Release Notes
WITE32™

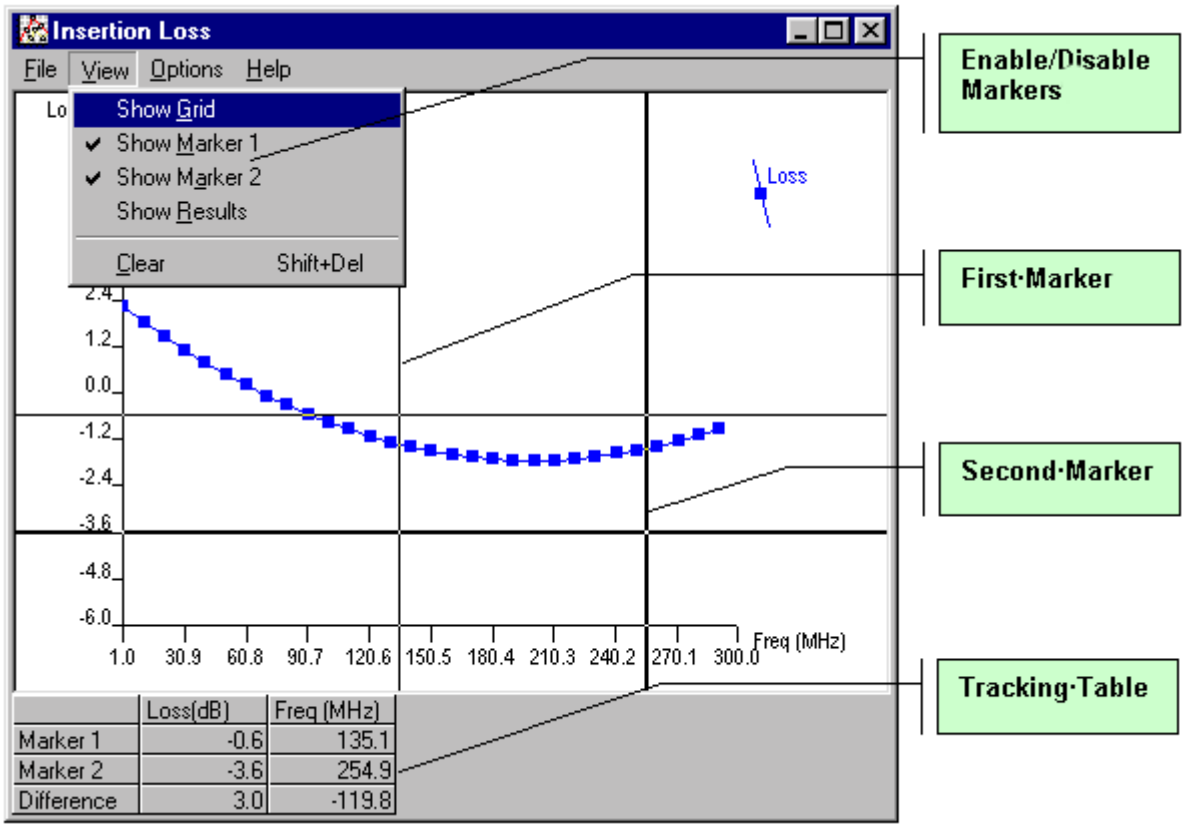
Version 2.54
11/27/2000

Introduction

The 2.54 release incorporates new features introduced after the WITE32 2.53 release. (This document uses the WITE32 2.53 release notes as a base line for comparison.)

Modifications

1. Two-marker capability of the Guzik Graph processor. Starting from WITE32 ver.2.54 you can use two markers in the test graphic output windows. Using two markers, you can measure coordinates of two points on the plot, and calculate the difference between two points.



By default both markers are hidden. To show one or two markers, you click on the *View* | *Show Marker 1* and/or *View* | *Show Marker 2* menu items. When the marker is displayed, a tracking table will appear at the bottom of the graph window. If two markers are displayed simultaneously, then in addition to the marker locations the distance between markers is displayed.

To relocate marker:

- Move the mouse pointer and place it over one of the markers. You don't need to bring mouse pointer to the center of the marker, it can be pointing at any point of the vertical or horizontal marker line. The mouse pointer will change shape from the default pointer to the four-headed arrow pointer.
- Press and hold the left mouse button.
- Move the chosen marker to the new position and release the mouse button.

To distinguish between two markers, Marker 2 is drawn twice thicker than Marker 1.

2. The default paper orientation has been changed from *Portrait* to *Landscape* for the test graphic result windows. You can change paper orientation by clicking on the *File* | *Print Setup* menu item in the graphic result window and selecting desired layout.

3. A new menu item *File* | *Save Using Default Name* was introduced in the Guzik Graph processor. WITE32 assigns the following default name to saved files: GGRAPHDEFAULTNAME_n.EMF, where n = 0,1,… is added to provide unique file names, such that existing files are not overwritten.

4. A new option *Adjust UP Gain* was introduced in the *WROffset* test configuration dialogue box. This option is disabled by default. When you enable the *Adjust UP Gain* option, the *WROffset* test performs Universal Preamplifier gain adjustment after the Write-to-Read offset measurement. Gain adjustment is performed only once, regardless of number of iterations specified for the Write-to-Read offset measurement. Gain adjustment is performed using the signal from the head. The adjusted gain value (the Universal Preamlifier gain step) is reported to result processor as an *UPGain* value.

5. New feature in the WITE32 Engineering Mode dashboard. The *Increment/Decrement* buttons in the *µInch Offset* frame allow to increase/decrease the head offset by one µInch. When you click the *Increment/Decrement* buttons holding the Shift button, the head offset will be increased/decreased by one device micro-step (for example, for S-1701A+ Guzik spinstand the device micro-step is equal to 0.01922 µInch).

6. If the *Station ID* field in the *Configure* | *Identification* | *Station ID* window is left blank or starts with three-letter abbreviate "RWA", then WITE32 automatically prints RWA Serial Number and Spinstand Serial Number in the Station ID field. The format of the printed string will be "RWAxxxxx_SSyyyyy", where xxxxx is an RWA Serial Number, and yyyyy is a Spinstand Serial Number.

7. The PRML Chip Optimization test result QM can now accept grading like any other test result.

   NOTE: Note: If the resulting value of QM is equal to –1, the most probable reason is misconnection of RDX / RDY cables on the chip adapter, or bad connection between the chip adapter board and the chip adapter interface board.

8. Software support for the following head amplifiers:

   - VM5640
   - SR1766
   - SR1720DDAA

9. Software support for the following head stacks:
    - VM5640
    - SR1711AAA
    - SR1711ABA

Fixed Bugs

1. In the *Define Grade Limits* grading configuration form, the number of rows displayed in the table is not updated correctly when you resize the window to a bigger size. This leaves some empty space in the table. This bug occurs only when the current row is in the last row of the table during the window resizing.

2. If there are more than one head in the system and they fail grading limits in the _ZOutside zone, the Grading system reports wrong zone/setup information of the failing heads.

3. S-1701A+ spinstand is reported as S-1701A spinstand in the Spinstand Alignment Program EPROM Dump.

4. Hot keys in the WITE32 Engineering Mode dashboard do not work properly.

5. WITE32 generates multiple log files, which are saved in different locations. Starting from WITE32 ver.2.54 there is only one file BLACKBOX.LOG, which is saved in one location defined by the following rule:
    - if %TMP% environment variable is defined, the log file is saved to the location specified by %TMP% variable,
    - if %TEMP% environment variable is defined, the log file is saved to the location specified by %TEMP% variable,
    - otherwise the log file is saved in current WITE32 directory.

6. Guzik Graph processor: an intermittent clipping error during graph printing. The bug appears as an erroneous line drawing while viewing on the screen or printing a hard copy. The fix may result in slight slow down of graphic output in WITE32 ver.2.54 comparing to previous versions of WITE, which happens only in case you have auto-adjustable the axis boundaries. Please specify fixed axis boundaries for faster graphic output.

7. Track Profile Test: The zone/setup dependent parameters for track profile range were not restored correctly from the product database.

8. Spectrum Analyzer Test: Incorrect error message “Spectrum Analyzer frequency 400 MHz is out of range” can appear during the test execution, although the Spectrum Analyzer can handle frequencies up to 400 MHz inclusively.

9. The Export/Import operations in the PRML Chip Configuration form change current WITE32 directory, which causes WITE32 to save calibration and some other files into wrong location.

10. Digital Parametric test produces invalid values for noise measurements (SNR and Crest Factor), if TAA or PW measurements are disabled.

11. Intermittent message "Bad calibration signal" during hardware initialization on WITE32 startup/restart.