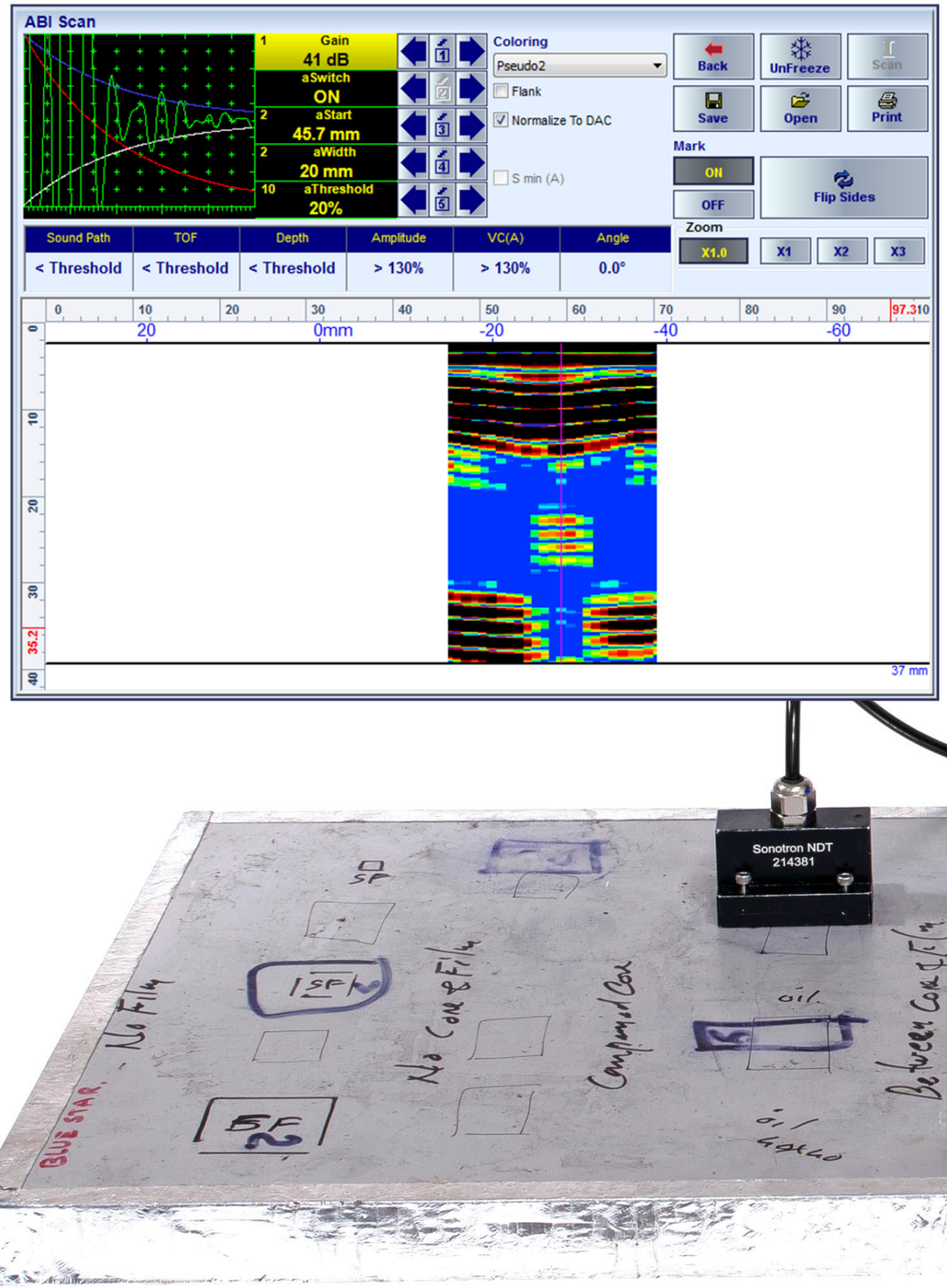
Standard 0-deg B-Scan coverage combined with non-linear acoustic approach allowed by the powerful PA pulser receiver of the ISONIC series PA instruments ensures detection of the imperfections over entire volume of the sandwich-honeycomb structure parts with use of the same high frequency highly damped PA probes, which are well suitable for the regular metals inspection



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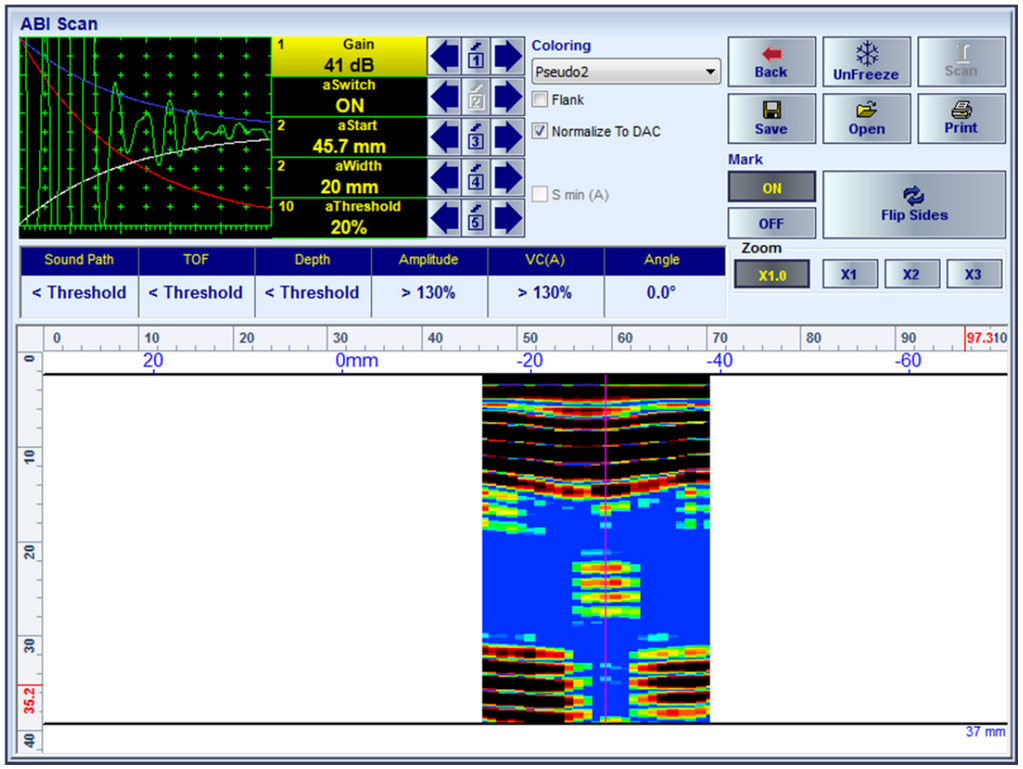
Standard 0-deg B-Scan coverage combined with non-linear acoustic approach allowed by the powerful PA pulser receiver of ISONIC 2009 UPA Scope ensures detection of the imperfections over entire volume of the sandwich-honeycomb structure parts with use of the same high frequency highly damped PA probes, which are well suitable for the regular metals inspection



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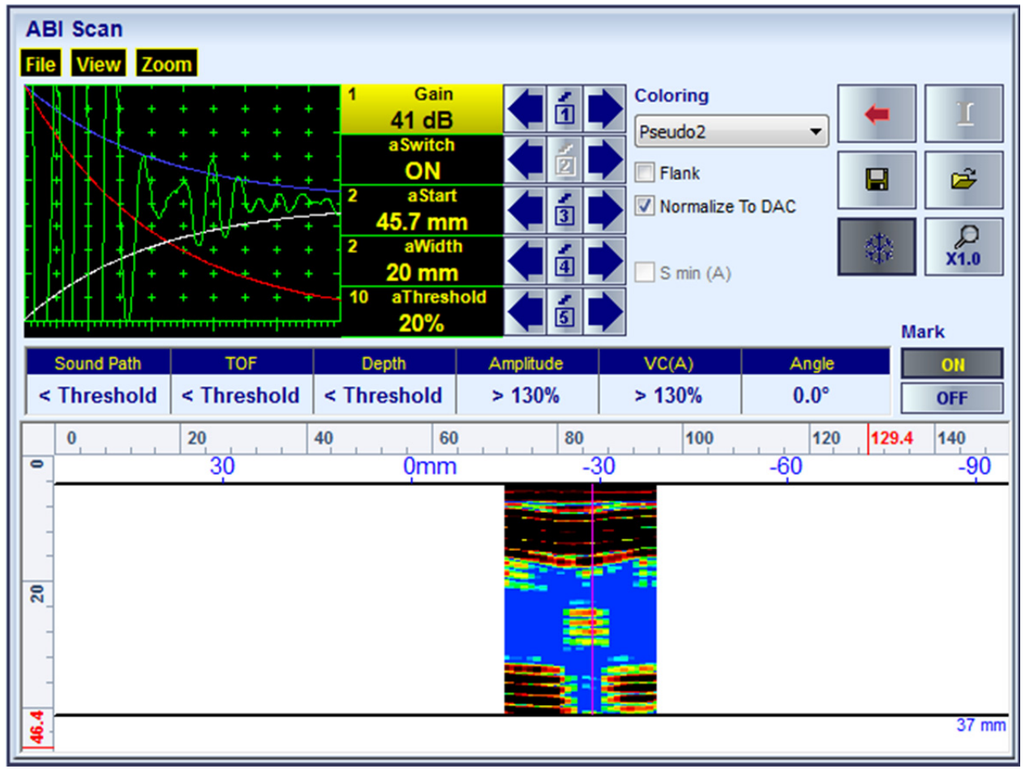
Standard 0-deg B-Scan coverage combined with non-linear acoustic approach allowed by the powerful PA pulser receiver of the ISONIC series PA instruments ensures detection of the imperfections over entire volume of the sandwich-honeycomb structure parts with use of the same high frequency highly damped PA probes, which are well suitable for the regular metals inspection



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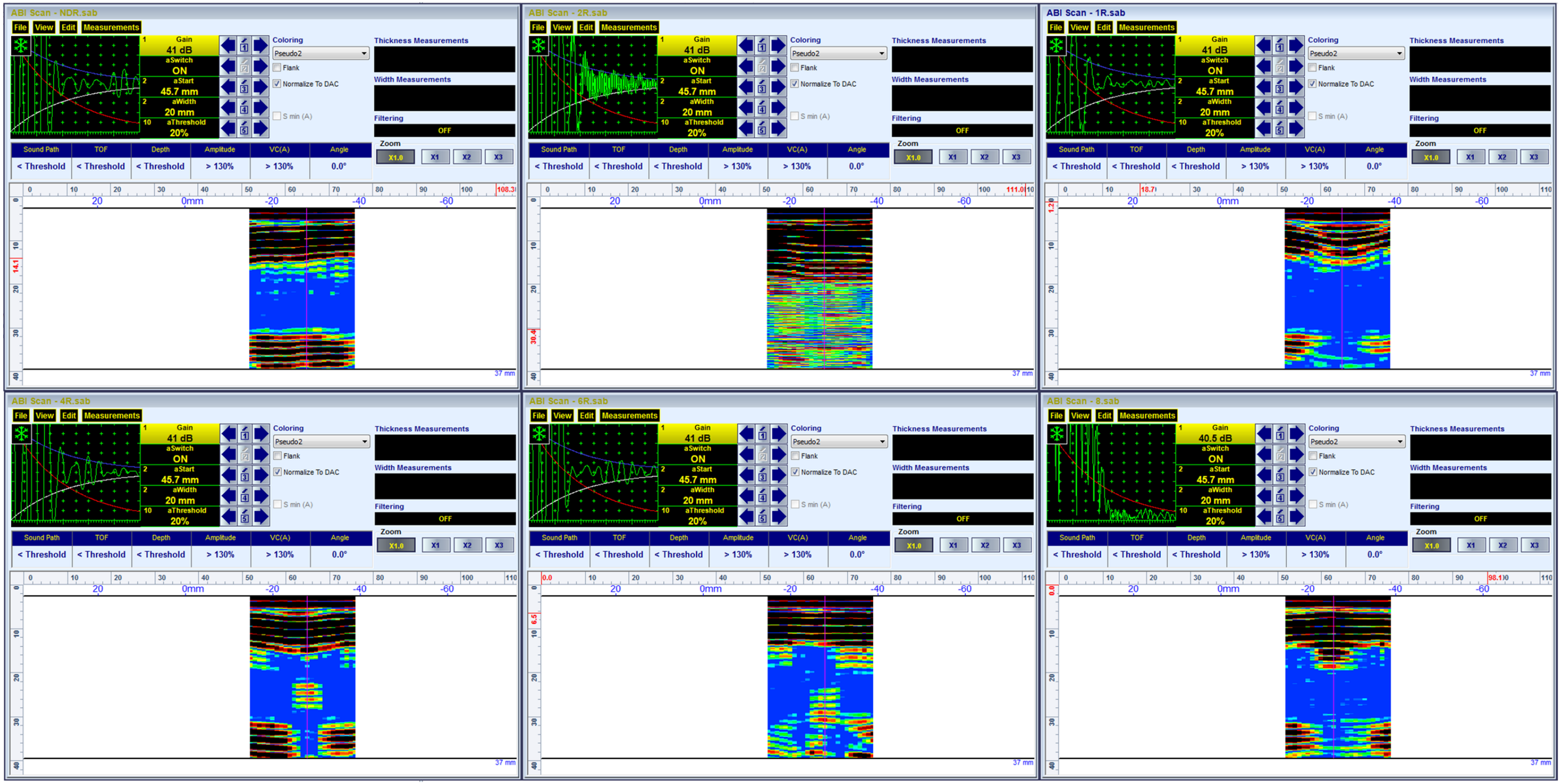
Typical Postprocessing Screenshots

No Defect Area

De-bond between skin and honeycomb at the probe placement side

De-bond between skin and honeycomb at the side opposite to the probe placement



Broken honeycomb

Broken honeycomb

Broken honeycomb

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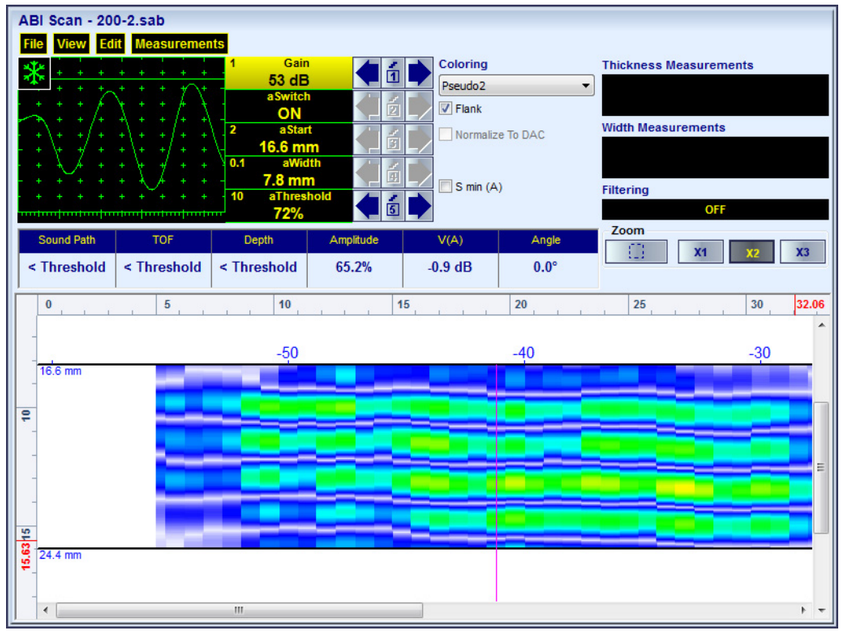
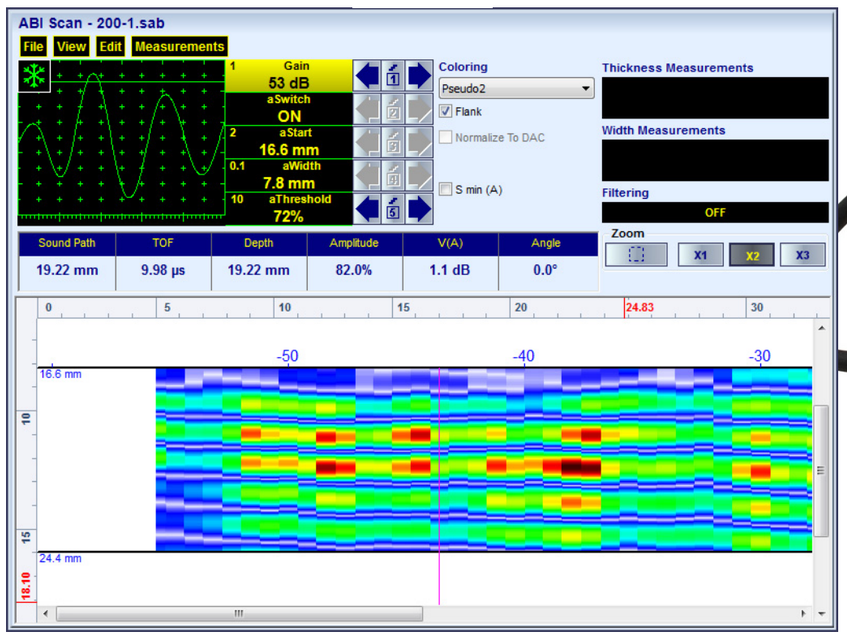
Standard 0-deg B-Scan coverage combined with non-linear acoustic approach allowed by the powerful PA pulser receiver of the ISONIC series PA instruments provides clear distinguishing between sufficient and insufficient consistency of the plies of bonding material between the composite skin and honeycomb for either trough-paint or direct coupling of the PA probe to the skin

GO



NO GO



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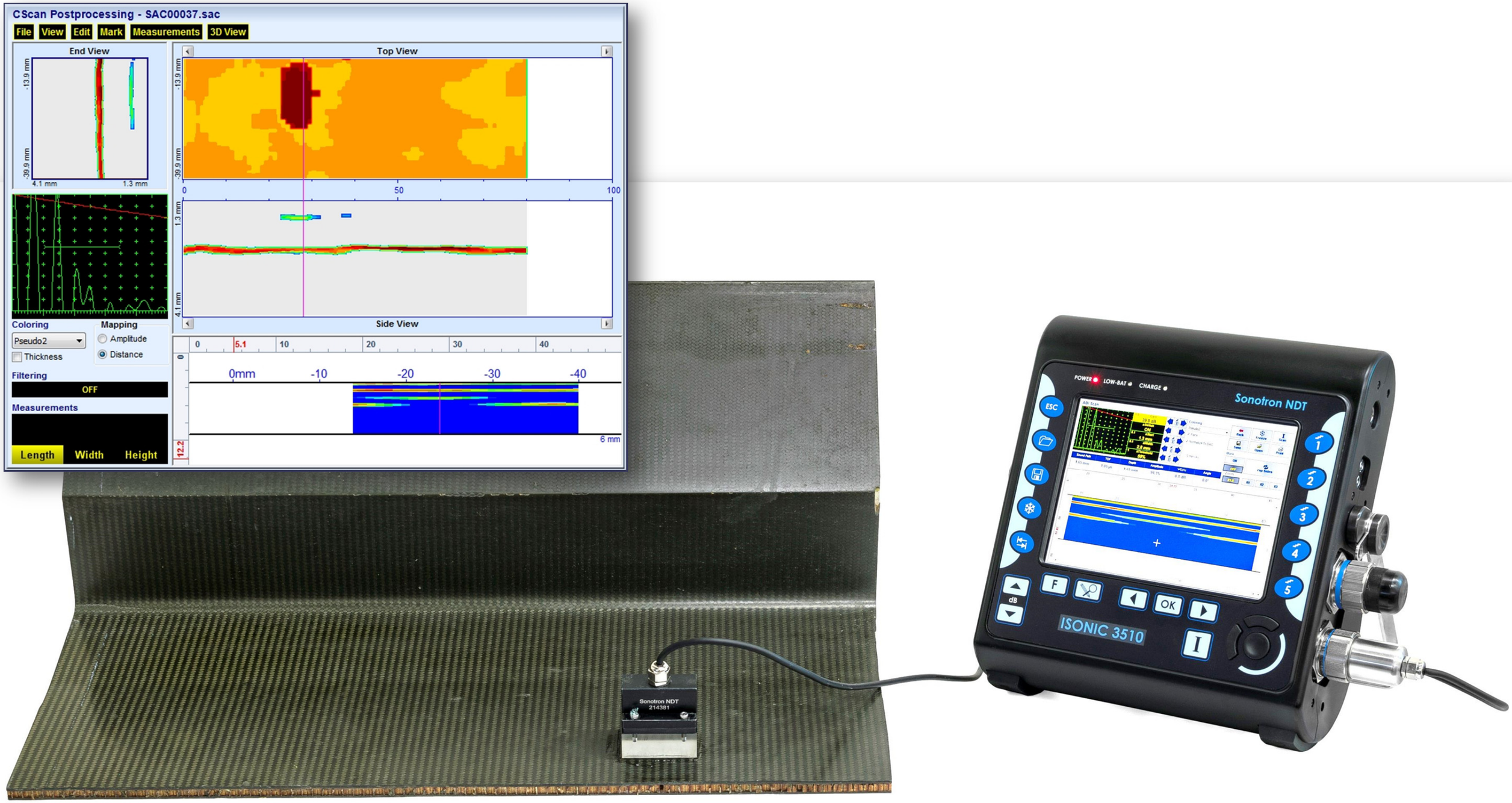

Lack of bonding in the composite skin

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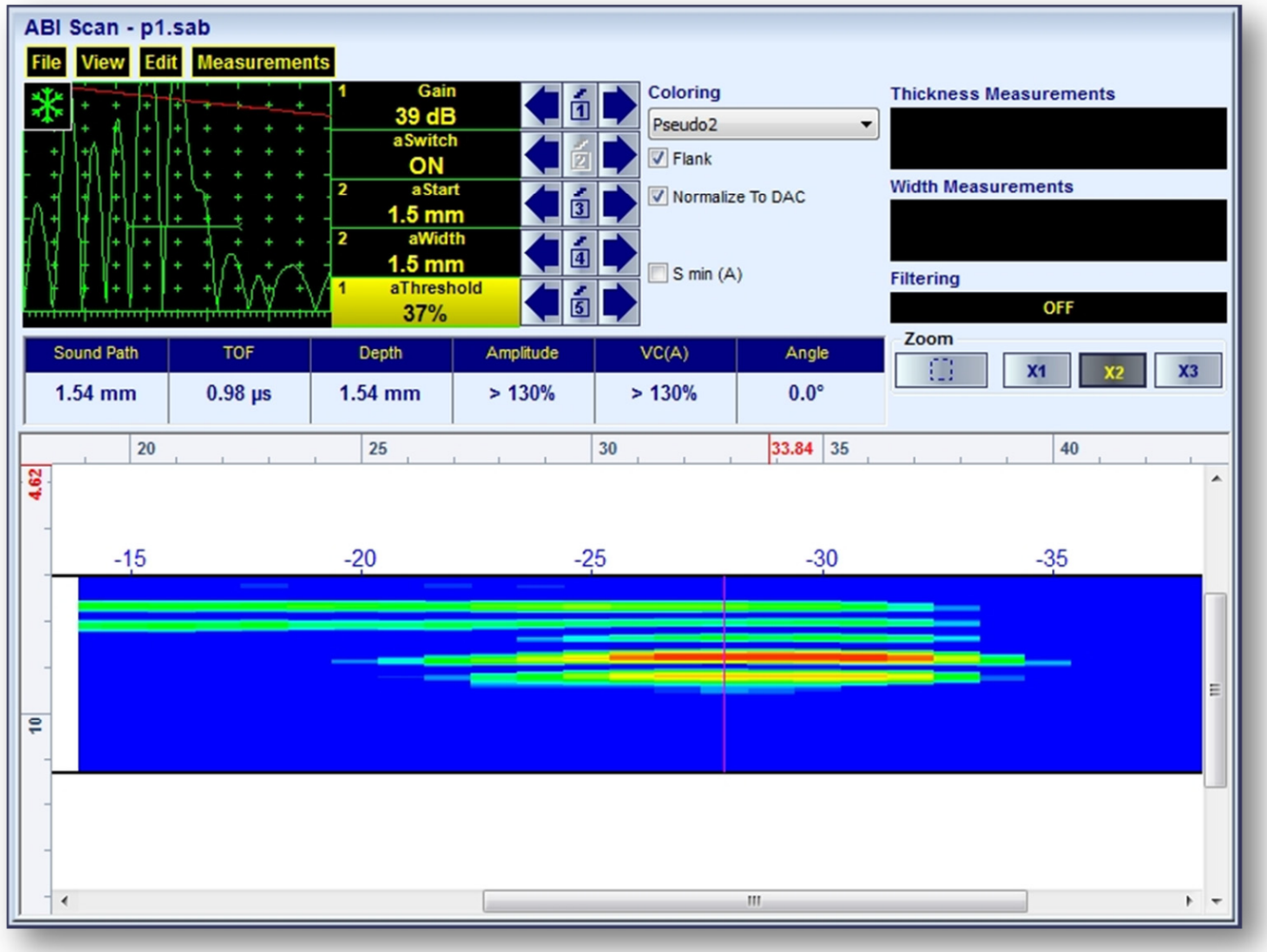

Impact damage caused lack of bonding in the composite skin

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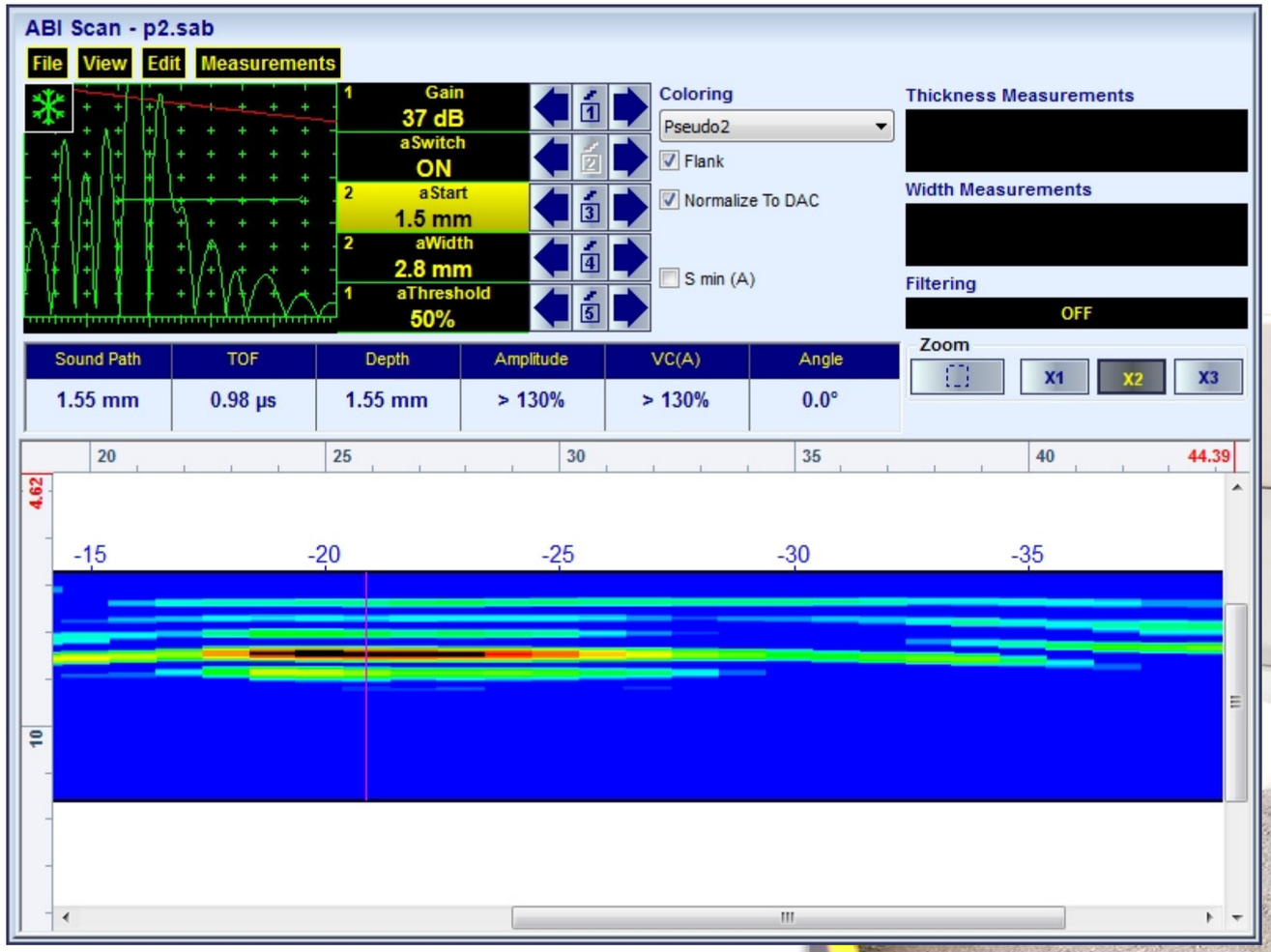

Impact damage caused lack of bonding in the composite skin

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