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Purpose

This note explains new features for RFT and NFT analysis.

Note, see **CICAPP-0016** Auto Cal for the new auto cal feature that allows you to automatically rotate and set volts.

Procedure

I) Simplified Configuration

In the main analysis window menu, options have been added to simplify setting up the system for RFT or NFT analysis. Actions including configuring items in **OPTIONS** dialog, creating the curves, setting the lissajous and strip channels, and configuring the auto cal. These are described in detail below.

Enable the online help to see a list of changes that will be made.





II) New Curves

In the **CURVES** dialog, there is a new tab named **FIXED**. This allows the user to manually add built-in RFT and NFT curves, or create their own. See **CICAPP-0017** Creating Fixed Curves for instructions on how to create new ones.



The built-in RFT and NFT curves are based on the ones developed by Carbon Steel Inspection (CSI).

The **Curve Set** dropdown has options for RFT and NFT. The coil mode, ABS or DIF, is taken from the current channel.

The **FIXED** curves are different from previous CoreStar curves in that they have a number of subcurves that the user can easily switch between. The **Show Curve** dropdown allows viewing a given subcurve. This has no effect on analysis and is just a way to view a given subcurve.

The currently active subcurve is shown in the lissajous. The percent degradation uses that curve.





To choose a different subcurve, right-click on the current one and select it:

PRIM	2 ~	PRIME	:	31.8%
INR	-	HIGH	:	33.6%
SIG	-	LOW	:	49.0%
	_	FRET	;	44.5%
	5			

Note the percent degradation for each curve is shown as well. The selected subcurve will become the current one and measurements will be updated.

	LOW	49 %		
INF	٤ – I			
SIG	ì	VOLTS		



IV) OPTIONS

There are a number of new **OPTIONS**:

🕺 Main Options 🔹 🔋 🗙					
EXPORT					
Display Colors Print	Rep	ort Schema			
New File Auto Balance Auto Scale Auto Locate Goto First Sig Goto Begining of Tube Lissajous Show Bal Point Next Tube On RB Color Code Gains Lissajous Points Only Draw User-defined Lines TLIST Monitor Tlist		Startup/Shutdown Auto Store Setup Auto Load Setup Config Change Check Config Name Check Probe Speed Check Non-Data Chans Ignore Frequencies Miscellaneous Auto Cal Hotkey Continuous Meas Independent Meas Balance When Scrolling Use New Vpp Use Multicore			
				Display Auto Span	75 %
Loc Proximity Strip Chart Margin	2.0 in ÷ 100 pts ÷				
Meas Ball Radius	5 pix				
Meas Ball Thickness					
Highlight Percent	OFF				
		OK Cancel			

The Edit -> Configure For ... menu will configure them as above.

Under **Config Change**, **Ignore Frequencies** will prevent the config change dialog from displaying (which would also clear curves) when the frequencies change.

The **Continuous Meas** option will cause measurements to be made automatically as you scroll through the data. The scrolling can be done with the mouse or **Up** and **Down** arrows on the keyboard.



The **Independent Meas** will cause the measurements to be done independently on each channel. This is different from eddy current where the measurement balls from the primary channel are propagated to other channels.