ISONIC 3510T, 3510, 2010, 2009

PAUT Inspection of Carbon Fiber (CFRP) Raw Material, Parts, Assemblies

SONOTRON NDT

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The following functionality is provided for the inspection of CRFP raw material, parts, and assemblies:

- ⇨ Intuitive Image Guided PA Pulser Receiver with Beam Forming View
- ⇨ Operating Linear Array Probes Equipped with Delay Line
- ⇨ B-Scan (Linear Scan) Cross Sectional Coverage and Imaging
- ⇨ Gate View B-Scan
- ⇨ FD B-Scan - Frequency Domain B-Scan
- ⇨ True-To-Geometry-Volume Corrected B-Scan (Linear Scan) Coverage for Planar Cross Section parts / sections of the material
- ⇨ Encoded and Time based Line Scanning with 100% Raw Data Capturing and Top (C-Scan)- / Side- / End- / 3D-Imaging
- ⇨ DAC / TCG Normalization
- ⇨ Independent on TCG Gain Per Focal Law Correction
- ⇨ Automatic Defects Alarming Upon C-Scan Acquisition Completed
- ⇨ Automatic Creation of Editable Defects Lis
- ⇨ Comprehensive Postrpocessing Including:
  - → Recovery and Evaluation of Captured A-Scans from the Recorded Cross Sectional Views (B-Scan) and C-Scans
  - → Recovery of Cross Sectional Views from the Recorded C-Scans
  - → Converting Recorded C-Scans or their Segments into 3D Images
  - → Off-Line Gain Manipulation
  - → Off-Line DAC to TCG / TCG to DAC toggling for all types of stored files (A-Scans, cross-sectional views, C-Scans, etc)
  - → Off-Line DAC Normalization of the Recorded Images / DAC Evaluation
  - → Off-Line editing of Gain per Shot Correction applied to the stored the Cross-sectional Views / C-Scan data
  - → Numerous Filtering / Reject Options (by Geometry / Position / By Amplitude / dB-to-DAC / etc)
  - → Defects Sizing
  - → Automatic Creation of Defect List and Storing it Into a Separate File
  - → Automatic Creating of Scanning Integrity Report
- ⇨ Automatic creating of inspection reports - hard copy / PDF File

Inspection of CFRP parts
Compression wave B-Scan coverage
32-elements linear array probe with delay line

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Inspection of CFRP parts
Compression wave B-Scan coverage
64-elements water filled rolling linear array probe with flexible silicon tire

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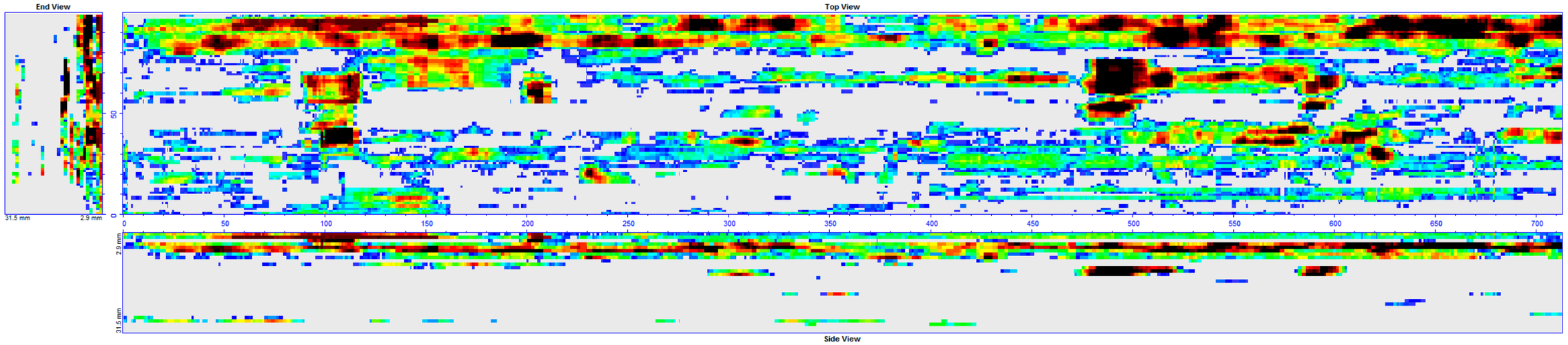
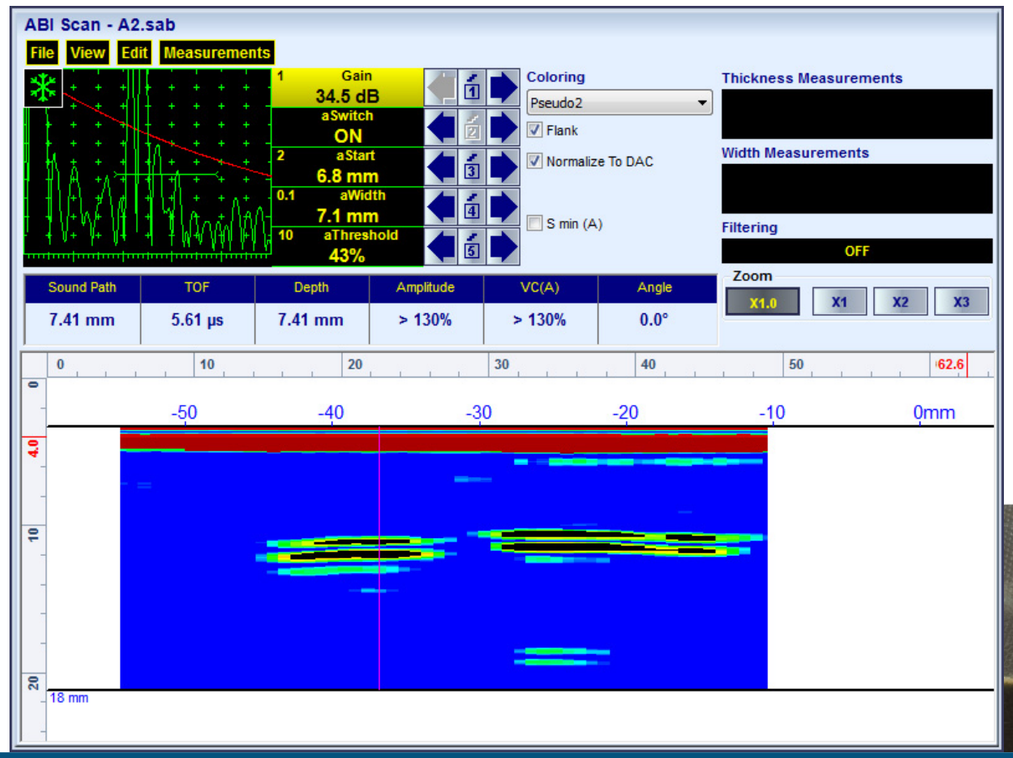


Inspection of CFRP parts
Compression wave B-Scan coverage
64-elements rolling linear array probe



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Inspection of CFRP parts
Compression wave B-Scan coverage with C-Scan imaging and recording using 64-elements linear array probe with delay line

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Inspection of CFRP assembly
Compression wave B-Scan coverage

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Inspection of heavy thickness CFRP part
Compression wave B-Scan coverage

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Inspection of CFRP plate
Compression wave B-Scan coverage with C-Scan imaging and recording

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Inspection of CFRP parts
Compression wave B-Scan coverage
64-elements rolling linear array probe

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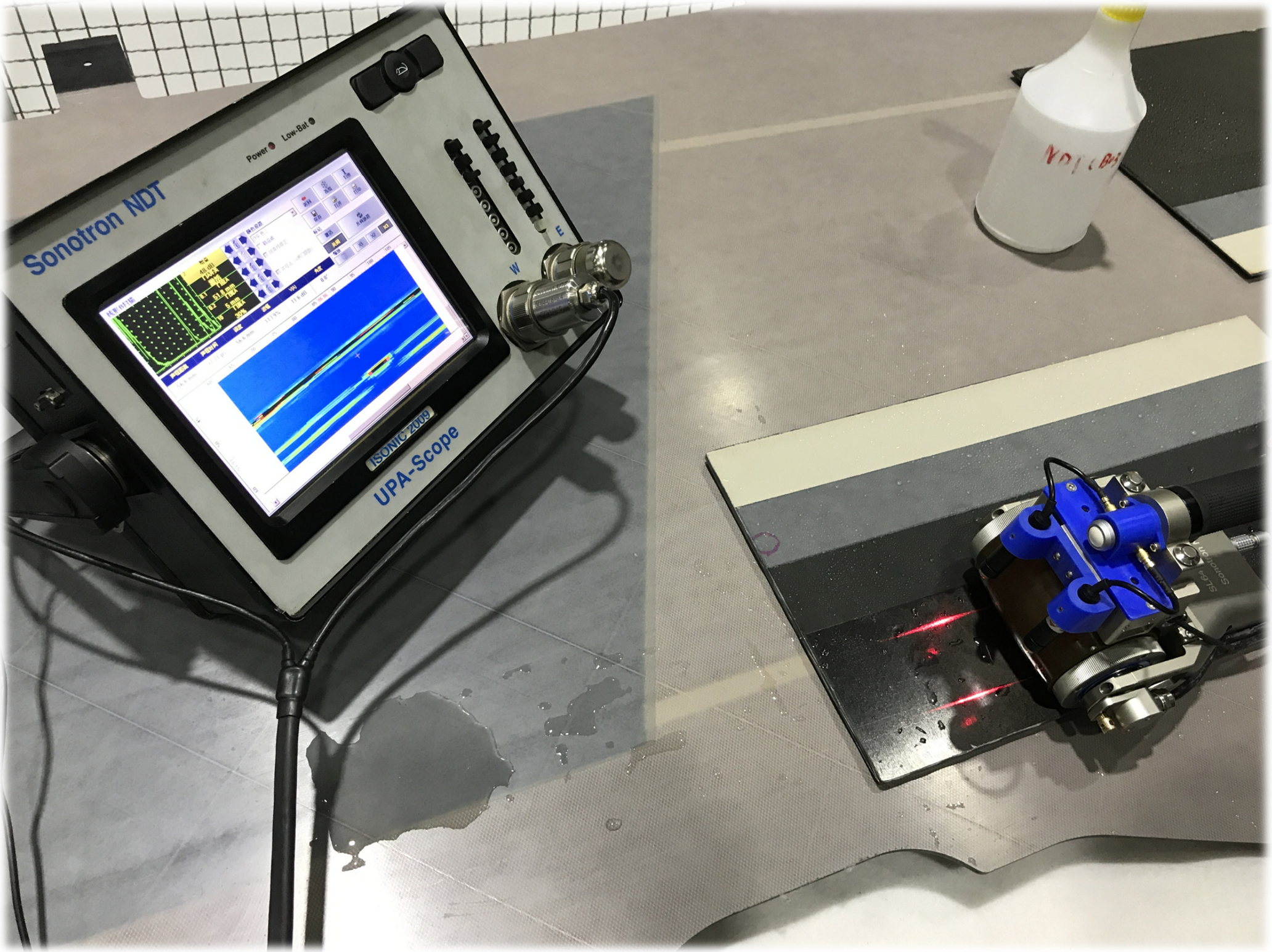

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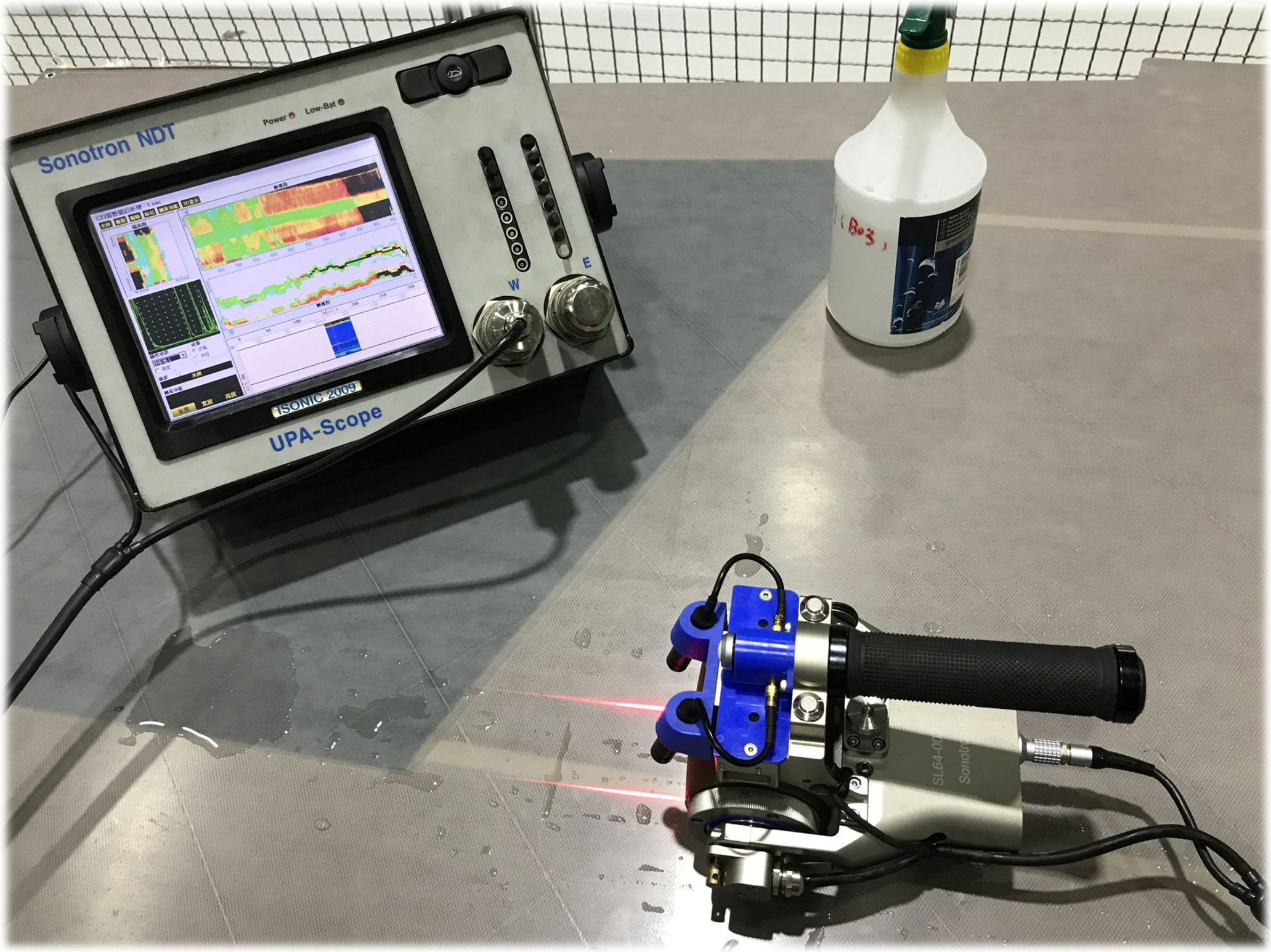

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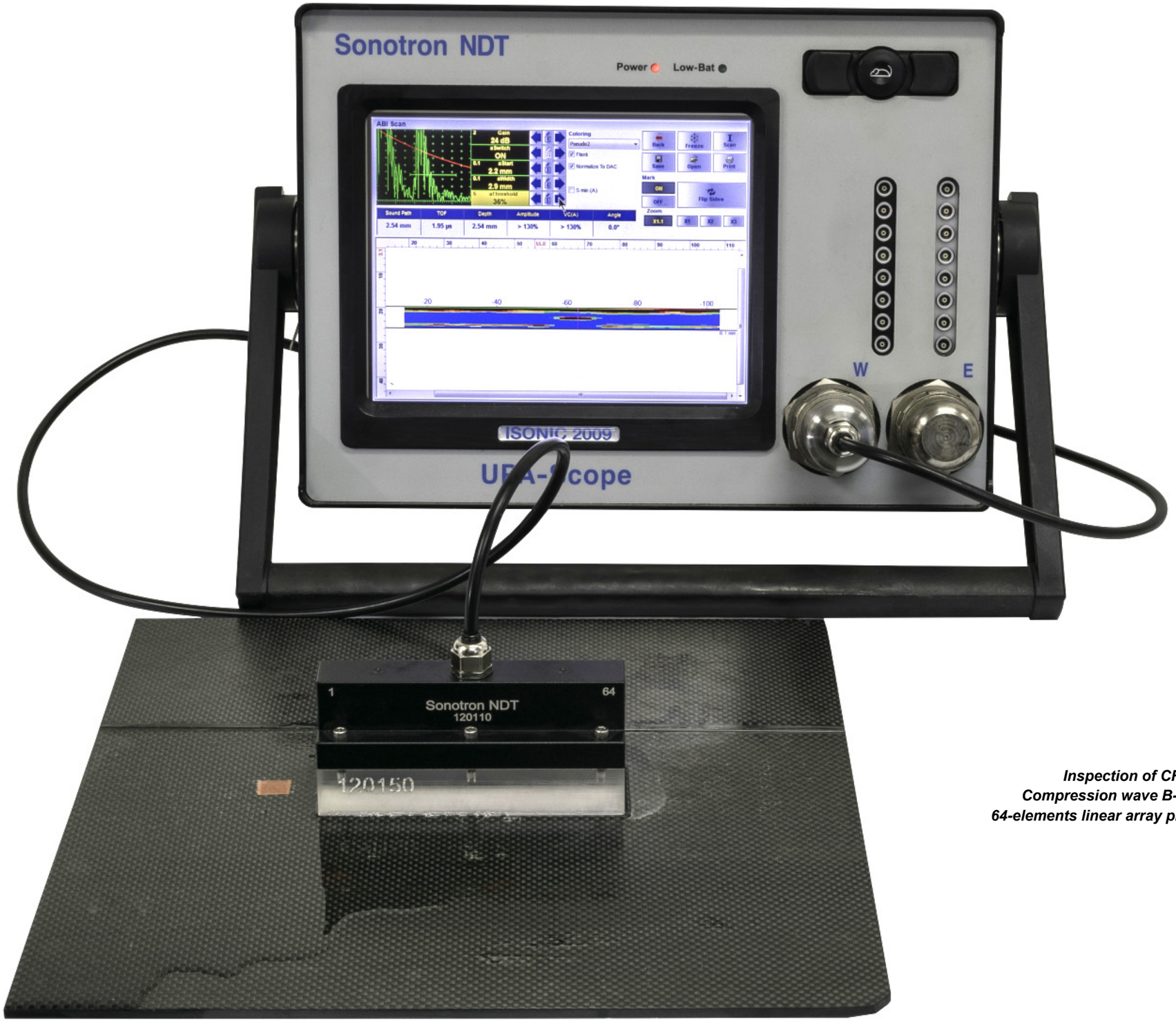

Inspection of CFRP parts
Compression wave B-Scan coverage
64-elements linear array probe with delay line

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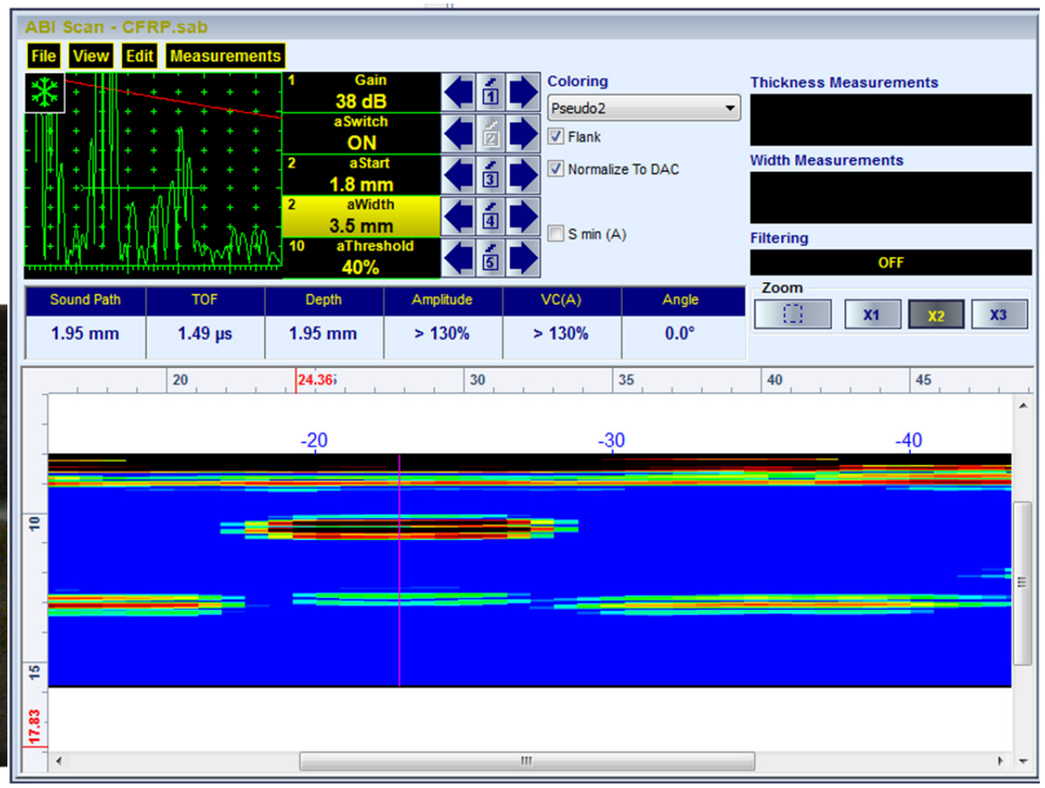

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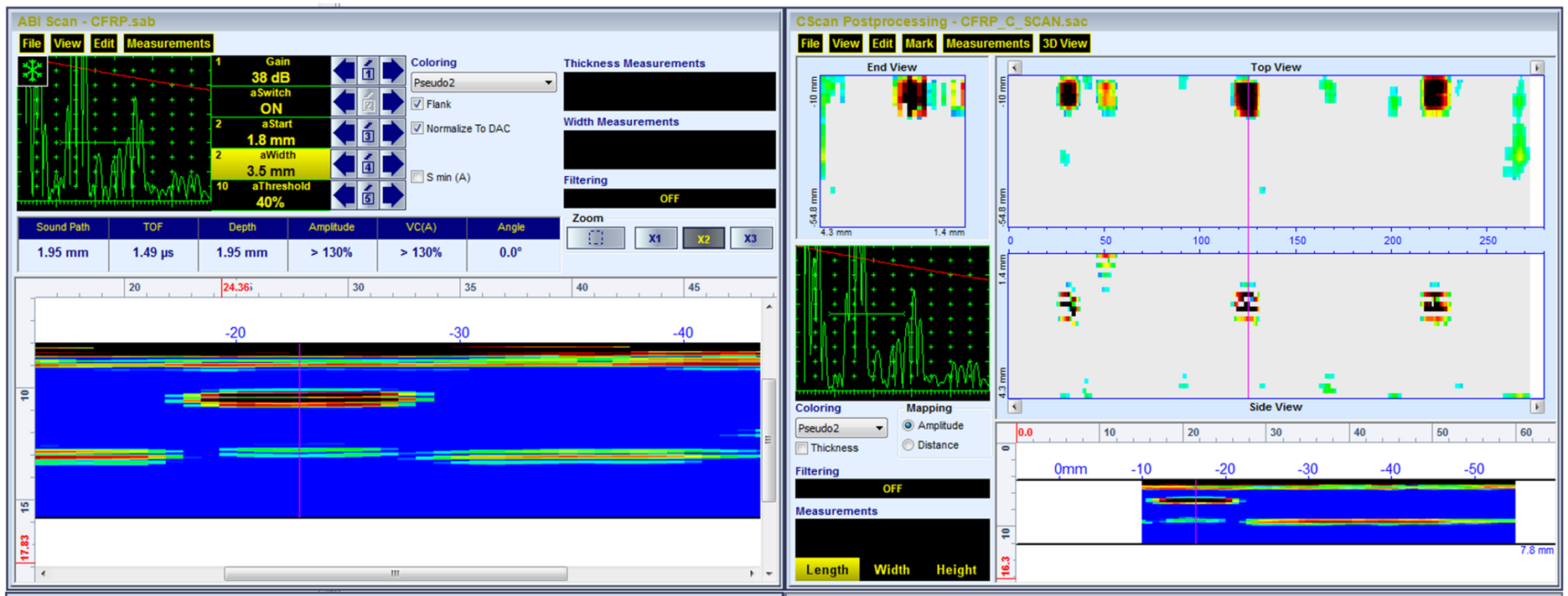
Typical Postprocessing Screenshots



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