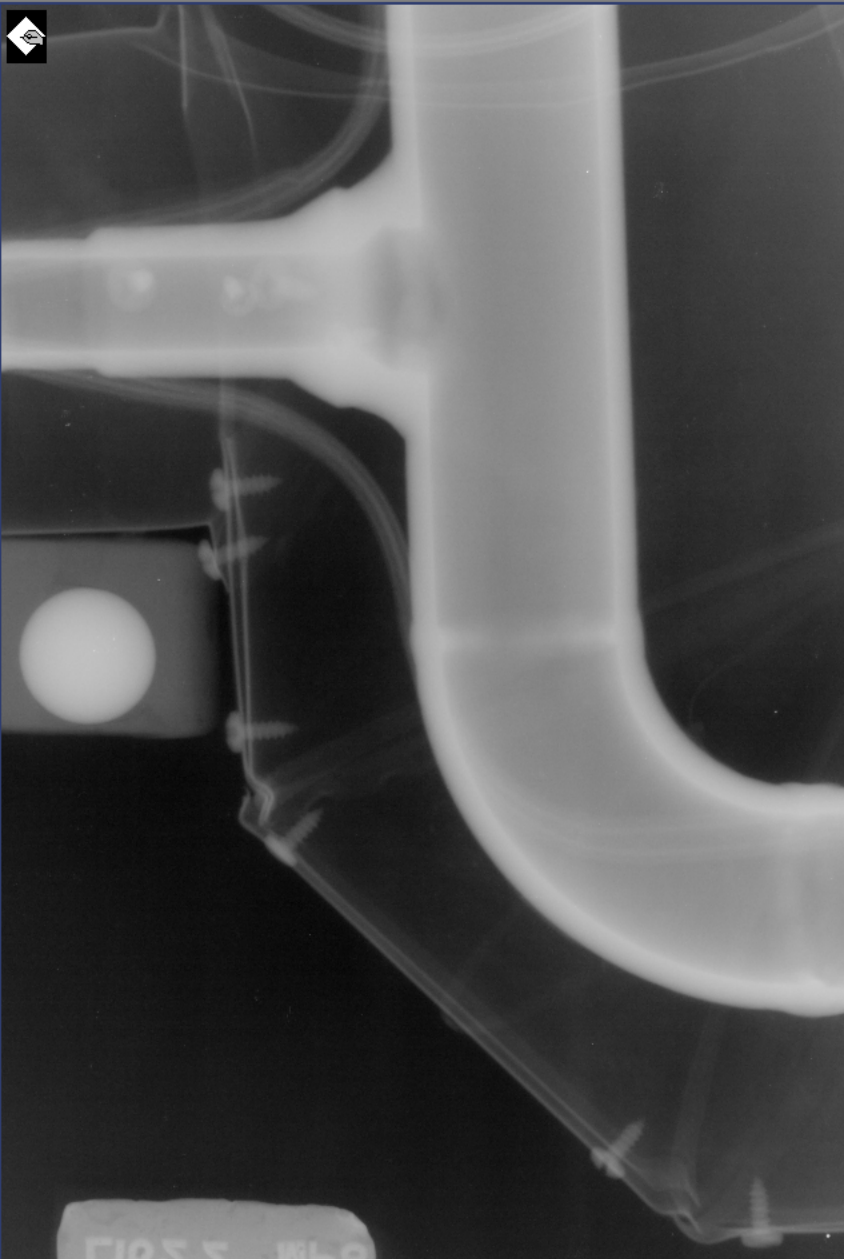


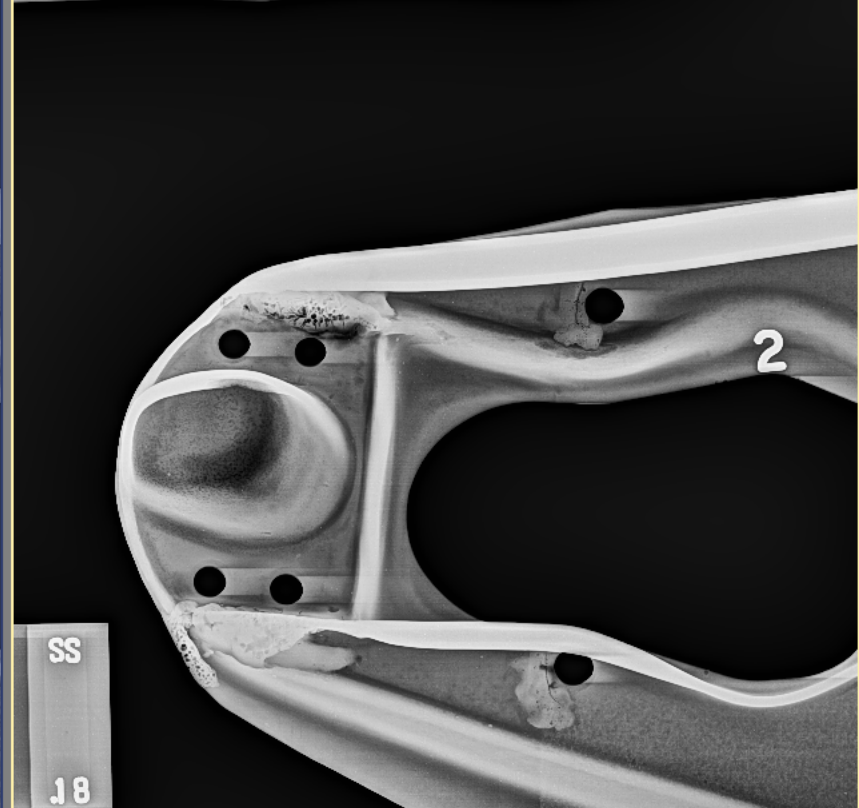
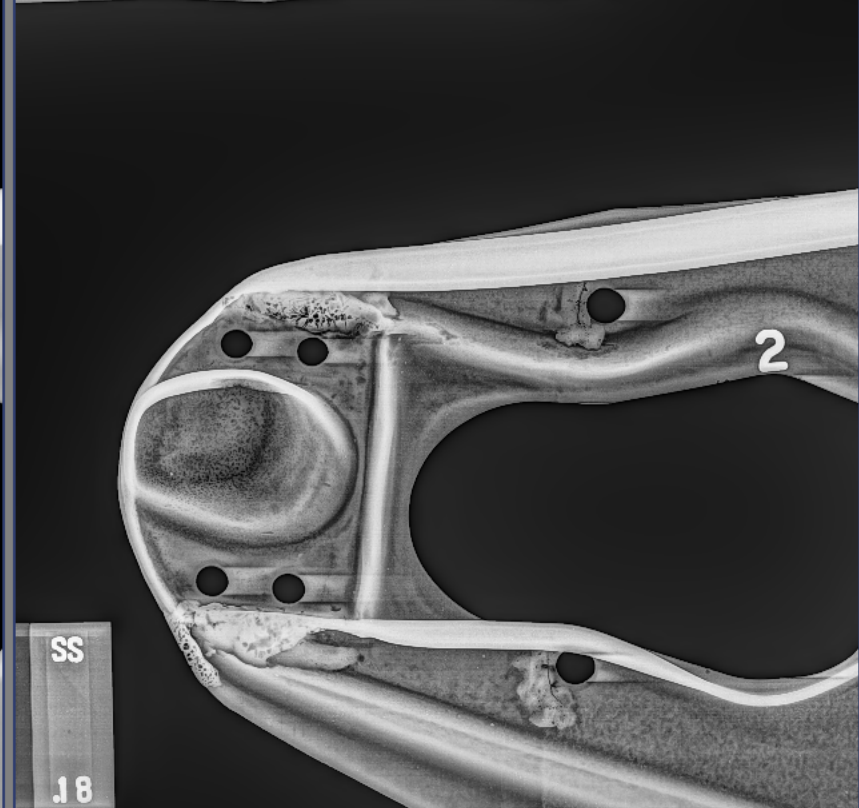
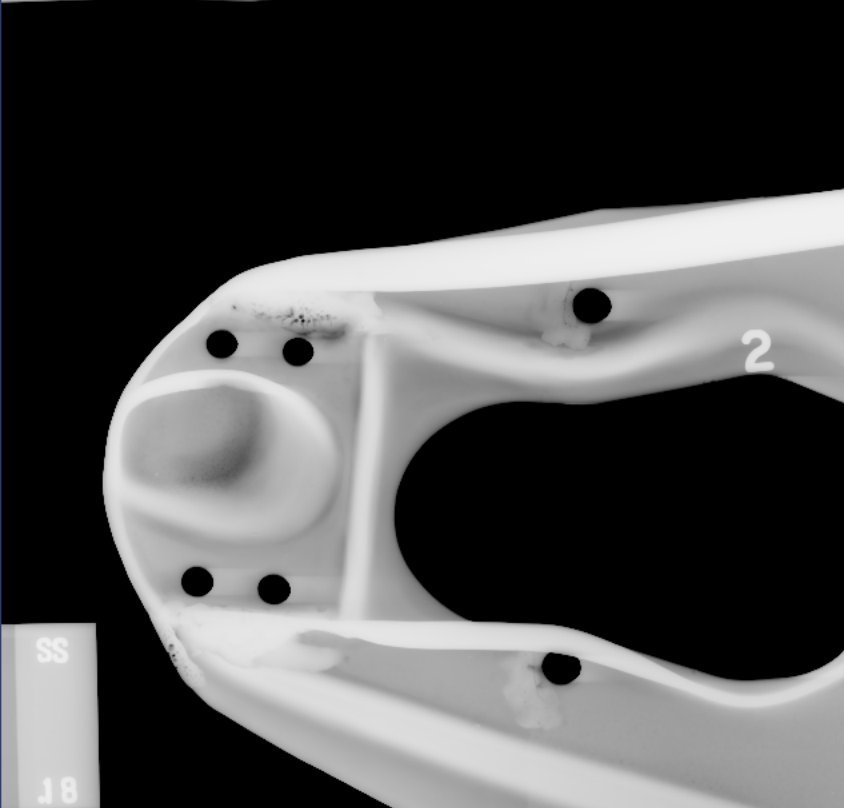
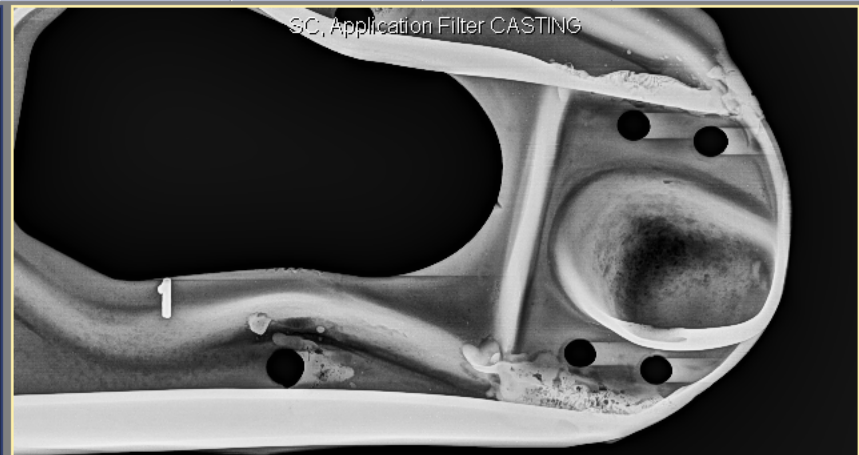
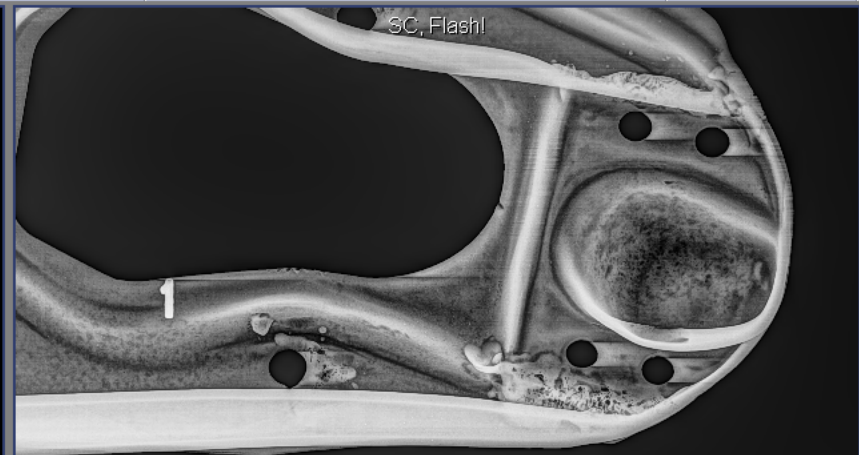
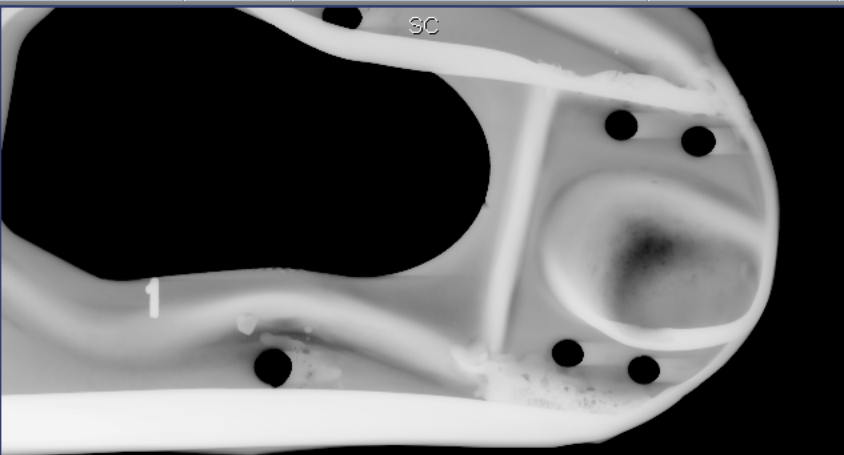


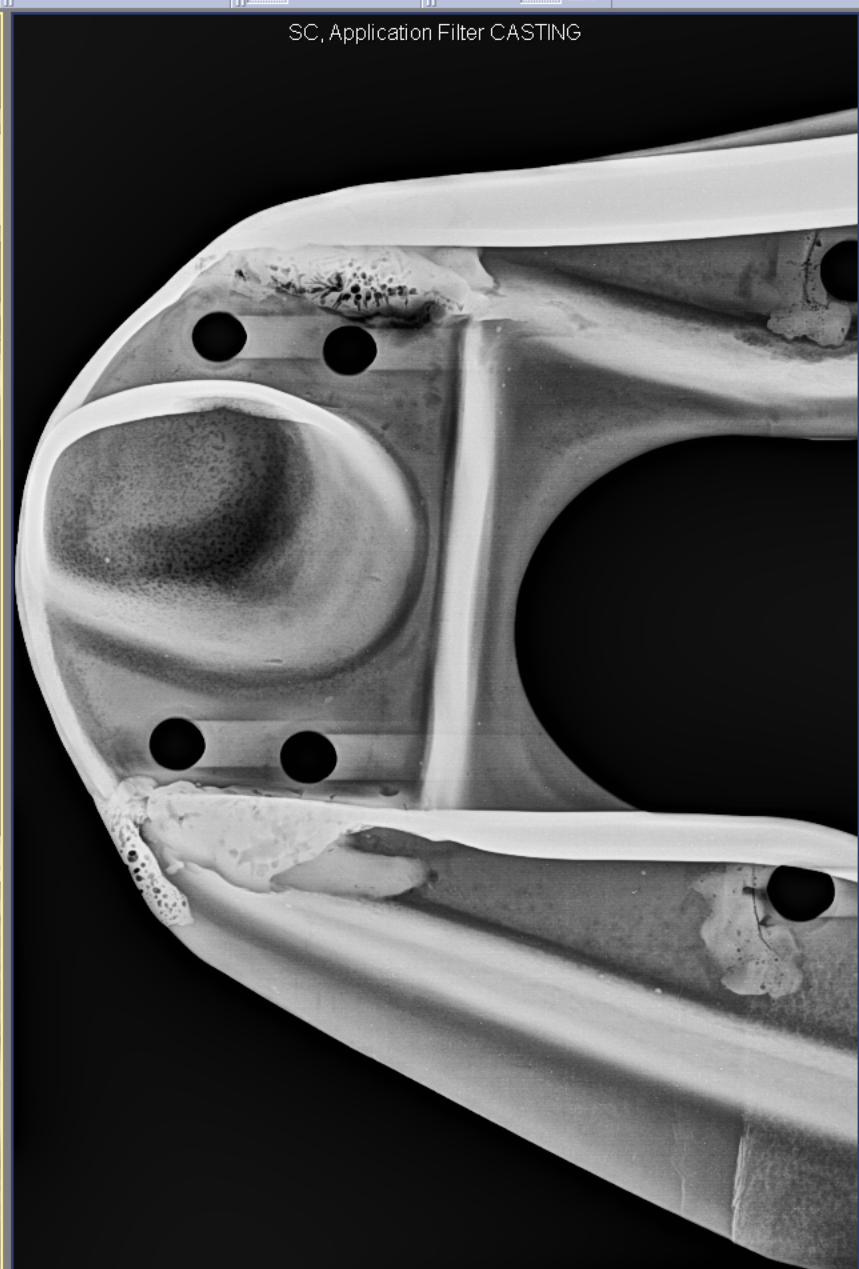
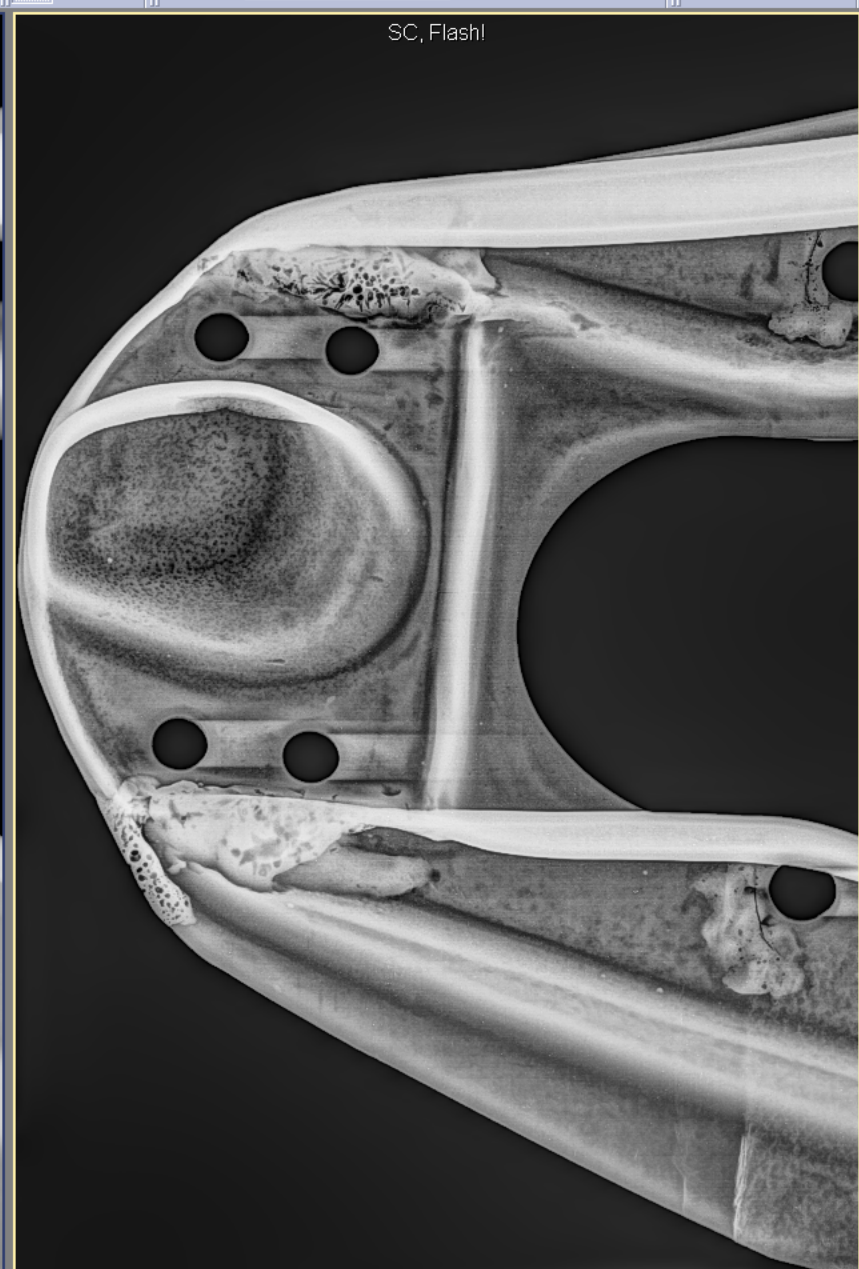
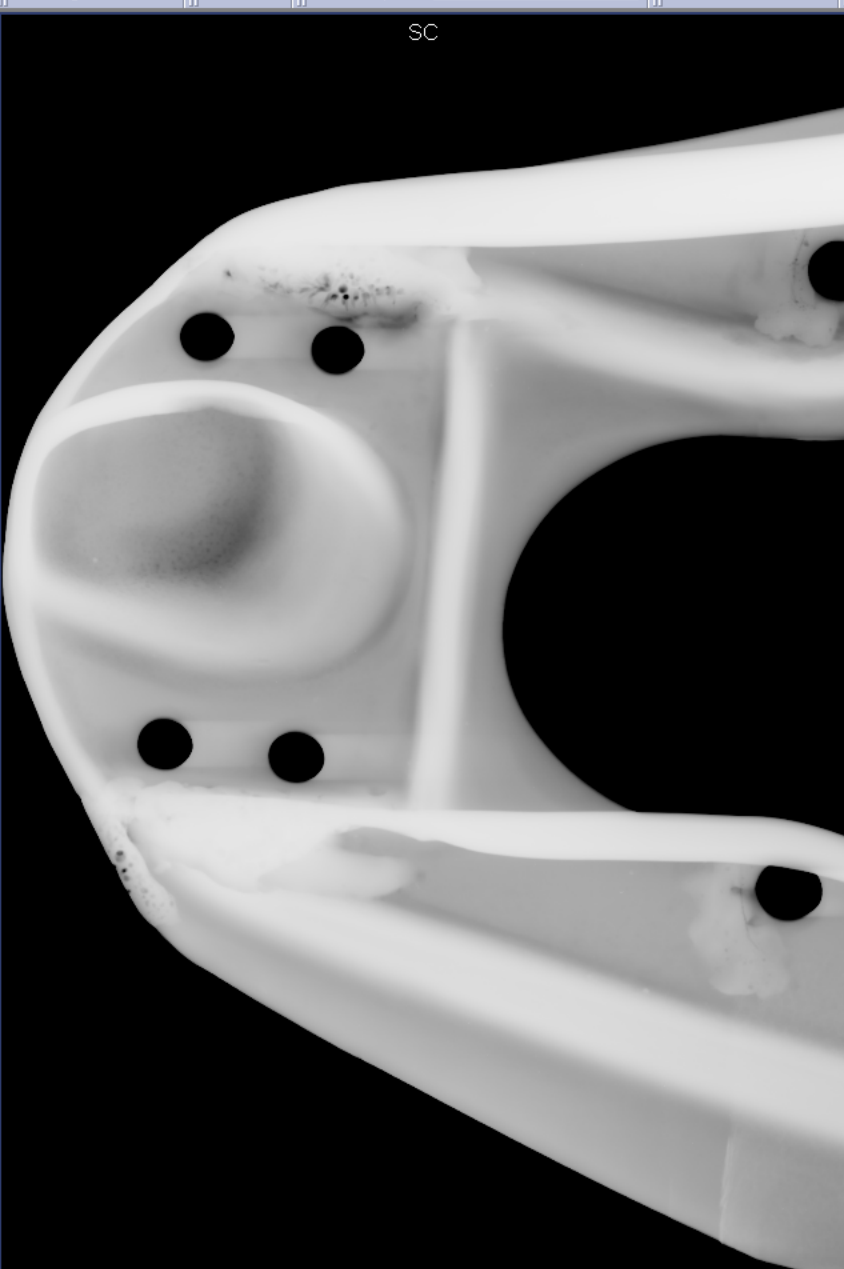


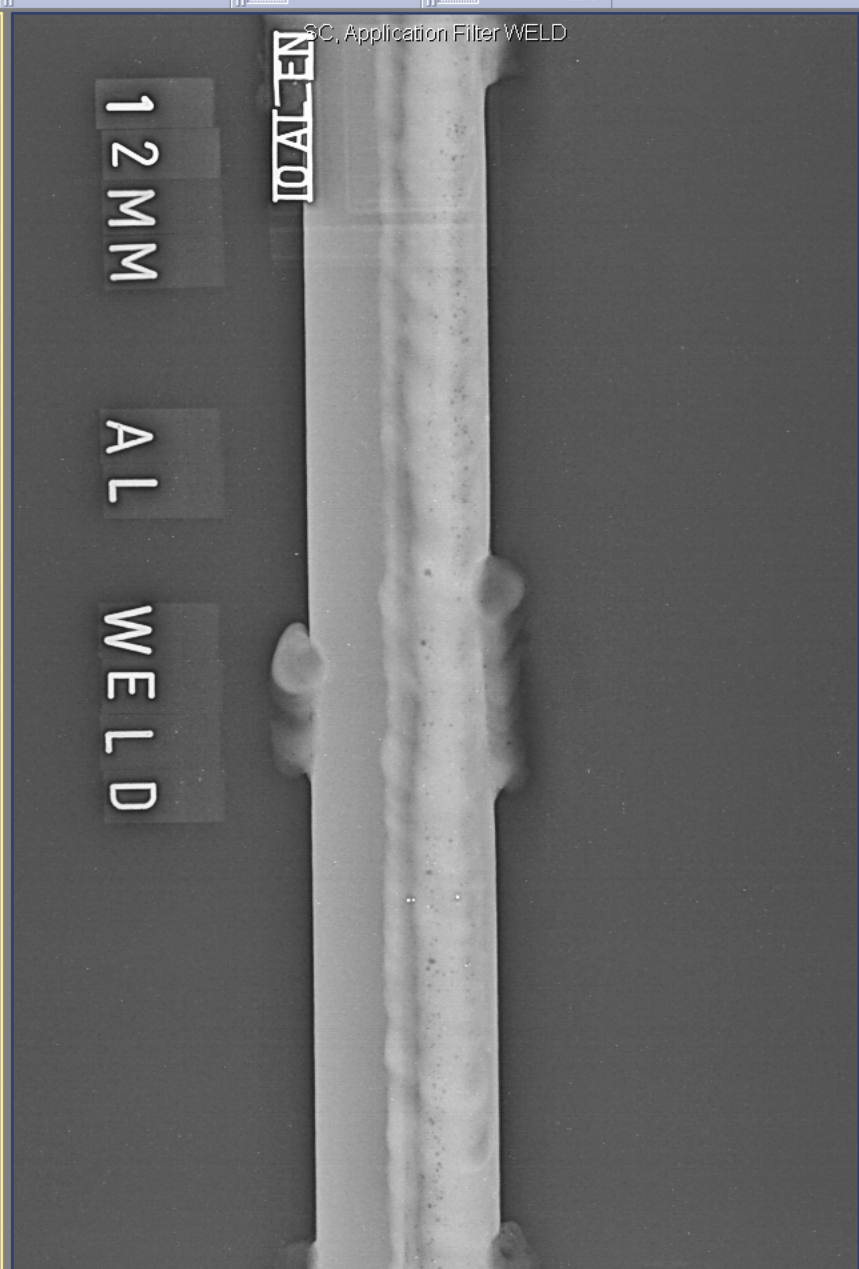
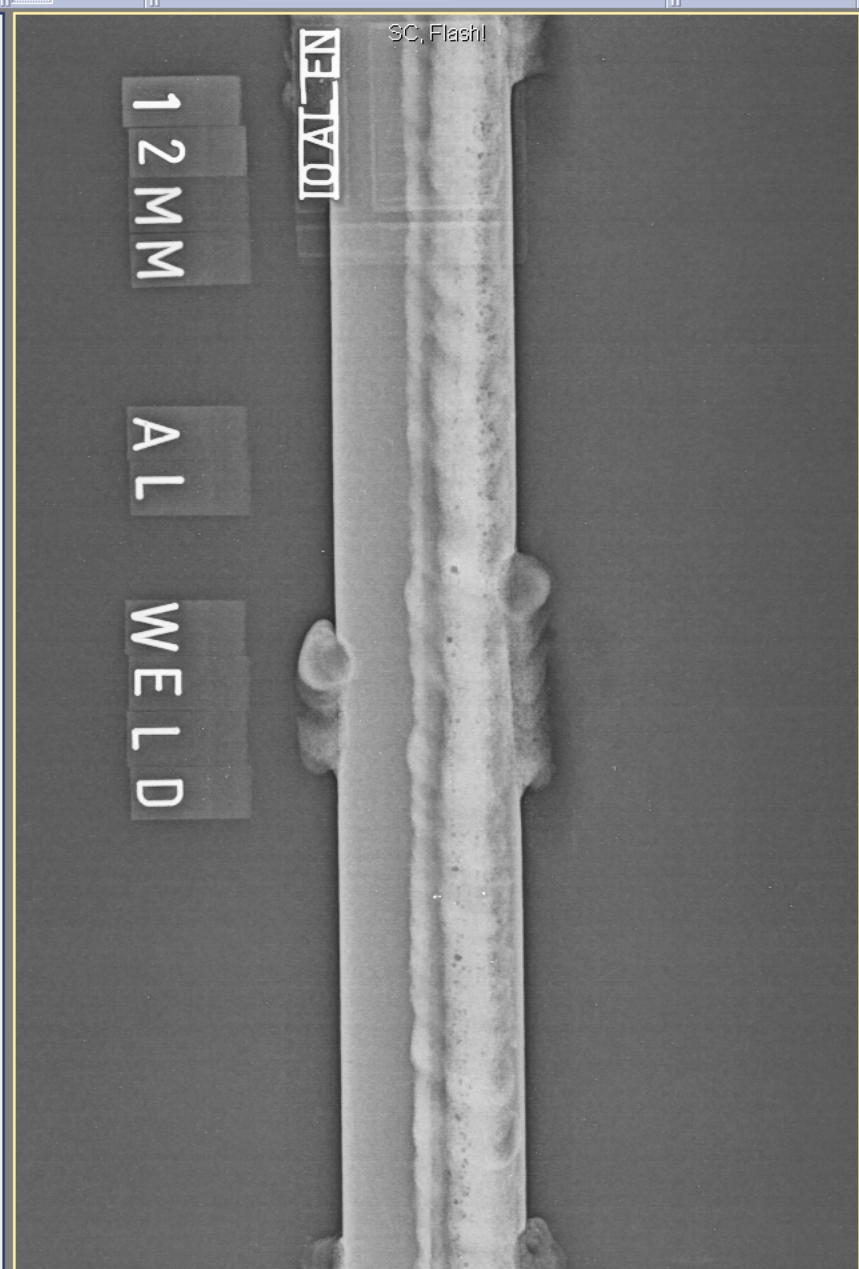
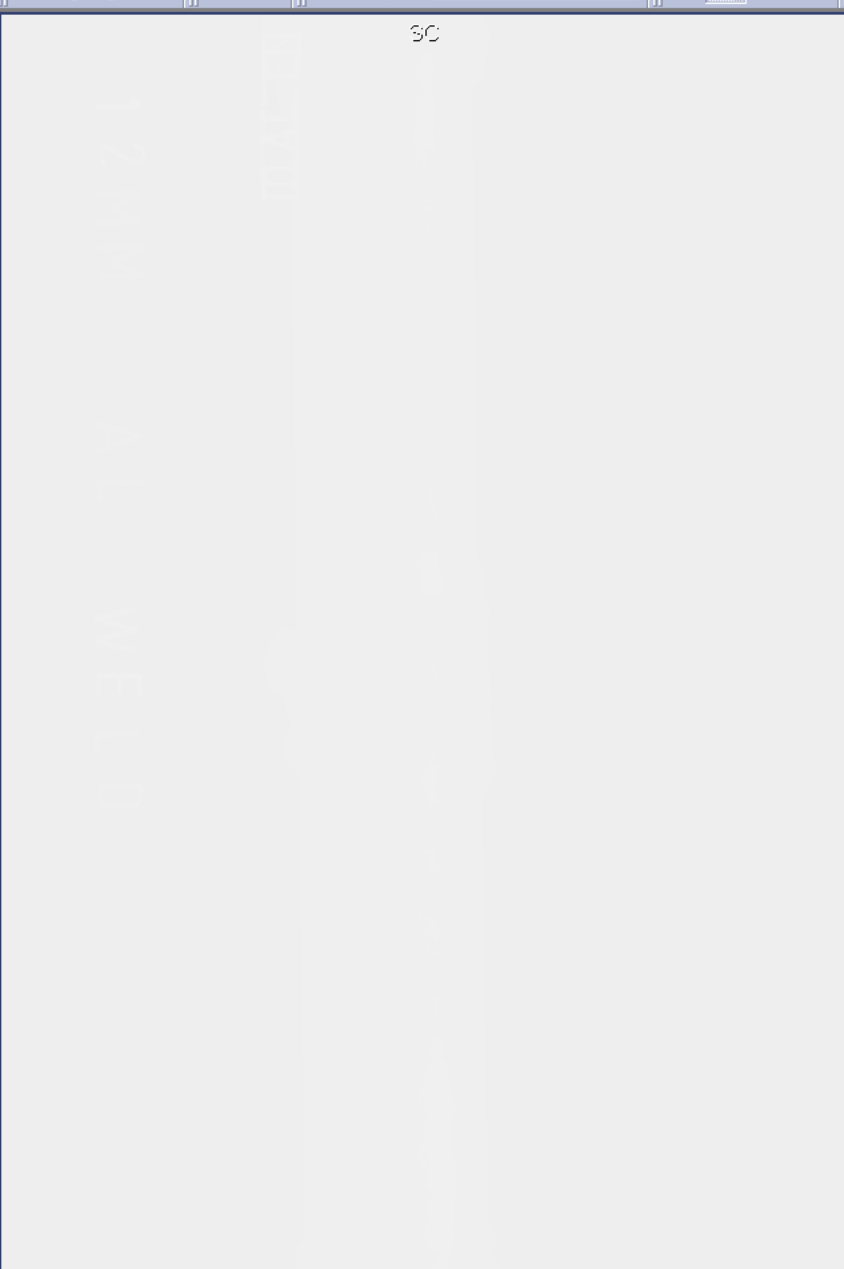


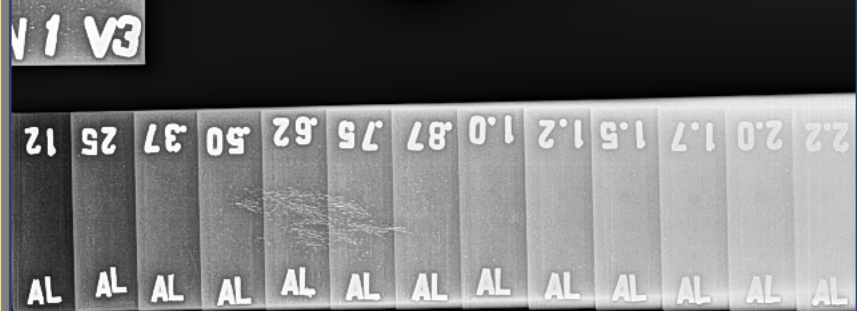
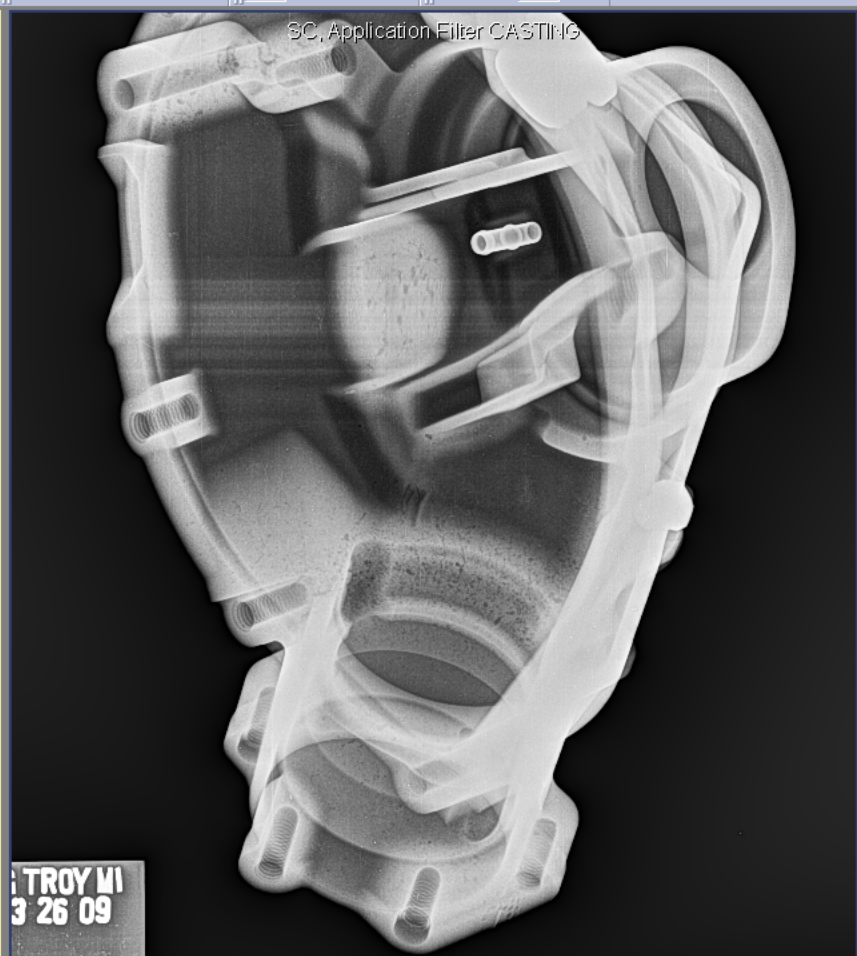
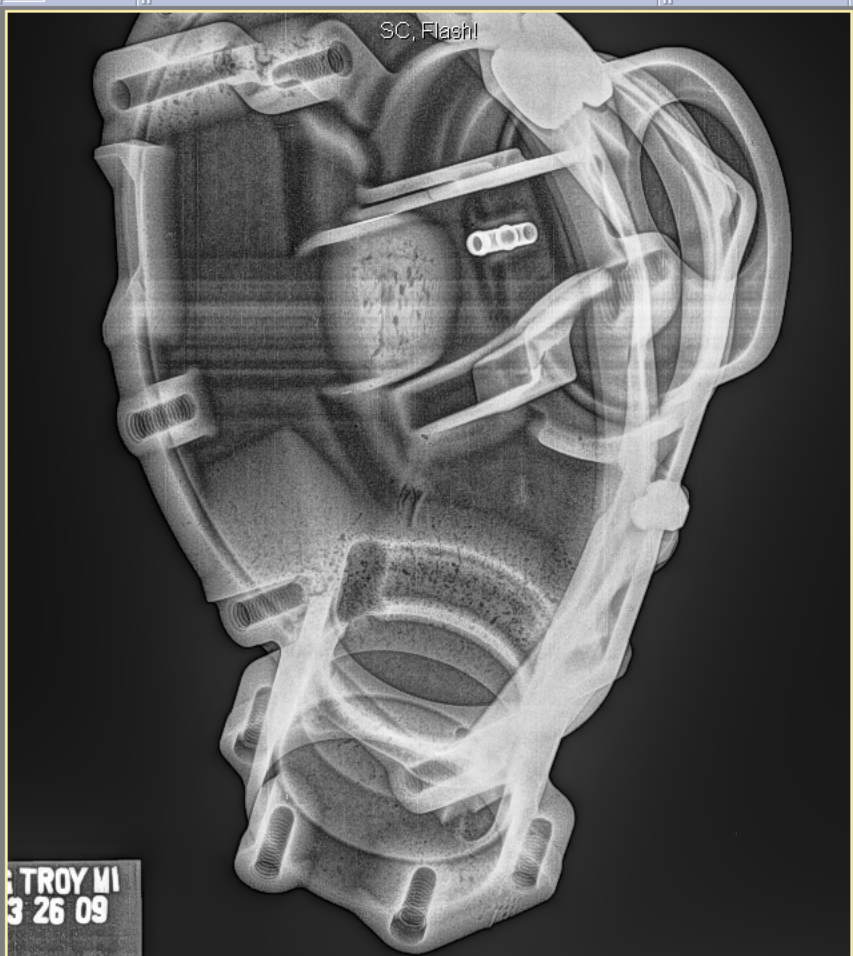
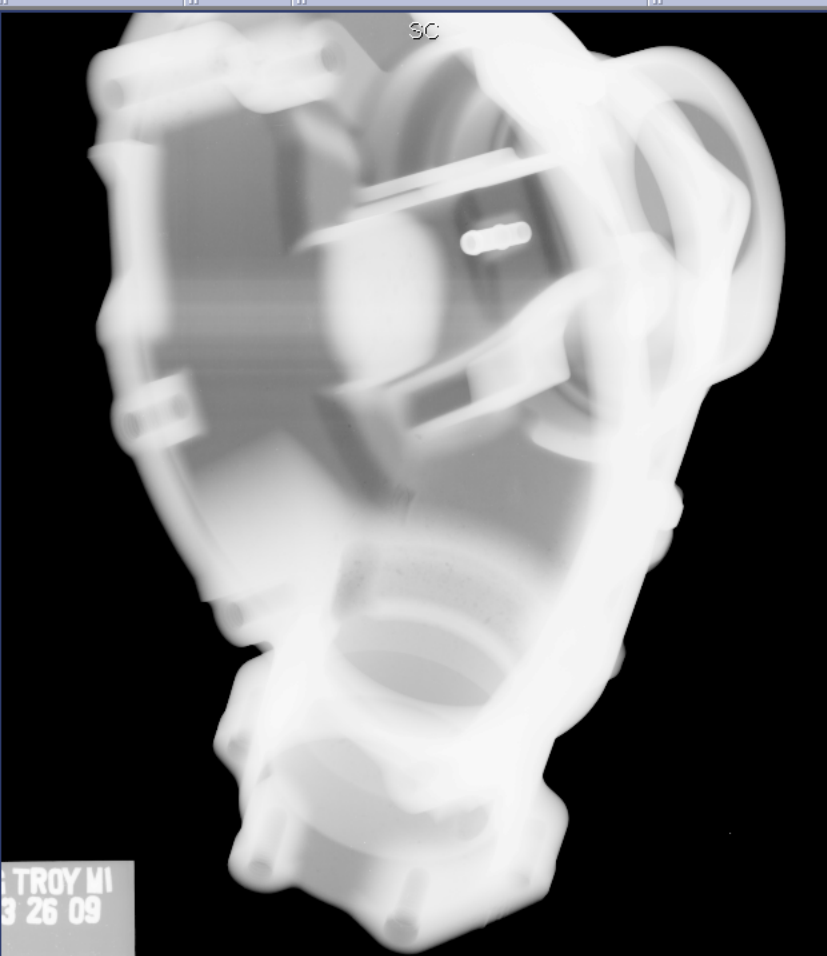
















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