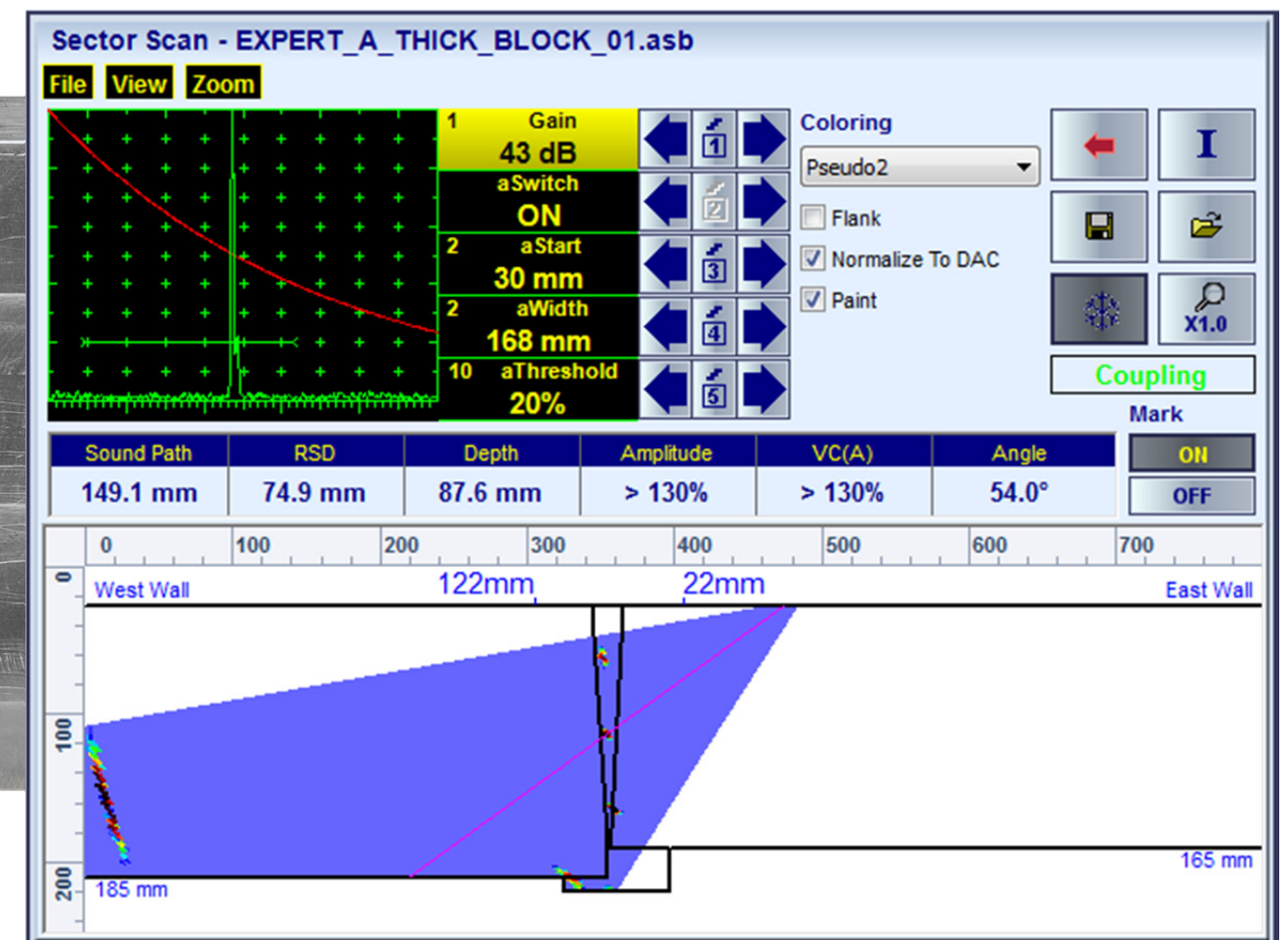
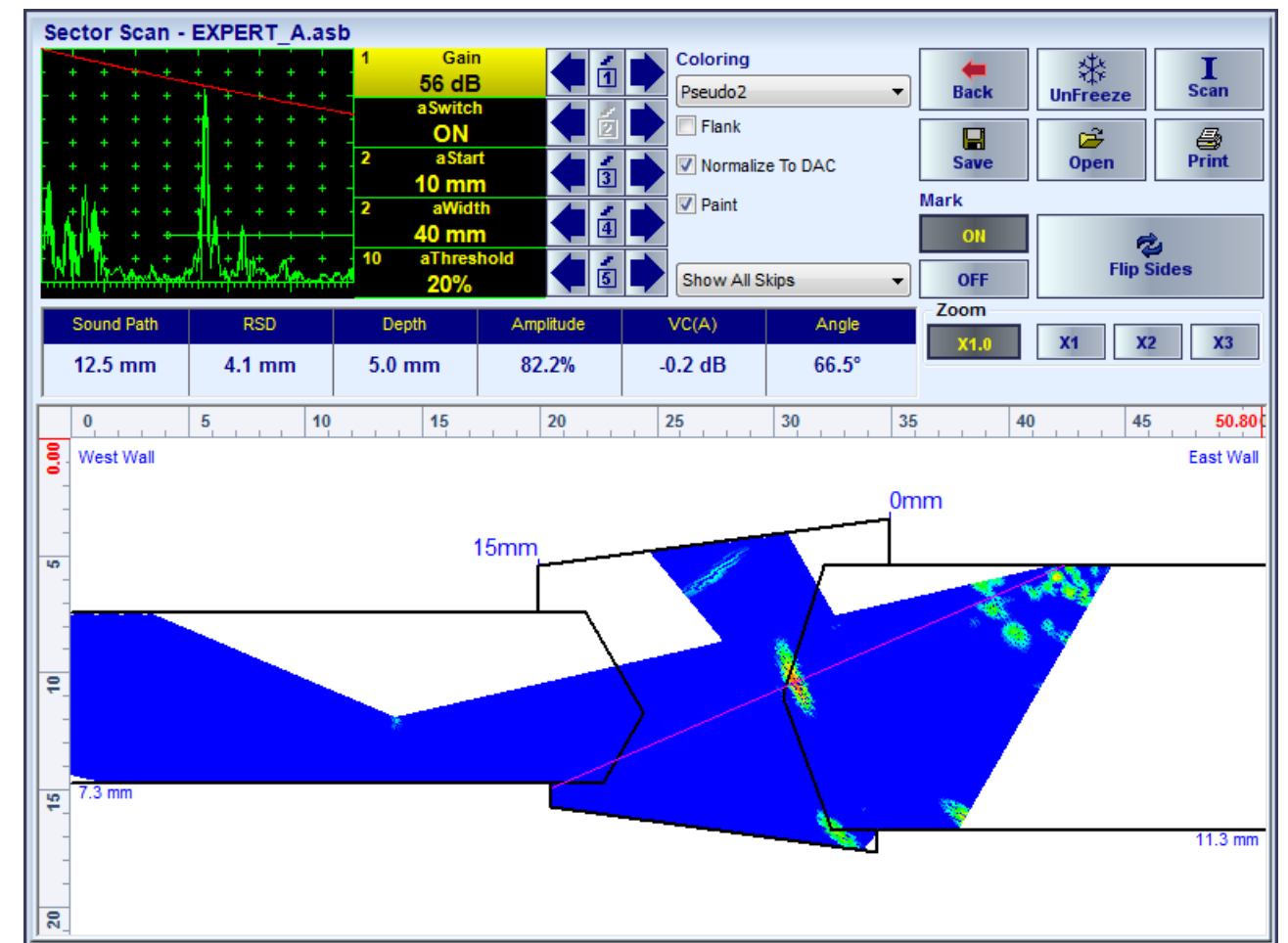




Inspection of heavy thickness narrow gap butt welds – calibration / performance demonstration block

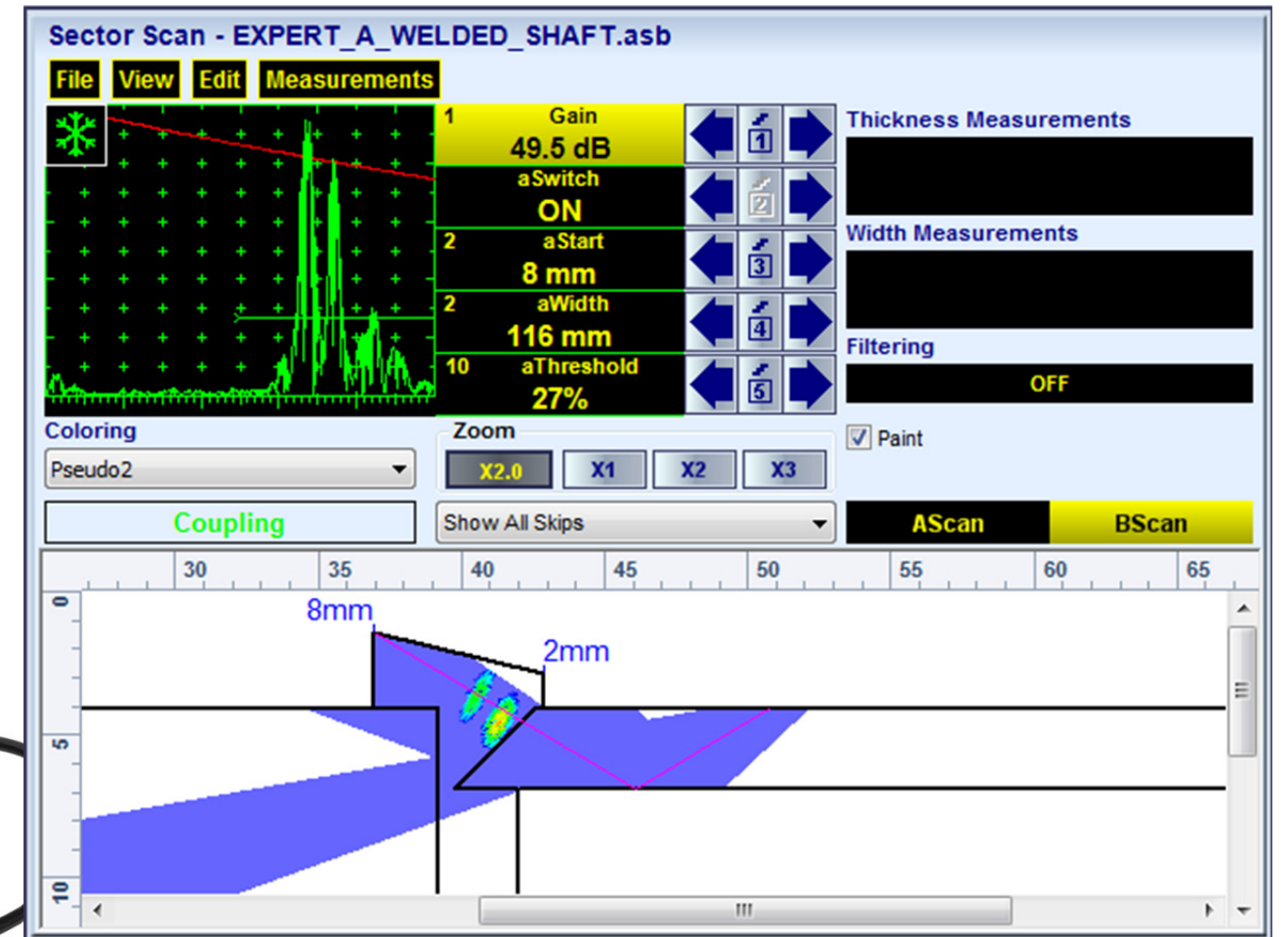
Item	Order Code (Part #)
<p>Inspection SW Application for ISONIC 3510 - Phased Array Modality: Expert A - Weld Inspection - planar and circumferential butt welds with symmetrical and asymmetrical bevel, unbeveled, misaligned, and the like</p> <ul style="list-style-type: none"> ⇒ True-To-Geometry Weld Overlay Volume Corrected Imaging - Cross Sectional and Top (C-Scan) - / Side- / End- View and 3D ⇒ Sector-Scan and B-Scan (Linear Scan) Cross Sectional Coverage ⇒ Intuitive Image Guided PA Pulsar Receiver with Beam Forming View ⇒ DAC / TCG Normalization ⇒ Built-In Weld Bevel Editor and Ray Tracer - Scanning Pattern Design ⇒ Independent on TCG Angle Gain Compensation / Gain Per Focal Law Correction ⇒ Automatic Coupling Monitor ⇒ Encoded and Time based C-Scan ⇒ 100% Raw Data Capturing ⇒ FMC/TFM Protocol for the data acquisition and imaging ⇒ Automatic Defects Alarming Upon C-Scan Acquisition Completed ⇒ Automatic Creation of Editable Defects List ⇒ Puzzling Suitable C-Scan Inspection Record - Ability of Scanning Weld In Several Shots from Both Side with Storing a Number of Files Mergeable Into a Single File Inspection Report ⇒ Comprehensive Postprocessing Including: <ul style="list-style-type: none"> → Recovery and Evaluation of Captured A-Scans from the Recorded Cross Sectional Views (Sector Scan / 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 Normalization of the Recorded Images / DAC Evaluation → Numerous Filtering / Reject Options (by Geometry / Position / By Amplitude db-toDAC / etc) → Defects Sizing → Creation of Defect List and Storing it Into a Separate File → Automatic creating of inspection reports - hard copy / PDF File 	SWA 3510025





Inspection of the asymmetrical cross section butt weld between the rings with the different wall thickness – heavy machinery industry





Inspection of the asymmetrical wall tube to cast ring circumferential asymmetrical weld

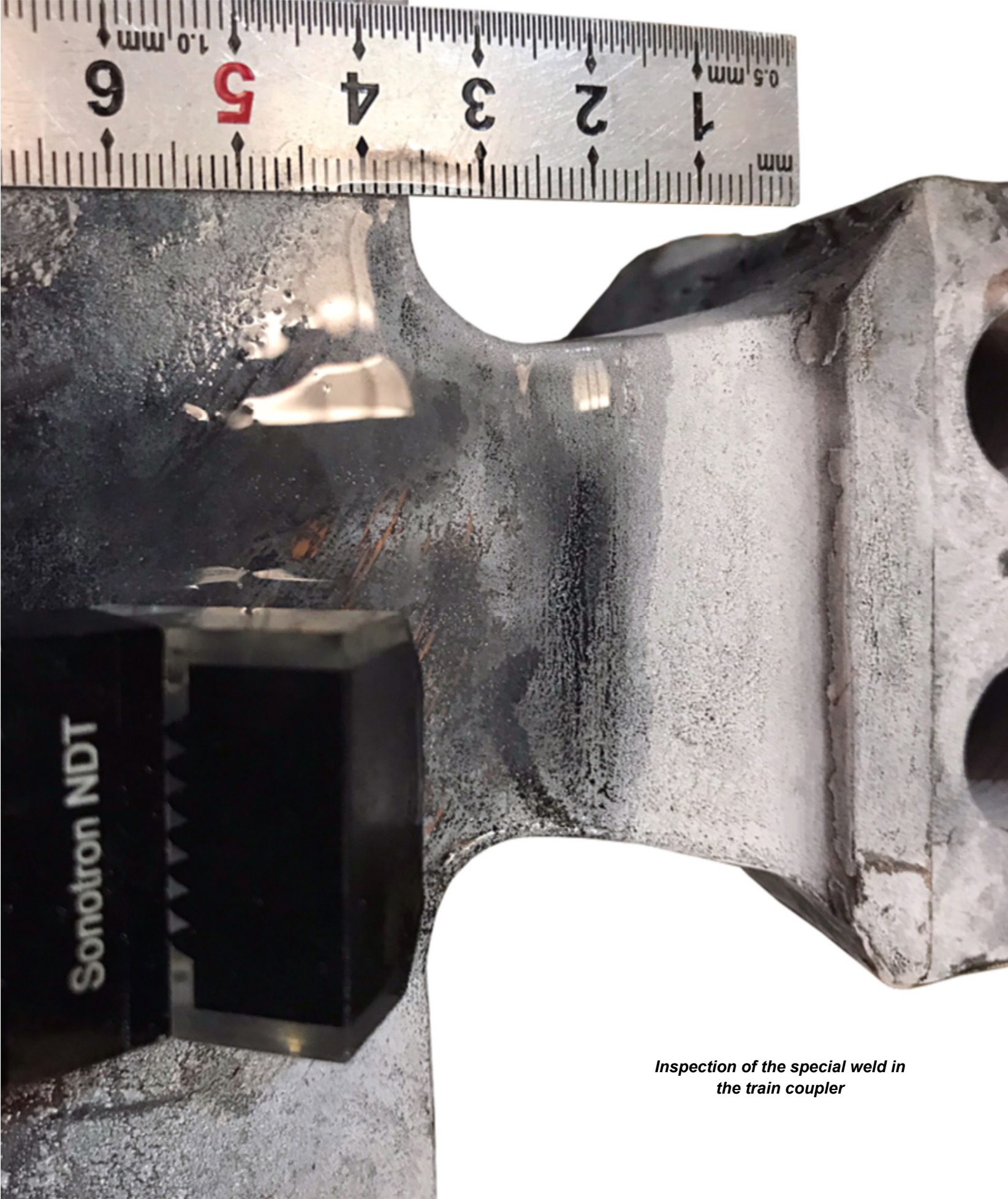


toggling S-Scan with Live FMC/TFM

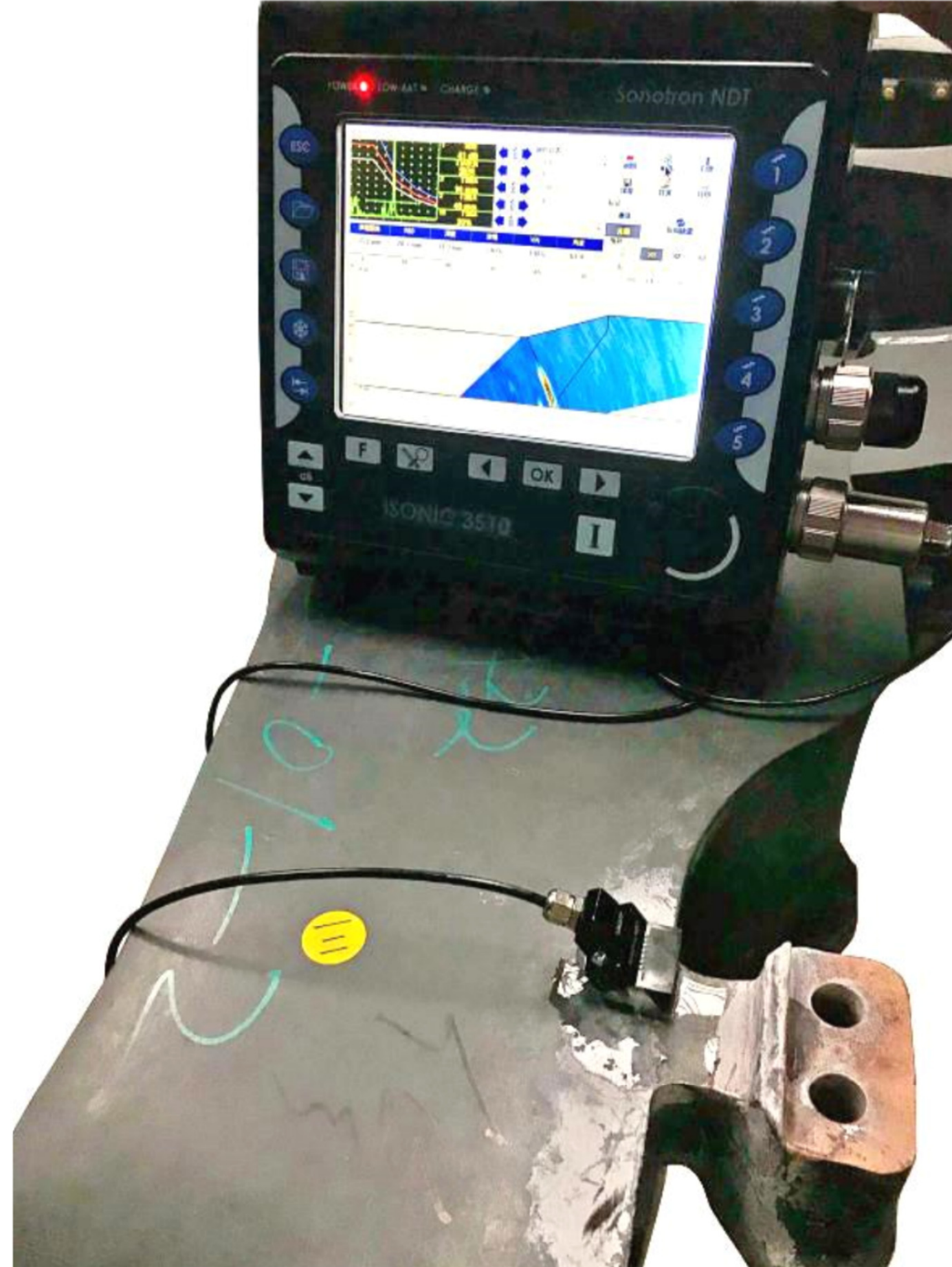


Inspection of the special weld in the train coupler





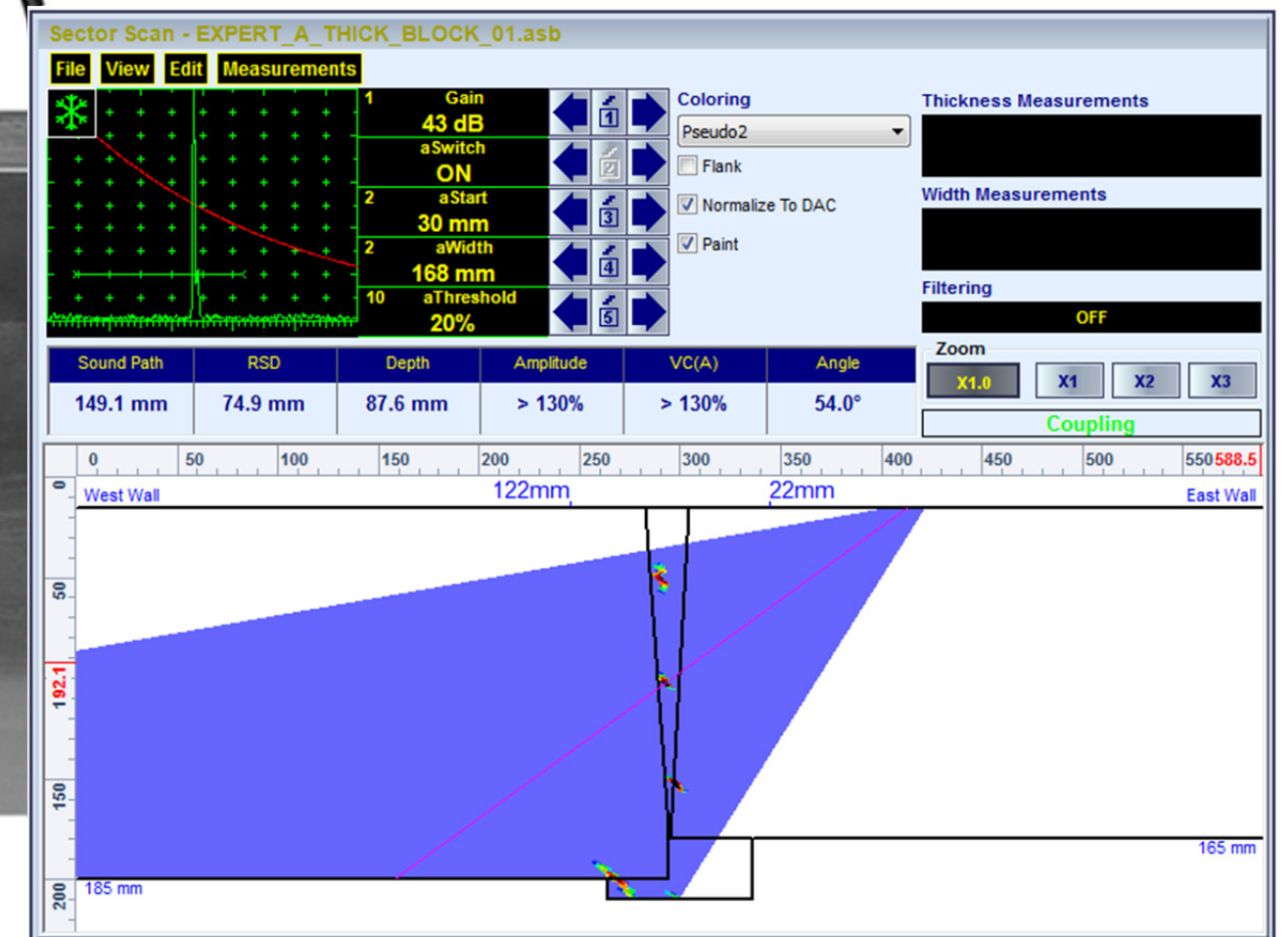
Inspection of the special weld in the train coupler

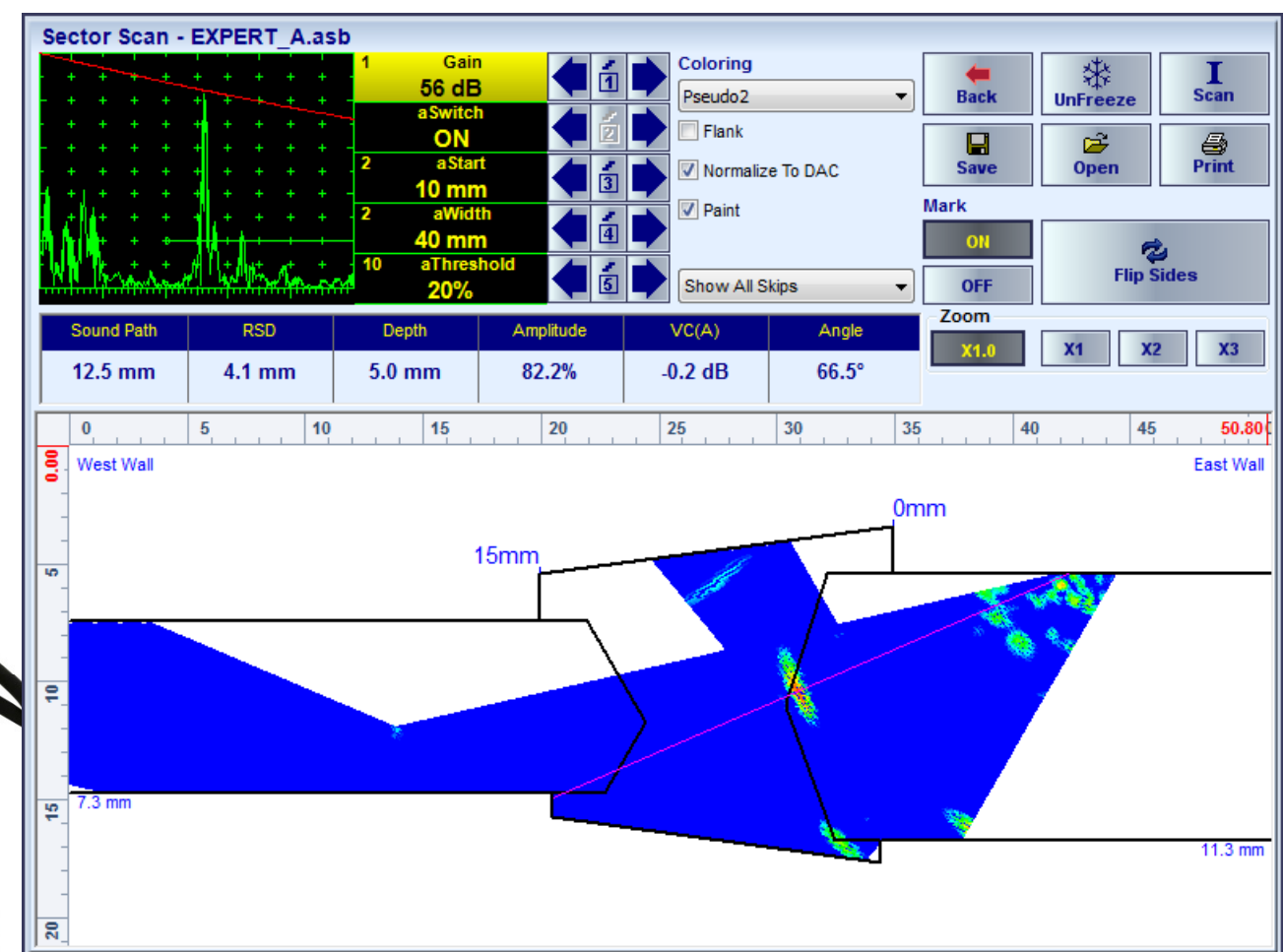




Inspection of heavy thickness narrow gap butt welds – calibration / performance demonstration block

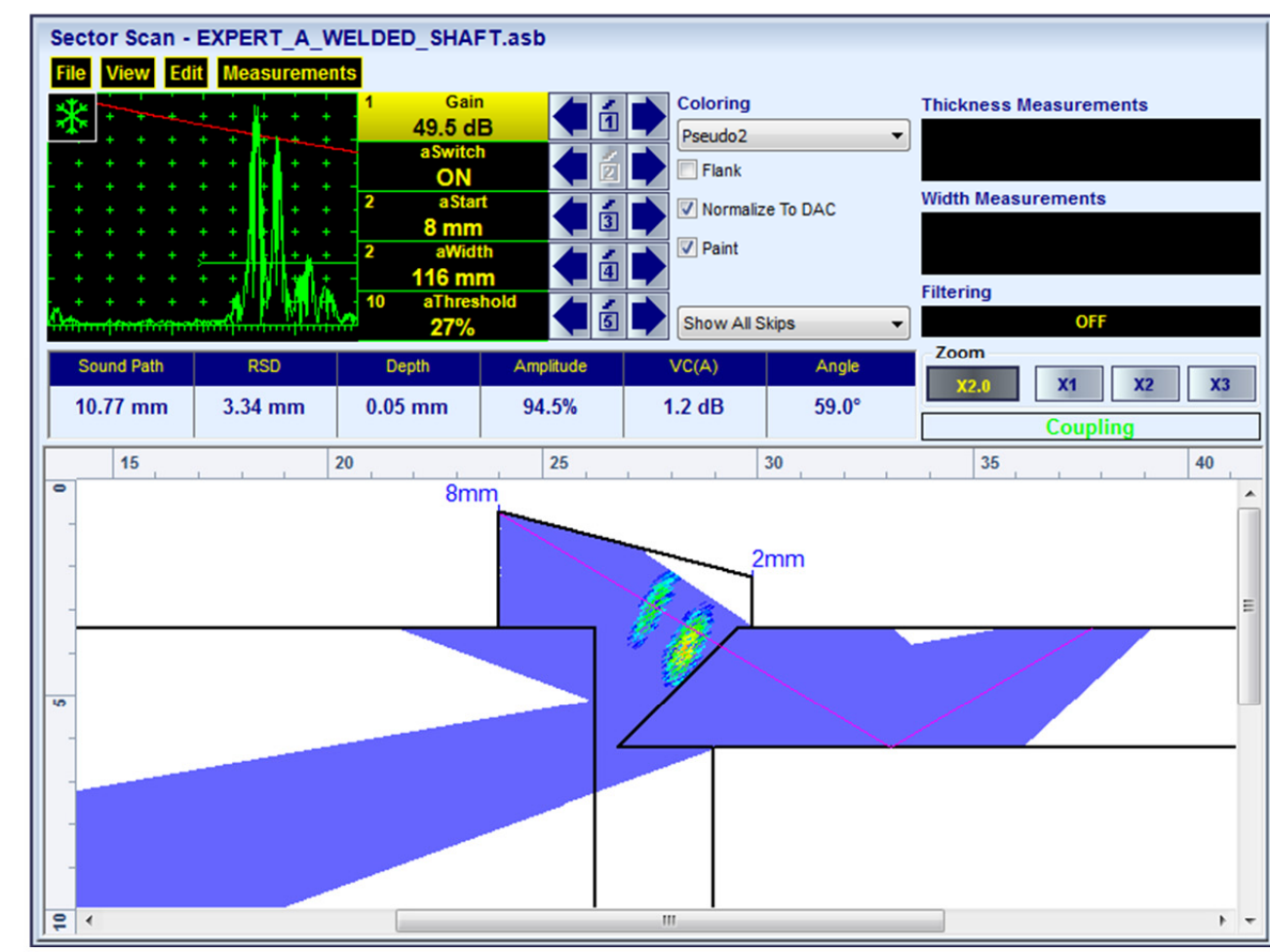
Item	Order Code (Part #)
<p>Inspection SW Application for ISONIC 2009 UPA-Scope - Phased Array Modality: Expert A - Weld Inspection - asymmetrical bevel planar cross section butt welds / girth welds</p> <ul style="list-style-type: none"> ⇒ True-To-Geometry Weld Overlay Volume Corrected Imaging - Cross Sectional and Top (C-Scan)- / Side- / End- View and 3D ⇒ Sector-Scan and B-Scan (Linear Scan) Cross Sectional Coverage ⇒ Intuitive Image Guided PA Pulser Receiver with Beam Forming View ⇒ DAC / TCG Normalization ⇒ Built-In Weld Bevel Editor and Ray Tracer - Scanning Pattern Design ⇒ Independent on TCG Angle Gain Compensation / Gain Per Focal Law Correction ⇒ Automatic Coupling Monitor ⇒ Encoded and Time based C-Scan ⇒ 100% Raw Data Capturing ⇒ FMC/TFM Protocol for the data acquisition and imaging ⇒ Automatic Defects Alarming Upon C-Scan Acquisition Completed ⇒ Automatic Creation of Editable Defects List ⇒ Puzzling Suitable C-Scan Inspection Record - Ability of Scanning Weld In Several Shots from Both Side with Storing a Number of Files Mergeable Into a Single File Inspection Report ⇒ Comprehensive Postprocessing Including: <ul style="list-style-type: none"> → Recovery and Evaluation of Captured A-Scans from the Recorded Cross Sectional Views (Sector Scan / 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 Normalization of the Recorded Images / DAC Evaluation → Numerous Filtering / Reject Options (by Geometry / Position / By Amplitude / dB-to-DAC / etc) → Defects Sizing → Creation of Defect List and Storing it Into a Separate File → Automatic creating of inspection reports - hard copy / PDF File 	SWA 909825



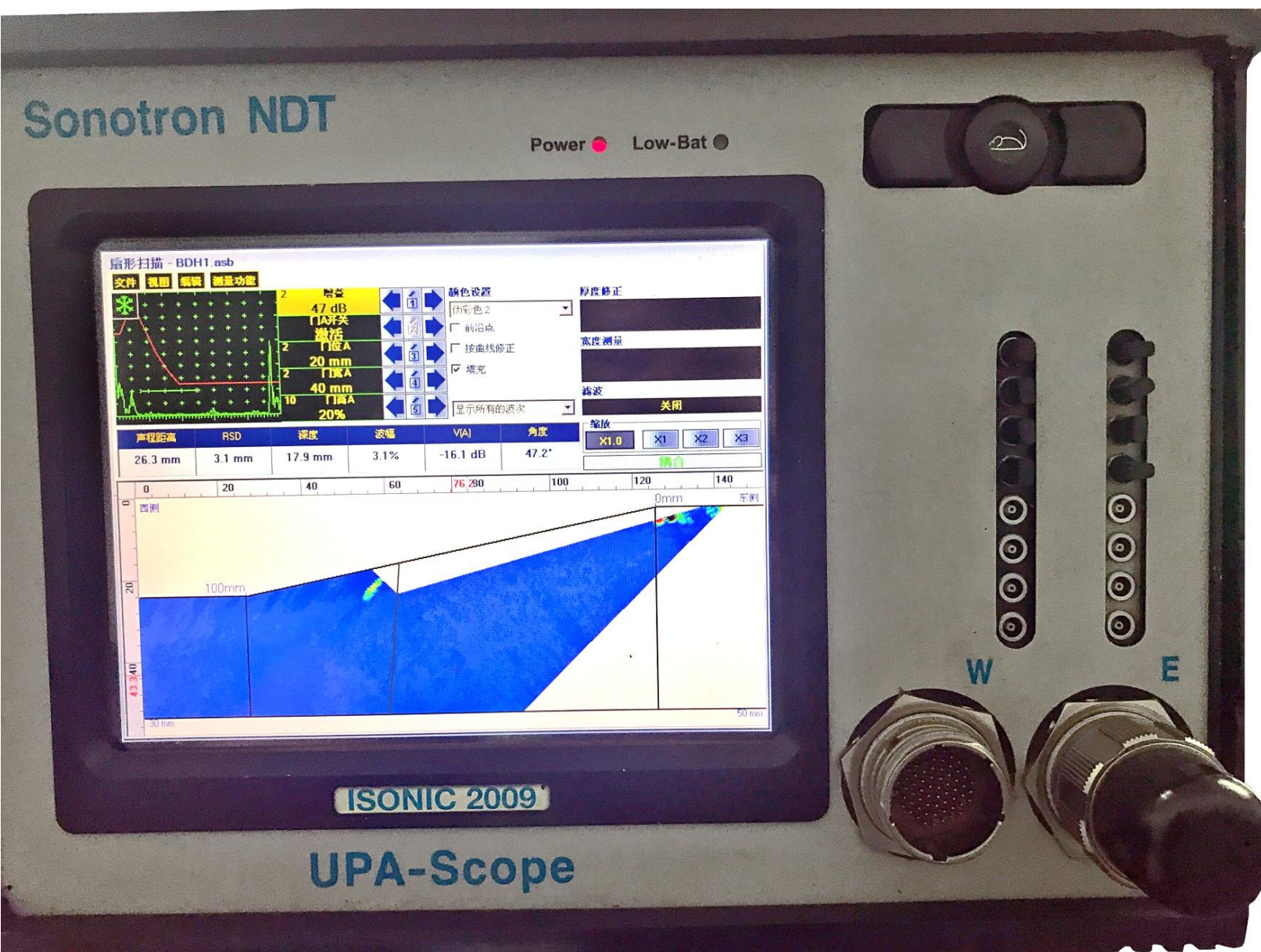
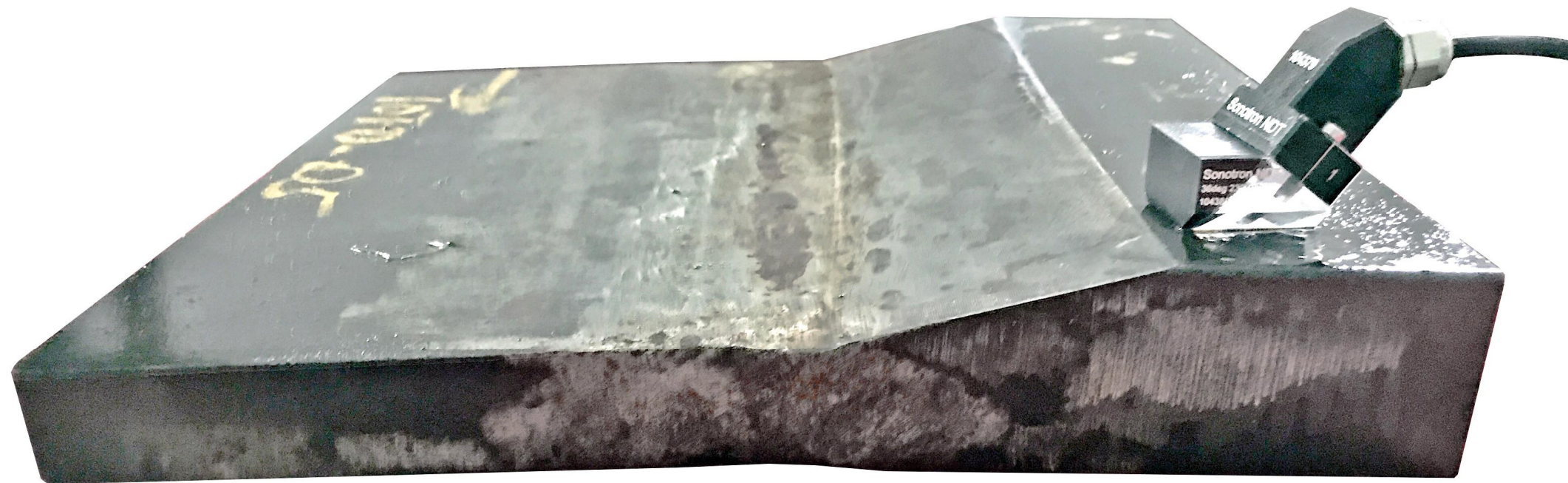


Inspection of the asymmetrical cross section butt weld between the rings with the different wall thickness – heavy machinery industry





Inspection of the asymmetrical wall tube to cast ring circumferential asymmetrical weld



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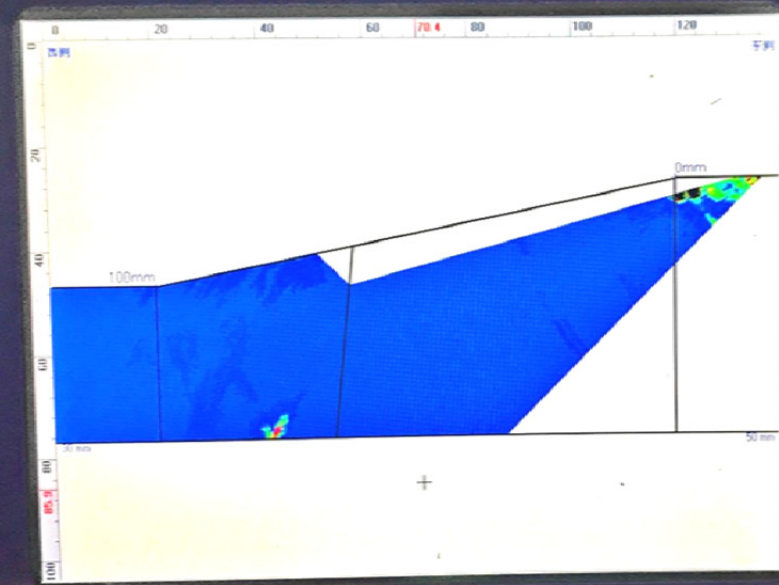


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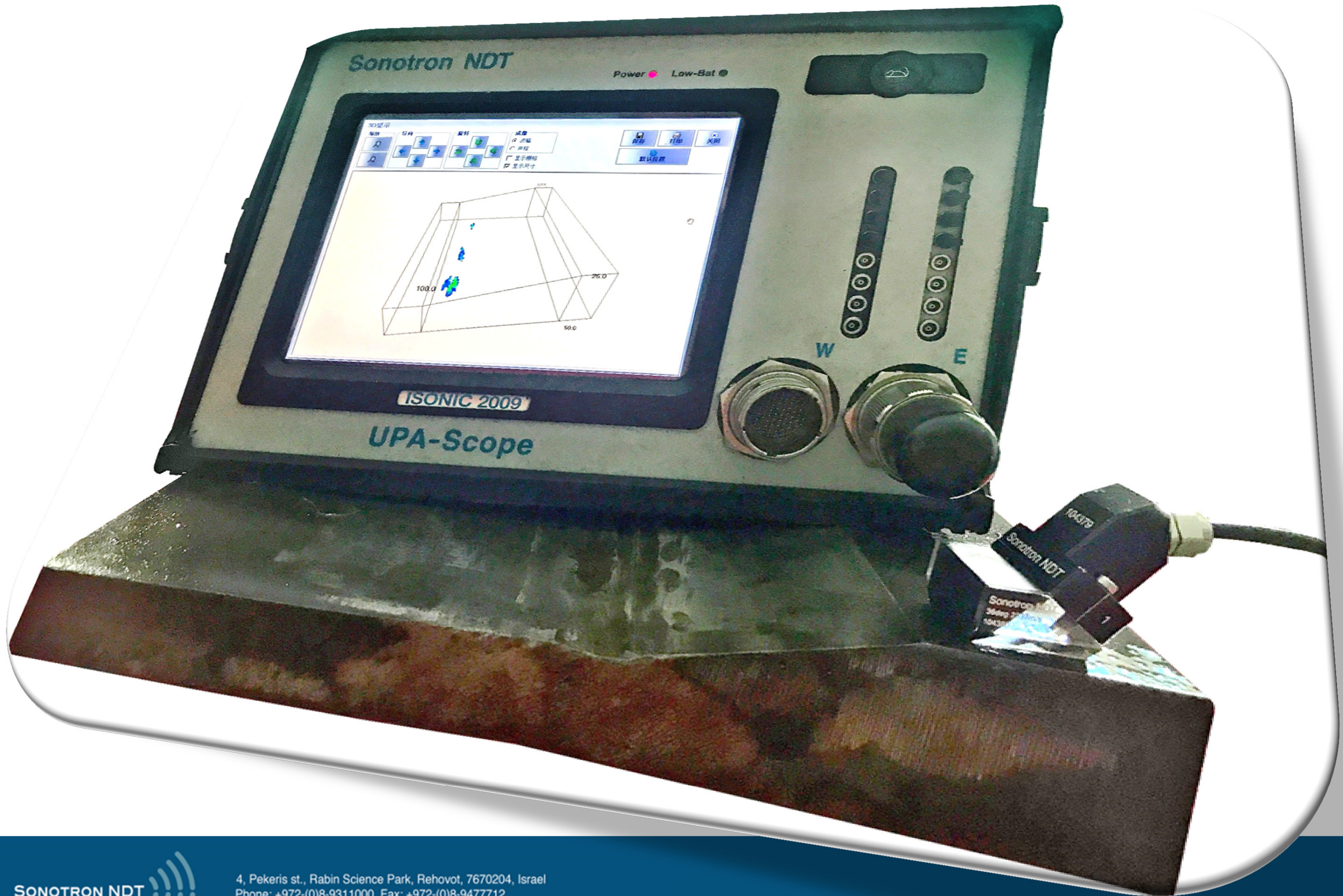
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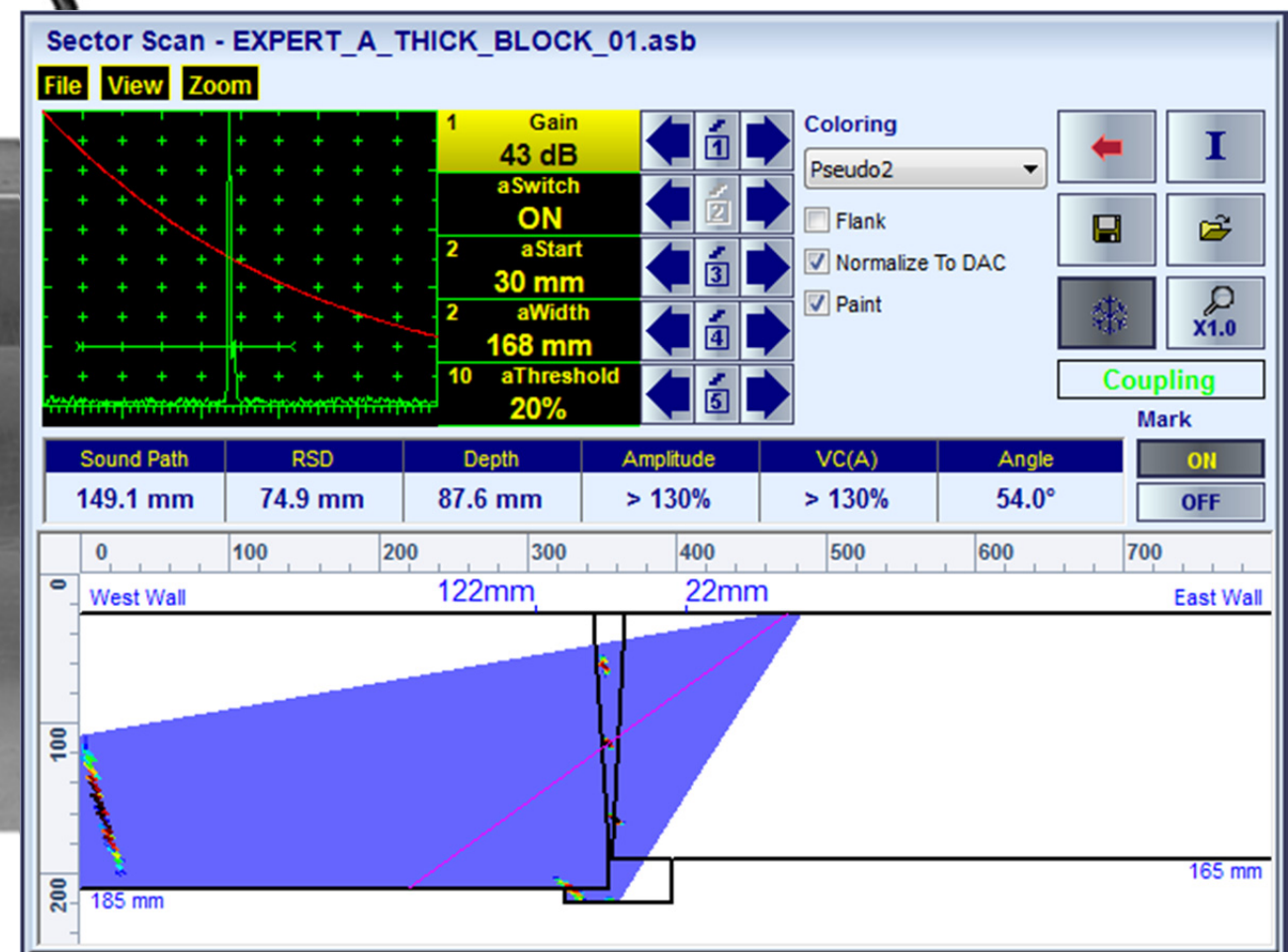
UPA-Scope

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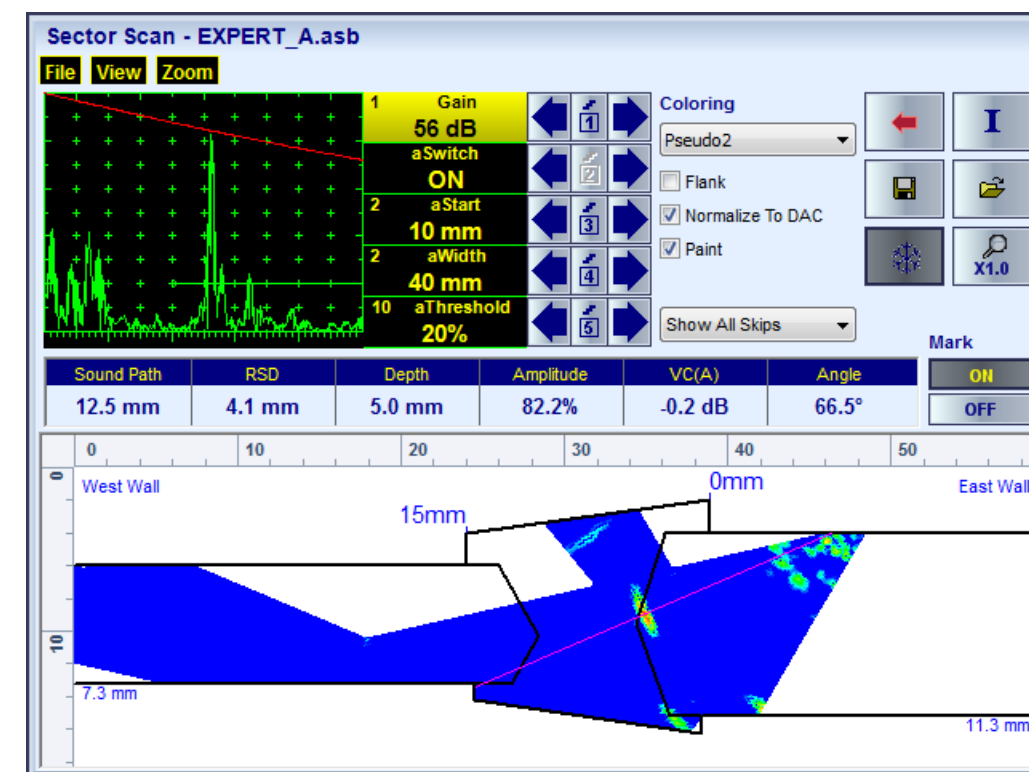




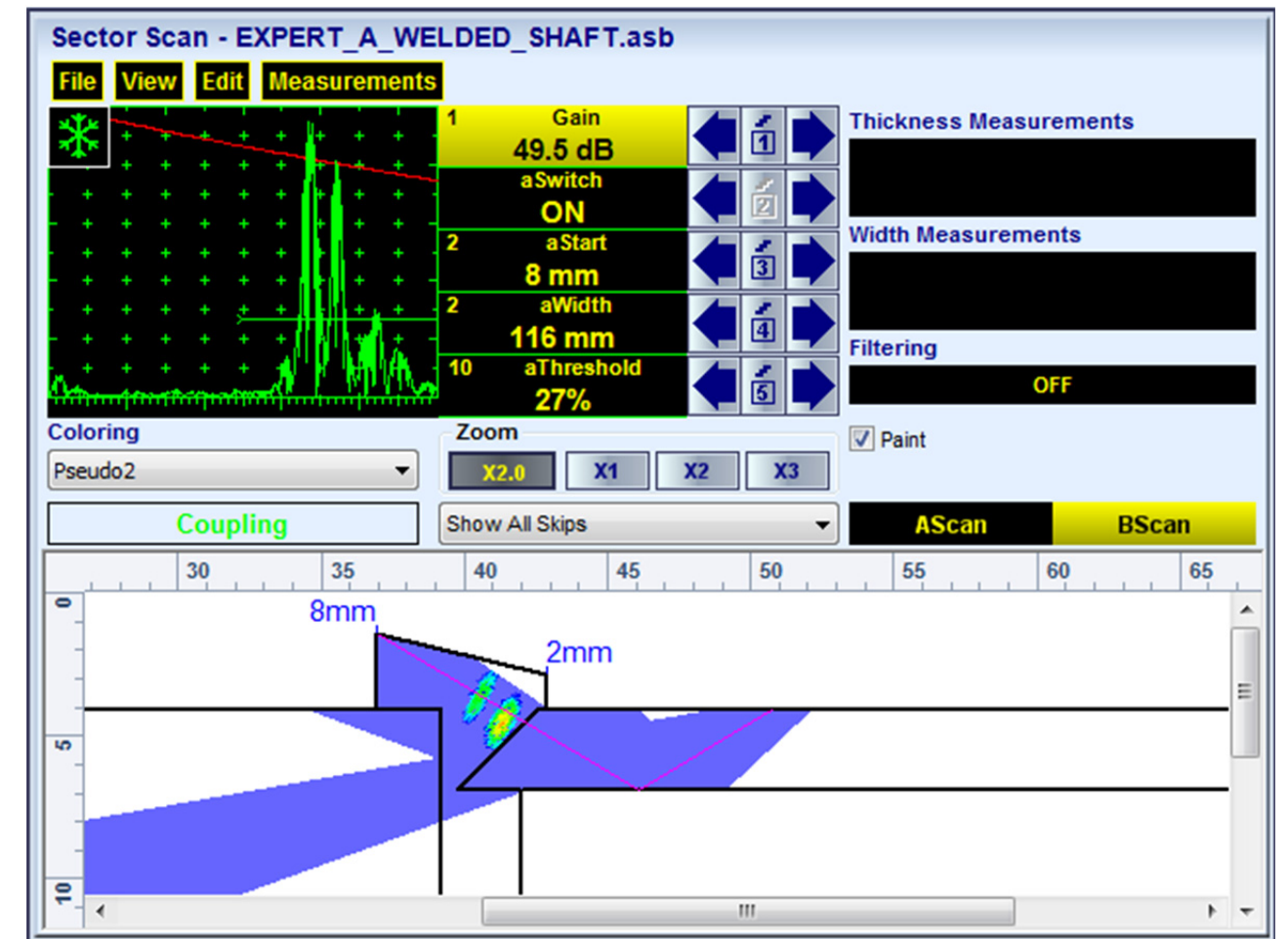
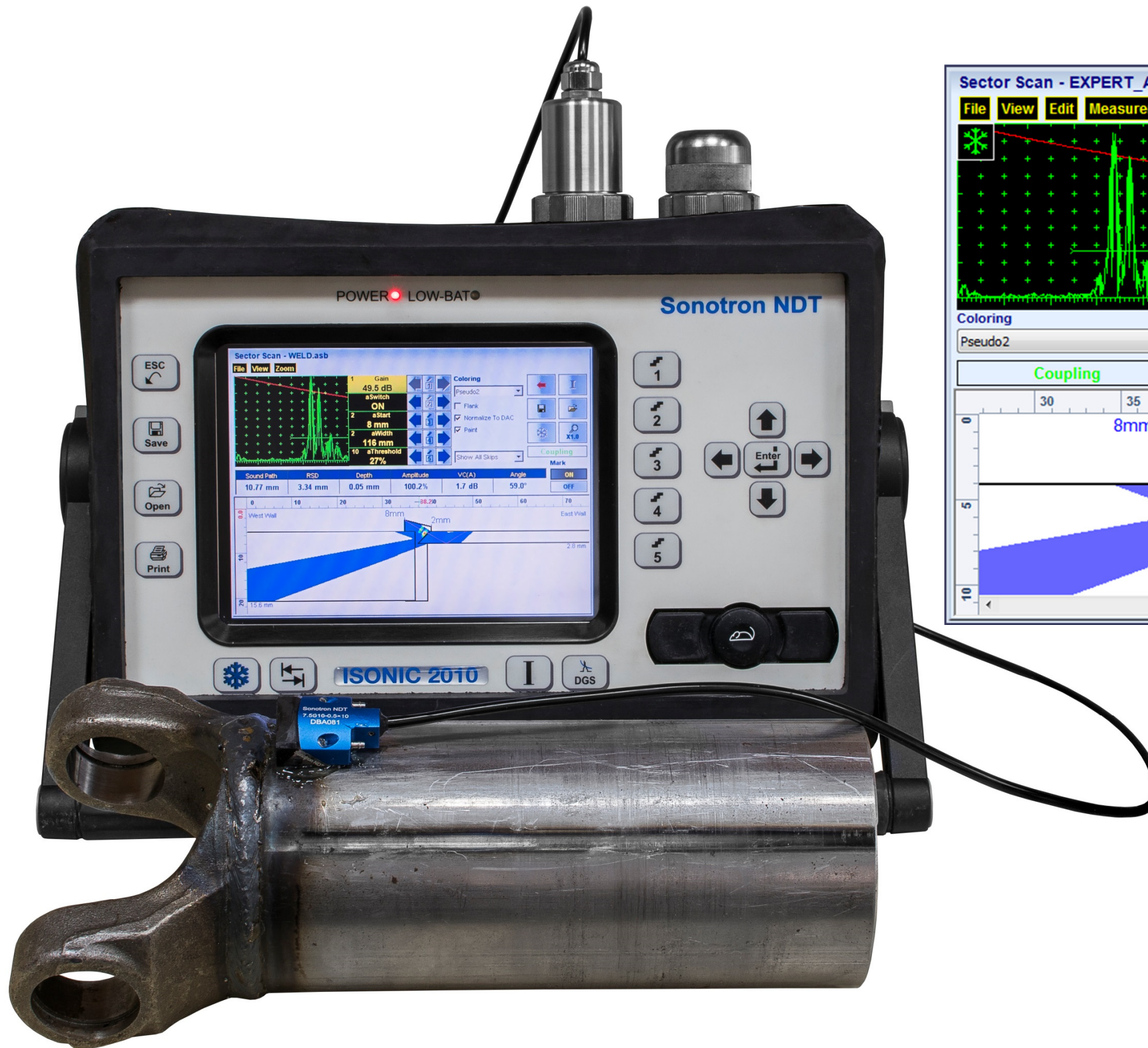
Item	Order Code (Part ##)
<p>Inspection SW Application for ISONIC 2010 / ISONIC 2010 EL - Phased Array Modality: Expert A - Weld Inspection - asymmetrical bevel planar cross section butt welds / girth welds</p> <ul style="list-style-type: none"> ⇒ True-To-Geometry Weld Overlay Volume Corrected Imaging - Cross Sectional and Top (C-Scan) - / Side- / End- View and 3D ⇒ Sector-Scan and B-Scan (Linear Scan) Cross Sectional Coverage ⇒ Intuitive Image Guided PA Pulsar Receiver with Beam Forming View ⇒ DAC / TCG Normalization ⇒ Built-In Weld Bevel Editor and Ray Tracer - Scanning Pattern Design ⇒ Independent on TCG Angle Gain Compensation / Gain Per Focal Law Correction ⇒ Automatic Coupling Monitor ⇒ Encoded and Time based C-Scan ⇒ 100% Raw Data Capturing ⇒ FMC/TFM Protocol for the data acquisition and imaging ⇒ Automatic Defects Alarming Upon C-Scan Acquisition Completed ⇒ Automatic Creation of Editable Defects List ⇒ Puzzling Suitable C-Scan Inspection Record - Ability of Scanning Weld In Several Shots from Both Side with Storing a Number of Files Mergeable Into a Single File Inspection Report ⇒ Comprehensive Postprocessing Including: <ul style="list-style-type: none"> → Recovery and Evaluation of Captured A-Scans from the Recorded Cross Sectional Views (Sector Scan / 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 Normalization of the Recorded Images / DAC Evaluation → Numerous Filtering / Reject Options (by Geometry / Position / By Amplitude db-toDAC / etc) → Defects Sizing → Creation of Defect List and Storing it Into a Separate File → Automatic creating of inspection reports - hard copy / PDF File 	SWA 910825



Inspection of heavy thickness narrow gap butt welds – calibration / performance demonstration block



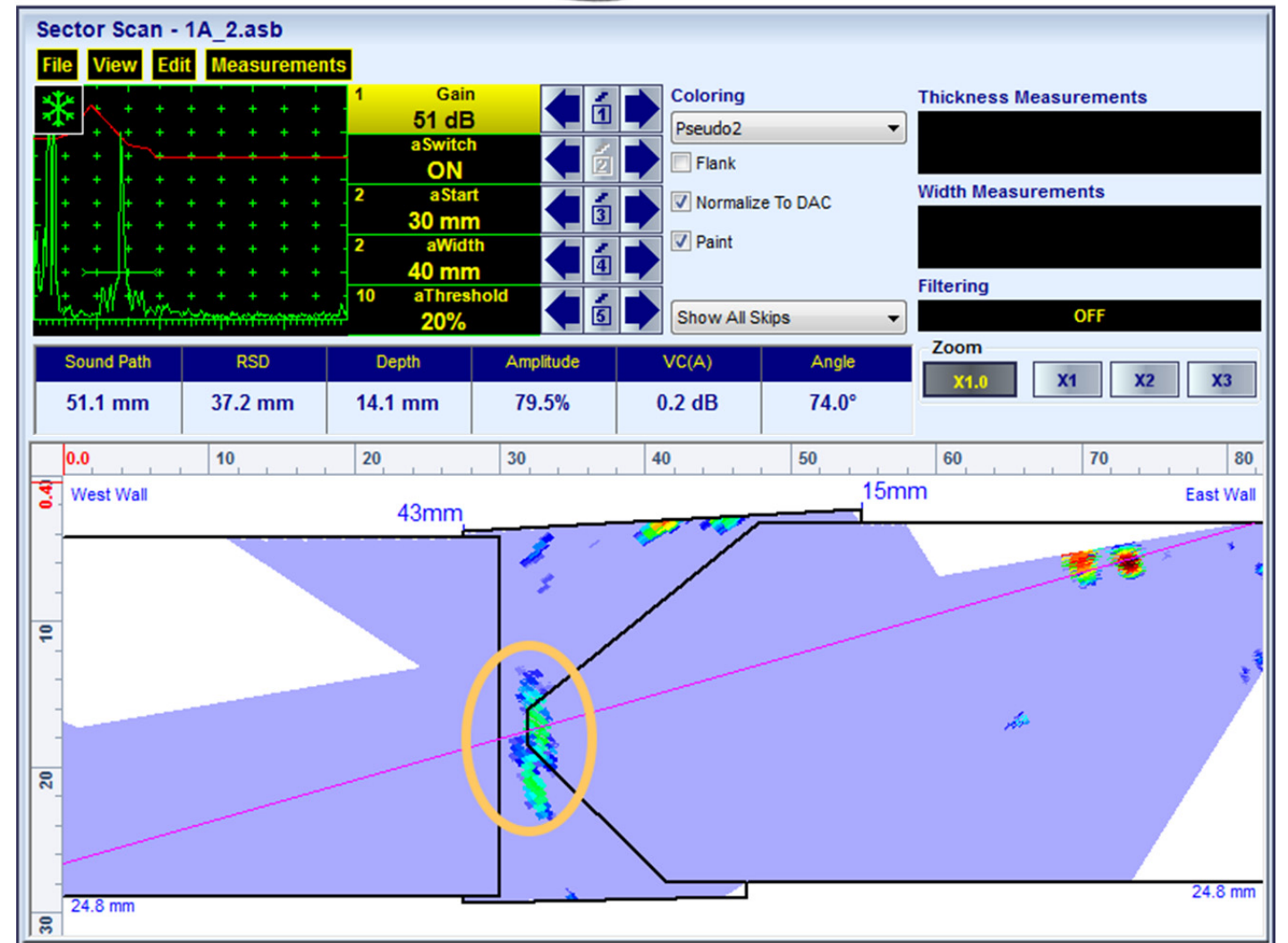
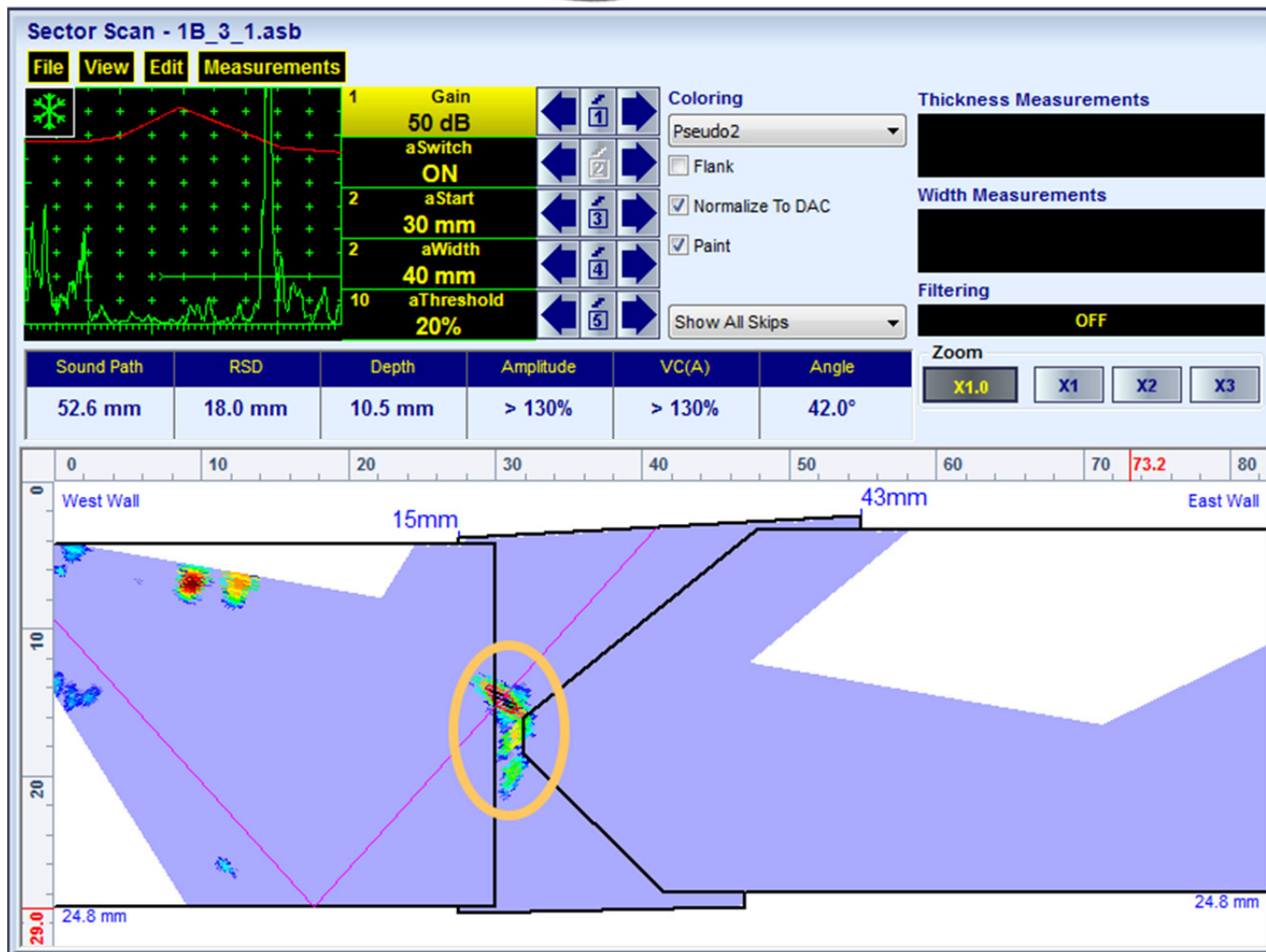
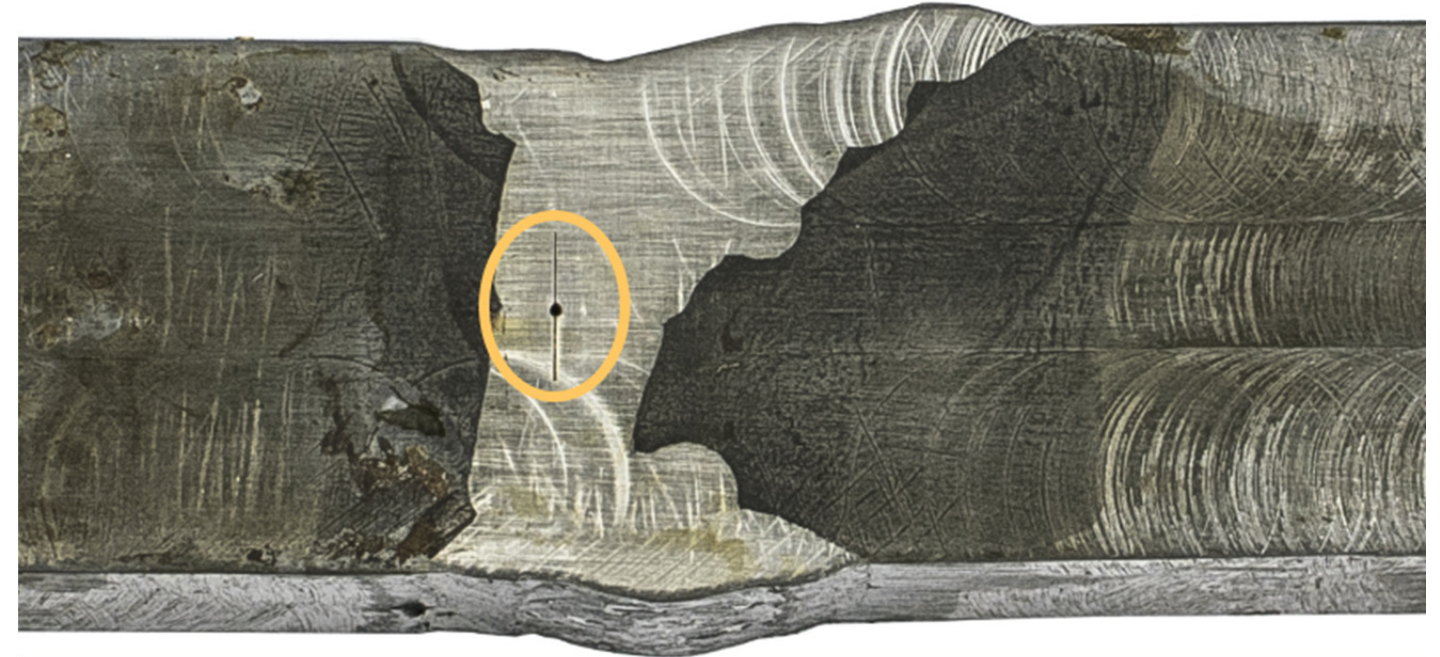
Inspection of the asymmetrical cross section butt weld between the rings with the different wall thickness – heavy machinery industry

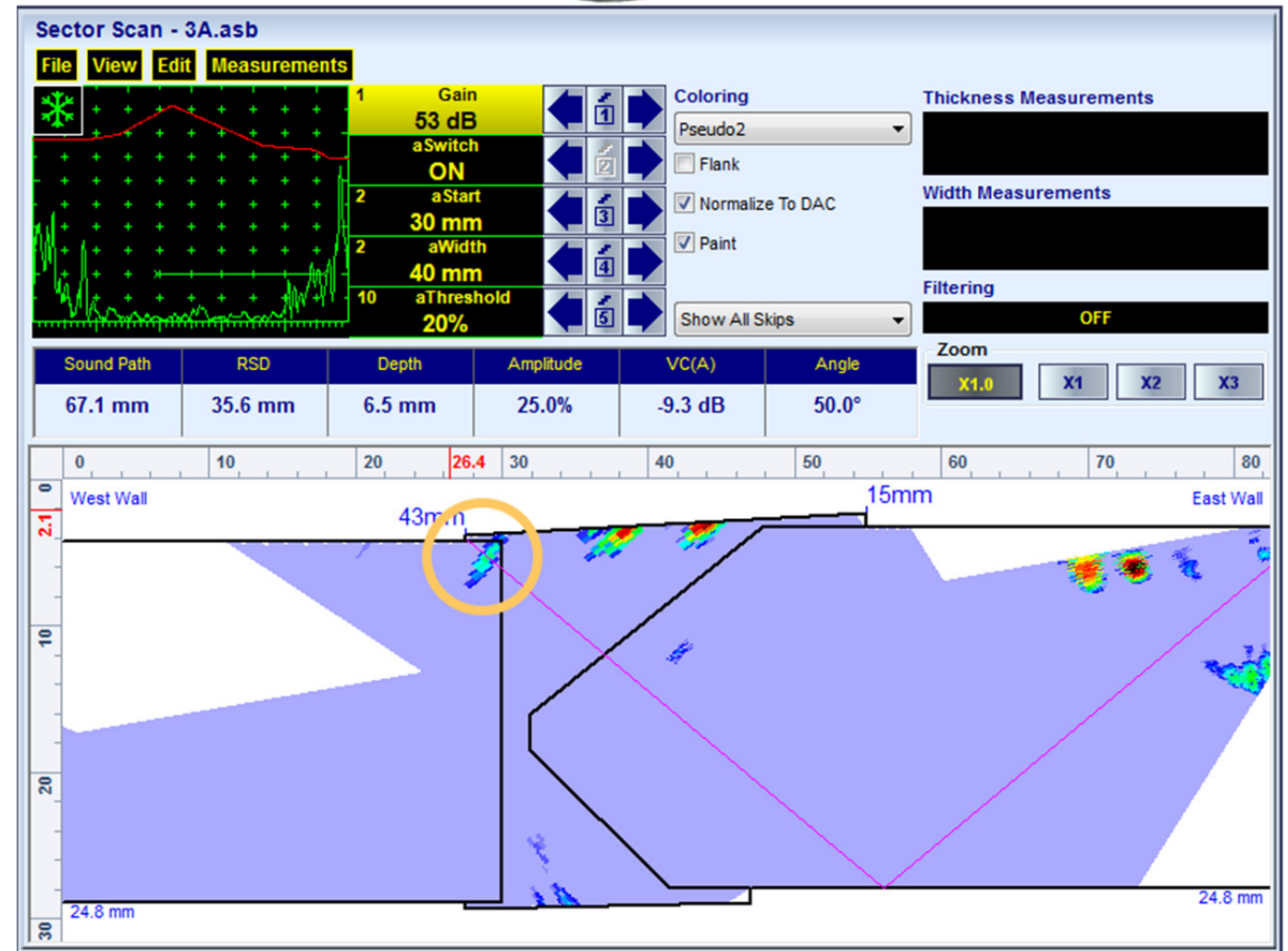
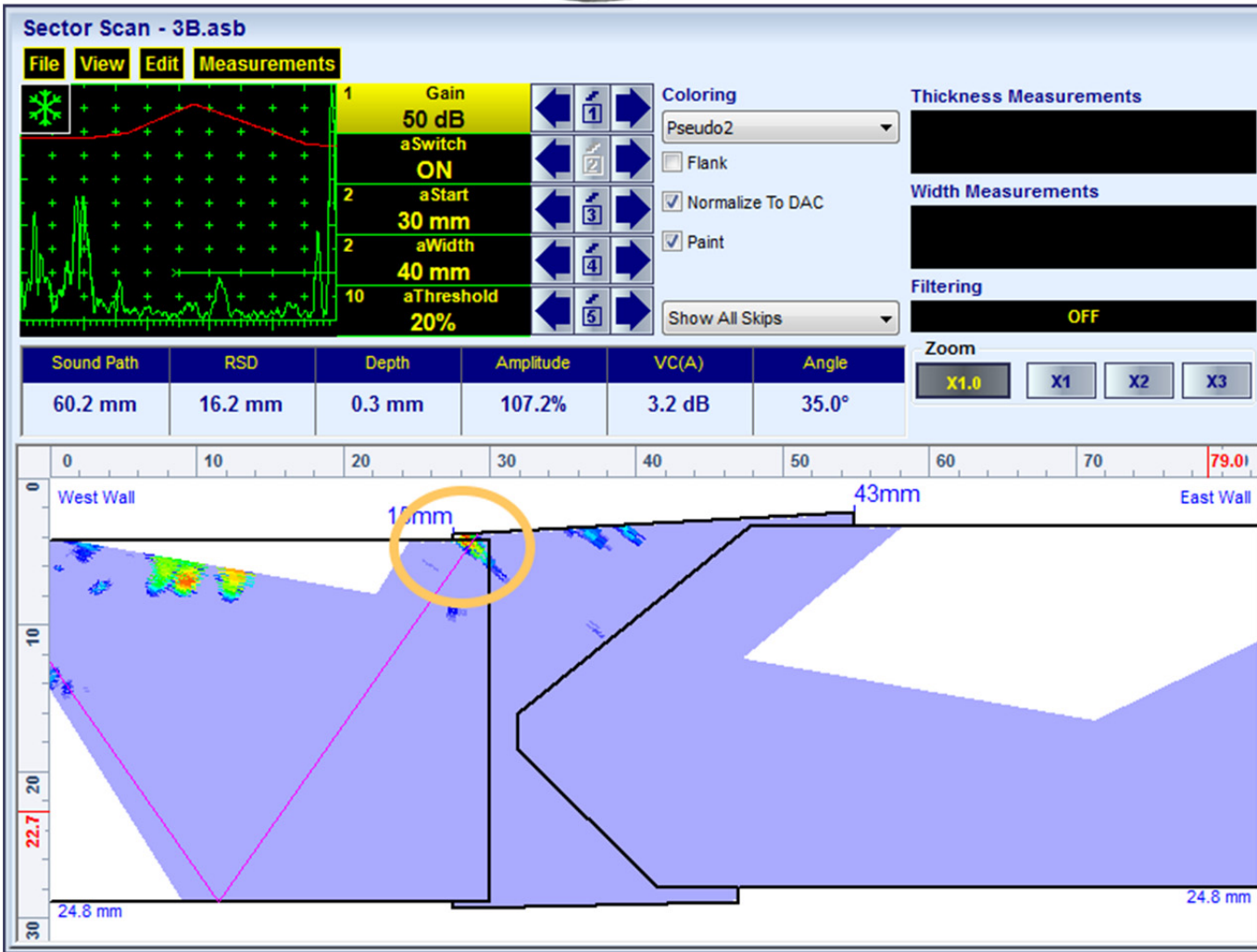


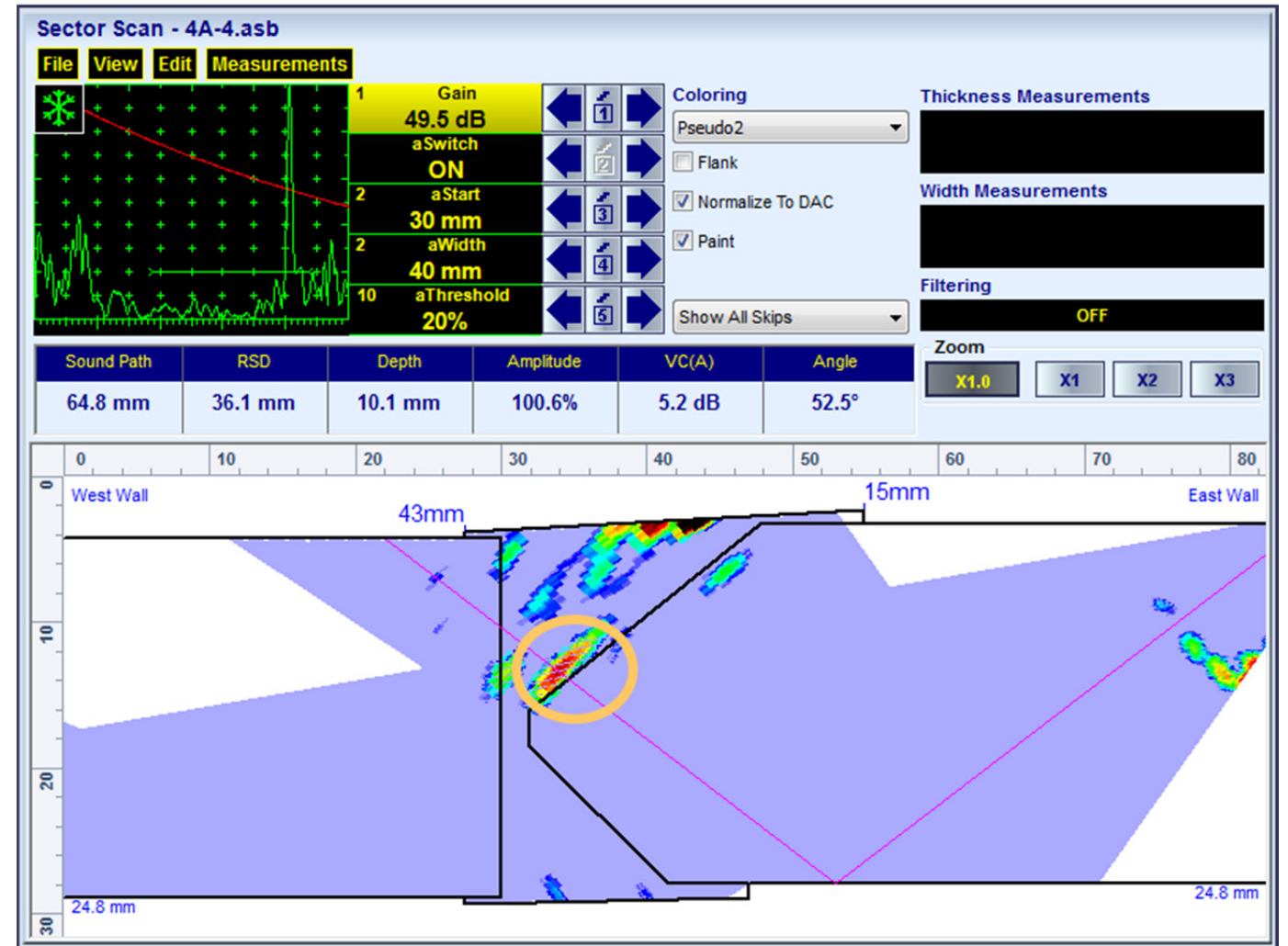
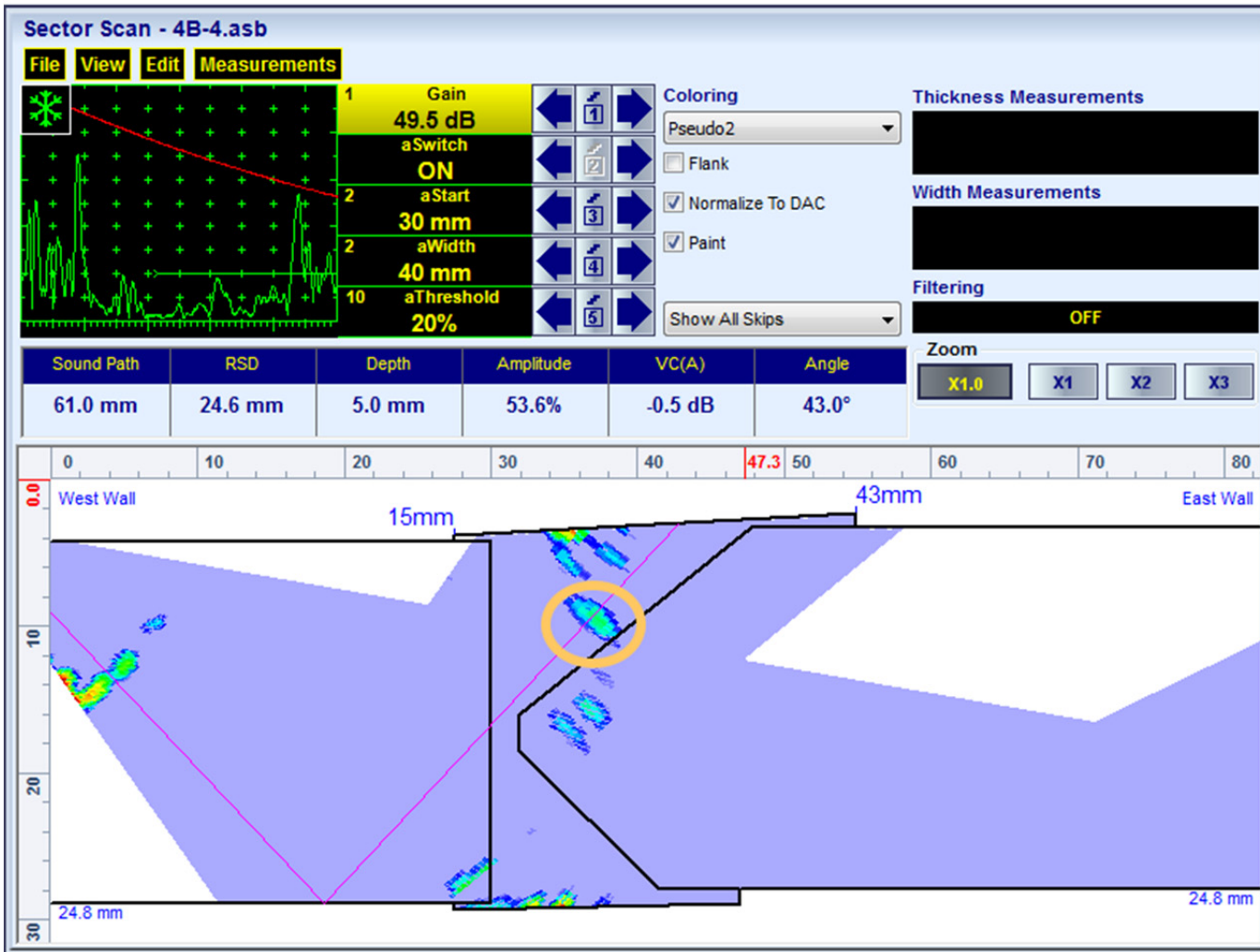
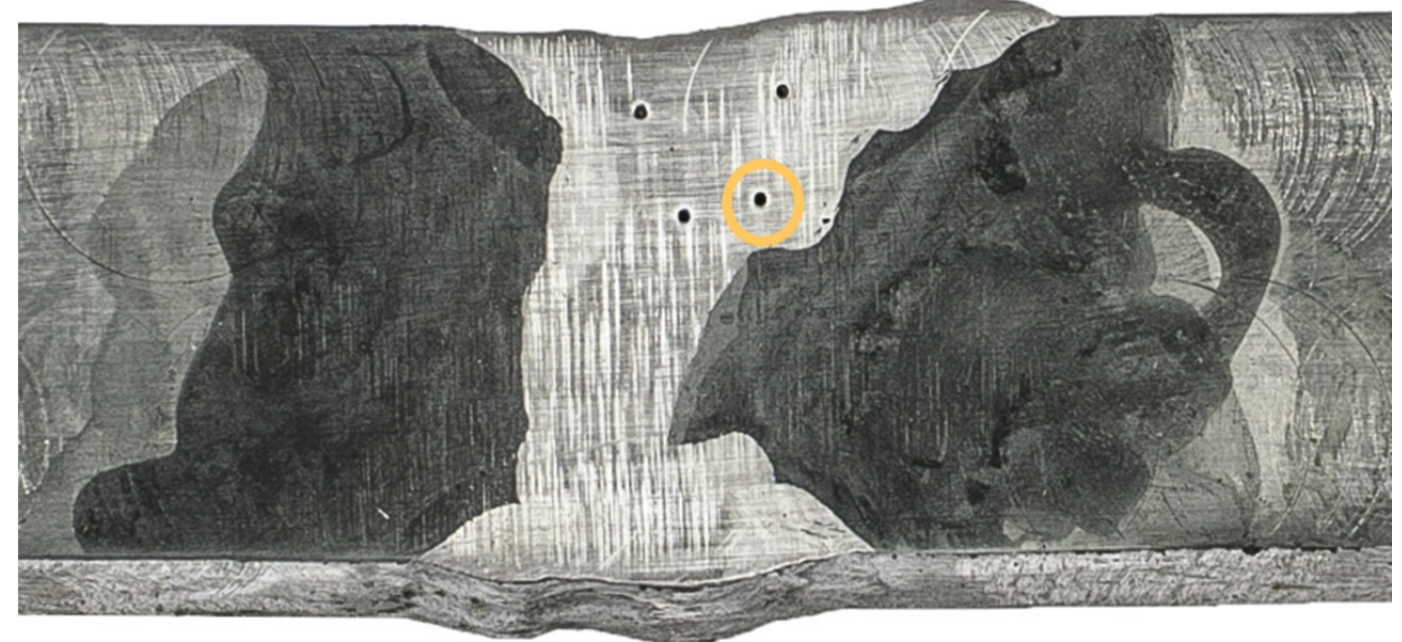
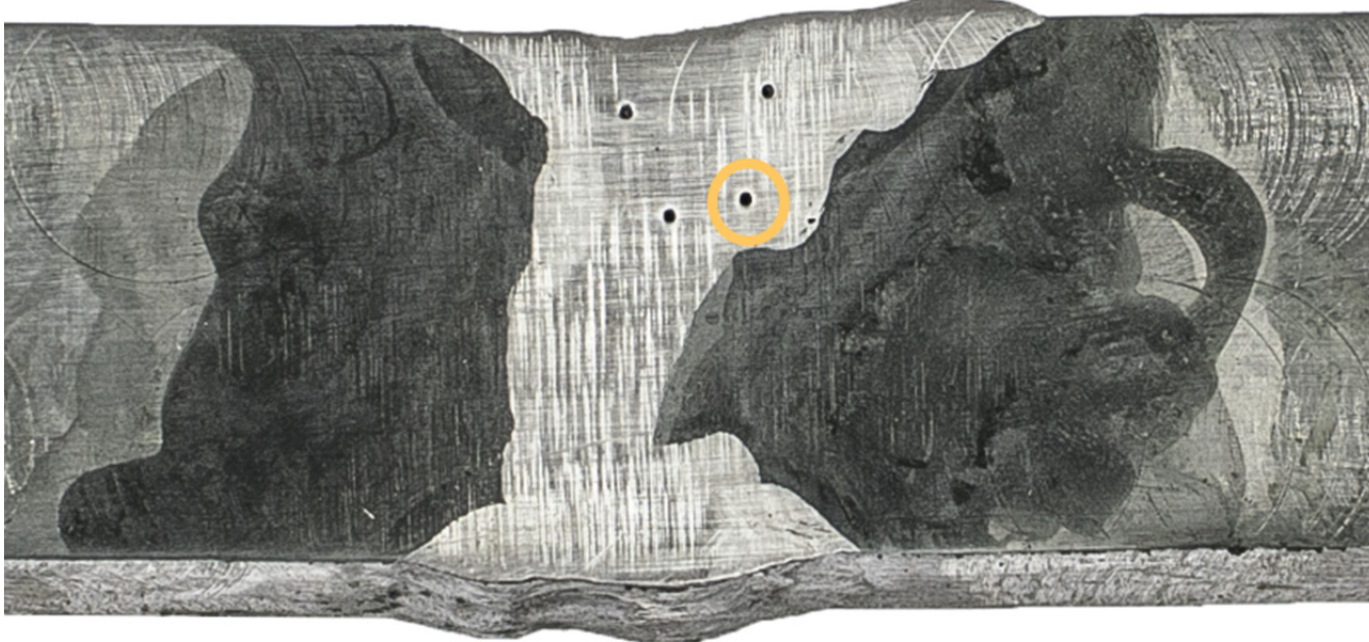
Inspection of the asymmetrical wall tube to cast ring circumferential asymmetrical weld

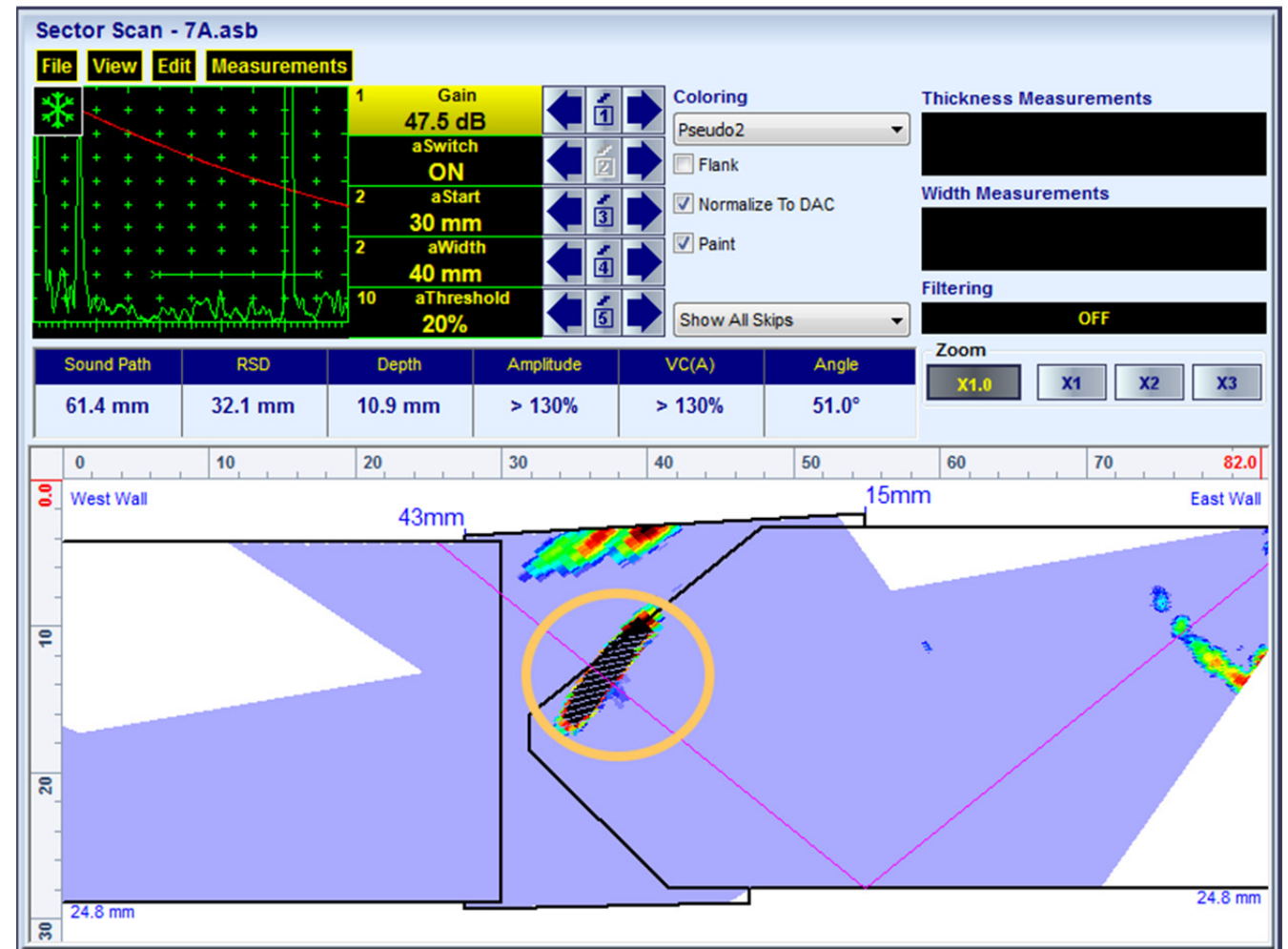
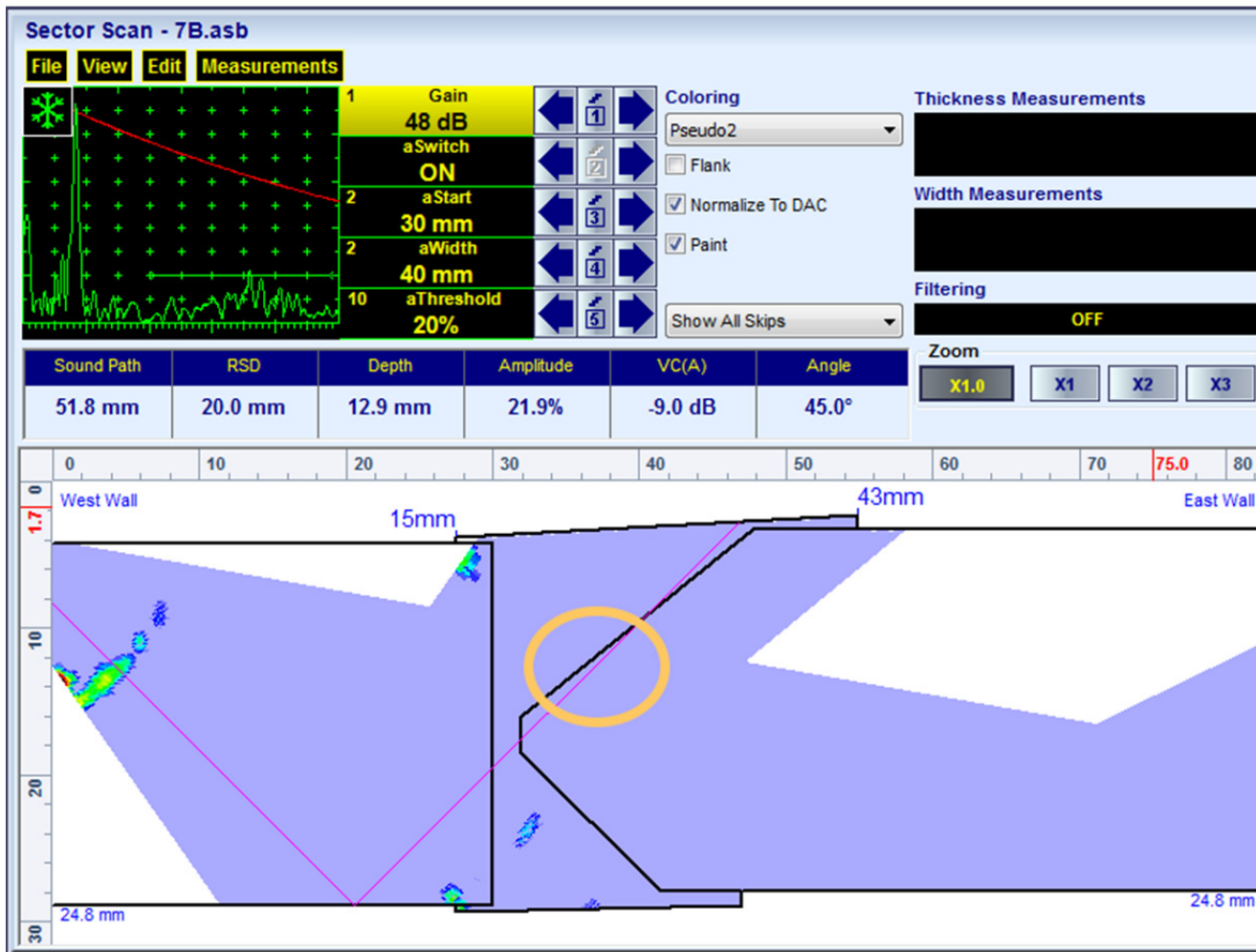
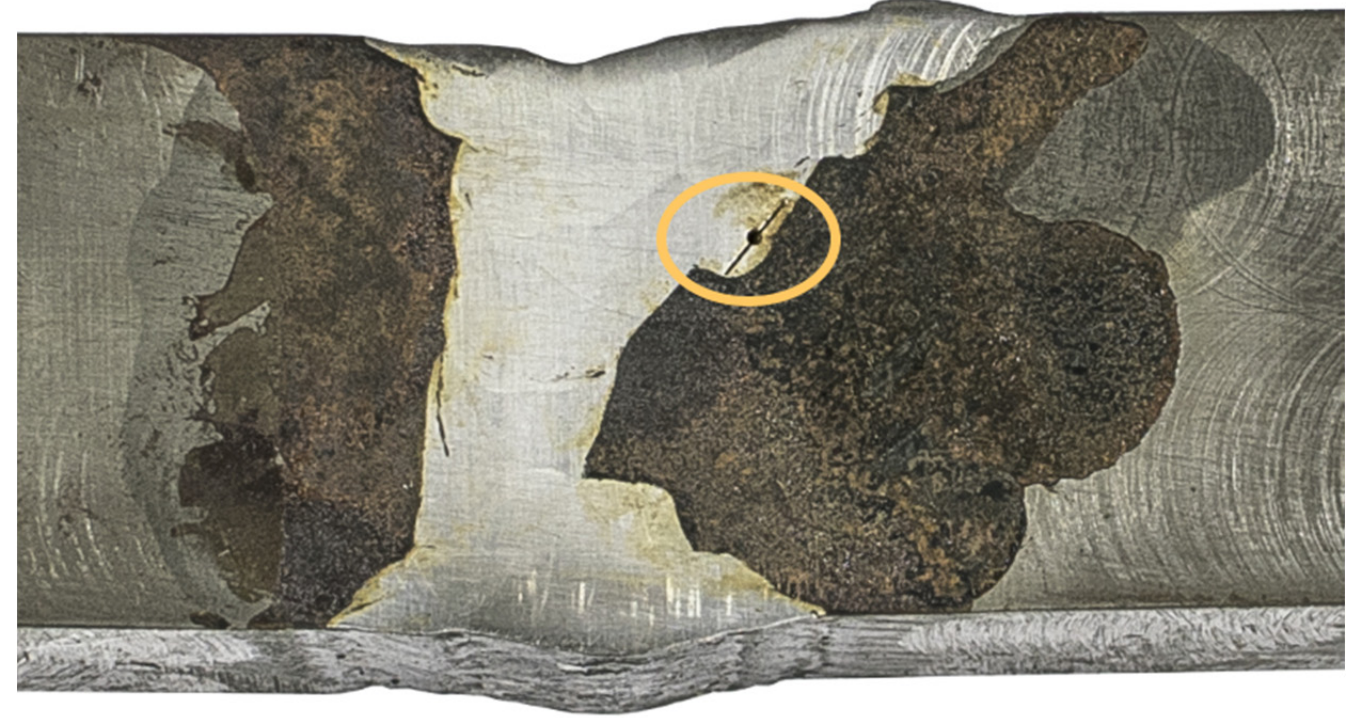
Typical Expert A cross-sectional views for some discontinuities in the asymmetrical welds

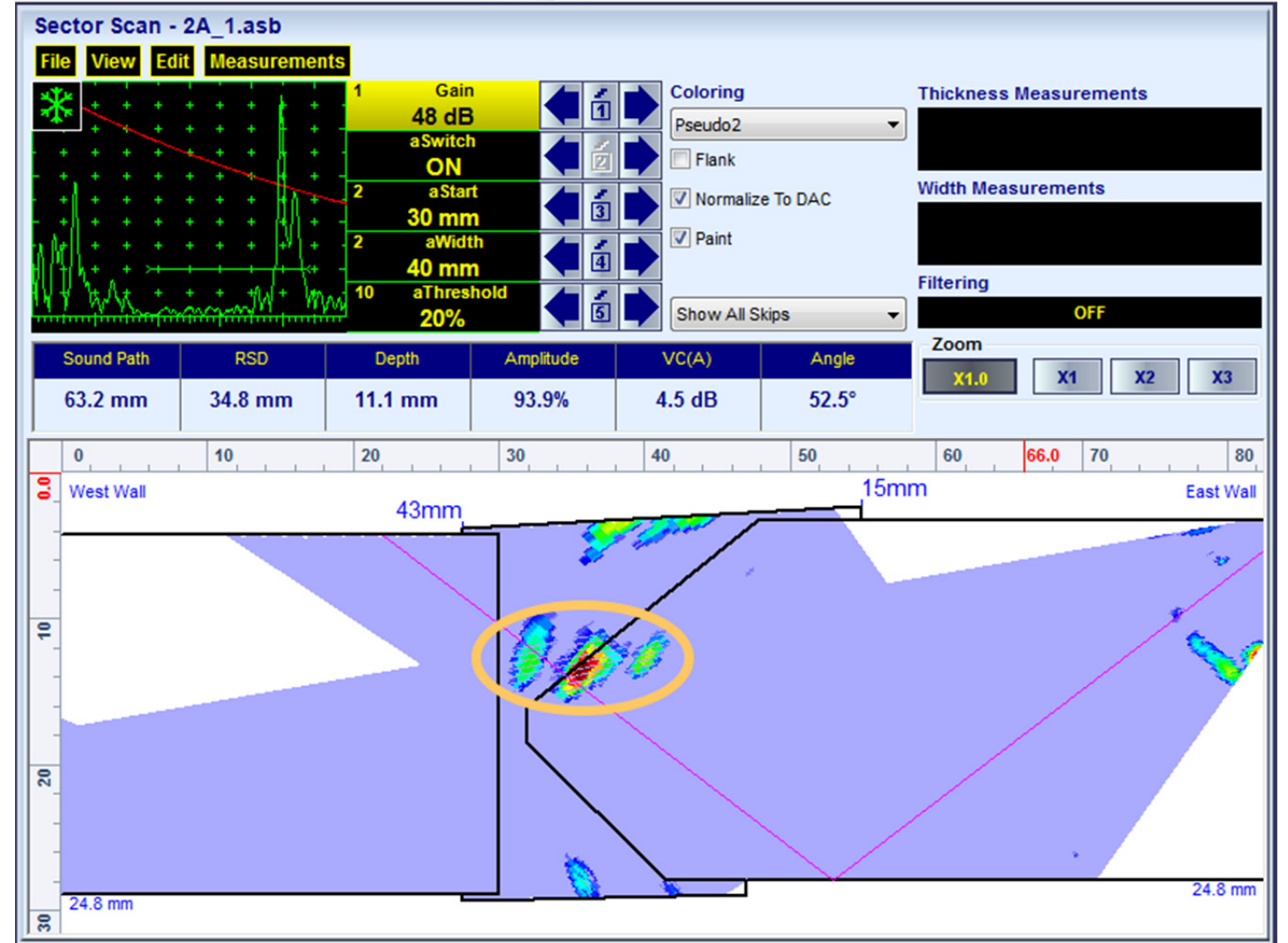
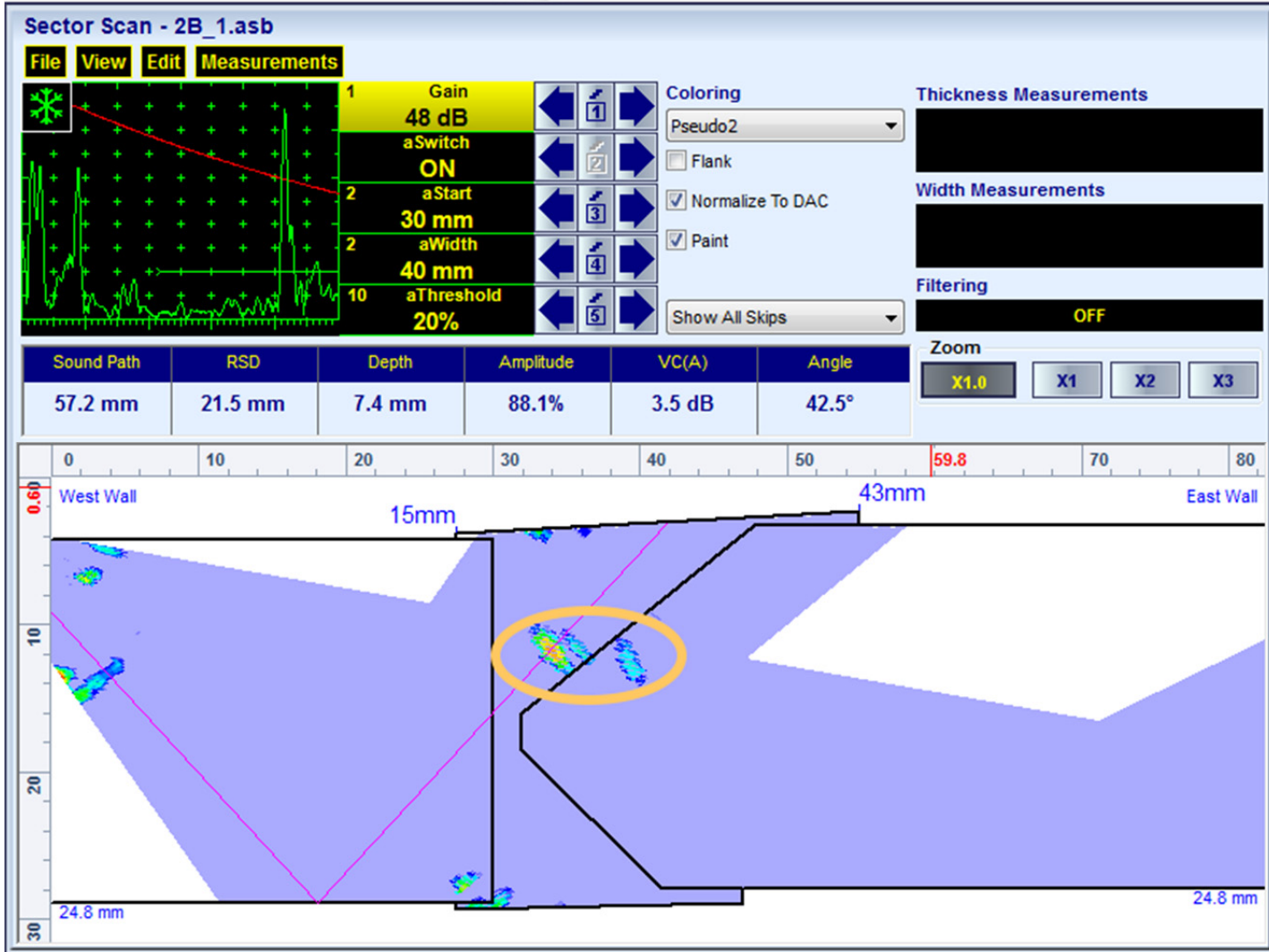
Vertical Crack











Lack of Root Penetration

