prisma

What's New in version 3.5.13

Jonathan Turcotte

2014-05-12

reddot design award winner 2013

A'DESIGN AWARD WINNER 2013

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Prisma List of Enhancements

UT	Conventionnal UT specific enhancement
TOFD	TOFD specific enhancement
PA	Phased Array specific enhancement

UT

TOFD

PA

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Prisma List of Enhancements

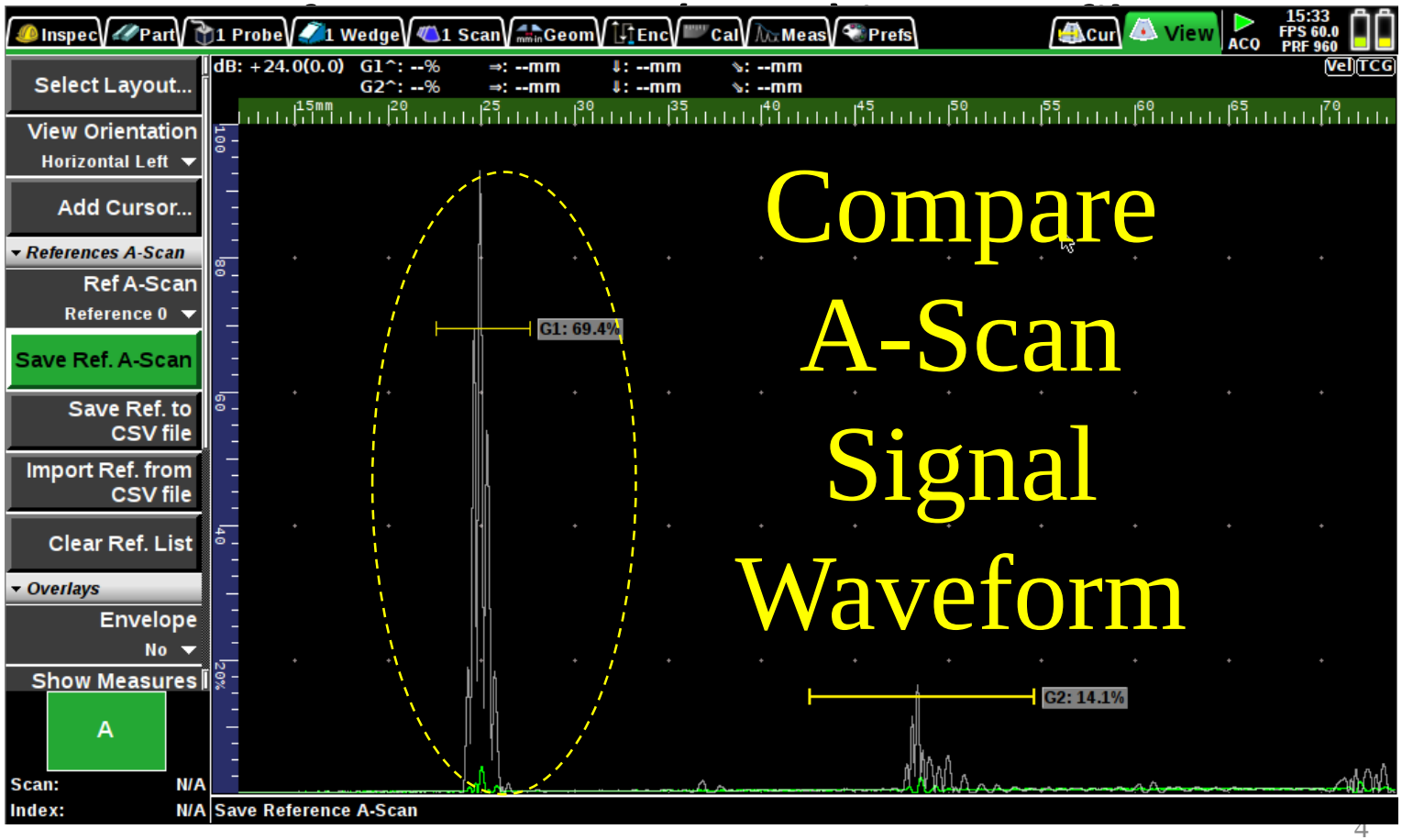
- Introduction of Zoom function into S-Scan, L-Scan
- New grid type: Dots (Graticule)
- Reference A-Scan
  - Save Reference A-Scan (A-Log) into configuration file (.UTCFG)
  - Export Reference A-Scan (A-Log) into CSV file
- UT, B-Log Live (Live thickness logging with part profile)
- Addition of fixed depth Palette, can be extended out of min/max range.
- The B-Scan now supports 2 rendering modes (fit or scroll)
- 2D C-Scan are rendered during acquisition (Live Merged C-Scan)
- Dual Polarity Gate/Box: added as view option when scan is not rectified, controls how C-Scans, Top and End views are extracted (positive, negative or RF spectrum).
- 3D view: add stream direction.
- TOFD view: scrolling modes added.
- Time-based ruler, #4592
- Add gain at final step of Velocity and Zero wizard, #3020
- Config Summary: show errors and tips at top of window instead of bottom.
- Allow changing Probe->Pulse Width in Play mode, #4902 #5010
- "Front Wedge" can now be used as the reference system in UT, set in “Encoded Axis Reference”, #5037
- Media browser: always display all available drives.
- Media browser: remember last Drive, Sorting and Filter.
- Hungarian translation.
- Acquisition files shared through FTP server.
- DGS: halve the lowest allowed ERS (equivalent reflector size), and use a more fine-grained DGS resolution, #4489
- Menus: show full-length value when value is too large to fit
- Prisma UT filters renamed to Low-Mid-High-Broad, #4589
- Various performance optimizations.

UT

TOFD

Reference A-Scan

- *Save Reference A-Scan (A-Log) into configuration file (.UTCFG) or export into a CSV file*

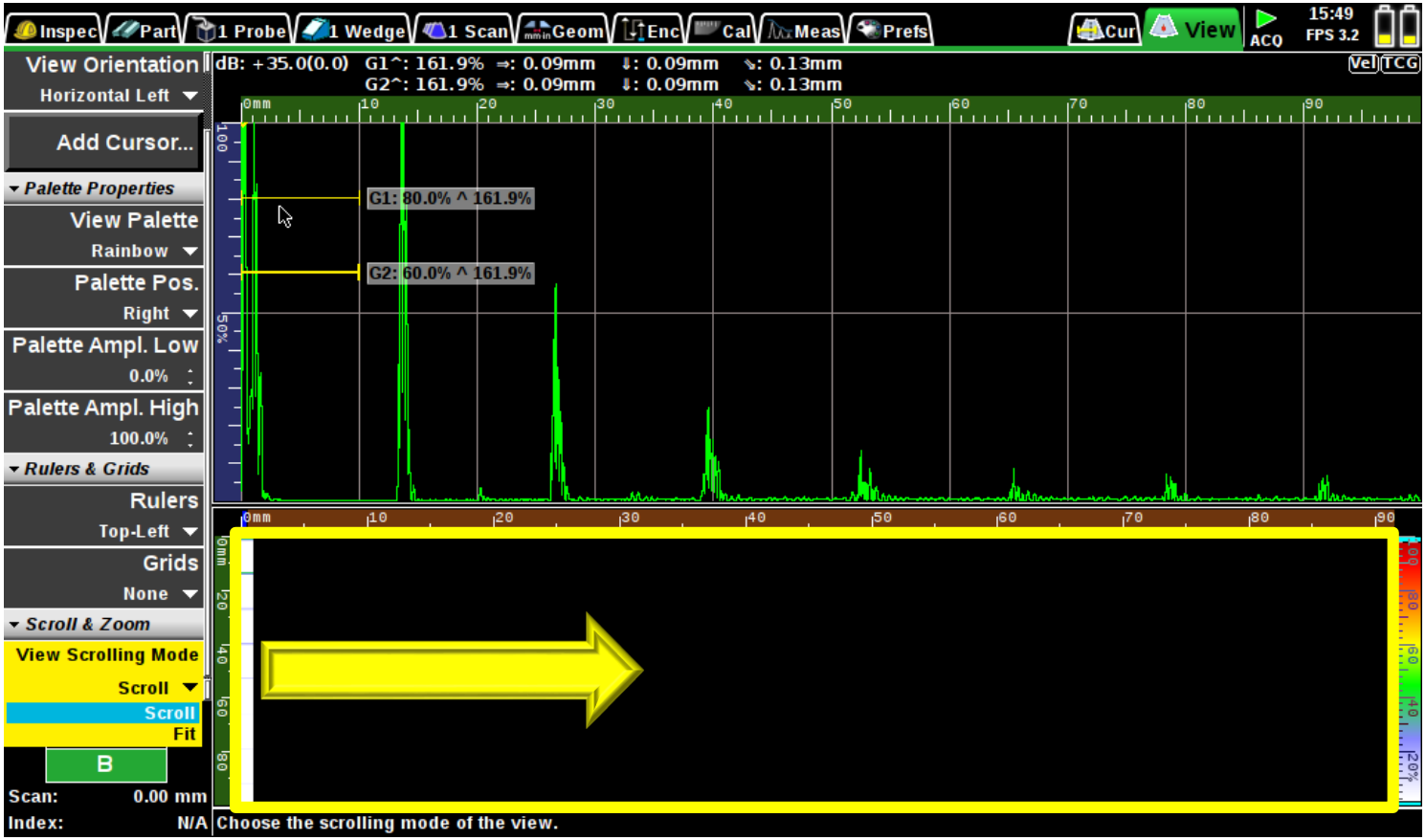


UT

TOFD

B-Scan and TOFD now support 2 rendering modes

- *Fit: to see whole area in one view*
- *Scroll: smooth scrolling window moving along the scan strip to see defect and missed frame while encoding*



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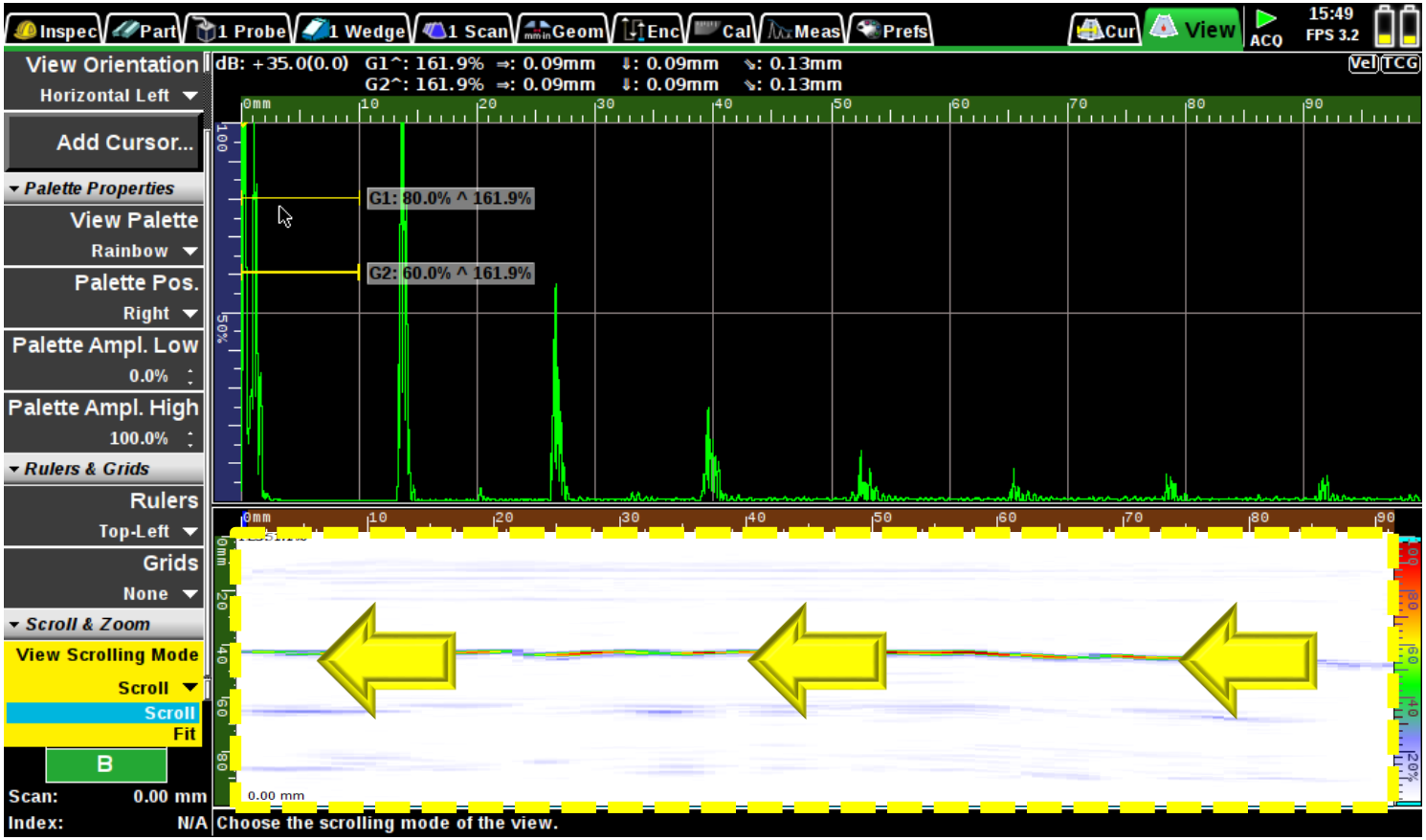

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UT

TOFD

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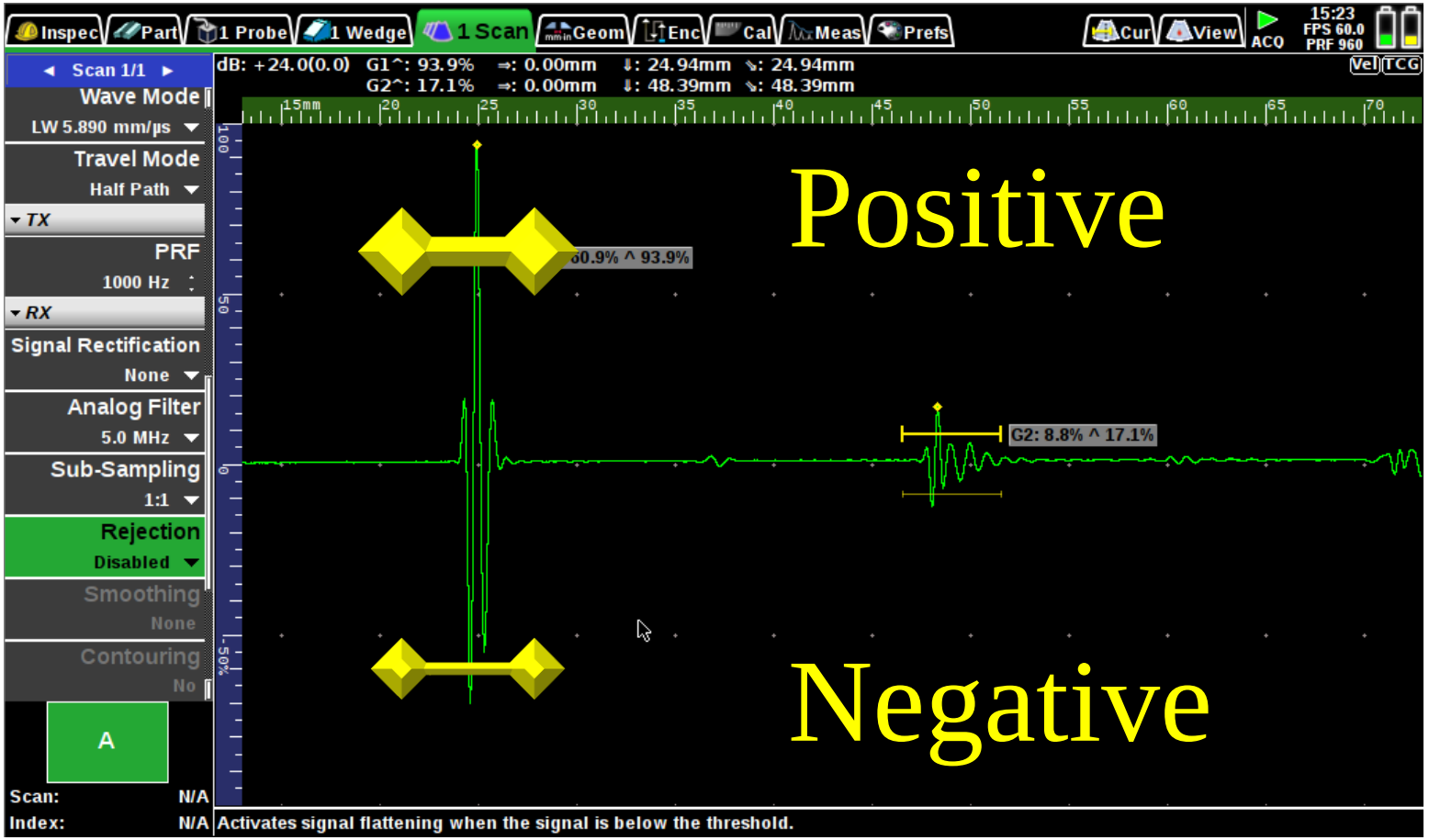
Dual polarity gate

- *Evaluate positive / negative or both peak polarities*



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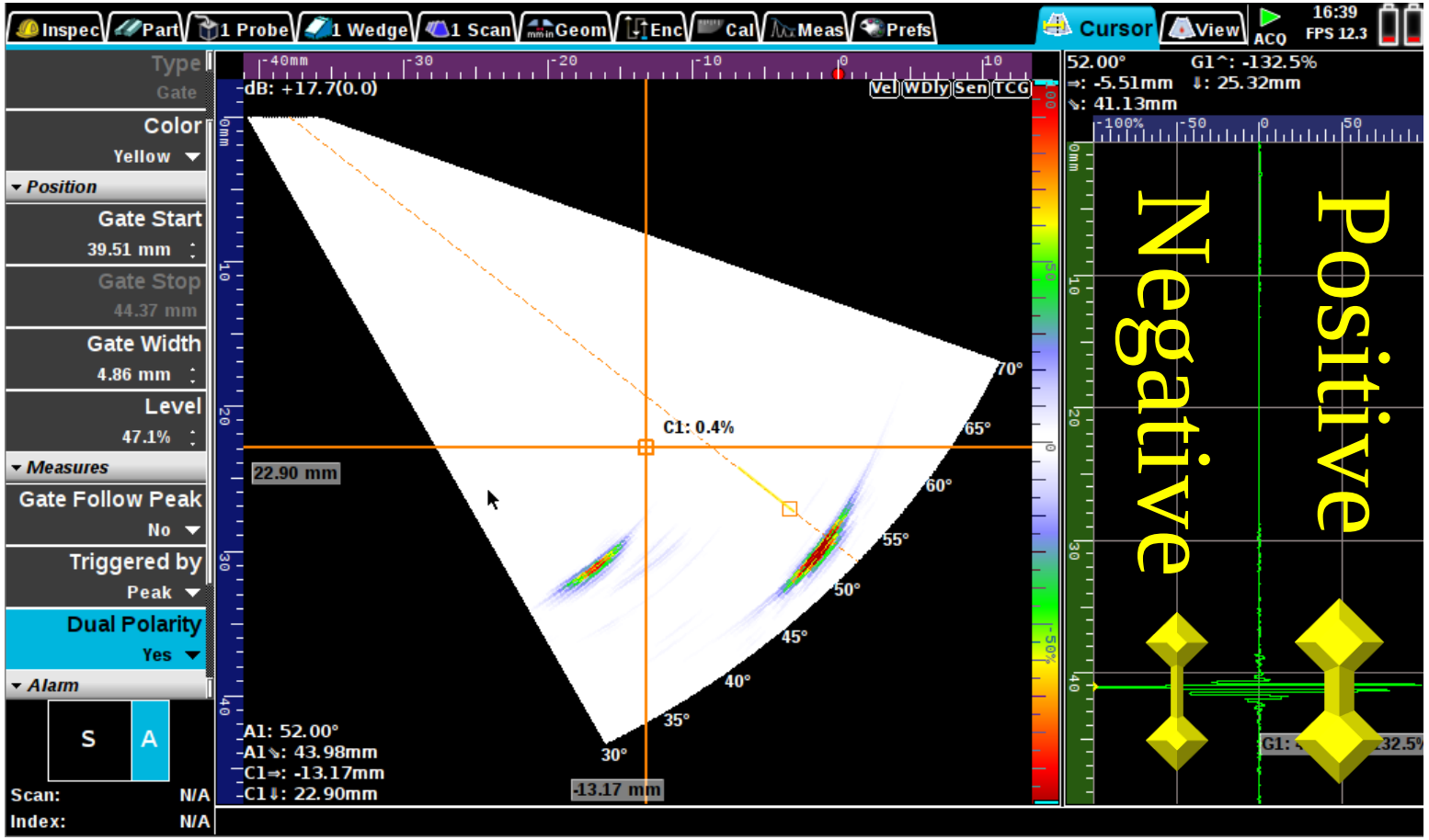

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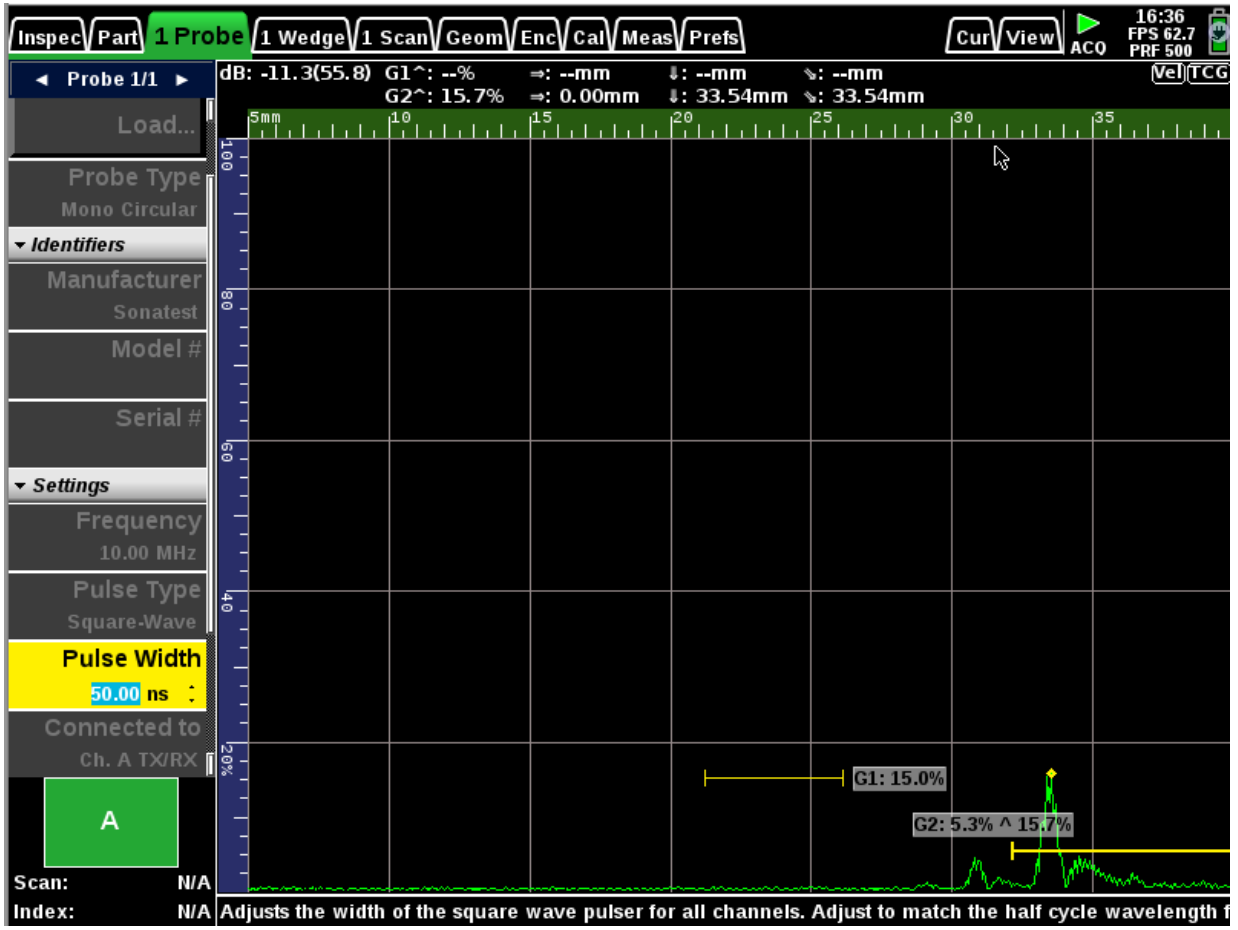
Pulse width has become a live parameter



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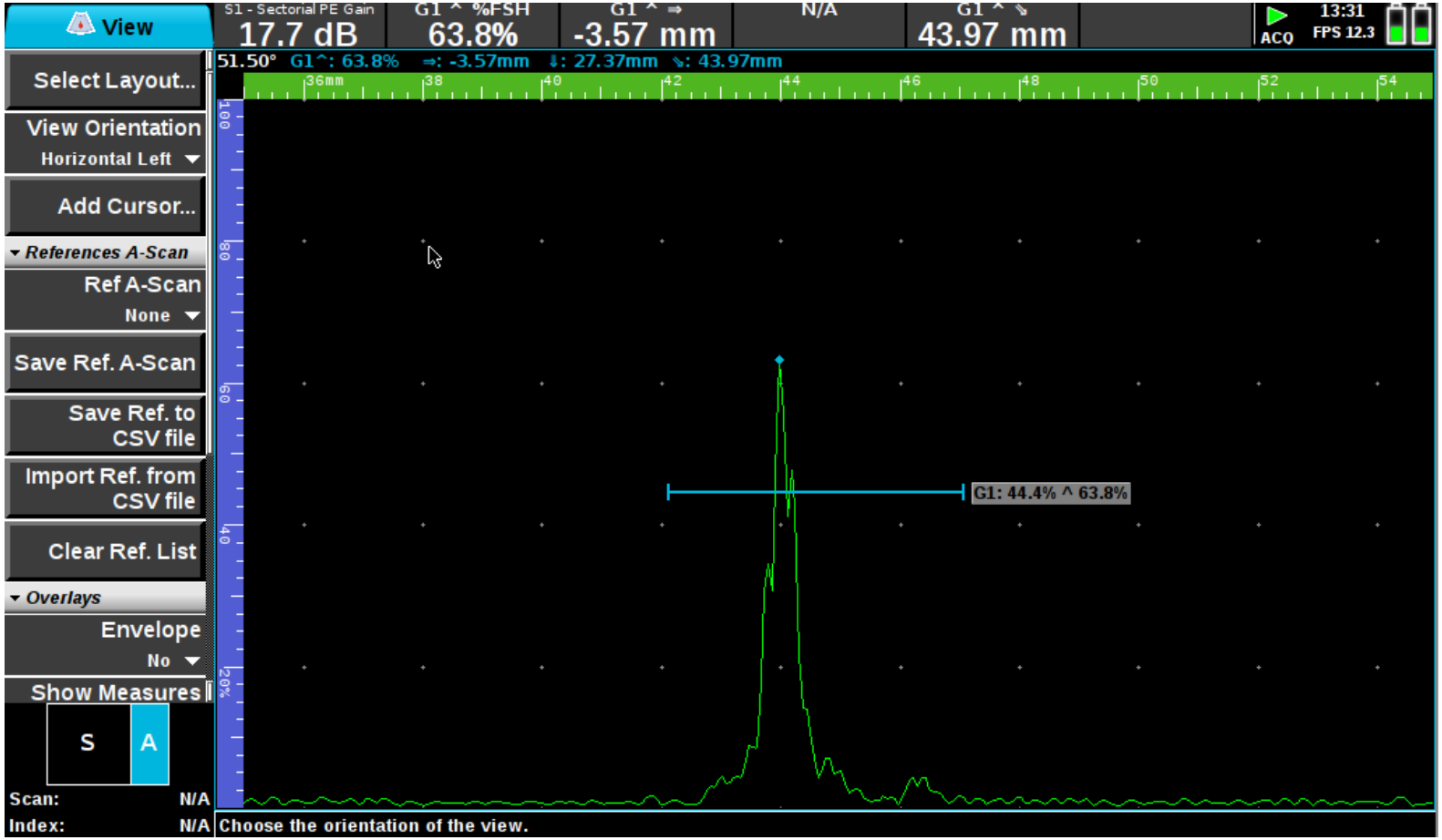
New grid type: Dots (Graticules)

- *Light weight grid = optimized display*



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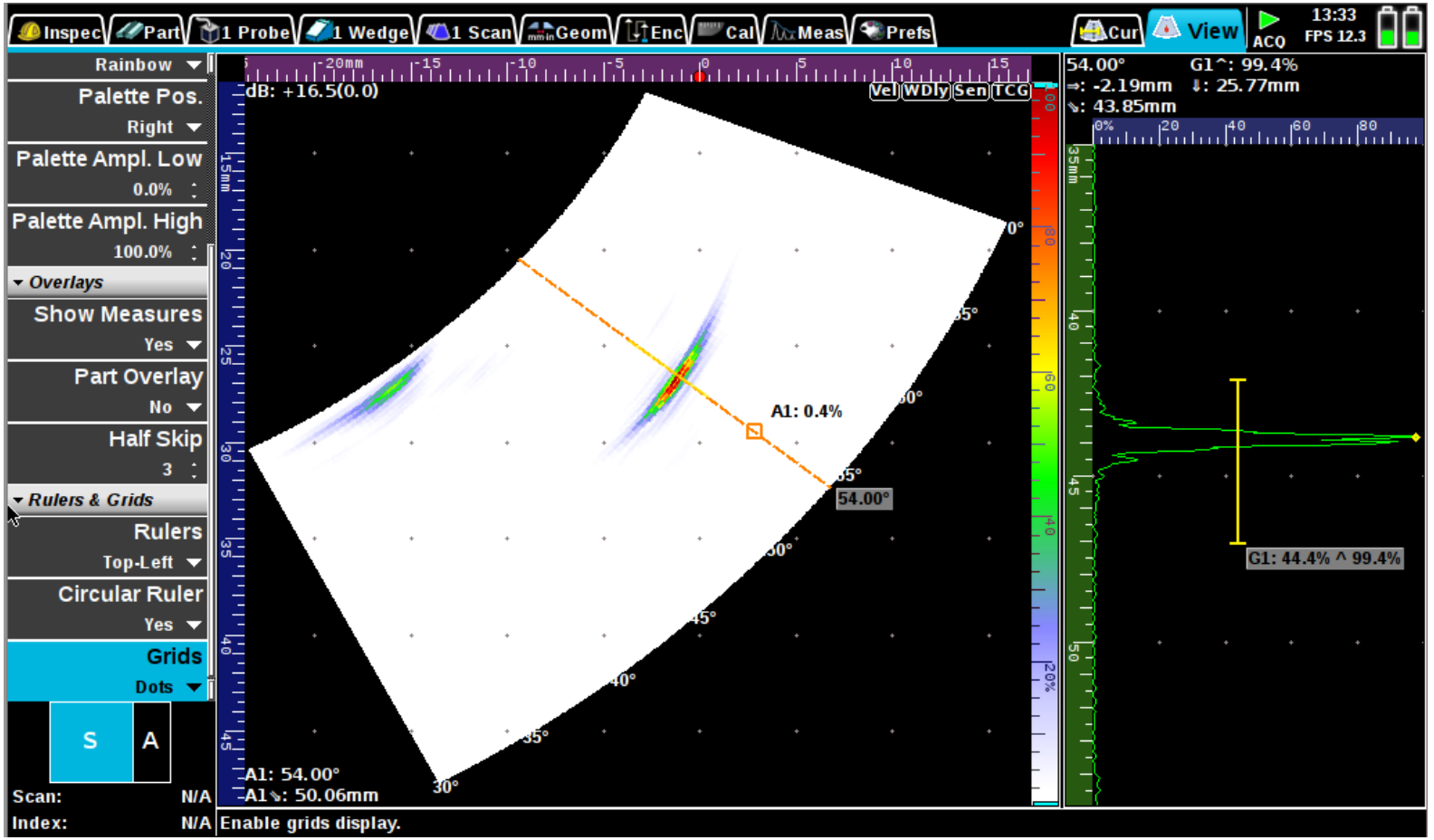
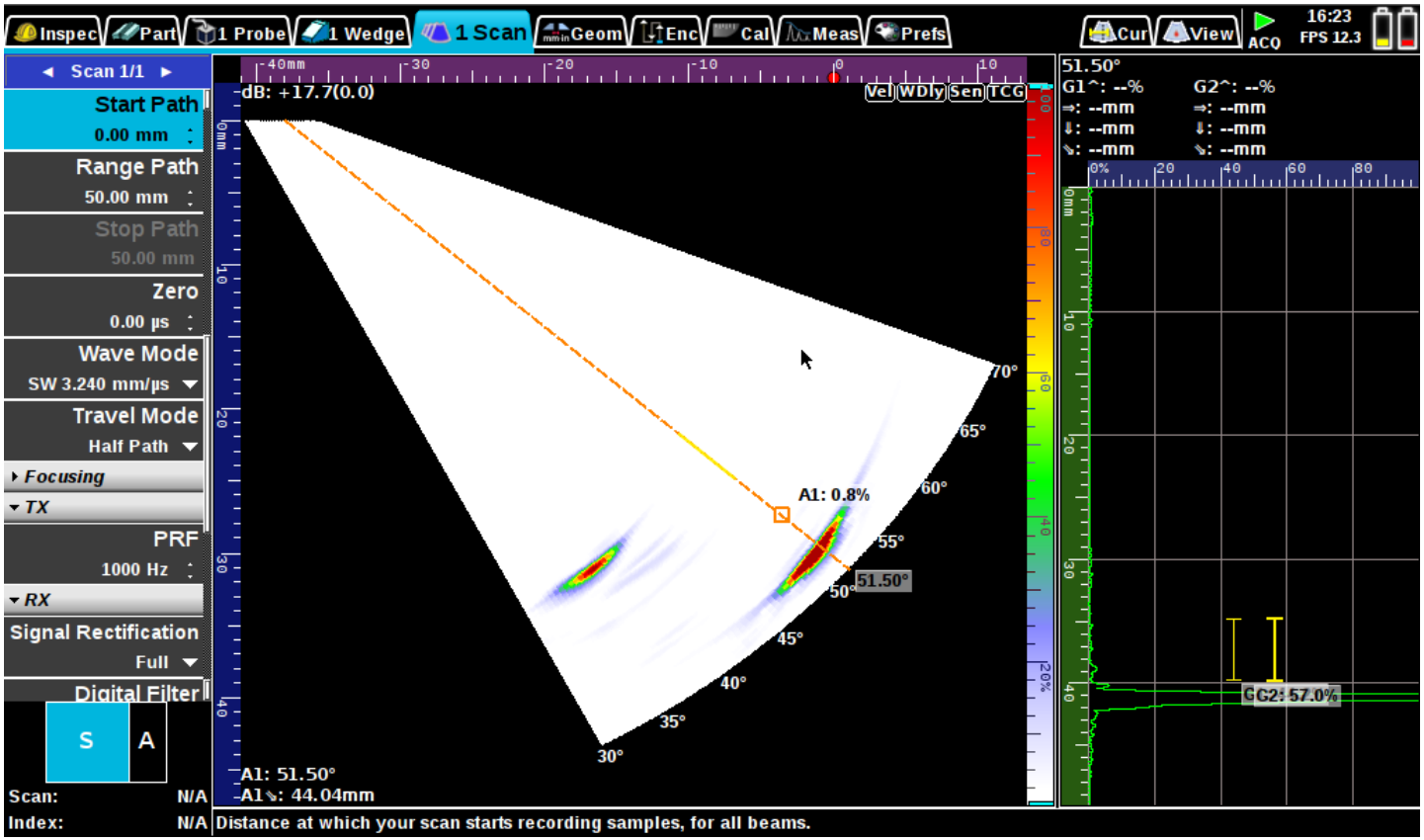


Zoom (L/S-Scan)

PA

- *Enhance resolution into "Region of Interest" (ROI)*



PA

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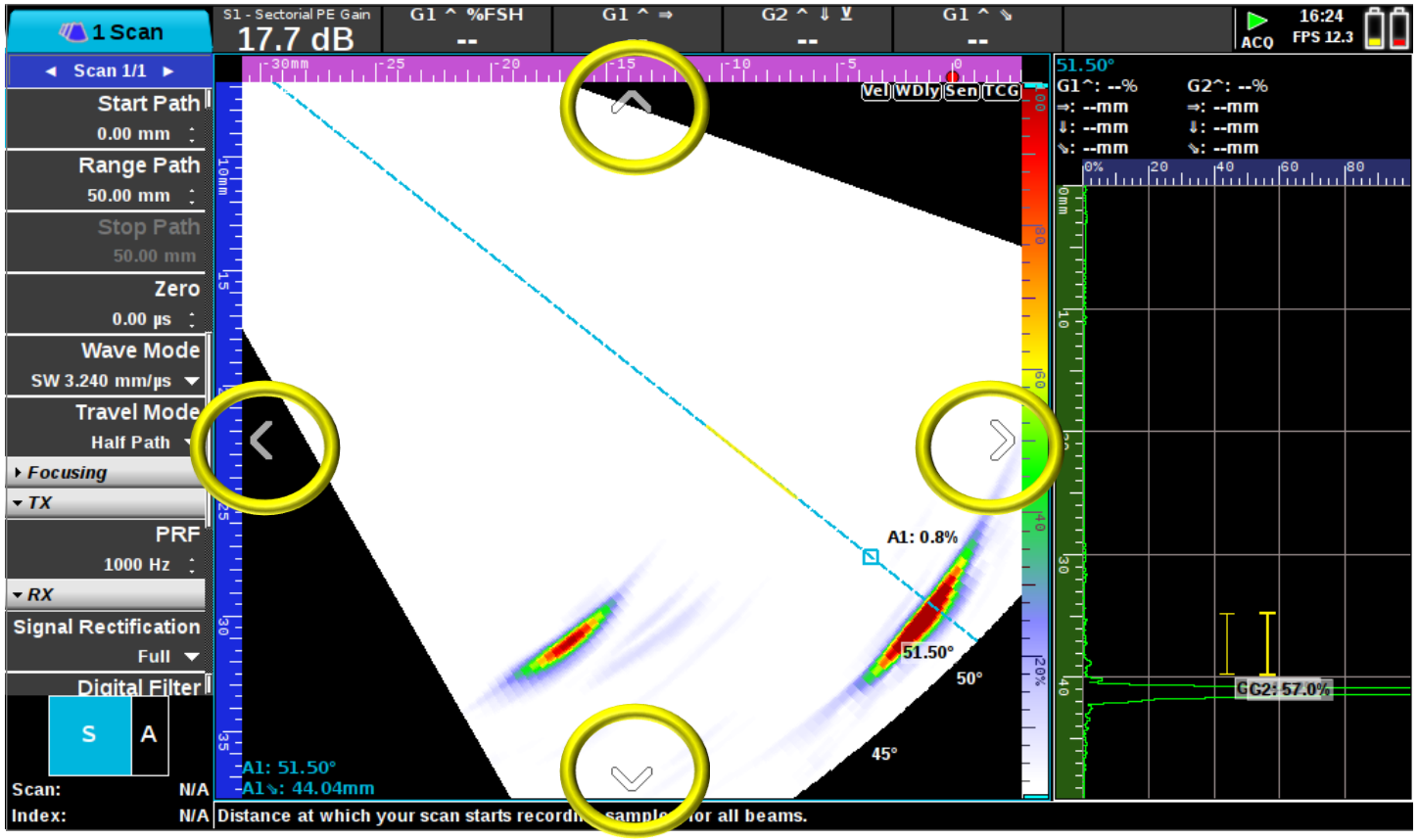

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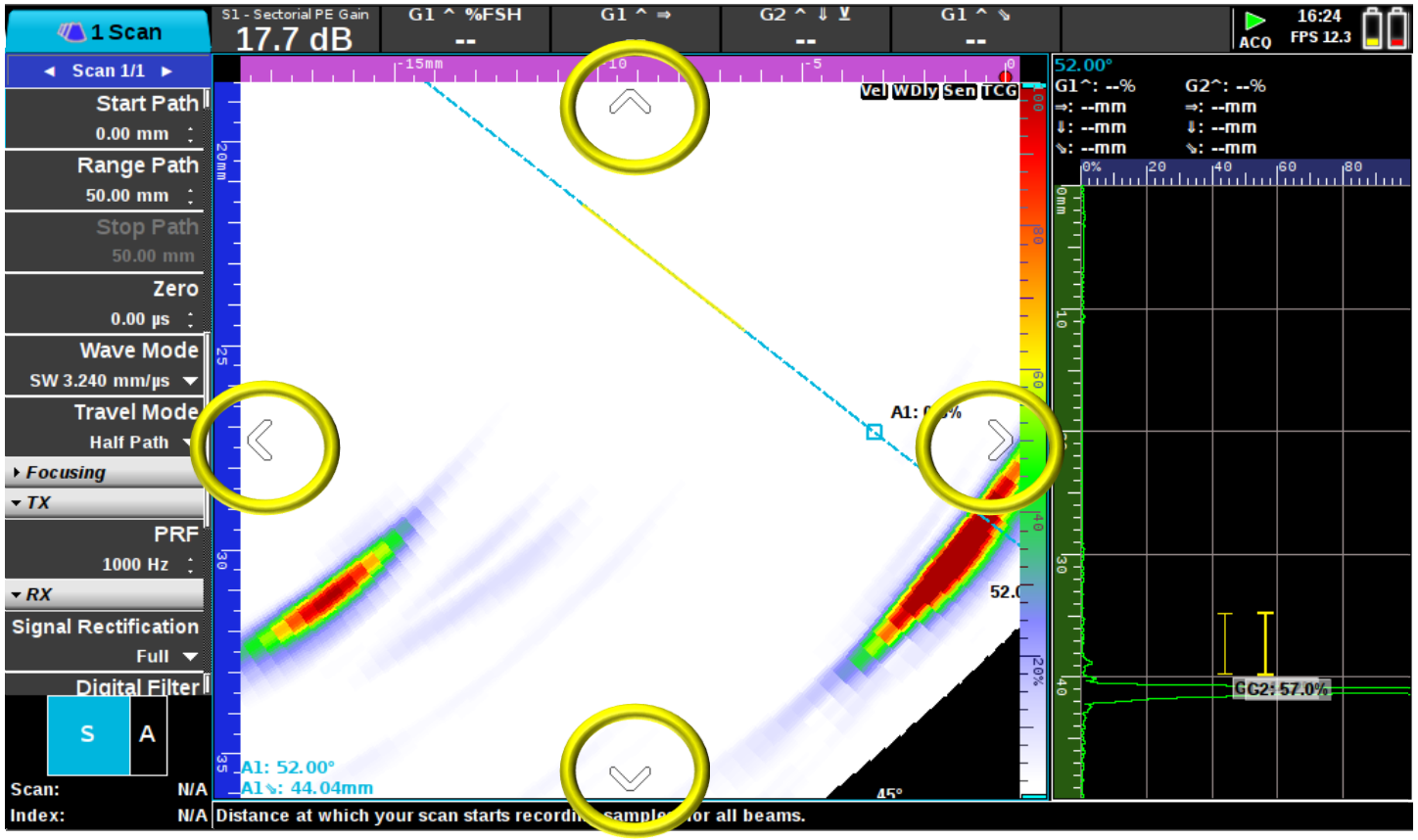
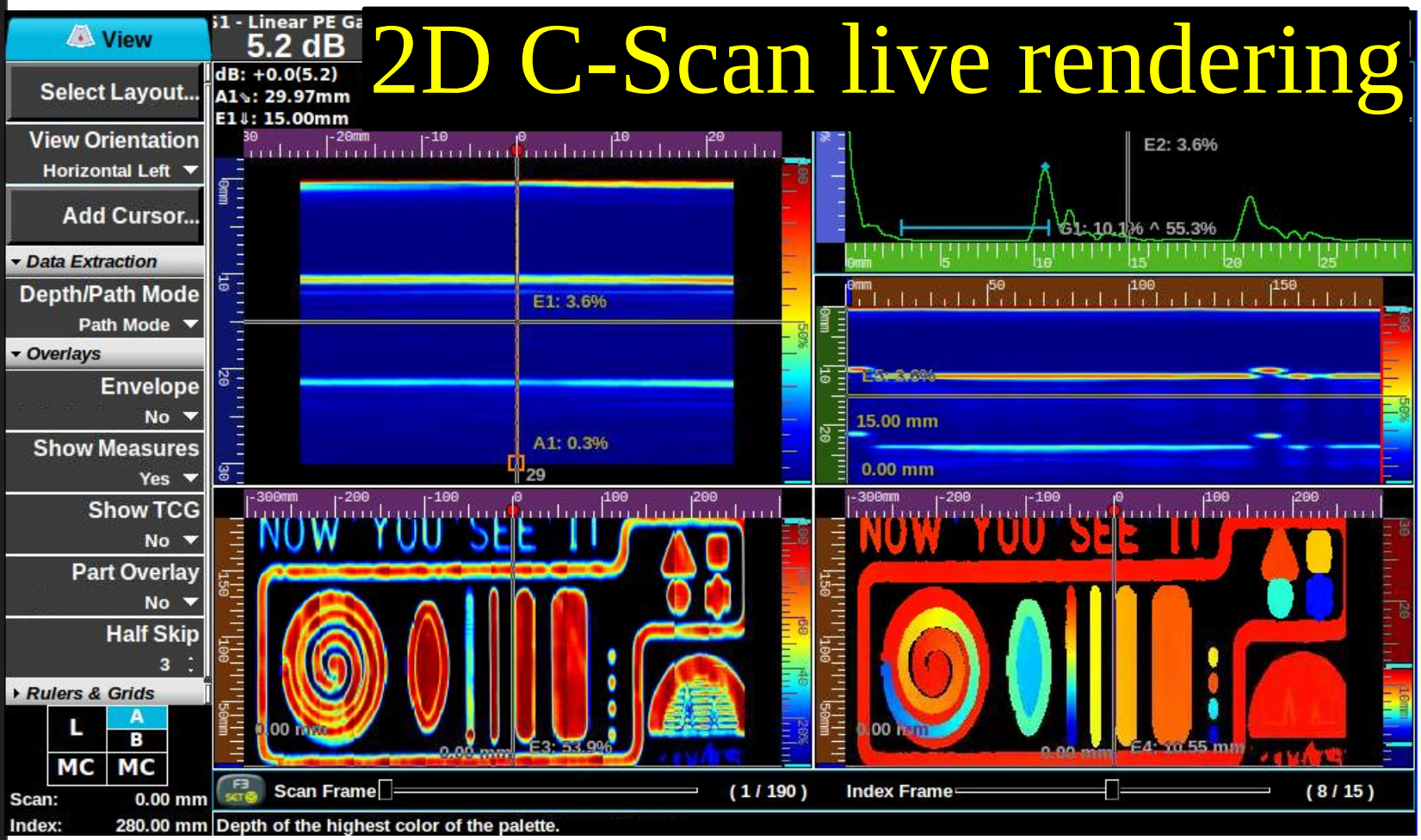


2D C-Scan are rendered during acquisition (Live Merged C-Scan)

PA



UT

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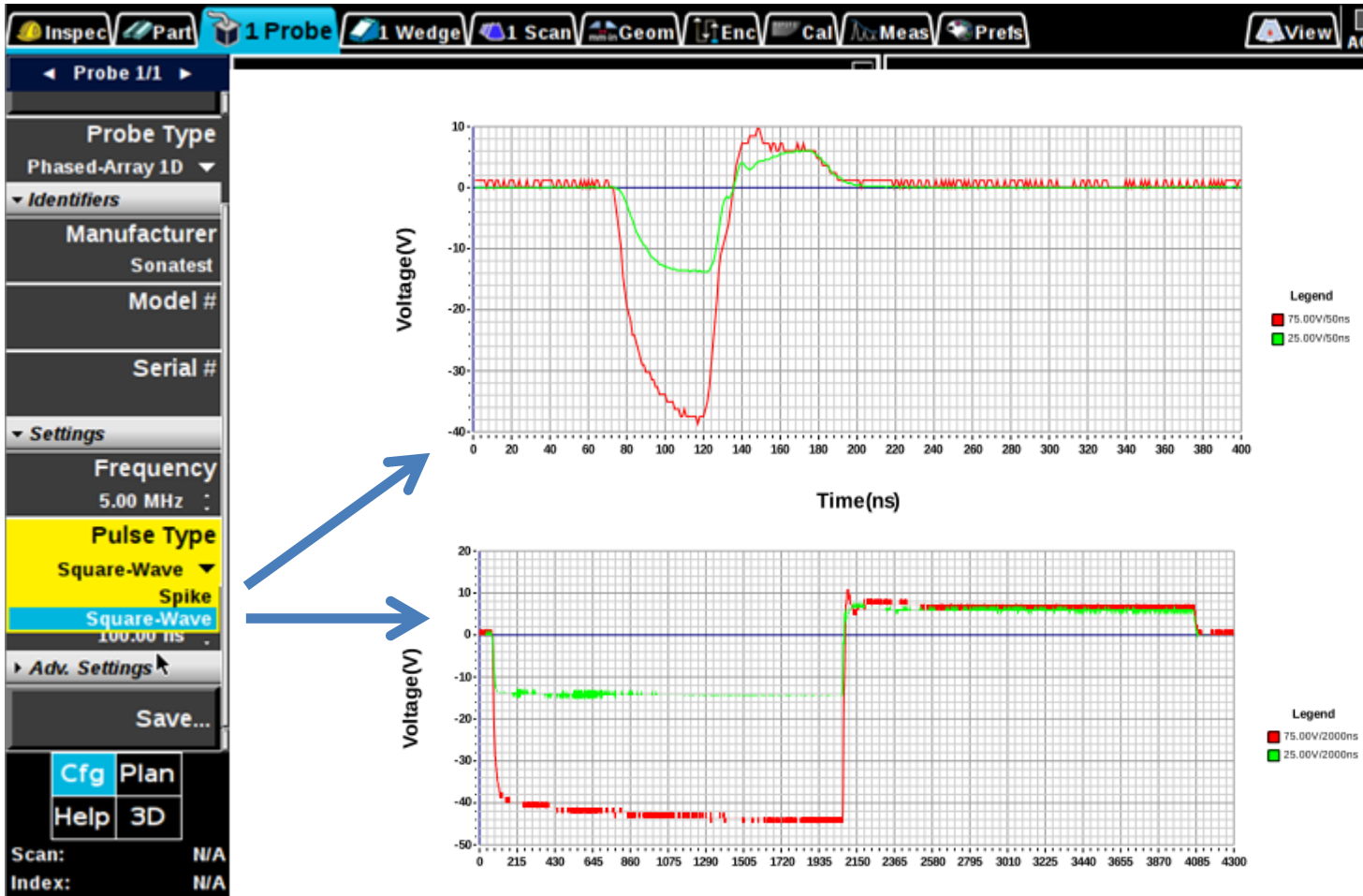
Spike Pulse mode

- *Parameter available from probe menu: "Pulse Type"*
- *It reduces overall sensitivity and <u>increases</u> Signal/Noise Ratio (SNR)*



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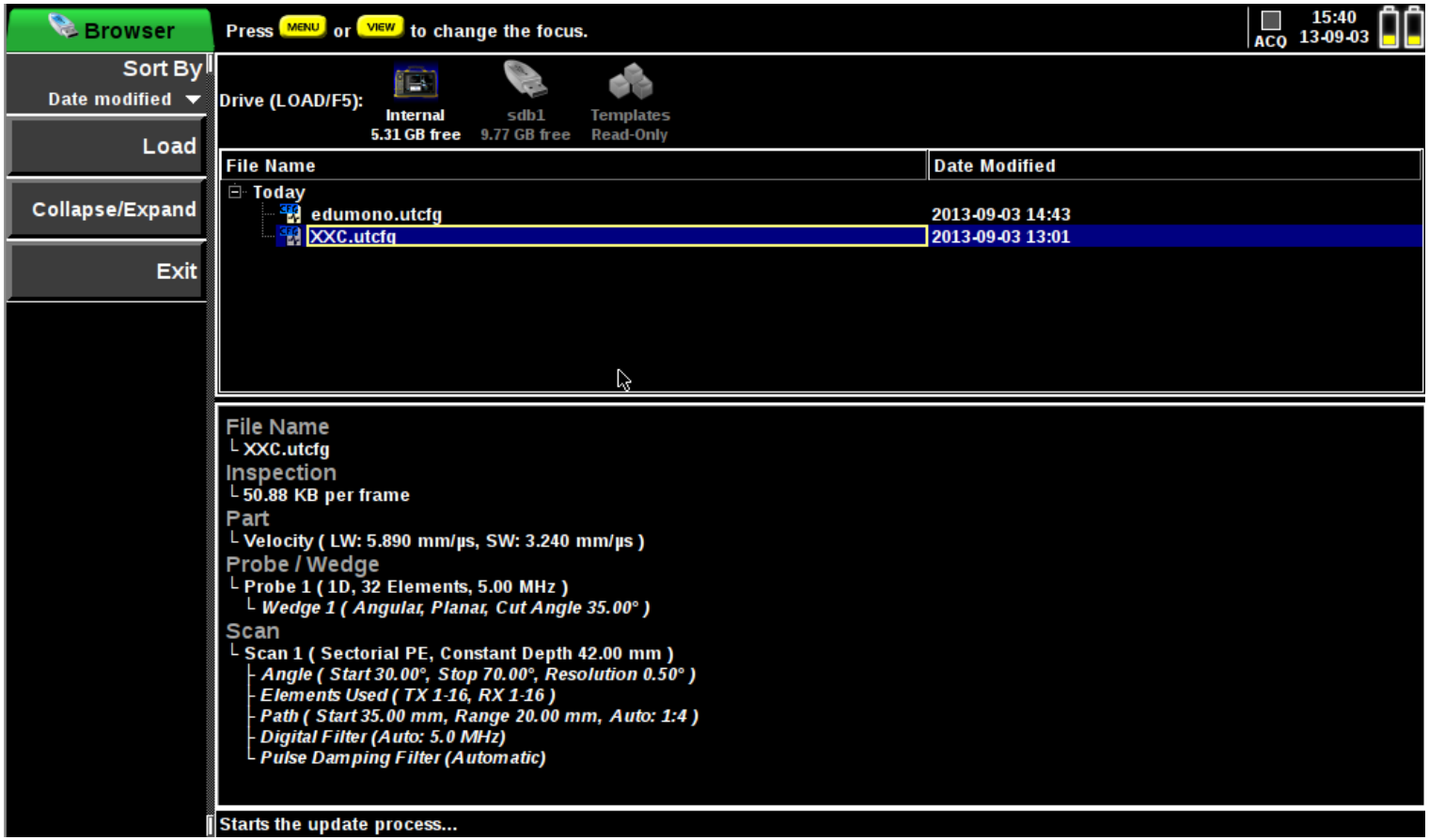
Improved media browser

- *Optimize workflow after acquisition*
- *Saving and loading files is now much easier*

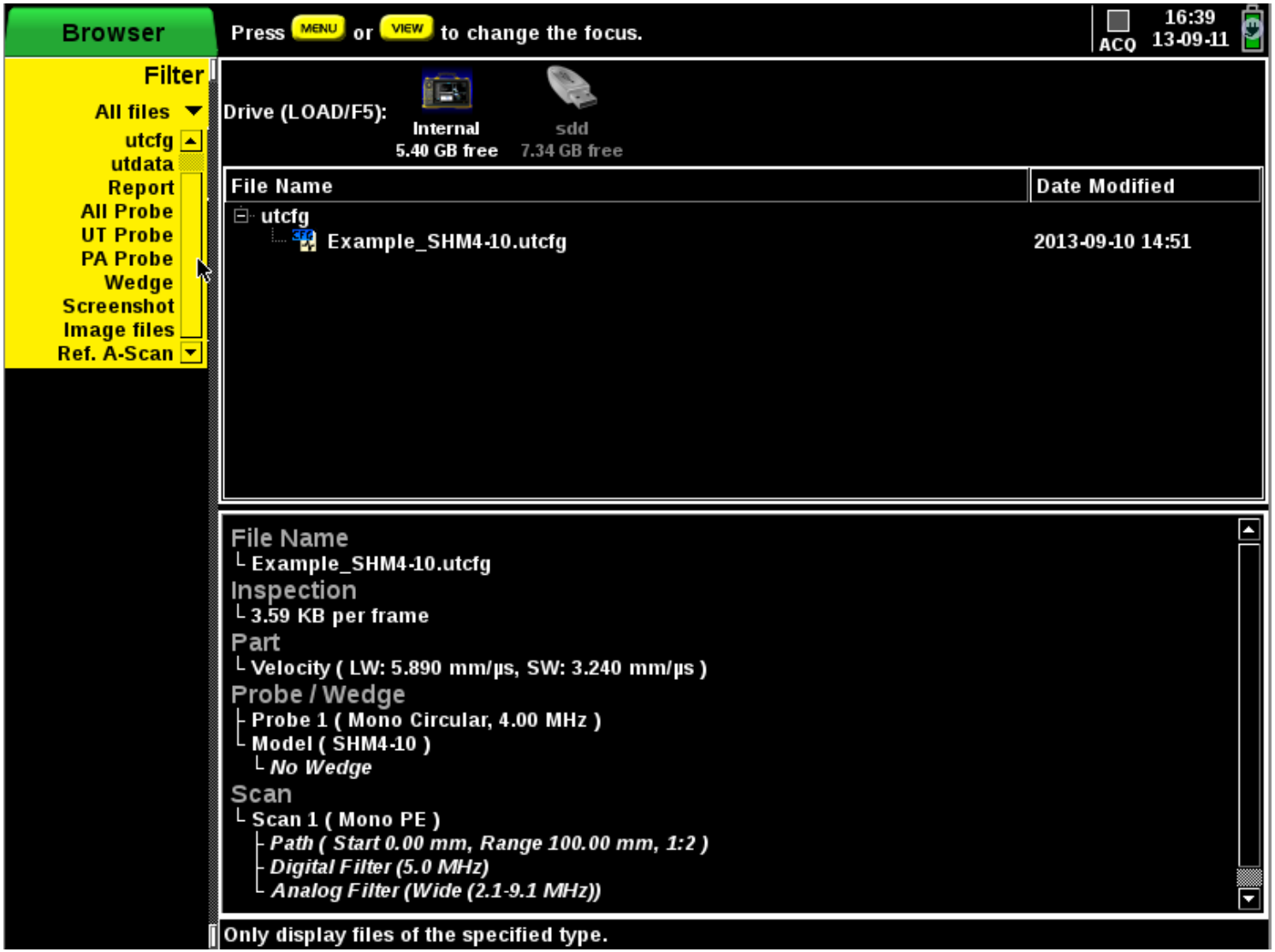


UT

TOFD

PA

Media Brower: More files and filters are now supported



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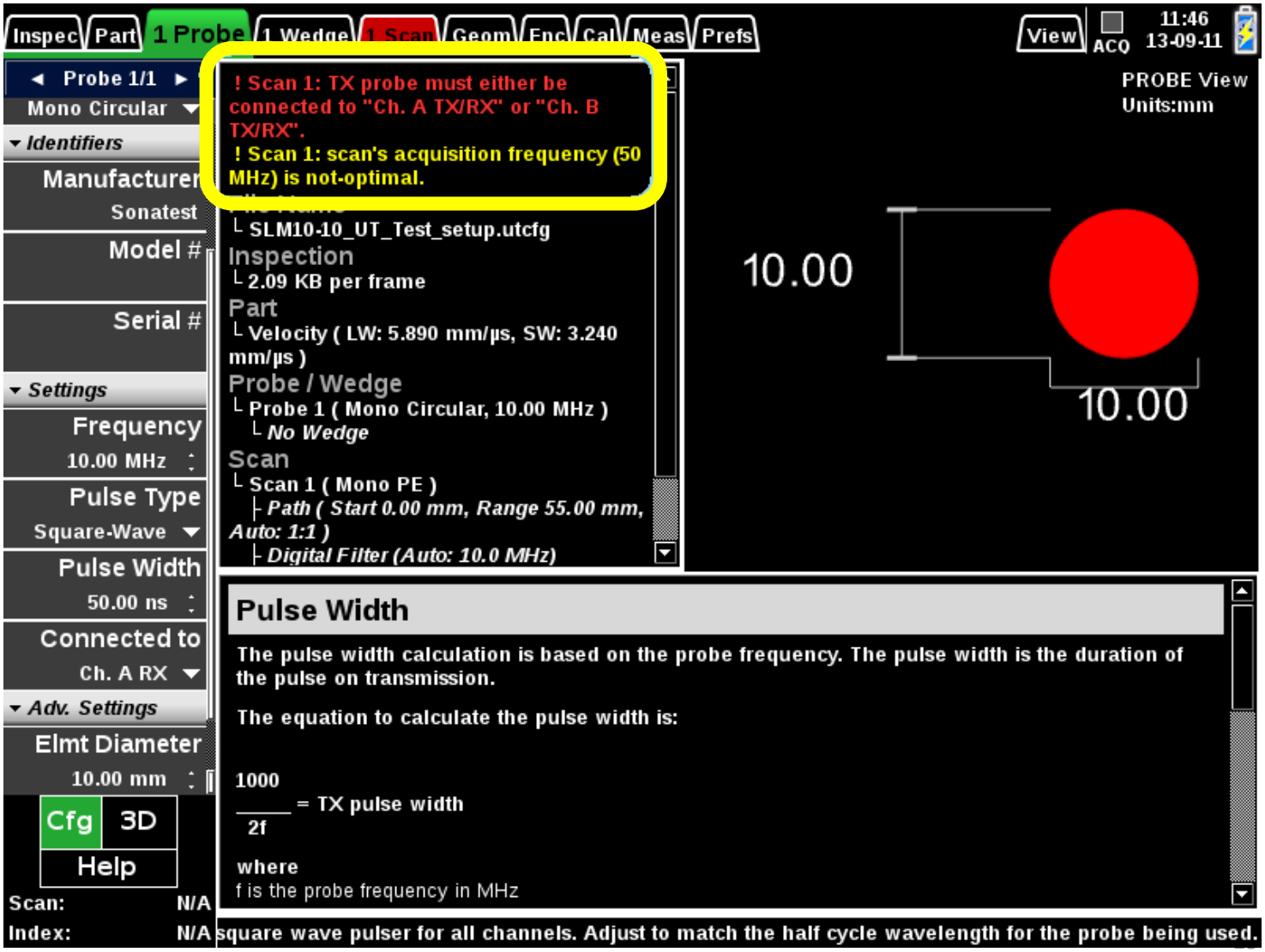
Warning & Error messages displayed at the top of summary window



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Collapse / Expand menu function for easy navigation in main menus

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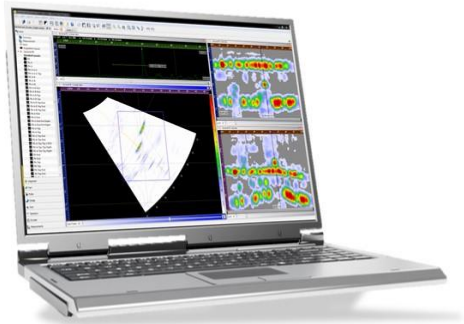
UTStudio

optimizes your workflow!



Steps on UTStudio

1 Setup

4 Reporting

5 Post Analysis

Steps on instrument

2 Calibration

3 Inspection

Setup

Reporting

Post Analysis

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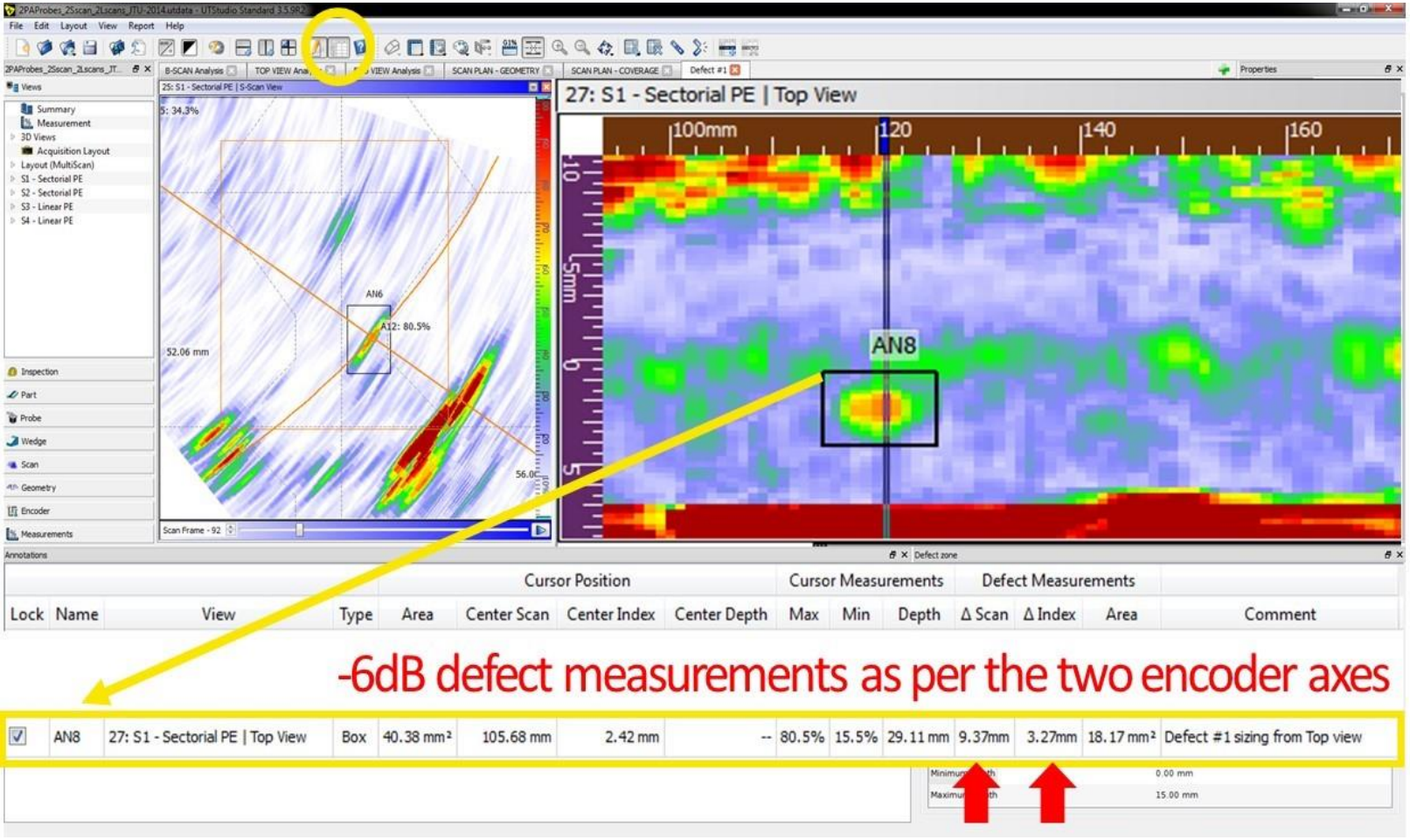
UTStudio 3.5.x
List of Enhancements

- New Palette Editor feature.
- Annotations can now be created in S-Scan, L-Scan, B-Scan and Merged views in addition to previous views.
- CSV Export:
  - Added options to extract individual scans, frames and/or focal laws (#4863)
  - Can export a single S-Scan, L-Scan or A-Scan directly from the right-click menu.
  - Can now be exported in Amplitude (%FSH) format.
  - Can export from a B-Scan view (#5058)
  - Can export from a B-Log view (#5170)
- Add “Open Recent File” action in toolbar.
- Introduction of Zoom function into S-Scan, L-Scan
- View: Reference A-Scan
  - Save Reference A-Scan (A-Log) into configuration file (.UTCFG)
  - Export Reference A-Scan (A-Log) into CSV file
- View: Addition of fixed depth Palette, can be extended out of min/max range.
- View : New grid type: Dots (Graticule)
- View: Dual Polarity Gate/Box: added as view option when scan is not rectified, controls how C-Scans, Top and End
- Views are extracted (positive, negative or RF spectrum).
- 3D view: add stream direction.
- Measurements: Allow multiple selections in Measurements tab (Using CTRL or SHIFT-click).
- Config Summary: show errors and tips at top of window instead of bottom.
- Scan: Prisma UT filters renamed to Low-Mid-High-Broad

Annotation Table

- Annotations can now be created in S-Scan, L-Scan, B-Scan and Merged views in addition to previous views



Annotation Table

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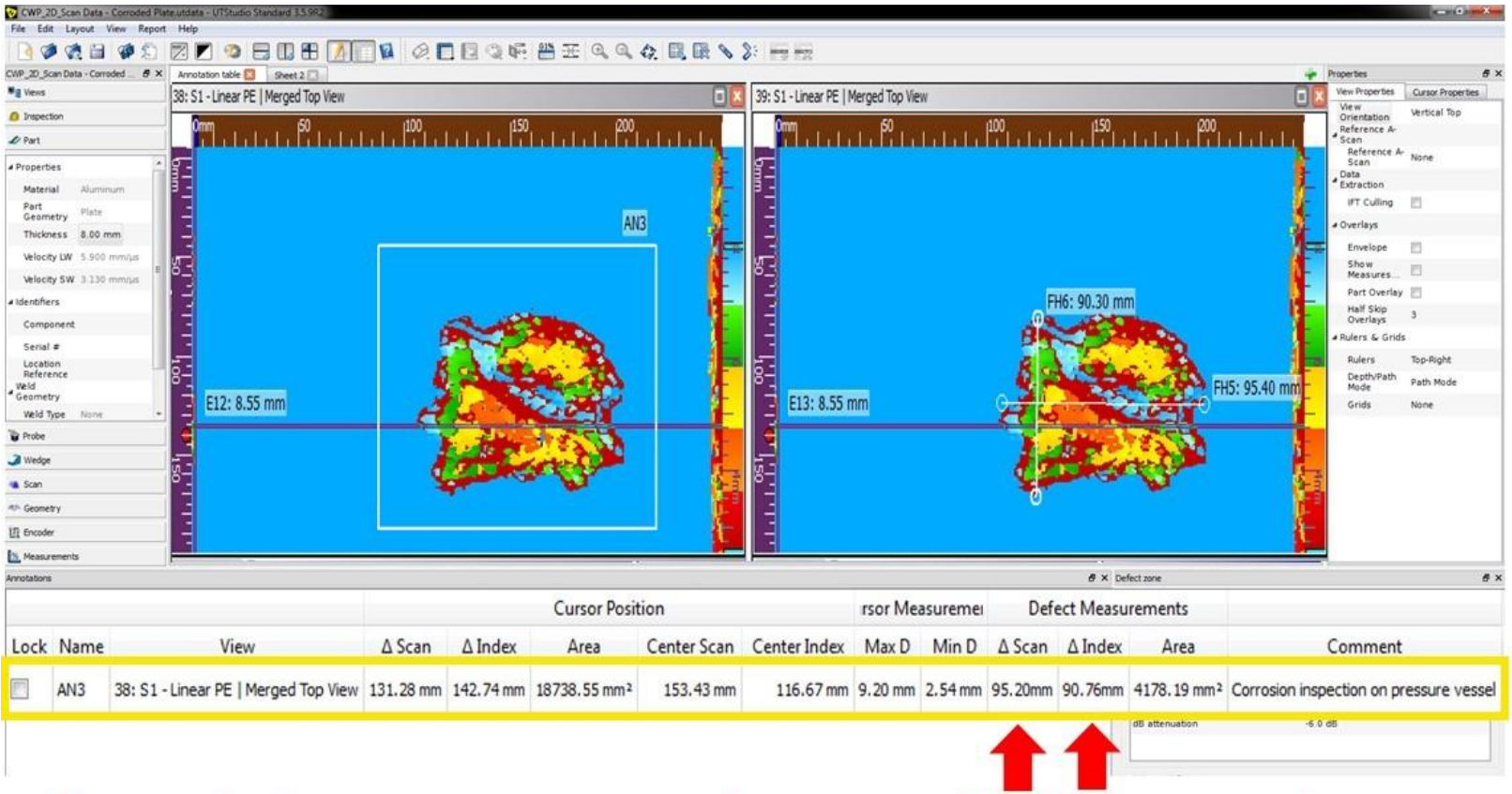
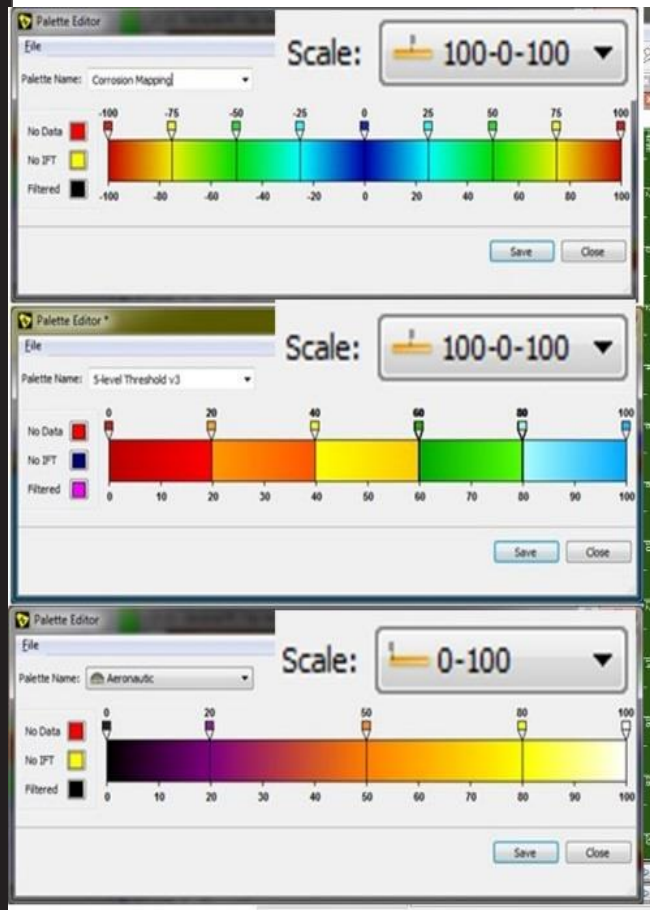
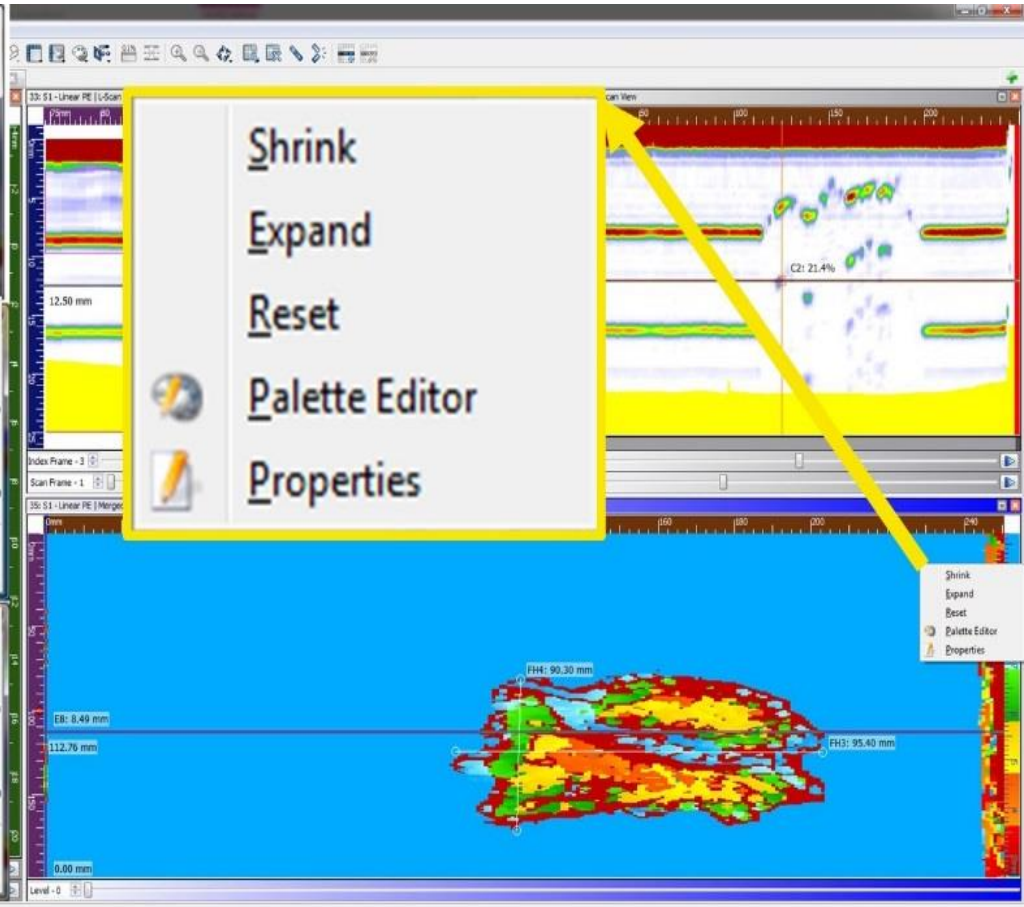


Corroded zone measurements as per the two encoder axes

Color Palette Editor

- Colors can be set over a range 0% to 100% or from -100% to 100%. Colors can change following a constant gradient until next color or with fixed % values.





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Raw Data CVS Export

- New functions are:
  - Options to extract individual scans, frames and/or focal laws.
  - Can export a single S-Scan, L-Scan or A-Scan directly from the right-click menu.
  - Data can now be exported in Amplitude (%FSH) format.
  - Data can now be exported from a B-Scan or a B-Log views.