ROBIN-Analog Boundary Scan system

BASS Solutions

ROBIN shortly

- Patented method for measuring analog components with Boundary Scan i.e resistors, capacitors, diodes and coils
- Method was earlier known as Sniffer, but ROBIN collects more measurement data and more advanced mathematic functions are used for result calculation.
- Test developer can bargain between measurement time and accuracy
- More technical info and test results are in separate presentation.

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ROBIN shortly

- ROBIN collects stream of data, and mathematical functions are used for component value calculation
- ROBIN is very easy to integrate with Boundary Scan environment

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ROBIN main benefits for Boundary Scan markets

- Adds possibility to make analog component testing with traditional Boundary Scan. (resistors,capacitors,diodes etc.)
- Main segment for ROBIN is devices with low current consumption i.e heart rate monitors, intelligent watches, and devices where high test coverage are needed i.e military, automotive, medical systems.

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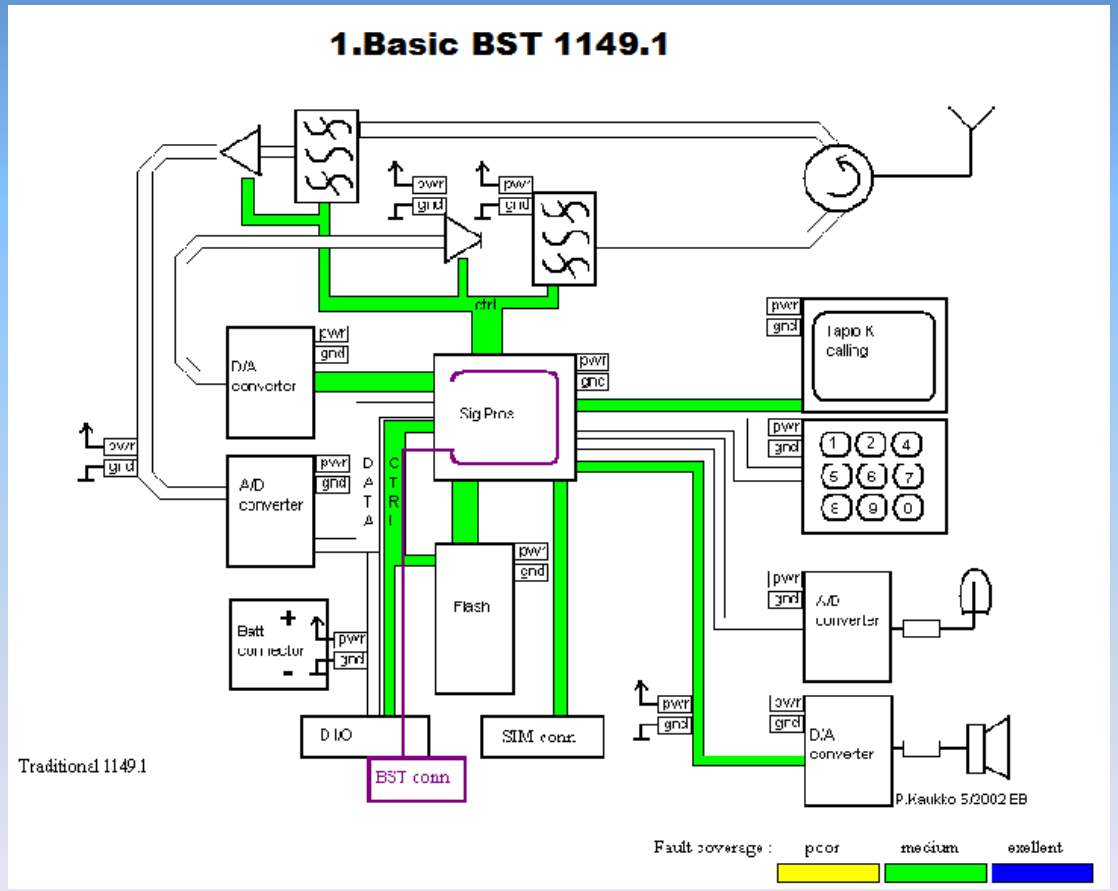
ROBIN increase test coverage



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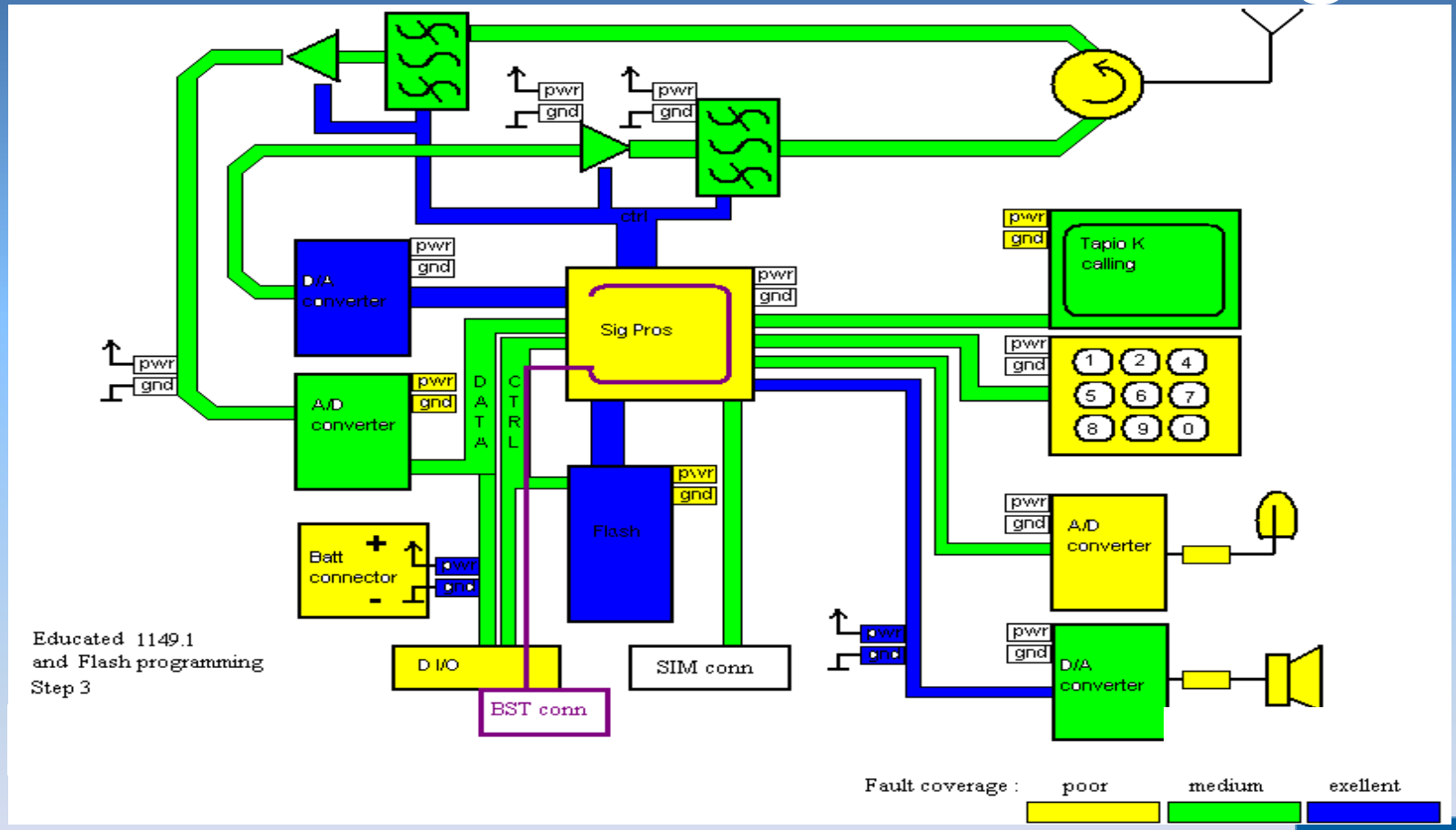
ROBIN increase test coverage



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ROBIN with Cascon

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ROBIN with Cascon

- This document presents ROBIN Analog component test creation process

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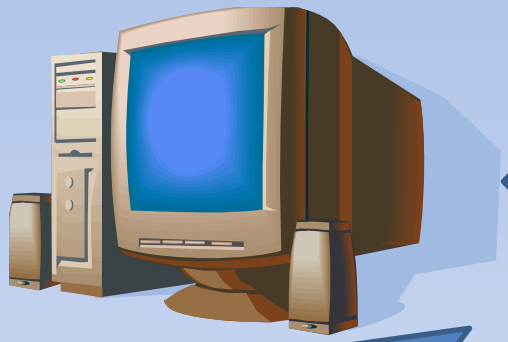
ROBIN test setup



Communication via GPIB

Keithley 3706 and 2306

Cascon control interface

Measure current When ROBIN interface is called

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First step

- New Cascon project is created normally.
- ROBIN parser interface is executed for analog components. It creates *.cas-files for analog component measuments

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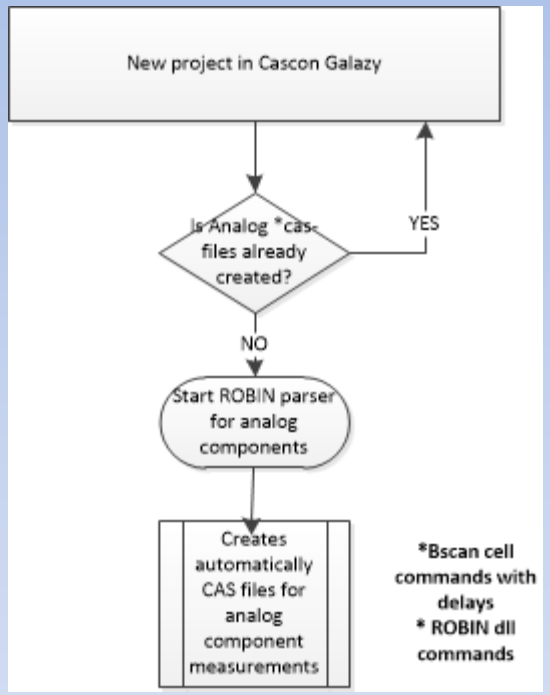
ROBIN parser interface



Second step: Project Execution

- Cascon project is execute normally. ROBIN analog measurement interface is called via analog component *.CAS files

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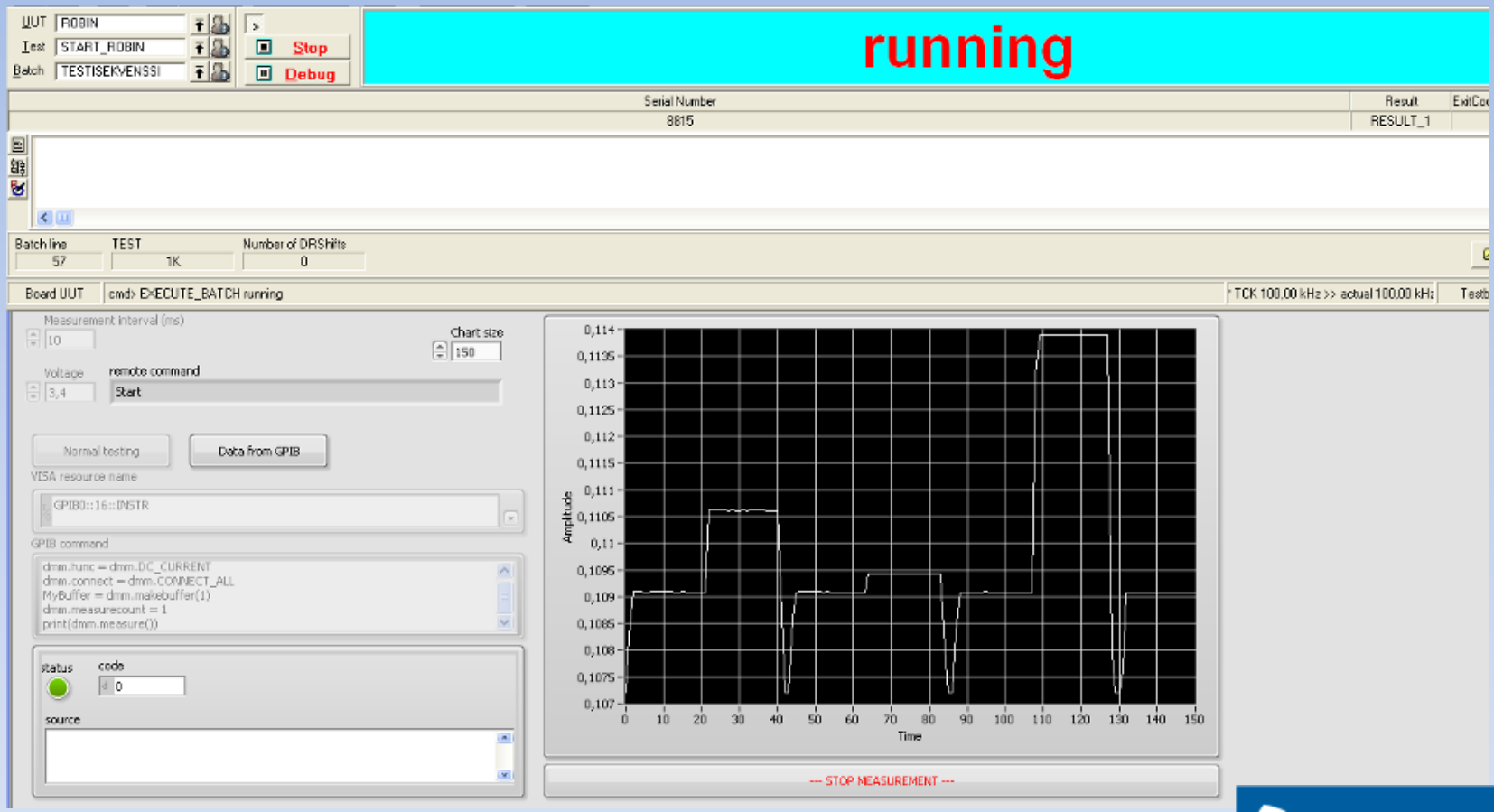
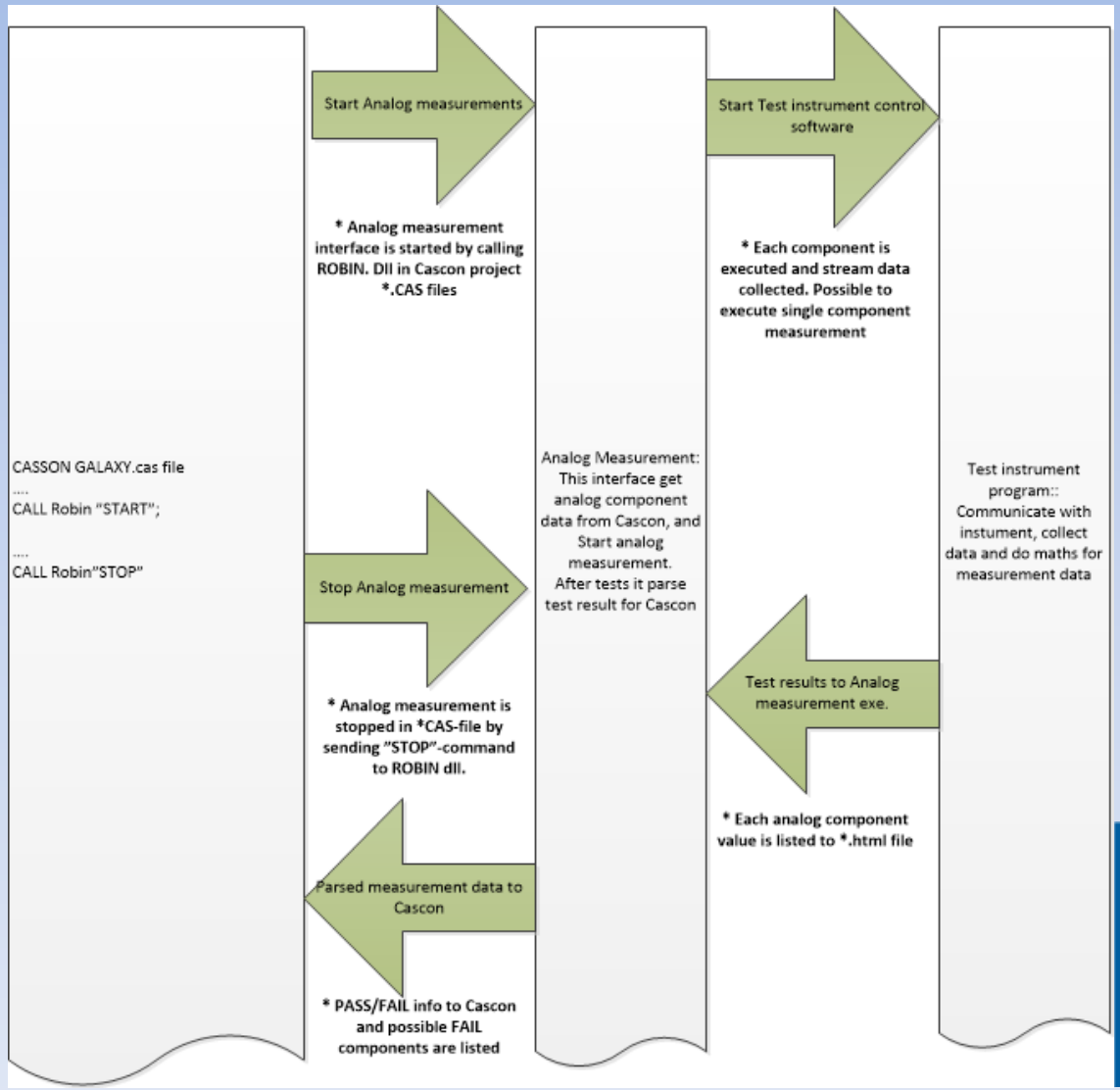
ROBIN interface



ROBIN SW interfaces



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Final Step: Results

- ROBIN interface send PASS/FAIL information to CASCON.
- Each component value is collected to separate *.html document

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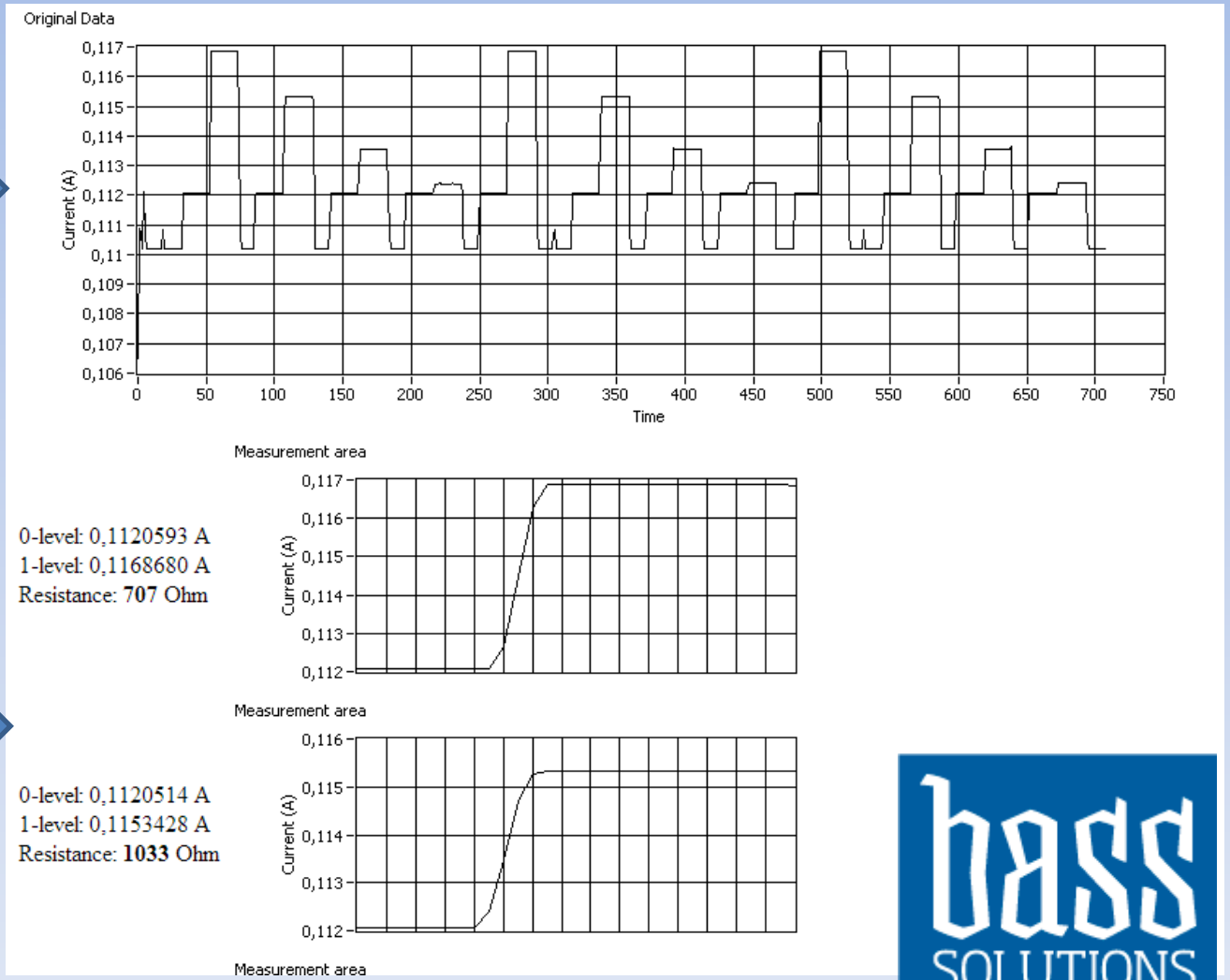
ROBIN result file

Measured current values



Single component values

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Marko Turpeenoja BIO

- Nokia Mobile Phones 2000-2002
  - RF trainee
- Central ostrobothnian polytechnic 2002-2006(Centria Ylivieska)
  - Testing specialist
  - Future testing methods research and project management(Bscan,future RF testing, test buses PXI,LXI etc.)
  - Testing techniques lecturer (Labview and TestStand)
- Elektrobit 2006-2010
  - Senior testing specialist
  - Testing solutions for different radio interfaces
  - Production test manager
- Entrepreneur 2009-

BASS Background

- Our business began in 2009 for commercial applications in Labview implementation. (**B**uilding **A**utomation **S**oftware **S**olutions)
  - Innovative energy-saving software for real estate remote control systems
  - The first prize in Energy Nero Competition organized by YIT, inventor Foundation and Aalto university
- Currently providing testing solutions for ITC, Healt care and basic industry. Customers are top in their field internationally.
- Located at Oulu, but our solutions are used around the world.
- Göpel Gate Partner

Business Areas

Testing services and Products

- Automated Test equipment for integrated embedded systems including RF
- Boundary Scan test application for HW and RF
- Patented ROBIN product for extenced R&D / production testing
- Experienced Project management with wide contact network to main Test tool suppliers with specialist

Software development services

- National LabView and TestStand applications, Visual Studio
- machine vision applications
- Siemens, Panasonic programmable logic applications

Process excellence services

- Design for Excellence
- New Project Introduction
- Consultation for Production methods / tools

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We Make it happen!