

Software Features & Functions

- **Test Plan Editor Functions**
- **Tester Buttons**
- **Local SQL Data Base**
- **Managing the Tester-Admin Access**



Test Plan Editor Functions



Roos Instruments

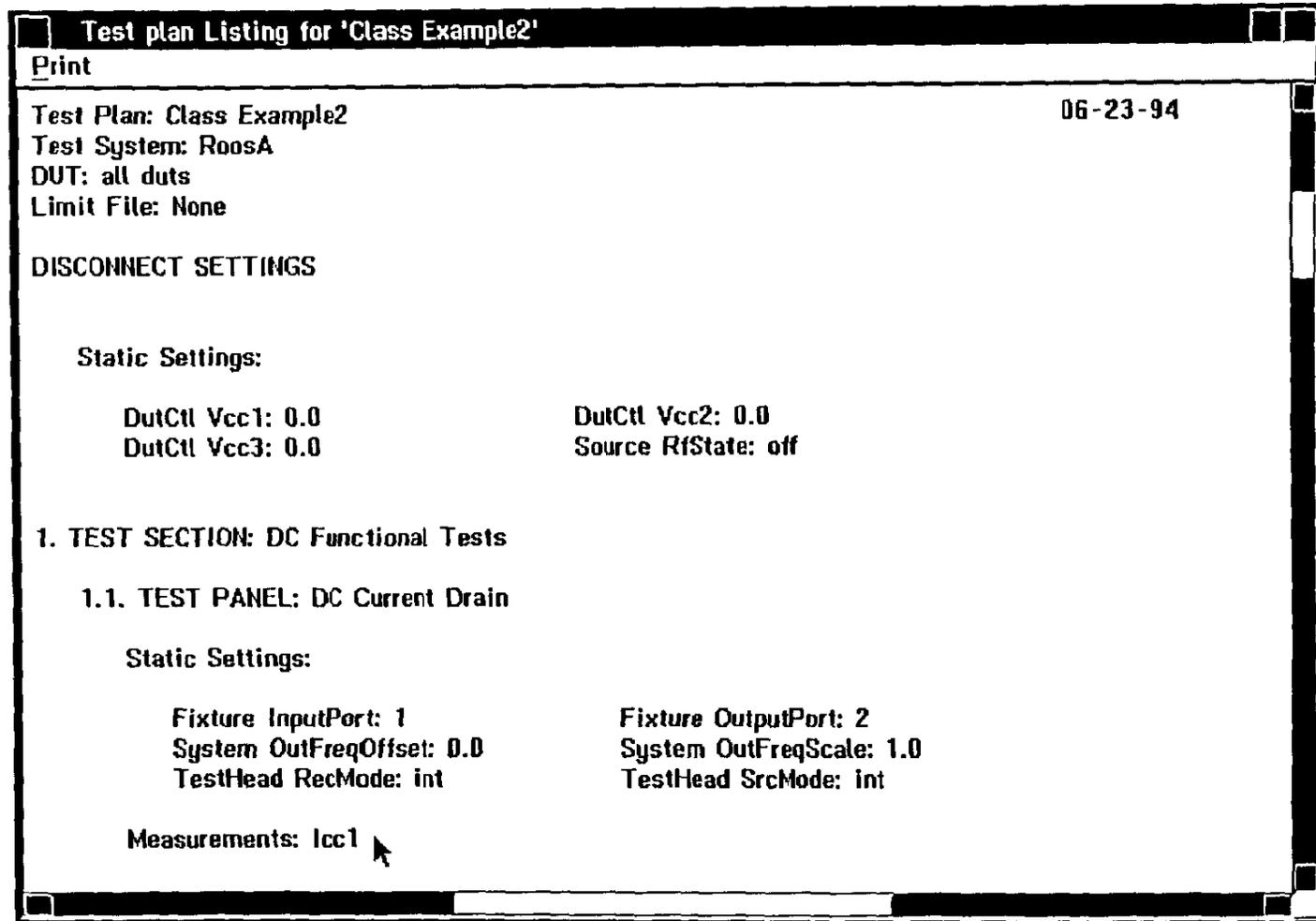
Displaying a List of the Tests & Test States

The screenshot shows a software window titled "Class Example2 on Active System (RoosA)". The menu bar includes "File", "Edit", "Test Plan", "Tester", "Limits", "Options", and "Help". The "Test Plan" menu is open, showing options: "Save" (Alt+S), "Listing", "Test: RF Gain", "Test: Noise Figure", "Test: Gain Compression (P1dB)", and "Test: 2 Port S Parameters". The "Listing" option is selected, and a mouse cursor is over it.

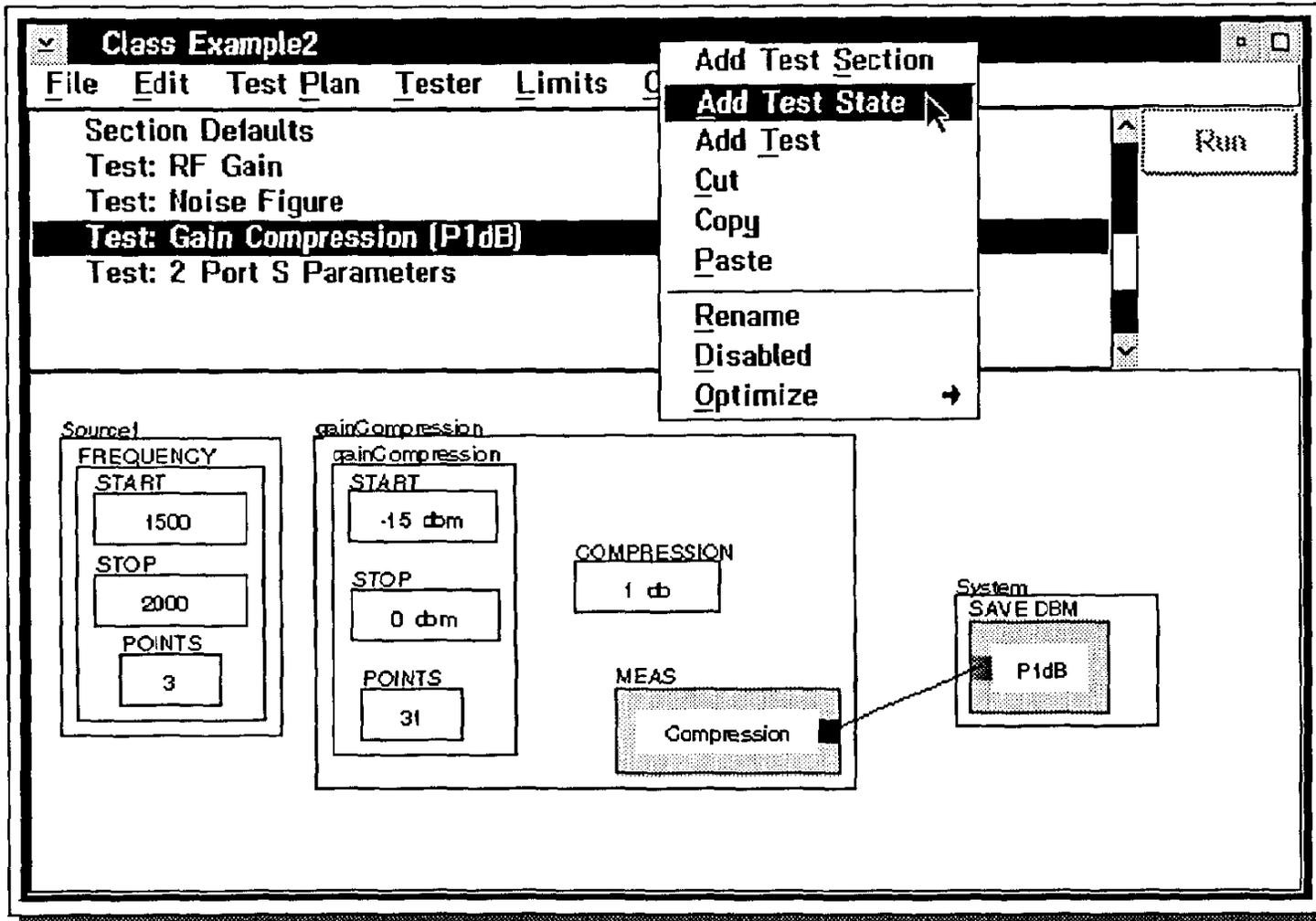
Below the menu, a test configuration diagram is displayed. It consists of several interconnected blocks:

- Source**: A block containing "FREQUENCY" with "START" (1000) and "STOP" (2000) fields, and "POINTS" (5).
- gcm**: A block containing "START" (-15 dbm), "STOP" (0 dbm), and "STEPS" (31).
- COMPRESSION**: A block containing "1 db".
- MEAS**: A block containing "Compression", which is highlighted with a thick border.
- System**: A block containing "SAVE FORMAT" and "P1dB", with a line connecting it to the "MEAS" block.

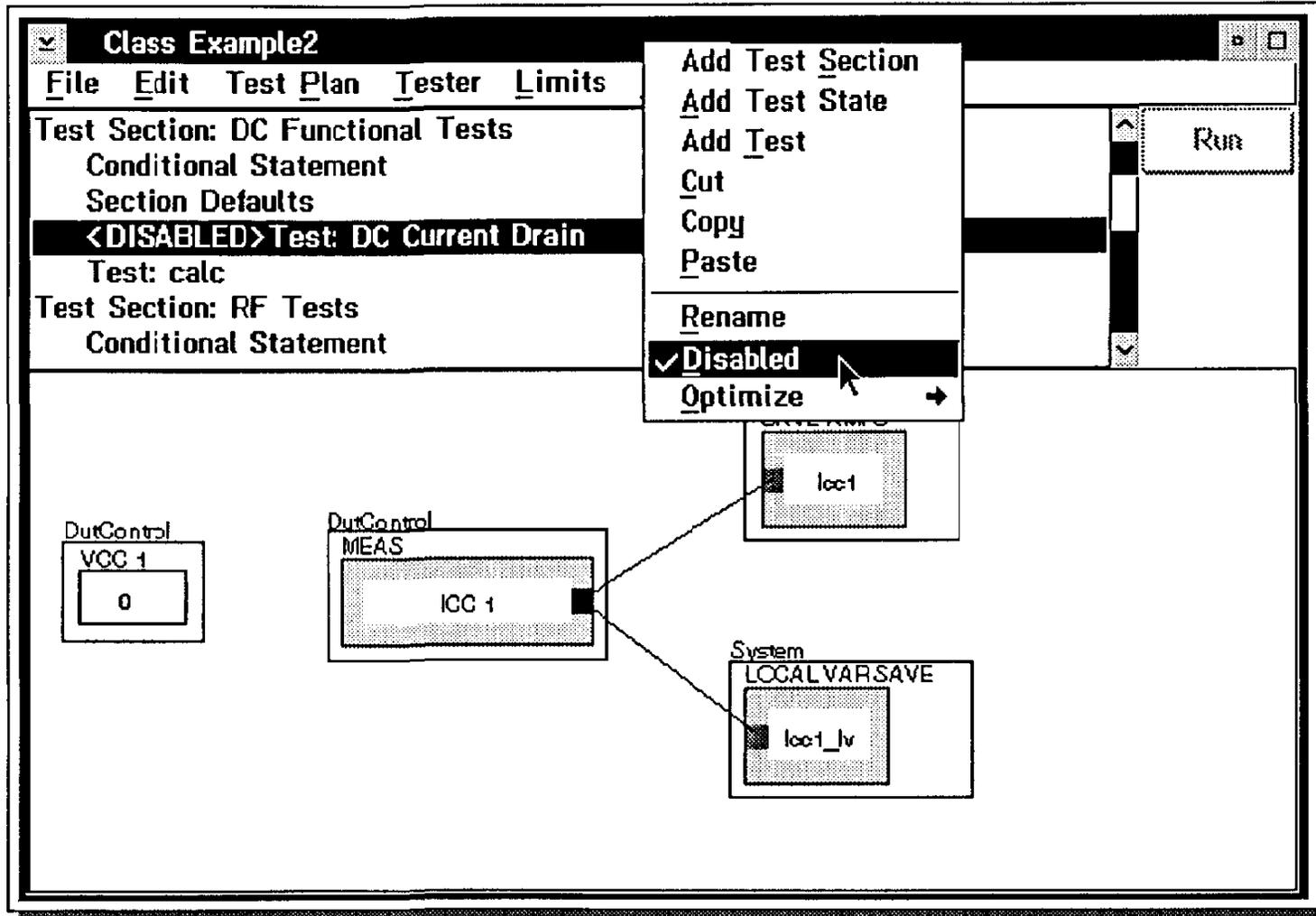
Test Plan Listing



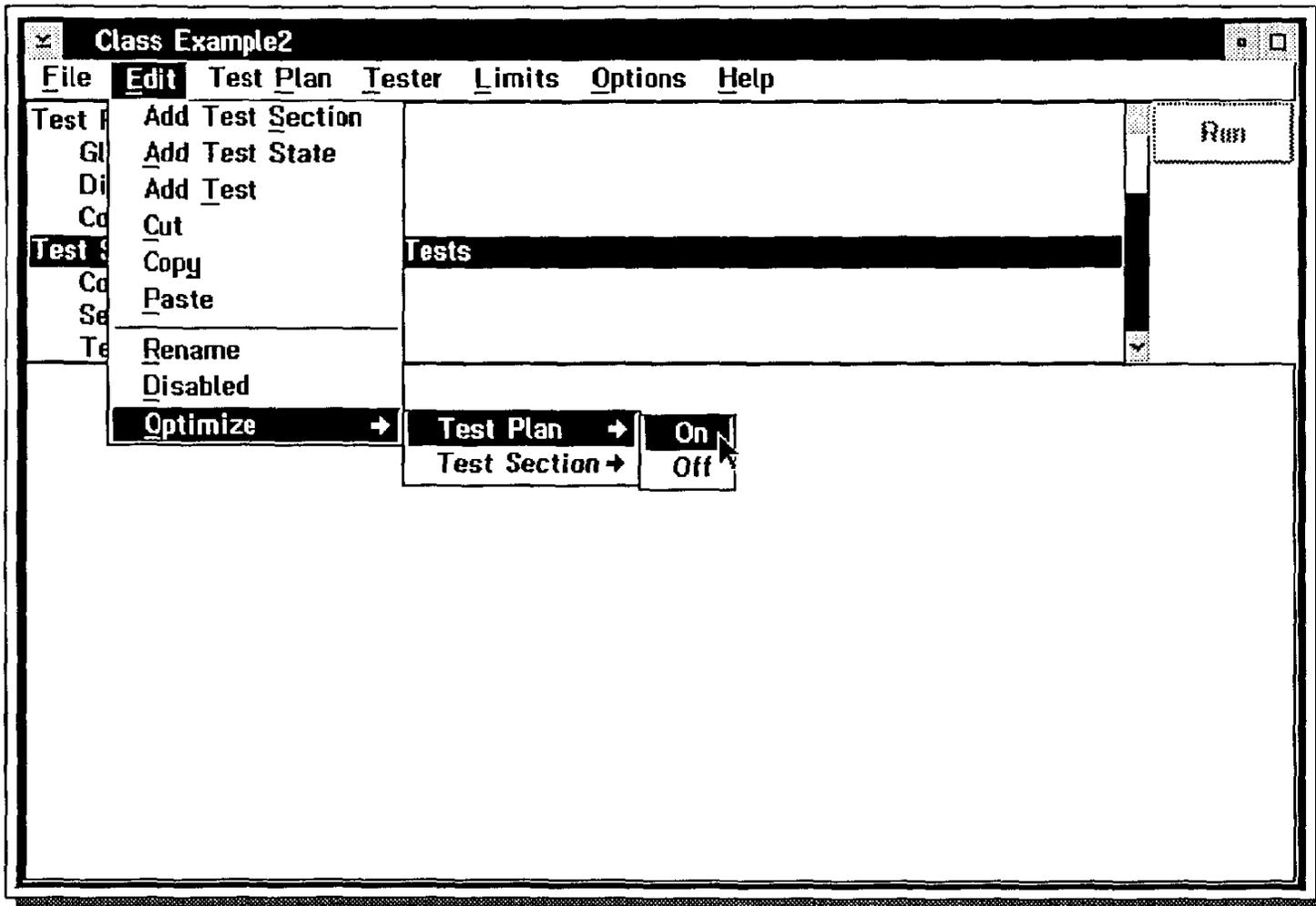
Adding a Test State Panel to the Test Plan



Enabling or Disabling a Test Panel or Test Section



Enable or Disable the Test Plan Optimization in a Test Section or the Entire Test Plan



Releasing a Limits File

The screenshot shows a software window titled "Class Example2 on Active System (RoosA) < limits: Production Rev.C >". The menu bar includes File, Edit, Test Plan, Tester, Limits, Options, and Help. The "Limits" menu is open, showing options: None, New, Select..., Release (highlighted with a mouse cursor), Copy..., Delete..., and Display Results. The main window area displays a test configuration diagram with the following components:

- Source**: A box containing "FREQUENCY" with sub-fields: START (1000), STOP (2000), and POINTS (5).
- qcm**: A box containing "START" (-15 dbm), "STOP" (0 dbm), and "STEPS" (31).
- COMPRESSION**: A box containing "1 db".
- MEAS**: A box containing "Compression".
- System**: A box containing "SAVE FORMAT" with a sub-field "P1dB".

A line connects the "MEAS" box to the "P1dB" field in the "System" box.

Displaying the Test Results vs Test Limits

The screenshot shows a software window titled "Class Example2 on Active System (RoosA) < limits: Production Rev.C >". The menu bar includes "File", "Edit", "Test Plan", "Tester", "Limits", "Options", and "Help". The "Limits" menu is open, showing options: "None", "New", "Select...", "Release", "Copy...", "Delete...", and "Display Results" (highlighted by a mouse cursor). The main window displays a block diagram with the following components:

- Source**: A block containing "FREQUENCY" with sub-fields "START" (1000), "STOP" (2000), and "POINTS" (5).
- gcm**: A block containing "START" (-15 dbm), "STOP" (0 dbm), and "STEPS" (31).
- COMPRESSION**: A block containing "1 db".
- MEAS**: A block containing "Compression" (highlighted with a thick border).
- System**: A block containing "SAVE FORMAT" and "P1dB".

A dashed line connects the "MEAS" block to the "P1dB" block in the "System" block.

Test Results vs Test Limits



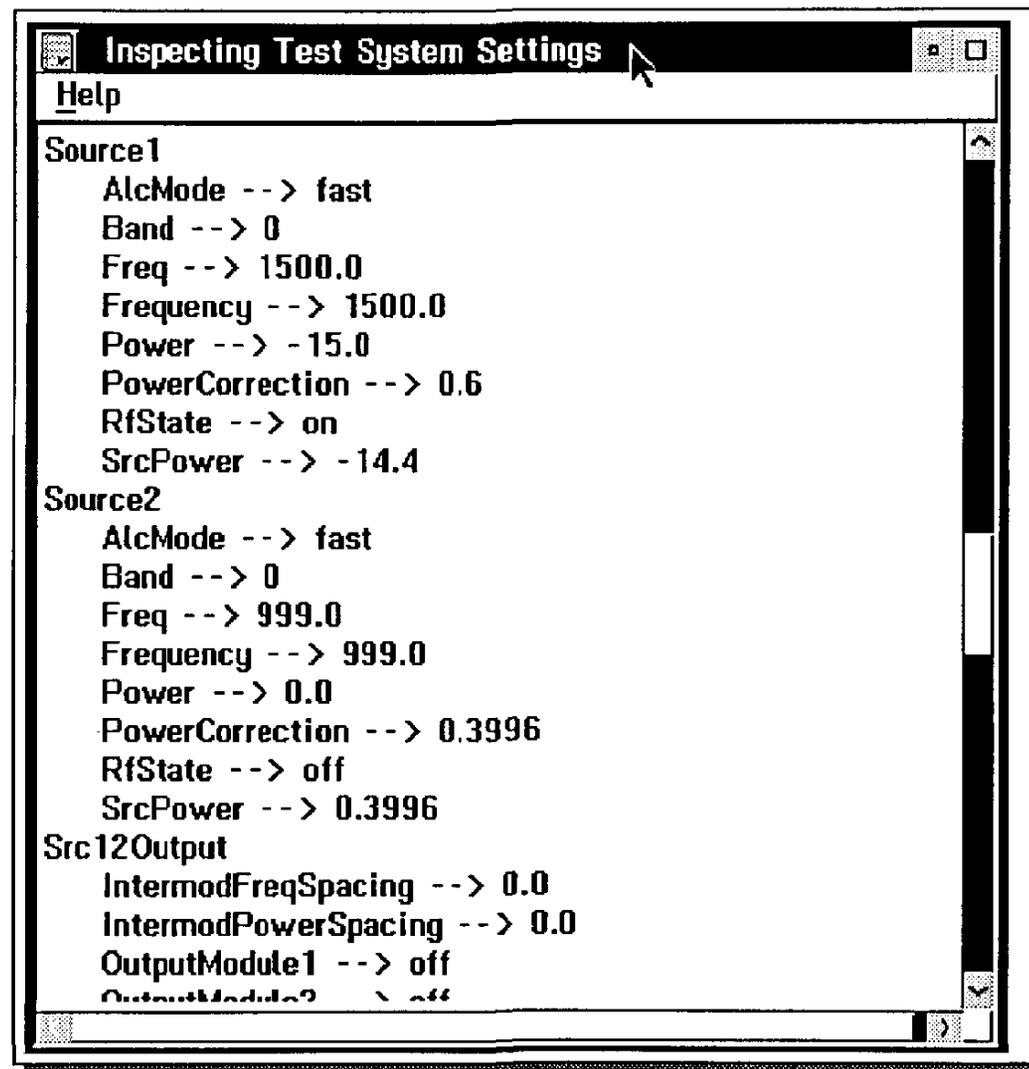
Test	Result	Data
icc1	- No Limits -	1.28255380
Gain	Fail	-3.92605428; 2.22233995; 1.09951057; -1.
Gain Sigma	- No Limits -	0.0; 0.0; 0.0; 0.0; 0.0; 0.0; 0.0; 0.0; 0.0; 0.
NF	- No Limits -	20.0; 20.0; 20.0; 20.0; 20.0; 20.0
P1dB	- No Limits -	1.00105313; 1.03584652; 1.05475982; 1.02;
S_Par	- No Limits -	0.0; 0.0; 0.0; 0.0; 0.0; 0.0; 0.0; 0.0; 0.0; 0.

Display the Test Plan's Compiled Settings

The screenshot shows a software window titled "Class Example2" with a menu bar containing "File", "Edit", "Test Plan", "Tester", "Limits", "Options", and "Help". The "Options" menu is open, and "Display Compiled Settings" is highlighted. Other menu items include "Time Runs", "Clear Correlation Factors", "Display Delta Settings", "Extract Symbol Table", "Set Breakpoint", and "Remove Breakpoint". A "Run" button is visible in the top right corner.

The main area of the window displays a test plan configuration for "gainCompression". It includes a "Source1" block with "FREQUENCY" settings (START: 1500, STOP: 2000, POINTS: 3) and a "gainCompression" block with "gainCompression" settings (START: -15 dbm, STOP: 0 dbm, POINTS: 31). A "MEAS" block is labeled "Compression" and is connected to a "System" block labeled "SAVE DBM" with a value of "P1dB". A "COMPRESSION" block is also shown with a value of "1 db".

Inspecting the Compiled Settings



Display the Change in the Tester Settings for each Measurement

The screenshot shows a software window titled "Class Example2" with a menu bar containing "File", "Edit", "Test Plan", "Tester", "Limits", "Options", and "Help". The "Options" menu is open, showing the following items: "Time Runs", "Clear Correlation Factors", "Display Compiled Settings", "Display Delta Settings" (highlighted by a mouse cursor), "Extract Symbol Table", "Set Breakpoint", and "Remove Breakpoint".

The main window area displays test settings for two sections:

- Source1**:
 - FREQUENCY: START 1500, STOP 2000, POINTS 3
- gainCompression**:
 - gainCompression: START -15 dbm, STOP 0 dbm, POINTS 31
 - COMPRESSION: 1 db
 - MEAS: Compression

A "System" dialog box is open, showing "SAVE DBM" and "P1dB". A line connects the "Compression" measurement box to the "P1dB" value in the "System" dialog.

A "Run" button is visible in the top right corner of the window.

Inspecting the Setting Changes for each Measurement

Delta Settings for TestPlan: Class Example2

Test Plan Settings

- Disconnect Settings
- Section: DC Functional Tests
 - 1. DC Current Drain (Icc1)
- Section: RF Tests
 - 1. 2 Port S Parameters (TwoPort)
 - 2. 2 Port S Parameters (TwoPort)
 - 3. 2 Port S Parameters (TwoPort)
 - 4. 2 Port S Parameters (TwoPort)
 - 5. 2 Port S Parameters (TwoPort)
 - 6. Gain Compression (P1dB) (Falk)**
 - 7. 2 Port S Parameters (TwoPort)
 - 8. Noise Figure (Rms)
 - 9. Noise Figure (Rms)
 - 10. RF Gain (TwoPortAdjAvg)
 - 11. RF Gain (TwoPortAdjAvg)
 - 12. RF Gain (TwoPortAdjAvg)
 - 13. RF Gain (TwoPortAdjAvg)
 - 14. 2 Port S Parameters (TwoPort)
 - 15. Noise Figure (Rms)
 - 16. Noise Figure (Rms)
 - 17. RF Gain (TwoPortAdjAvg)
 - 18. RF Gain (TwoPortAdjAvg)
 - 19. RF Gain (TwoPortAdjAvg)
 - 20. RF Gain (TwoPortAdjAvg)
 - 21. 2 Port S Parameters (TwoPort)
 - 22. Noise Figure (Rms)
 - 23. Noise Figure (Rms)
 - 24. RF Gain (TwoPortAdjAvg)
 - 25. RF Gain (TwoPortAdjAvg)

gainCompression

- Start --> -15.0
- Steps --> 31

Receiver

- Frequency --> 1500.0

ReceiverLo

- Freq --> 1521.4
- Frequency --> 1521.4

Source1

- Freq --> 1500.0
- Frequency --> 1500.0
- Power --> -15.0
- PowerCorrection --> 0.6
- SrcPower --> -14.4

Testhead

- SwitchReg --> RiBitArray[B8 F0 2F 0 D 2 88 0 80 14 0 20 0]

Setting a Break Point

The screenshot shows a software window titled "Class Example2 on Active System (RoosA)". The menu bar includes File, Edit, Test Plan, Tester, Limits, Options, and Help. The "Options" menu is open, showing "Optimizer On" (checked), "Time Runs", "Clear Correlation Factors", "Display Compiled Settings", "Set Breakpoint" (highlighted by a mouse cursor), and "Remove Breakpoint".

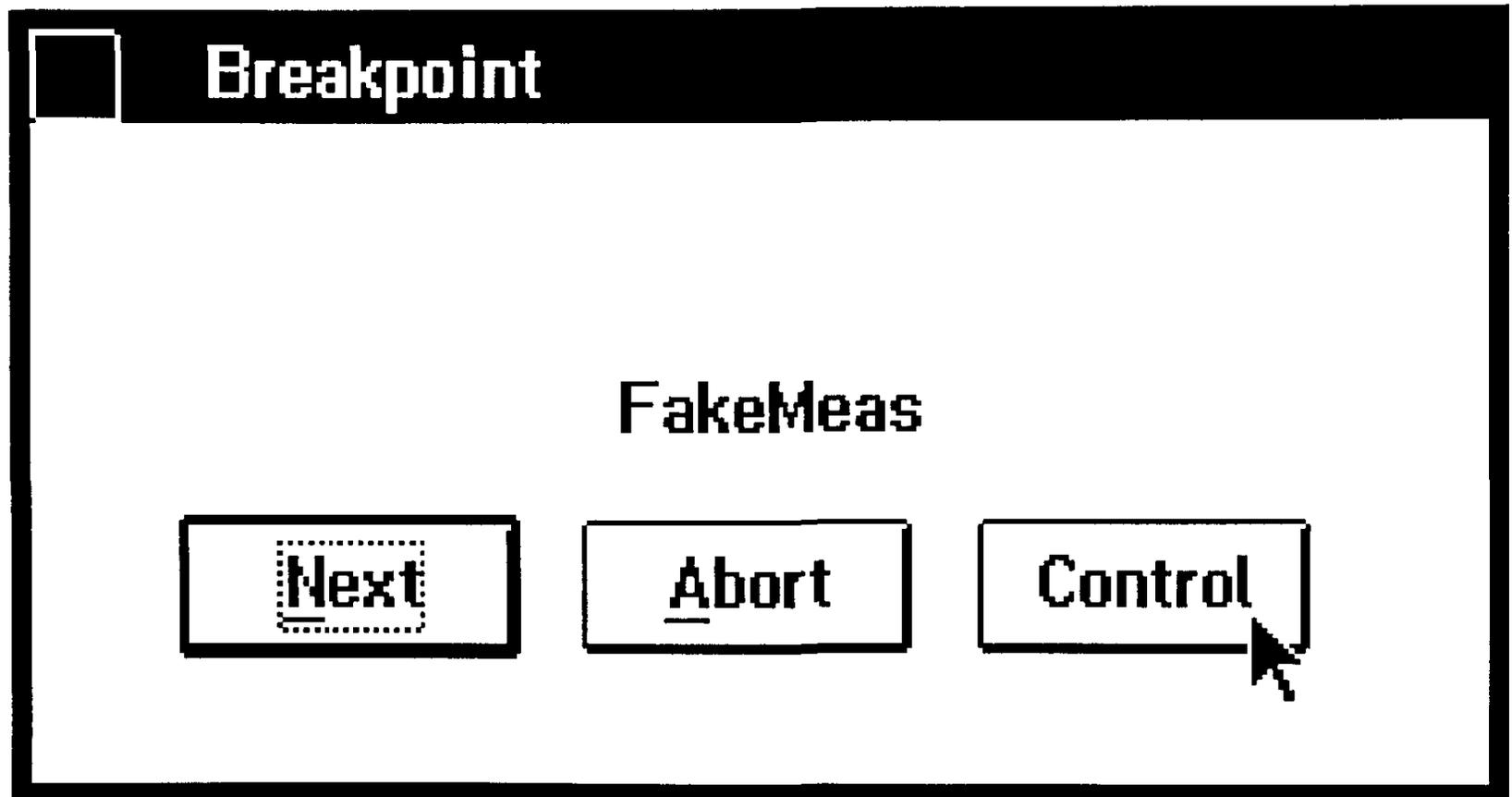
The main area of the window displays a test plan configuration for "Test: Gain Compression (P1dB)". It includes the following sections:

- Source:** FREQUENCY START: 1000, STOP: 2000, POINTS: 5
- gcm:** START: -15 dbm, STOP: 0 dbm, STEPS: 31
- COMPRESSION:** 1 db
- MEAS:** Compression
- System:** SAVE FORMAT: P1dB

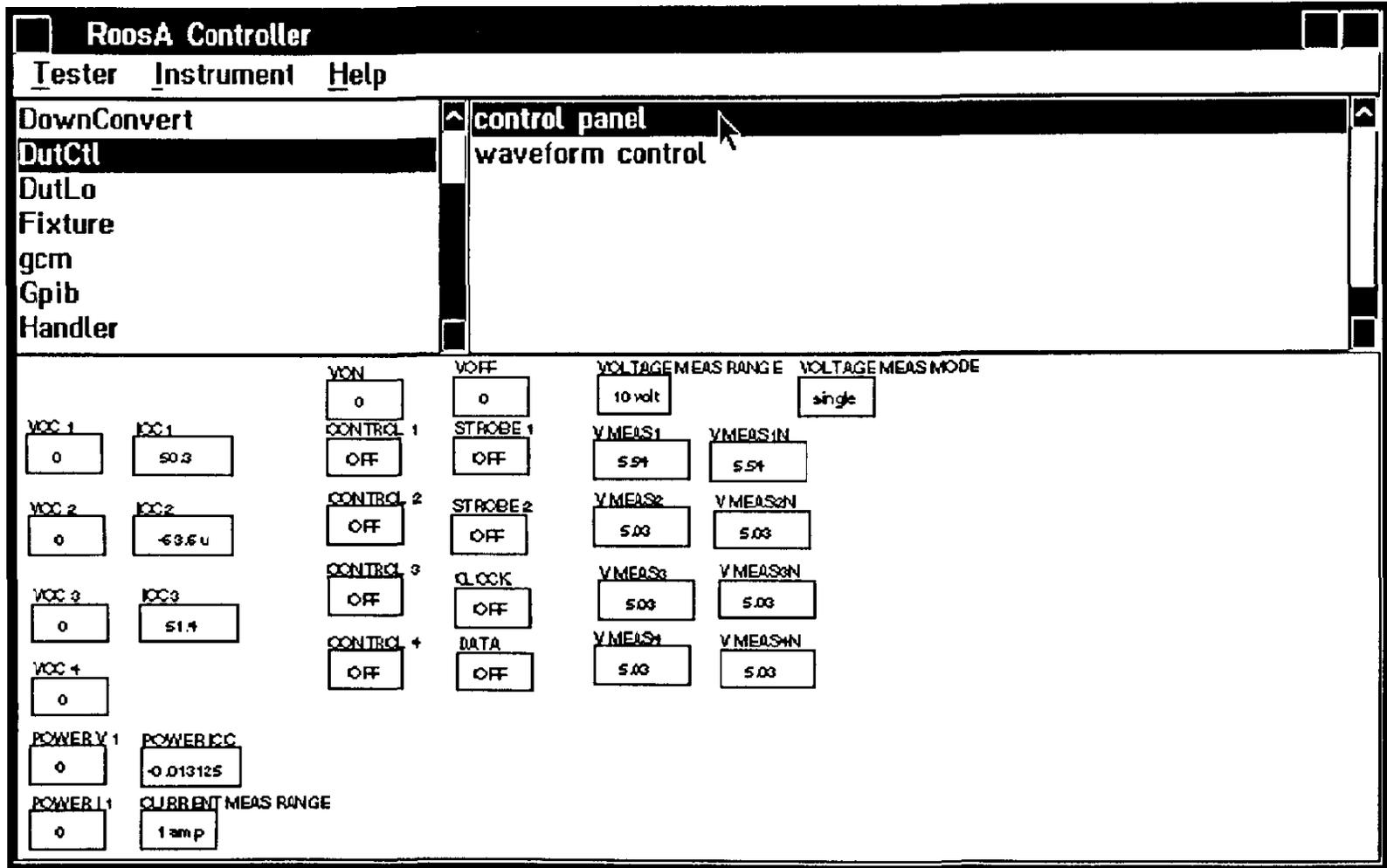
A line connects the "Compression" measurement in the MEAS section to the "P1dB" save format in the System section.

Break Point - Looking at Control Panels

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Manual Control of the DUT Controller



Programmable DUT Controller - New Buttons



New Improved DUT Controller

Easier To Use and See



Roos Instruments

DutControl	voltage control
gainCompression	device power
Gpib	hi current power supplies
HiSpeedDigital	calibration
intermod	current control
noiseFigure	misc control
Oscilloscope	vcc5,6 control
Receiver	
ReceiverLo	
Rifl	
Source1	
Source2	

POWER V 1

0

POWER I 1

0

POWER V 2

0

POWER I 2

0

POWER V 3

0

POWER I 3

0

CURRENT MEAS MAX

1

IMEASURE

Vcc1

CURRENT MEAS

4.9998

DutControl	voltage control
gainCompression	device power
Gpib	hi current power supplies
HiSpeedDigital	calibration
Intermod	current control
noiseFigure	misc control
Oscilloscope	vcc5,6 control
Receiver	
ReceiverLo	
Rift	
Source1	
Source2	

VCC 1 0	CURRENT MEAS MAX 1	VOLTAGE MEAS MAX 10
VCC 2 0	IMEASURE Vcc1	VOLTAGE MEAS MODE single
	CURRENT MEAS 4.9998	VMEASURE Vm 1
		VOLTAGE MEAS -0.27692

- DutControl
- gainCompression
- Gpib
- HiSpeedDigital
- Intermod
- noiseFigure
- Oscilloscope
- Receiver
- ReceiverLo
- Rift
- Source1
- Source2

- voltage control
- device power
- hi current power supplies
- calibration
- current control
- misc control
- vcc5,6 control

DEVICE POWER 1 open	DEVICE POWER 5 open	VCC 3 0
DEVICE POWER 2 open	DEVICE POWER 6 open	VCC 4 0
DEVICE POWER 3 open	DEVICE POWER 7 open	CURRENT MEAS MAX 1 IMEASURE Vcc1 CURRENT MEAS 0.051755
DEVICE POWER 4 open	DEVICE POWER 8 open	

Pugsley Controller

Tester Instrument Measurements Help

DutControl	voltage control
gainCompression	device power
GpiB	hi current power supplies
HiSpeedDigital	calibration
Intermod	current control
noiseFigure	misc control
Oscilloscope	vcc5,6 control
Receiver	
ReceiverLo	
Rift	
Source1	
Source2	

VCC 1 MODE

voltage

ICC 1

0

VCC 2 MODE

voltage

ICC 2

0

VCC 3 MODE

voltage

ICC 3

0

VCC 4 MODE

voltage

ICC 4

0

CURRENT MEAS MAX

1

IMEASURE

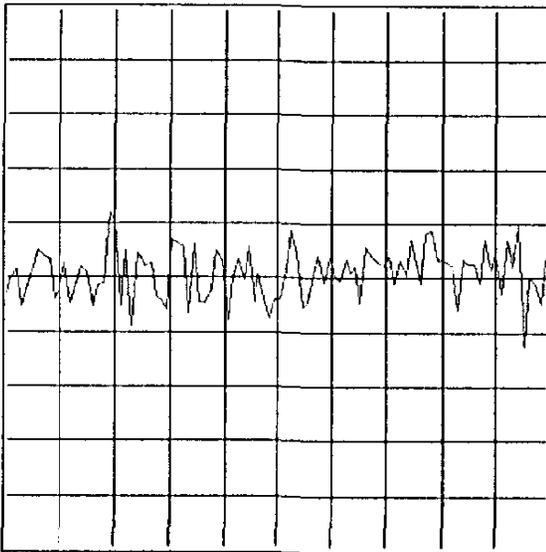
Vcc1

CURRENT MEAS

-0.0091347

- DutControl
- gainCompression
- Gplb
- HiSpeedDigital
- Intermod
- noiseFigure
- Oscilloscope**
- Receiver
- ReceiverLo
- Rifl
- Source1
- Source2

- control**
- channel2 meas
- channel1 meas

WF 5 GAIN 1	MAX VOLTAGE 0.4	MEASURE BOTH push	C1 DFT push	C2 DFT push	
WF 6 GAIN 1	WF 7 GAIN 1				
VM 7 GAIN 1	VM 8 GAIN 1				Y PARAMETER real1
CHANNEL 2 W15	CHANNEL 1 W17				Y FORMAT linear
INPUT FREQ 1 M	SAMPLES 100				/DIV 0.1
TIME PER DIV 10 u					

Pugsley Controller

Tester Instrument Measurements Help

DutControl	control
gainCompression	channel2 meas
Gpib	channel1 meas
HiSpeedDigital	
Intermod	
noiseFigure	
Oscilloscope	
Receiver	
ReceiverLo	
Rifi	
Source1	
Source2	

PEAK TO PEAK 2.6597	PERIOD 344.44 n	POSITIVE C1 TO POSITIVE C2 53.836
MAX 0.066721	RISE TIME 31.485 n	
MIN -1.2474	FALL TIME 34.85 n	
MEDIAN 0.04585	DUTY CYCLE 83.381	

Pugsley Controller
Tester Instrument Measurements Help

Intermod
noiseFigure
Oscilloscope
Receiver
ReceiverLo
Rifl
Source1
Source2
Source3
Src120output
StaticDigital
System

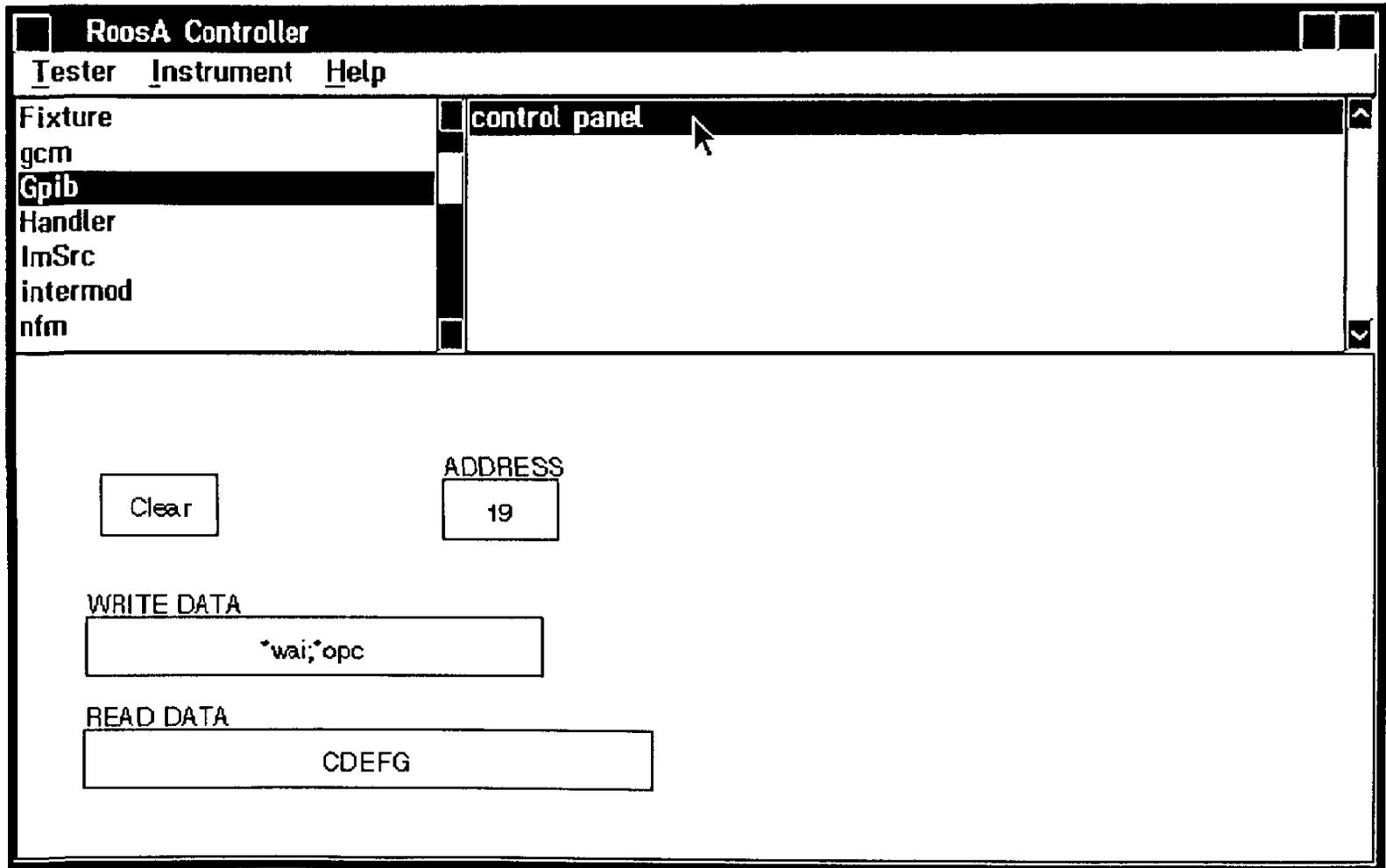
control panel

Testhead

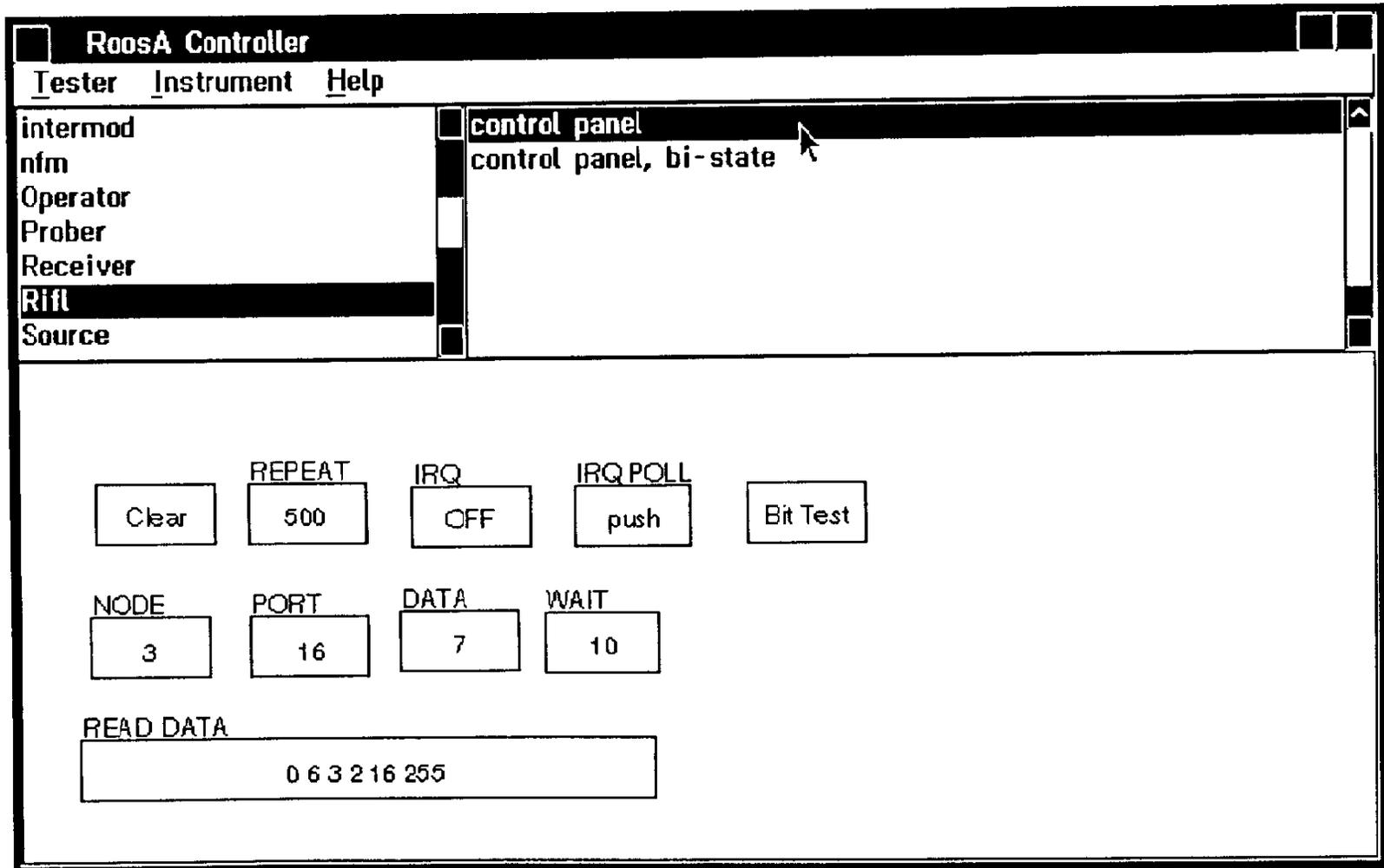
FREQUENCY 1000 Mhz	PARAMETER a1	POWER DBM -88.31
INPUT .1 - 2 (.1 - 20 input)		NOISE DBM/HZ -81.663
IF BW wide		RMS DBM -18.603
IF GAIN 0		

Sending GPIB Commands from Control Panel

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Manual Control of RIFL Interface



Removing a Break Point

The screenshot shows a software window titled "Class Example2 on Active System (RoosA)". The menu bar includes File, Edit, Test Plan, Tester, Limits, Options, and Help. The "Options" menu is open, showing the following items: Optimizer On, Time Runs, Clear Correlation Factors, Display Compiled Settings, Set Breakpoint, and Remove Breakpoint. The "Remove Breakpoint" option is highlighted by the mouse cursor.

The main workspace contains a block diagram of a test setup. On the left, a "Source" block is connected to an "gcm" block. The "Source" block has three sub-sections: "FREQUENCY" with "START" at 1000 and "STOP" at 2000, and "POINTS" at 5. The "gcm" block has "START" at -15 dbm, "STOP" at 0 dbm, and "STEPS" at 31. To the right of the "gcm" block is a "COMPRESSION" block with a value of 1 db. Below the "COMPRESSION" block is a "MEAS" block with a value of "Compression". A dashed line connects the "MEAS" block to a "System" block on the far right, which has a "SAVE FORMAT" section with a value of "P1dB".

Tester Viewer Window

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- **Buttons are Organized by Instrument and Button Type**
- **Each Instrument is listed in the Tester Viewer Window**
- **The Setting shown for each Button is its idle State**
- **Help Text is provided for each Button (FI or Show Note)**
- **Software Reference for Each Button in Section 5**
- **Buttons also Provided for DUT, Device Interface & Fixture**
- **System Buttons include: Calculations, Data Saves, Operator Prompts, Output vs. Input Freq & Flow control**



Aux SRC (Digital Modulation)

The screenshot shows the 'BTV#3IQ Editor' software window. The title bar indicates the path 'C:\RIAPPS\testsys\BTV#3IQ Editor'. The menu bar includes 'Instrument', 'Measurements', and 'Help'. A list of parameters is shown on the left, with 'state' selected. The right pane contains the following text:

Sets the ALC bandwidth and settling time. When set to slow gives better intermod rejection at the cost of settling time.

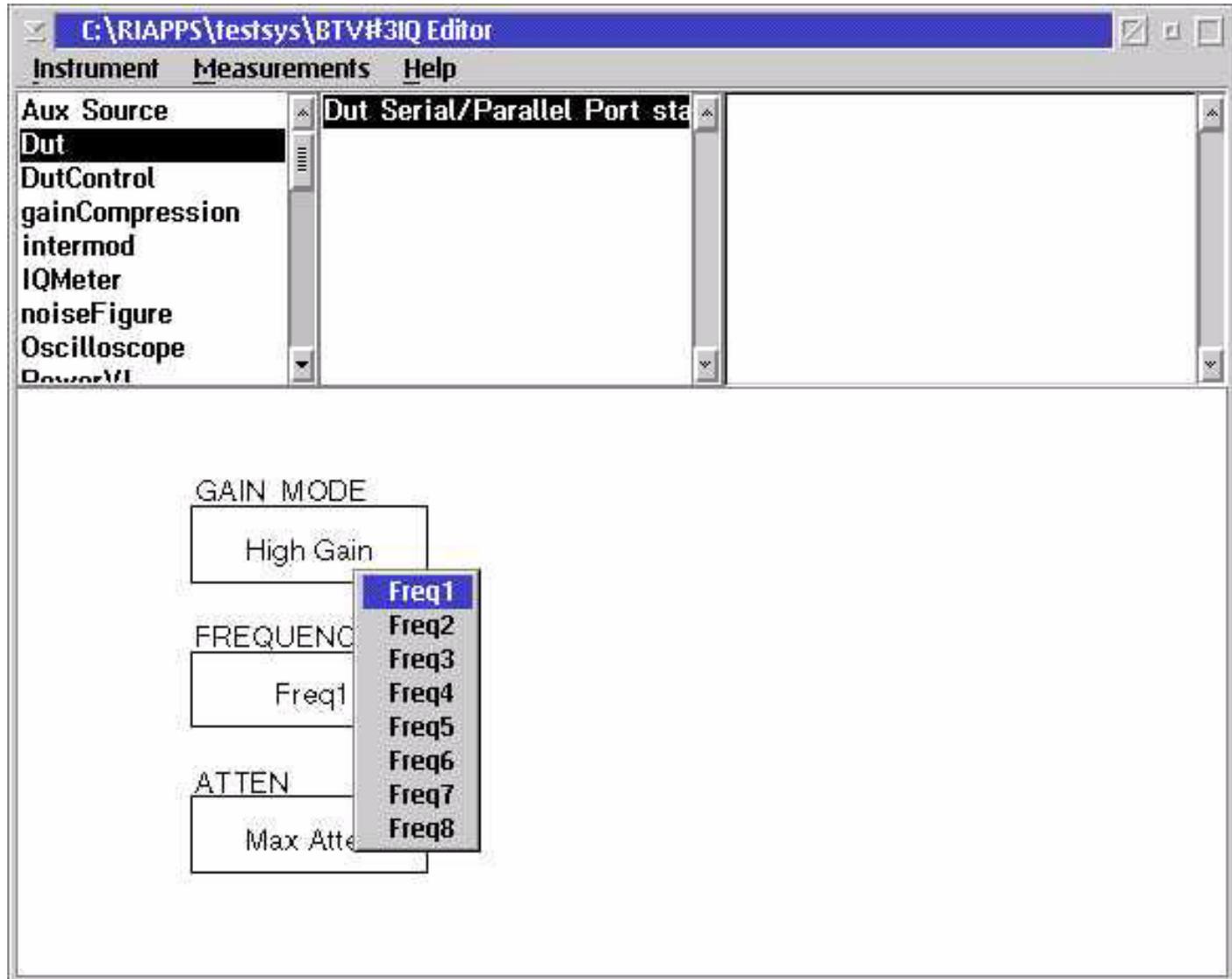
Use for intermods only. Set on both the main source and

Below the parameter list, the following settings are visible:

- FREQUENCY: 999 Mhz
- POWER: 0 dbm
- MODULATION: OFF (with a dropdown menu showing options: OFF, CDMA, NADE, PDC)

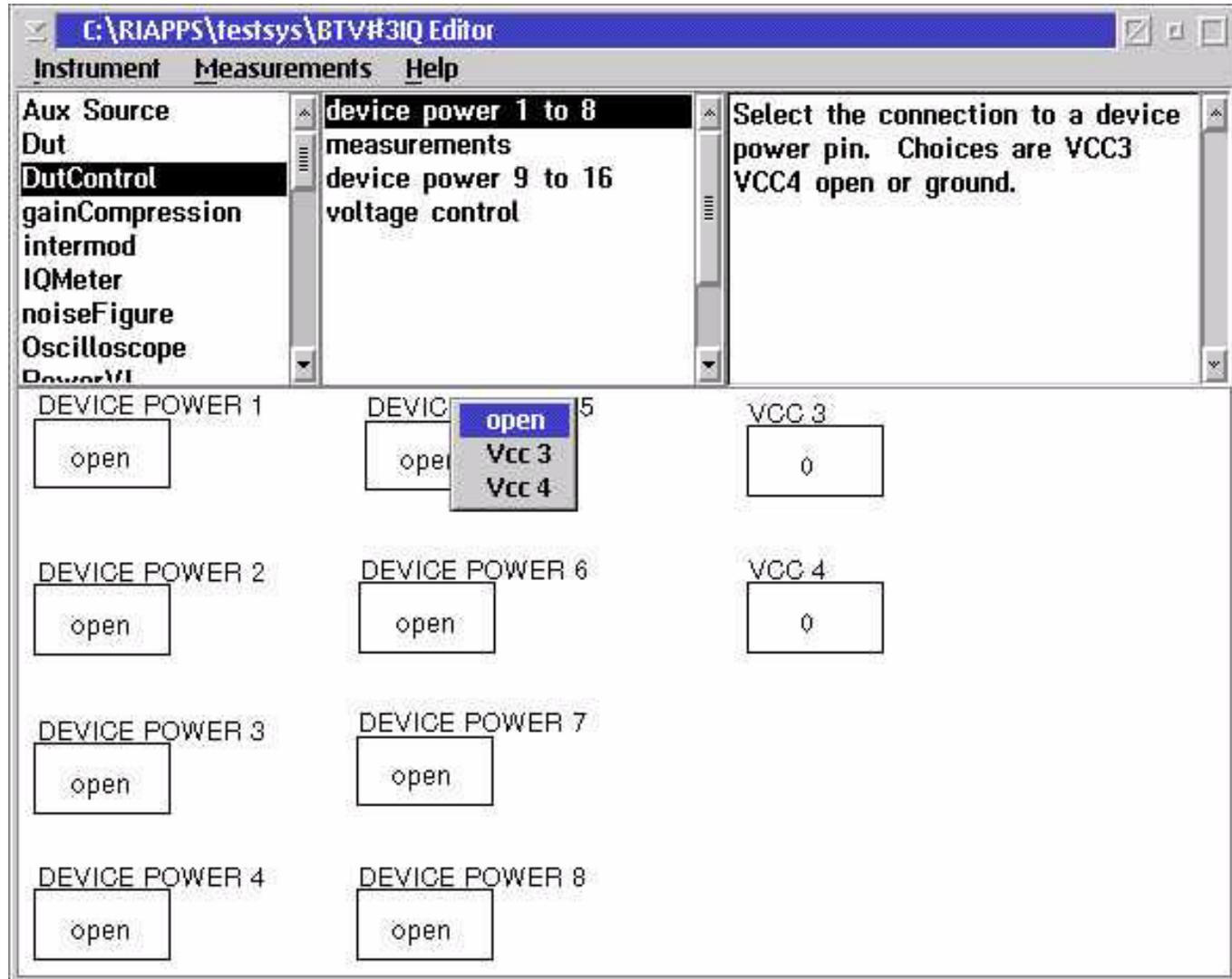


DUT





DUT Control; DP Lines





DUT Control; Measurement

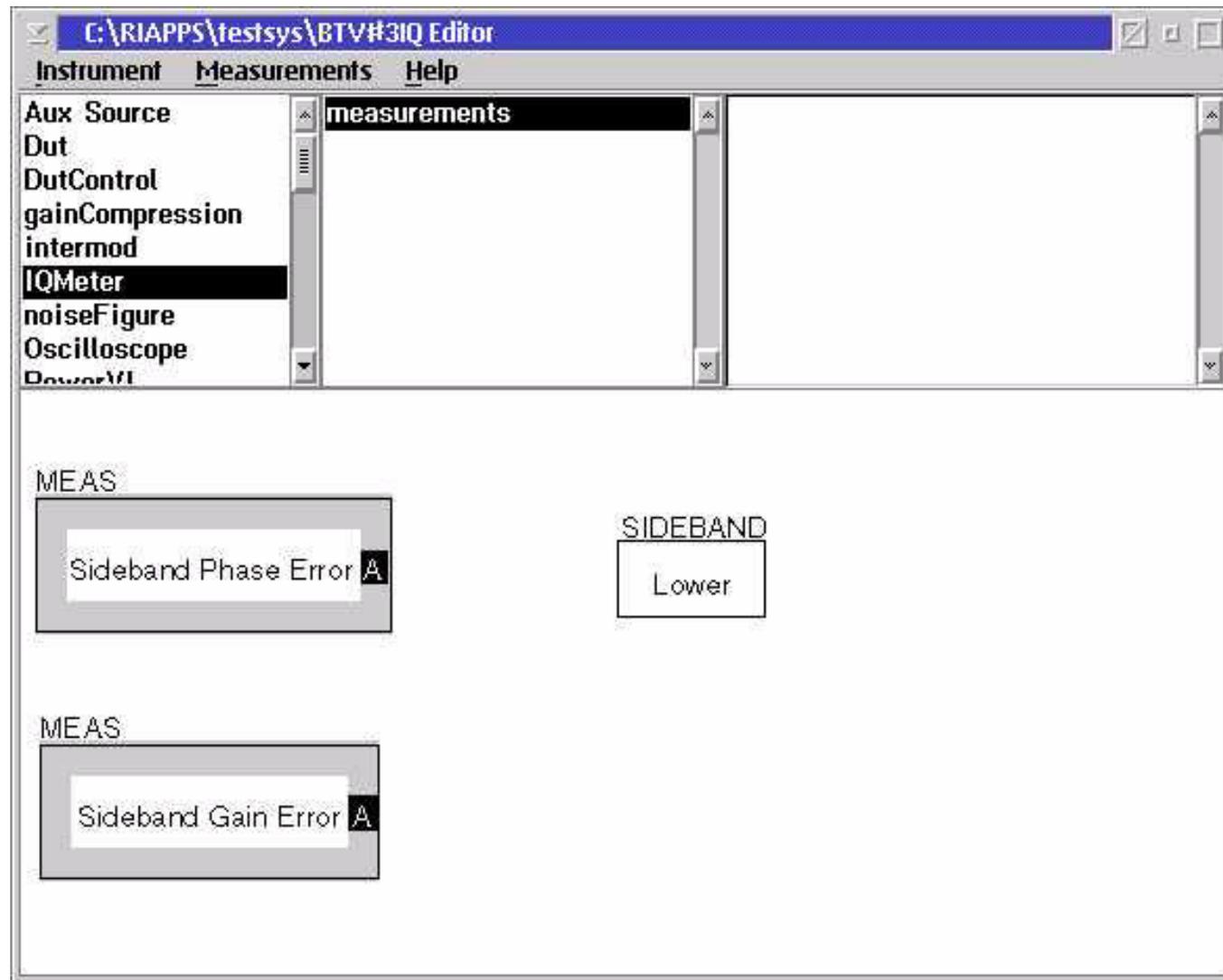
The screenshot displays the 'BTV#3IQ Editor' software interface. At the top, a menu bar includes 'Instrument', 'Measurements', and 'Help'. Below the menu bar is a tree view with two columns. The left column lists various instrument functions: 'Aux Source', 'DutControl', 'gainCompression', 'intermod', 'IQMeter', 'noiseFigure', 'Oscilloscope', 'PowerVI', and 'Receiver'. The right column lists measurement categories: 'device power 1 to 8', 'measurements', 'device power 9 to 16', and 'voltage control'. The 'DutControl' and 'measurements' items are currently selected.

The main workspace contains several measurement configuration panels:

- Voltage MEAS:** A panel with a 'Voltage' label and a unit selector set to 'A'.
- Current MEAS:** A panel with a 'Current' label and a unit selector set to 'A'.
- Voltage Vs Time MEAS:** A panel with a 'Voltage Vs Time' label and a unit selector set to 'A'.
- VOLTAGE MEAS MAX:** A numeric input field containing the value '10'.
- VOLTAGE MEAS MODE:** A dropdown menu currently set to 'single'.
- VMEASURE:** A dropdown menu currently set to 'Vm 1'.
- CURRENT MEAS MAX:** A numeric input field containing the value '1'.
- IMEAS:** A dropdown menu currently set to 'Vcc1', with a list of options including 'Vcc1', 'Vcc2', 'Vcc3', 'Vcc4', 'Vcc5', and 'Vcc6'.
- SAMPLES:** A numeric input field containing the value '21'.
- MEAS RATE:** A numeric input field containing the value '1 Hz'.

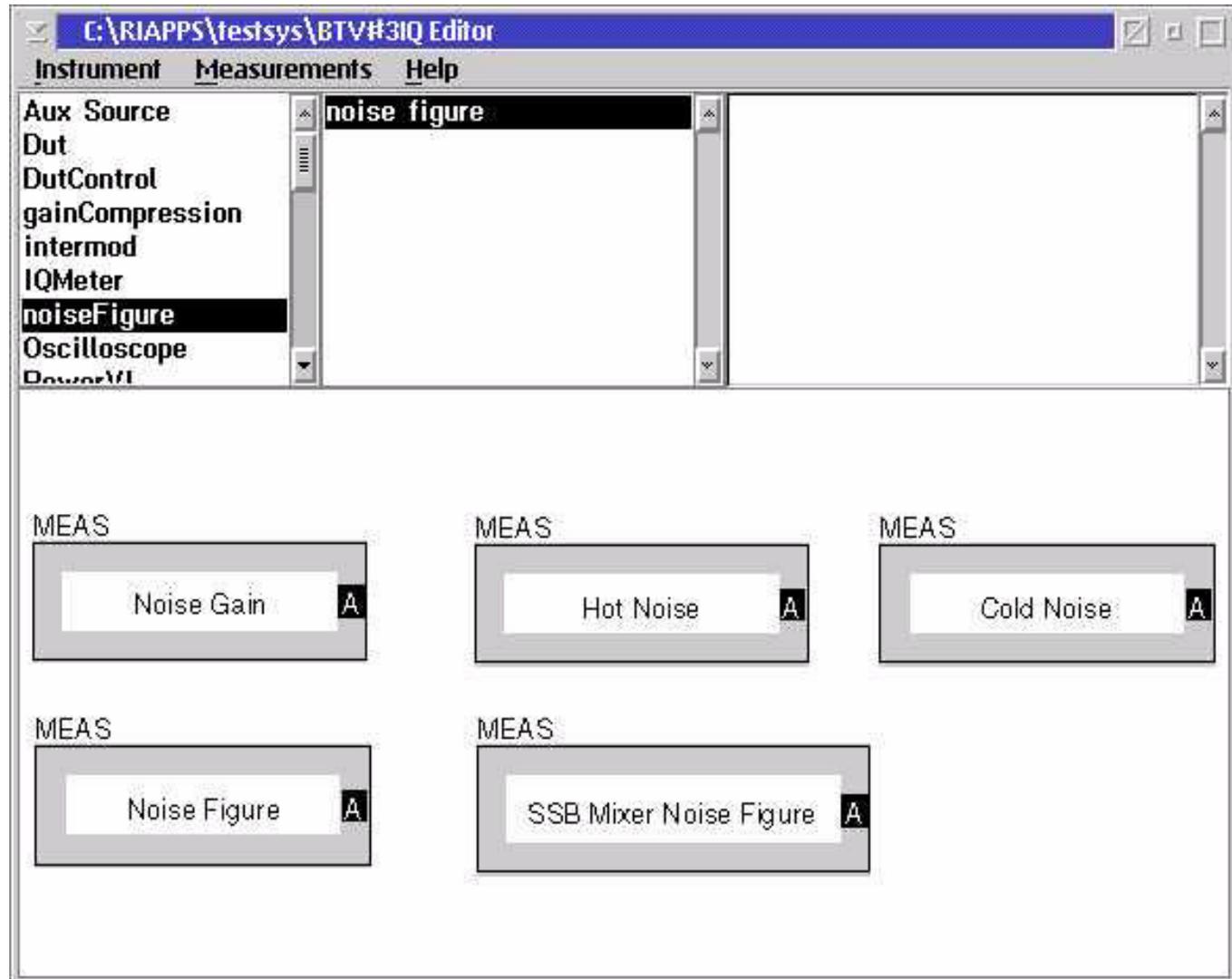


IQ Meter (SSB Modulator)





Noise Figure



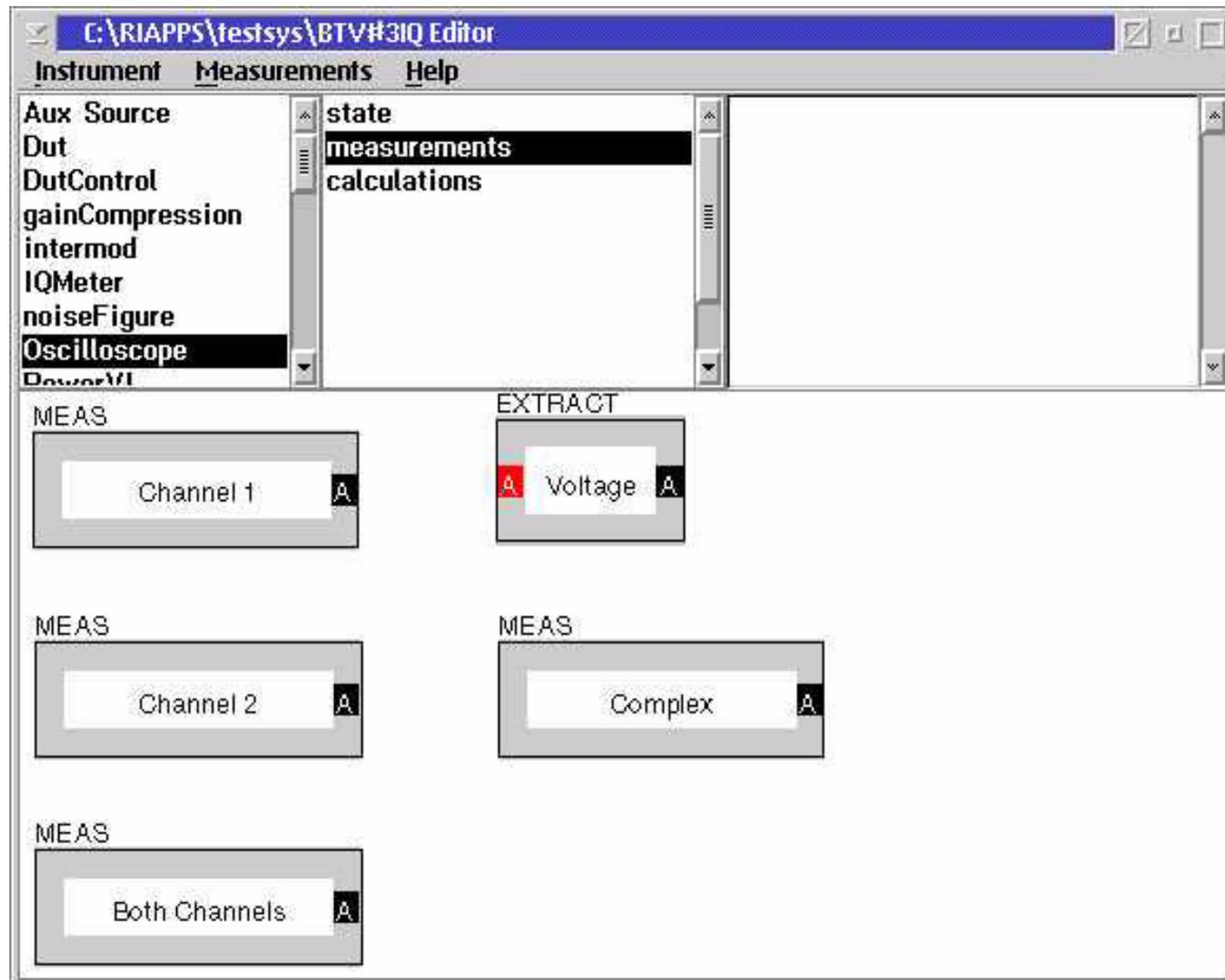


Oscilloscope; State

The screenshot shows a software window titled "C:\RIAPPS\testsys\BTV#3IQ Editor" with a menu bar containing "Instrument", "Measurements", and "Help". A list of instrument types is on the left, with "Oscilloscope" selected. The main area is divided into two panes. The top pane shows a tree view with "state" selected, containing sub-items "measurements" and "calculations". The right pane contains a text box with the following text: "Set the digitizing period in seconds / division where the full record is 10 divisions. If the number of samples is 1 then the time per division becomes the sample time. In this case it must be > 8 us." The bottom pane contains three input fields: "INPUT FREQ" with a value of "1 M", "TIME PER DIV" with a value of "10 u", and "SAMPLES" with a value of "100". A modal dialog box titled "Enter a Number" is overlaid on the "TIME PER DIV" field, with a text input containing "10 u" and "OK" and "Cancel" buttons.



Oscilloscope; Measurement





Oscilloscope; Calculations

The screenshot shows the BTV#3IQ Editor software interface. The title bar reads "C:\RIAPPS\testsys\BTV#3IQ Editor". The menu bar includes "Instrument", "Measurements", and "Help". A left-hand menu lists various instrument types: "Aux Source", "Dut", "DutControl", "gainCompression", "intermod", "IQMeter", "noiseFigure", "Oscilloscope" (which is highlighted), and "PowerM". The main window area is divided into two panes. The top pane shows a tree view with "state", "measurements", and "calculations" (the latter is selected). The bottom pane displays a grid of calculation controls for the Oscilloscope. Each control consists of a label, a text input field, and a small "A" button. The controls are arranged as follows:

- TRIGGER: 3.0
- CALC: DFT
- VALUE AT FREQ: 0.0
- CALC: Fall Time
- CALC: Fall Time Average
- CALC: Period
- CALC: Period Average
- CALC: Rise Time
- CALC: Rise Time Average
- CALC: Duty Cycle
- CALC: Duty Cycle Average



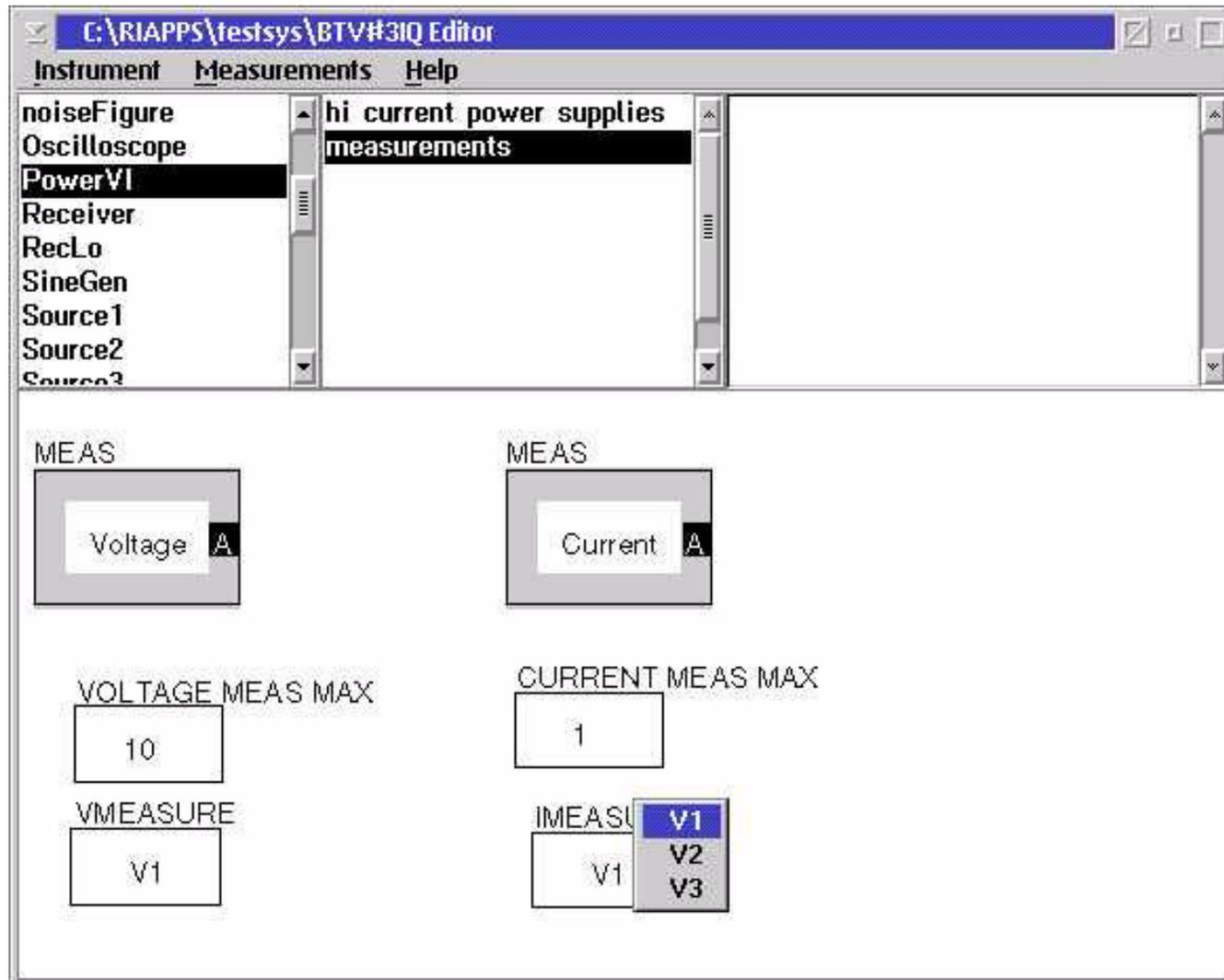
Power VI (Hi-Current Supplies)

The screenshot shows the BTV#3IQ Editor software interface. The title bar indicates the file path: C:\RIAPPS\testsys\BTV#3IQ Editor. The menu bar includes Instrument, Measurements, and Help. A tree view on the left lists various instrument modules, with Power VI selected. The main panel displays the configuration for the hi current power supplies measurements. It features a 3x3 grid of controls:

POWER V 1	POWER I 1	V 1 OUTPUT
0	0	ON
POWER V 2	POWER I 2	V 2 OUTPUT
0	0	OFF
POWER V 3	POWER I 3	V 3 OUTPUT
0	0	OFF



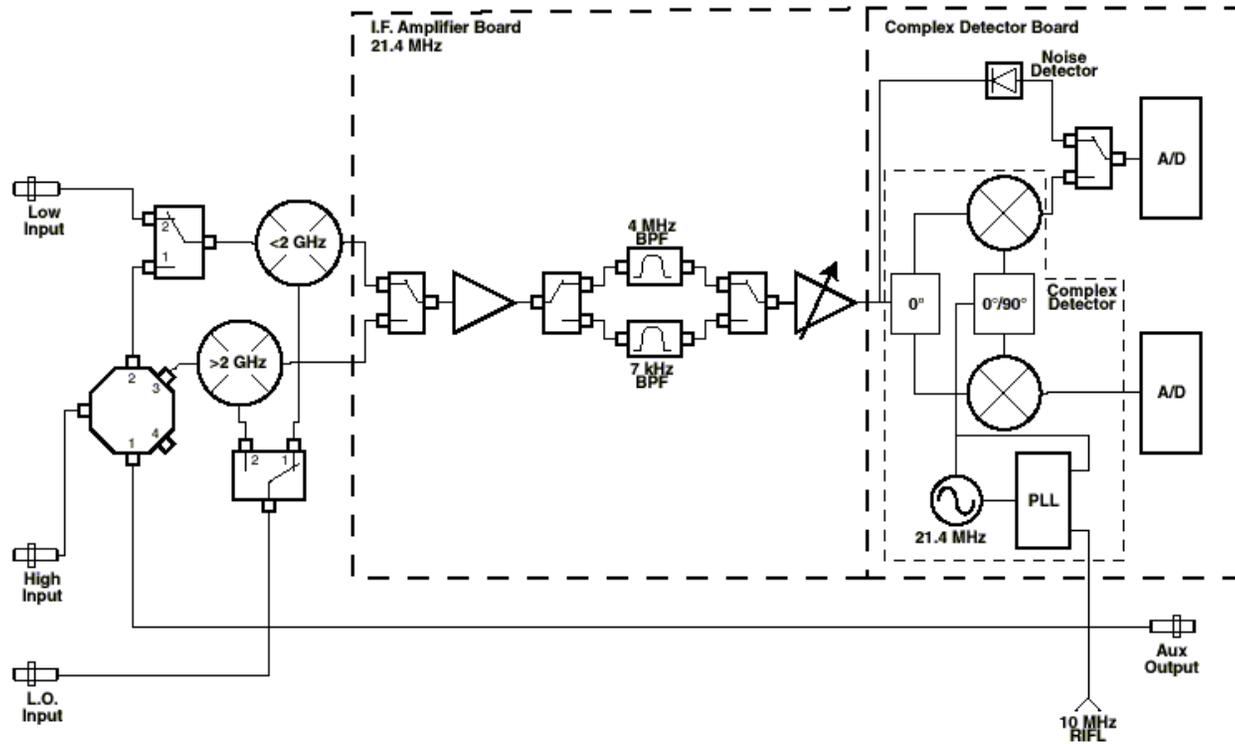
Power VI; Measurement





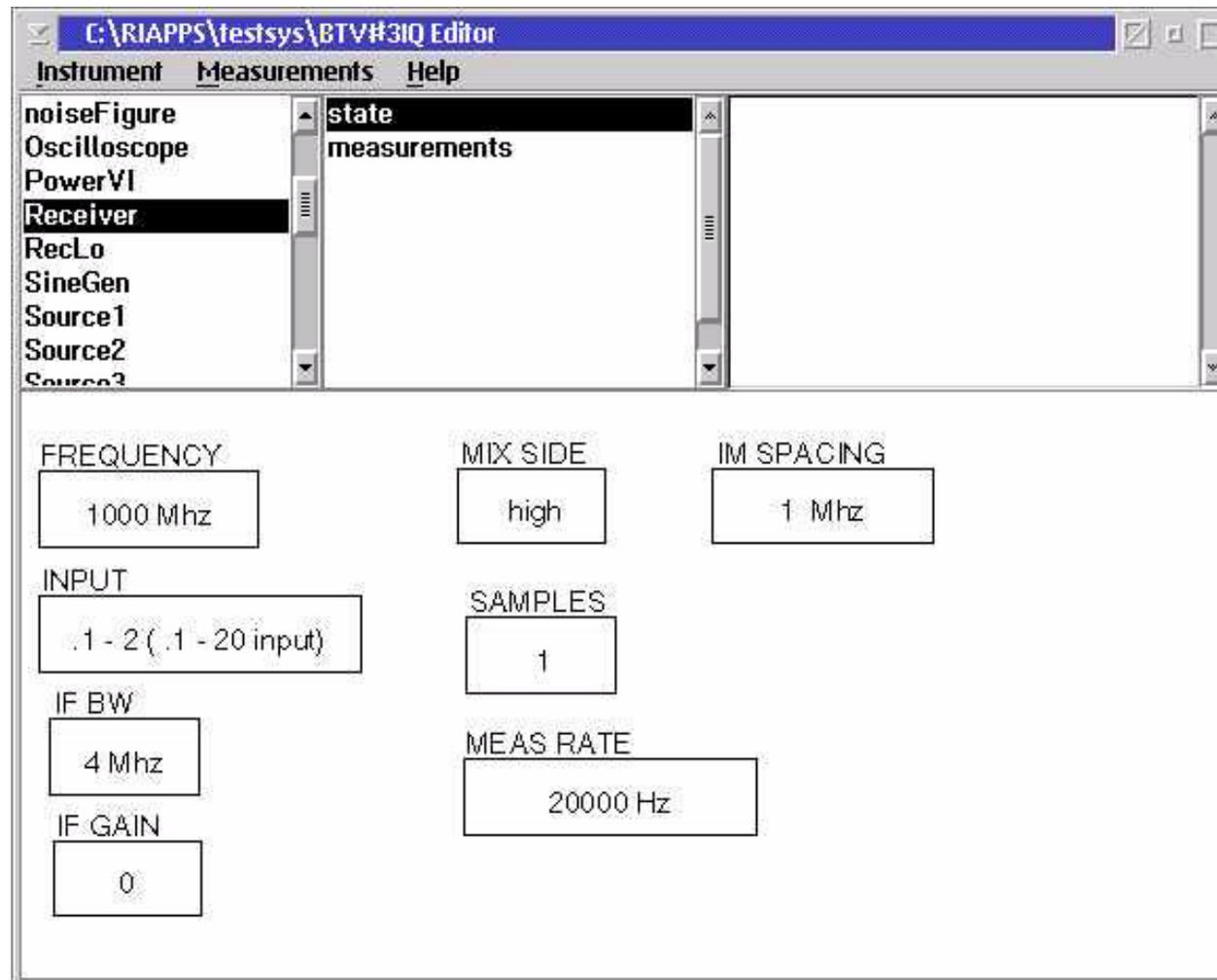
Receiver Block Diagram

Roos Instruments, Inc - RI7100A
Block Diagram, Receiver,
RI7322A
12/22/99



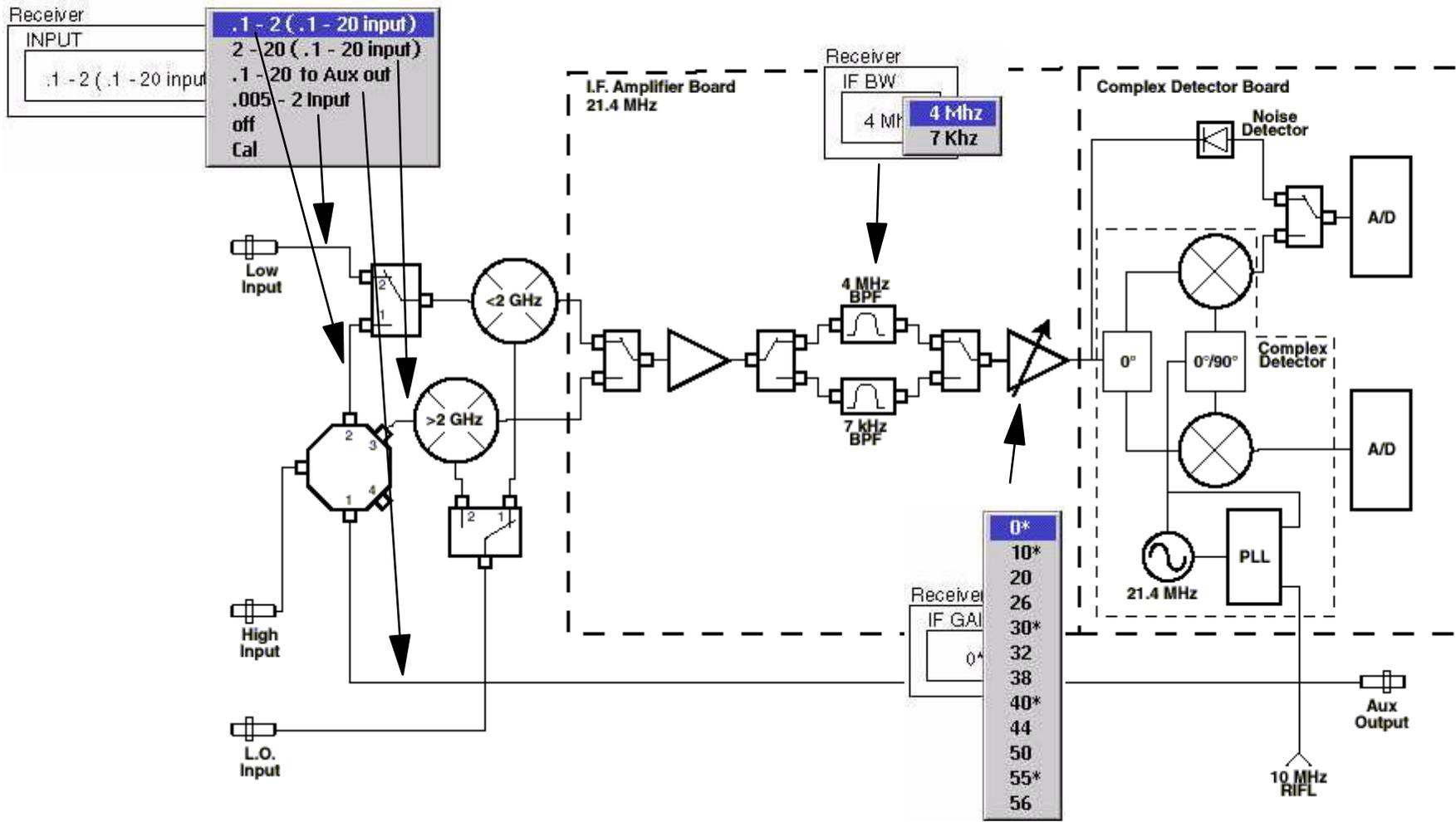


Receiver; State



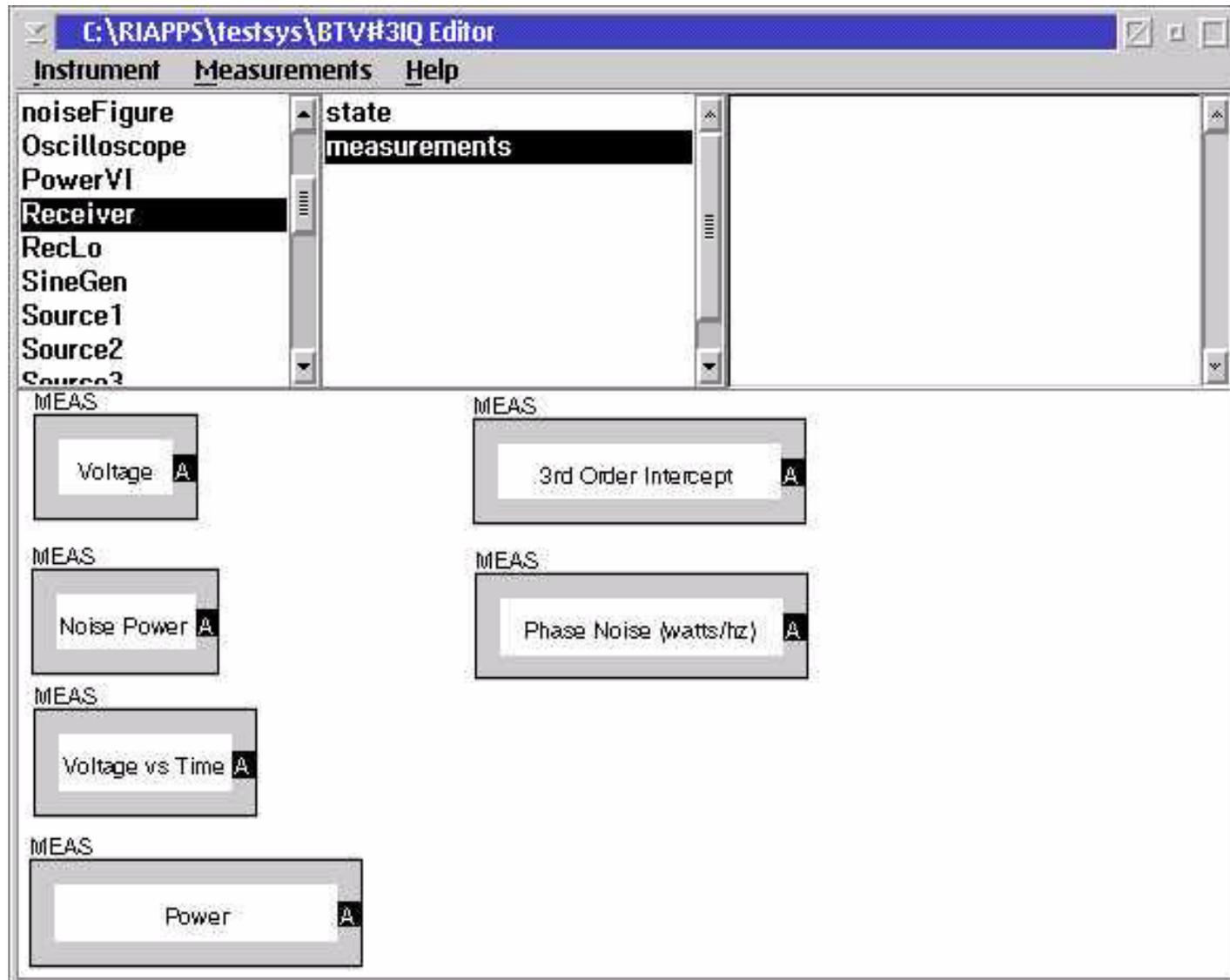


Receiver Control





Receiver; Measurement





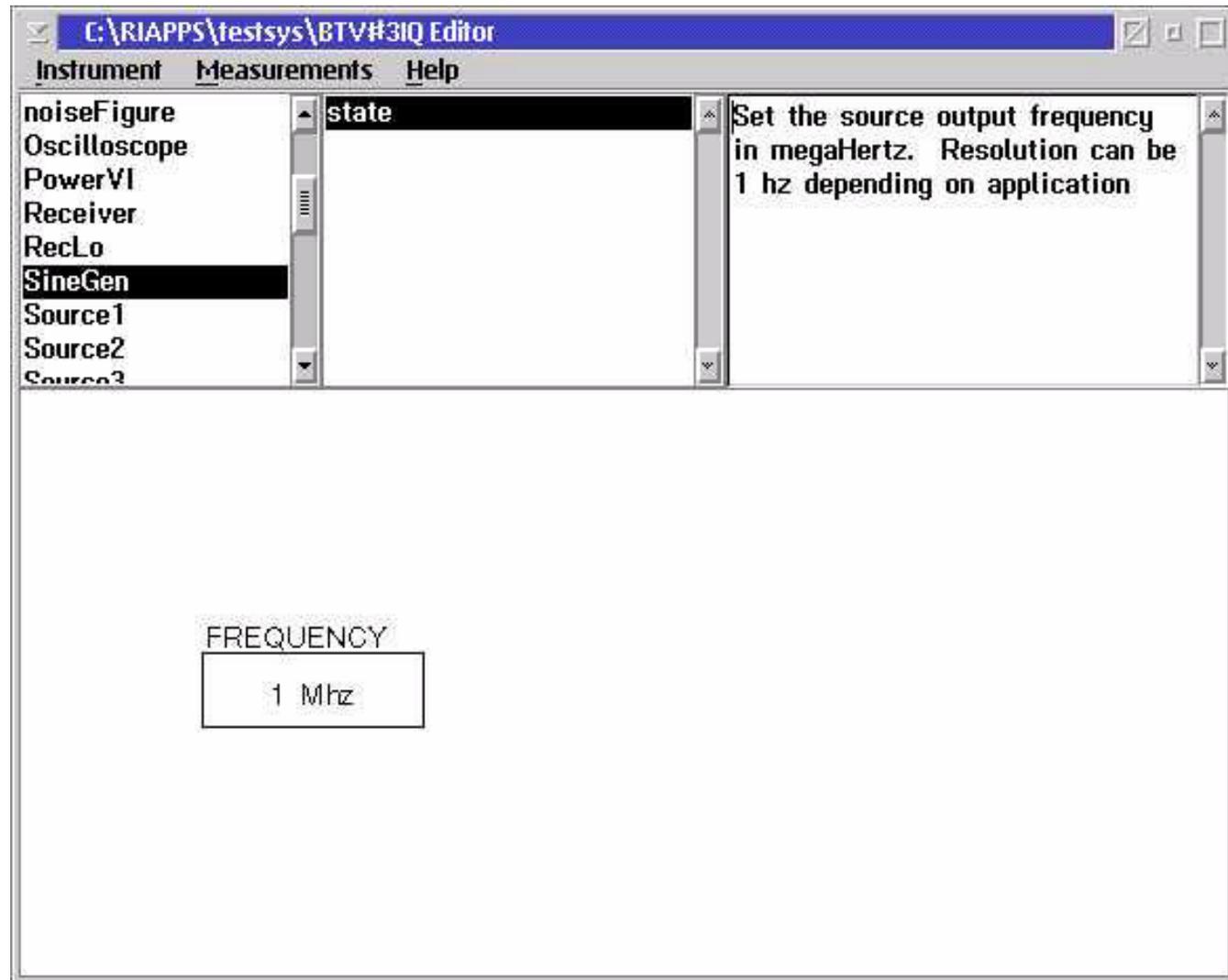
Receiver LO (System Oscillator)

The screenshot shows a software window titled "C:\RIAPPS\testsys\BTV#3IQ Editor" with a menu bar containing "Instrument", "Measurements", and "Help". On the left, a tree view lists several components: "noiseFigure", "Oscilloscope", "PowerVI", "Receiver", "RecLo", "SineGen", "Source1", "Source2", and "Source3". The "RecLo" component is selected and highlighted. The main area of the window displays three configuration parameters for the Receiver LO:

- FREQUENCY**: 1021.4 Mhz
- POWER**: 10 dbm
- RF STATE**: ON

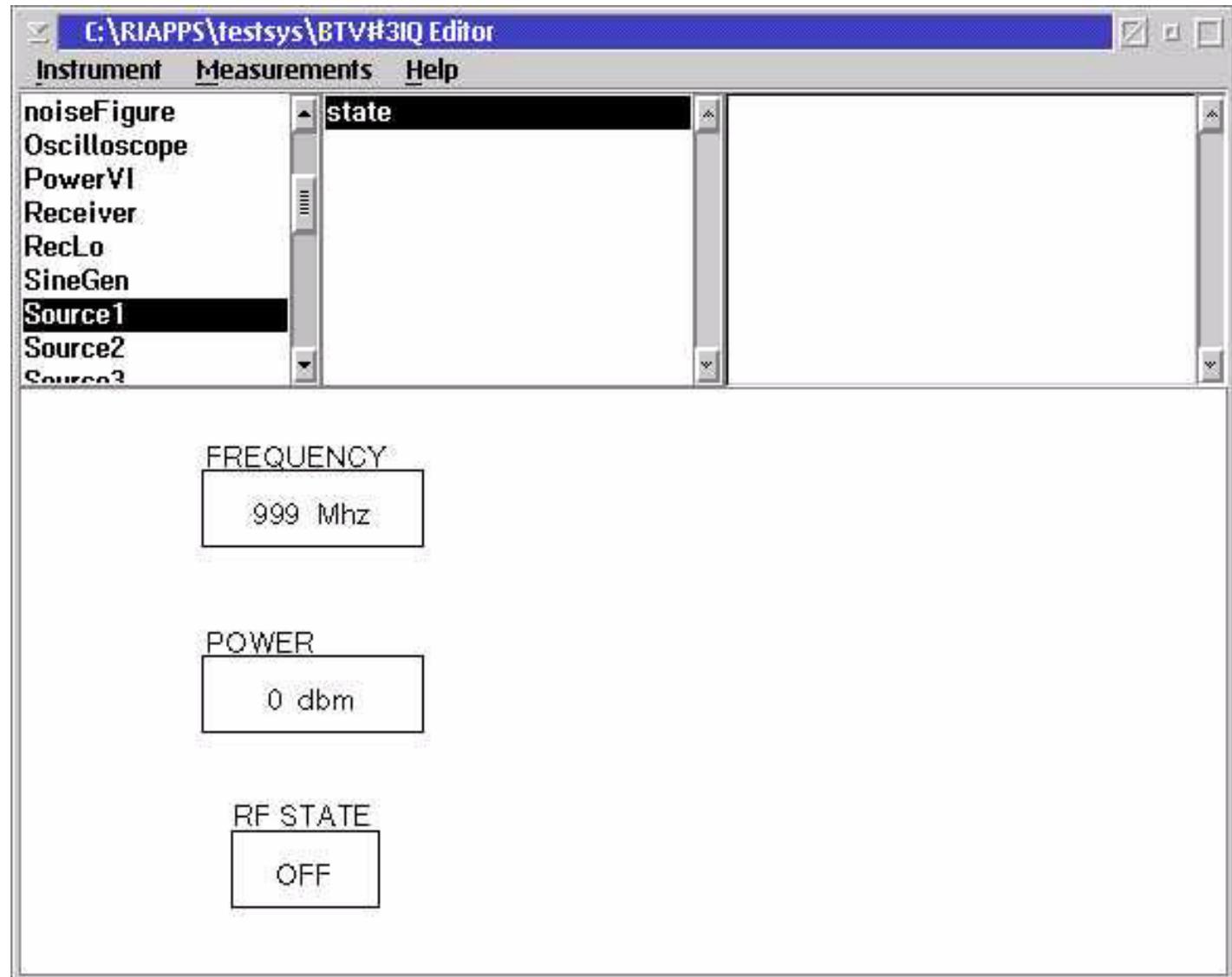


SineGen (Low Phase Noise)





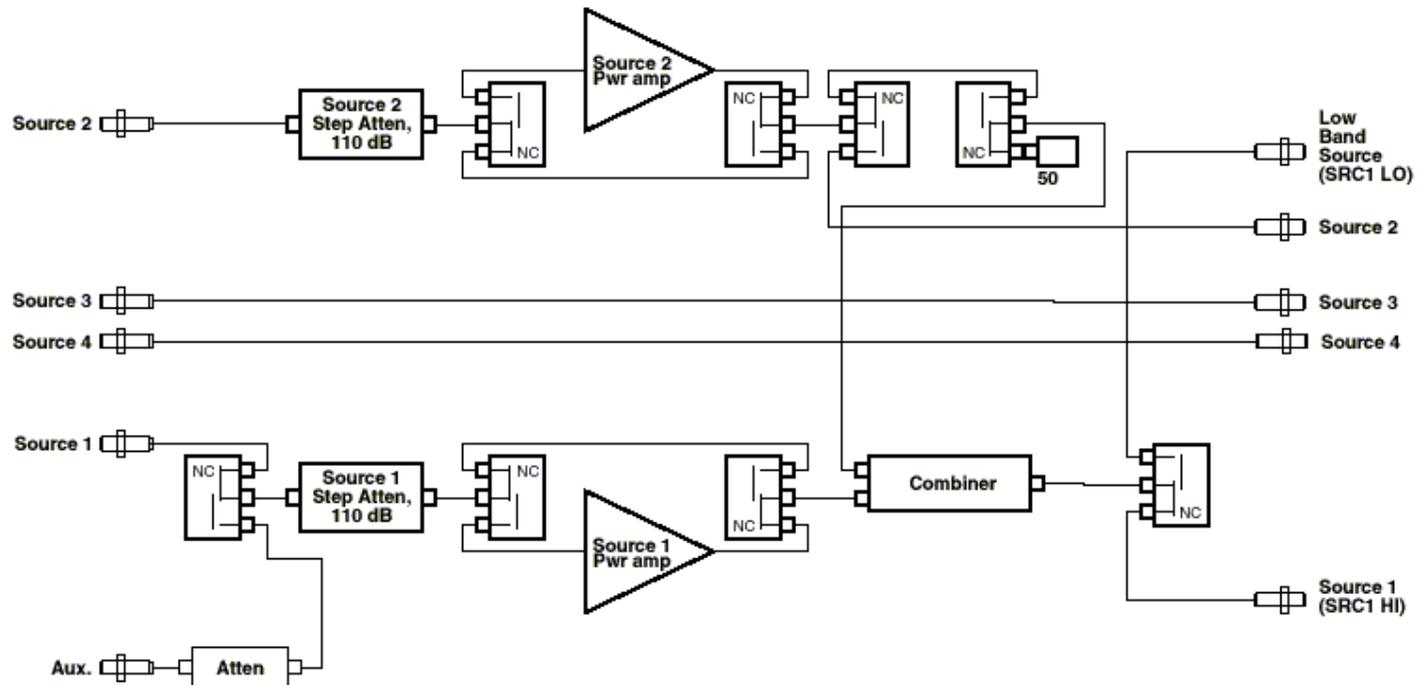
Sources 1, 2, 3, and 4





SRC12 Output

Roos Instruments, Inc
Block Diagram, Source 1/2 Output Module
RI726XA
12/22/99



Notes:

- 7266A: No pwr amps, no aux atten.
- 7267A: No aux atten.
- 7268A: No pwr amps
- 7269A: Fully loaded



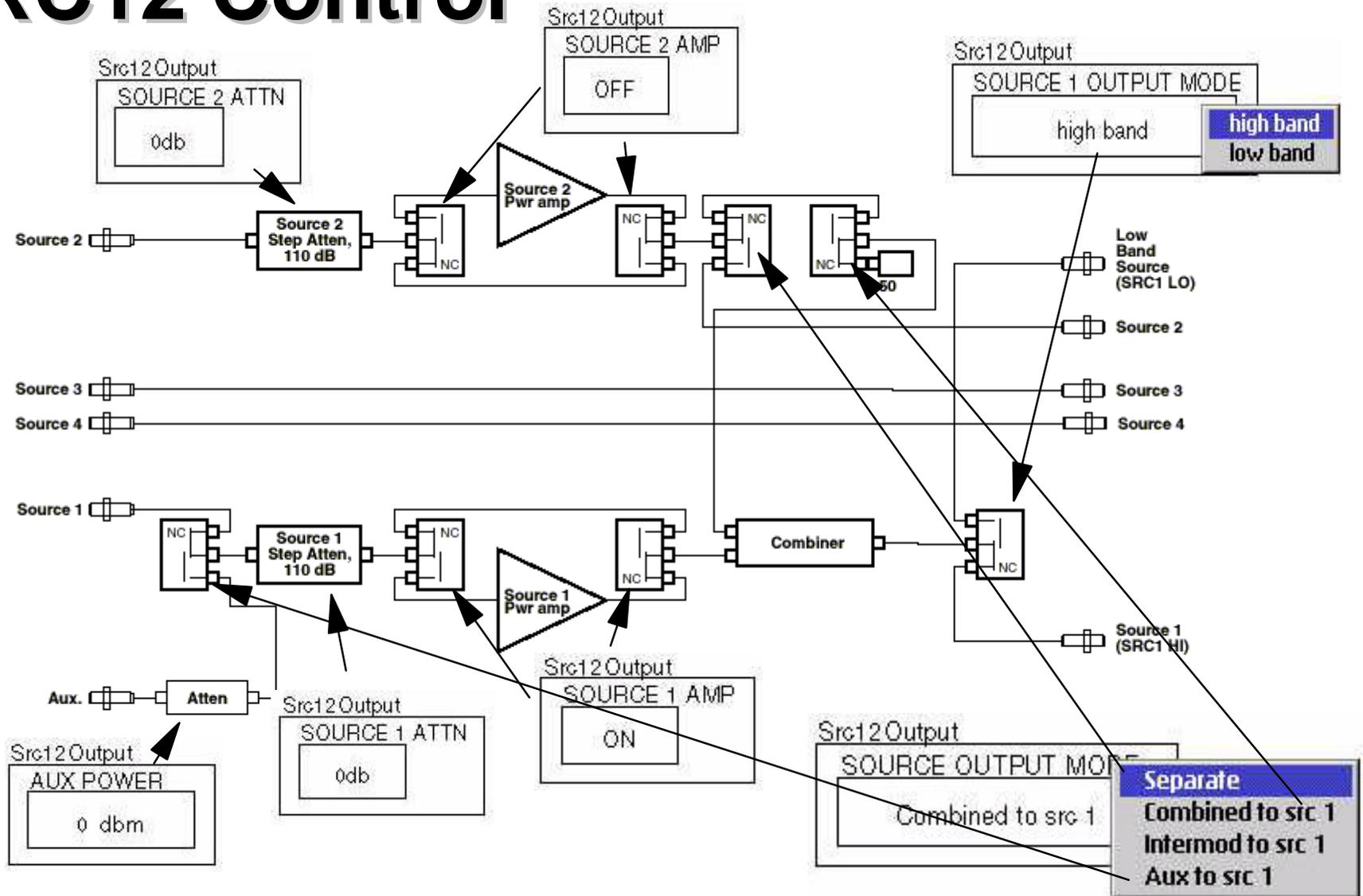
SRC12 Output

The screenshot shows the 'C:\RIAPPS\testsys\BTVM#3IQ Editor' window. The left sidebar lists various instrument components, with 'Src12Output' selected. The main panel displays the following configuration parameters:

- INTERMOD TRACKING: OFF
- INTERMOD FREQ SPACING: 0 Mhz
- AUX POWER: 0 dbm
- INTERMOD POWER SPACING: 0 db
- SOURCE 1 ATTN: 0db
- SOURCE 1 AMP: OFF
- SOURCE 2 ATTN: 0db
- SOURCE 2 AMP: OFF
- SOURCE OUTPUT MODE: Combined to src 1
- SOURCE 1 OUTPUT MODE: high band



SRC12 Control





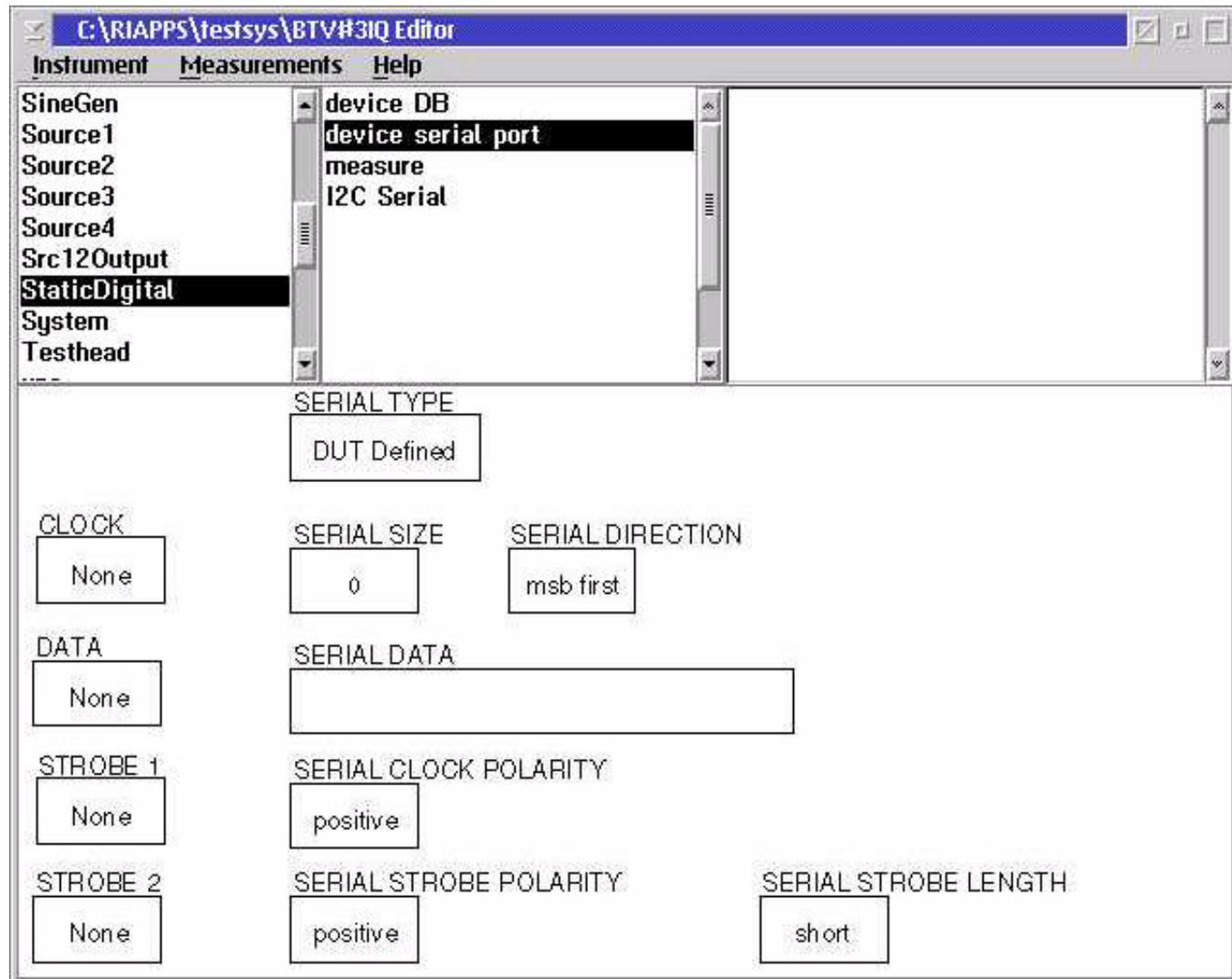
Static Digital; DB Lines

The screenshot shows the 'Static Digital' configuration window in the BTV#3IQ Editor. The window title is 'C:\RIAPPS\testsys\BTV#3IQ Editor'. The menu bar includes 'Instrument', 'Measurements', and 'Help'. The left sidebar lists various instrument sources, with 'StaticDigital' selected. The main area is divided into two panes. The top pane shows a list of connection options: 'device DB', 'device serial port', 'measure', and 'I2C Serial'. The bottom pane displays a grid of 17 digital line controls. Each control consists of a label, a text box, and a status indicator. The status indicators are either 'open' or 'off'. A mouse cursor is hovering over the 'open' status indicator for 'DB 13', which has a small pop-up menu with 'open', 'on', and 'off' options.

Control	Value
VOFF	0
VON	0
VOFF HIGH BYTE	0
VON HIGH BYTE	0
DB 1	open
DB 2	open
DB 3	open
DB 4	open
DB 5	off
DB 6	off
DB 7	open
DB 8	open
DB 9	open
DB 10	open
DB 11	open
DB 12	open
DB 13	open
DB 14	open
DB 15	open
DB 16	open



Static Digital; Device Serial Port





Static Digital; Measurement

The screenshot shows the BTV#3IQ Editor software interface. The window title is "C:\RIAPPS\testsys\BTV#3IQ Editor". The menu bar includes "Instrument", "Measurements", and "Help".

The left sidebar lists the following components: SineGen, Source1, Source2, Source3, Source4, Src12Output, **StaticDigital**, System, and Testhead. The "StaticDigital" component is selected.

The main area displays the following settings:

- device DB**: device serial port
- measure**: I2C Serial

A help text box on the right states: "Select the mode to use when measuring the selected pin, Vmeas forces current and measures voltage. Imeas forces voltage and measures current".

The measurement configuration section includes the following controls:

- MEASURE MODE**: Imeas
- MEASURE V FORCE**: 0
- MEASURE I FORCE**: 0
- MEASURE V LIMIT**: 0
- MEASURE I LIMIT**: 0
- MEASURE PIN**: DB2
- CURRENT MEAS MAX**: 1
- MEAS**: Current A
- MEAS**: Voltage A



Static Digital; I2C

The screenshot shows the BTVM3IQ Editor software interface. The title bar indicates the file path: C:\RIAPPS\testsys\BTVM3IQ Editor. The menu bar includes Instrument, Measurements, and Help. A tree view on the left lists various components, with 'StaticDigital' selected. The main window displays the following configuration:

- I2C ADDRESS:** 11000000
- I2C REGISTER:** 10110000
- I2C WRITE:** 11000000
- MEAS:** IC byte A



System; Data Saves

The screenshot shows the 'BTView#3IQ Editor' window with the 'System' configuration page selected. The left sidebar lists various components, with 'System' highlighted. The main area displays a tree view of 'data saves' with sub-items: 'flow control', 'state', 'Output Frequency', and 'general calculations'. Below this, a grid of configuration options is shown, each with a red 'A' icon and a checkbox:

Option	Value
LOCAL VAR SOURCE	X
ARRAY L.V.	arrayX
CAL FACTOR	None
ARRAY L.V.	X
INSTR STATE SOURCE	None
LOCAL VAR SAVE	X
CAL DATA	cal
SAVE FORMAT	NoName
VECTOR L.V.	X
SORTED LV SAVE	X
INDEXED BY?	X
SAVE ADJUSTED	NoName
TAGGED L.V.	X
TAGGED L.V.	X
LOCAL VAR PROMPT	X



System; Flow Control

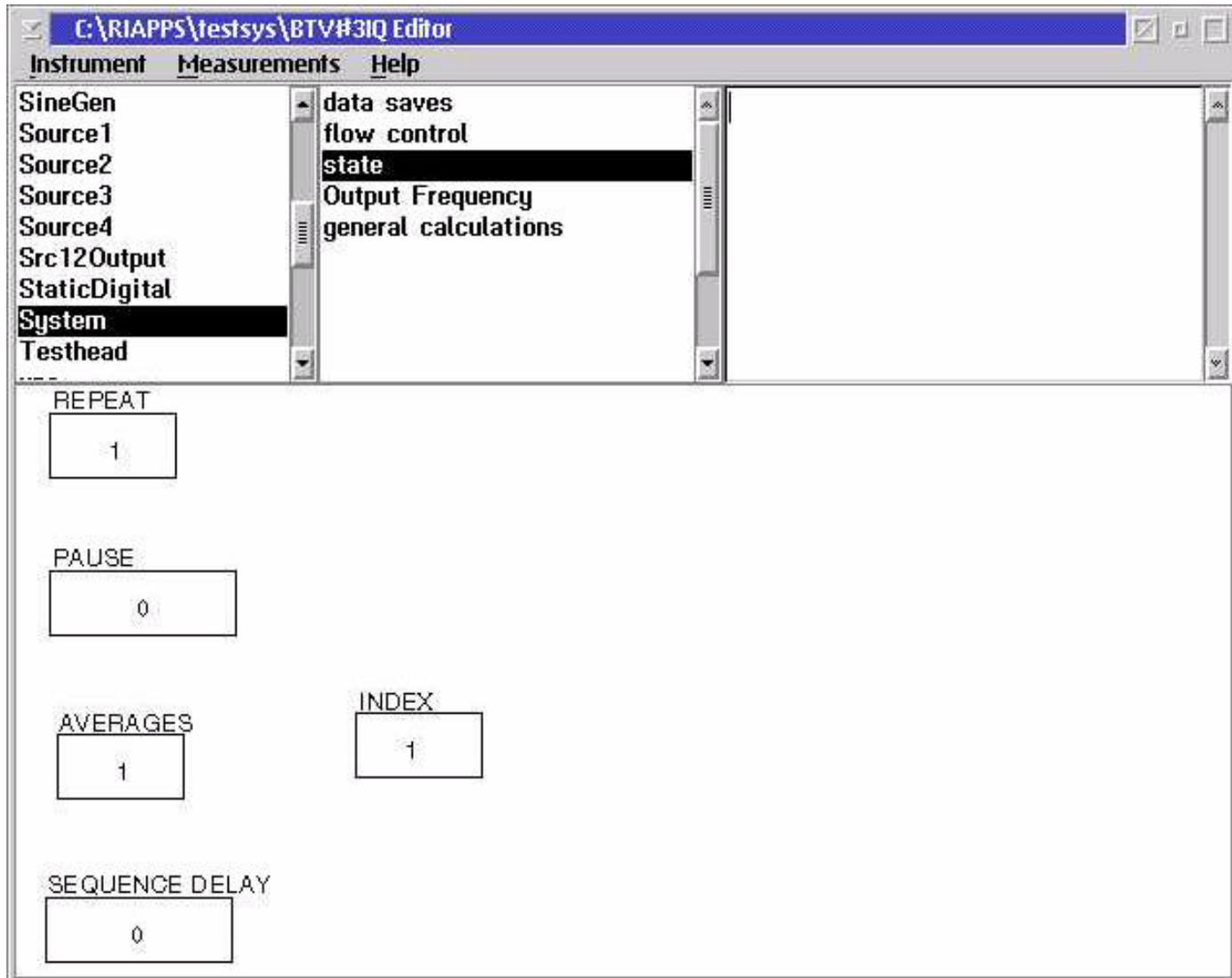
The screenshot shows a software window titled "C:\RIAPPS\testsys\BTV#3IQ Editor" with a menu bar containing "Instrument", "Measurements", and "Help". A tree view on the left lists components: SineGen, Source1, Source2, Source3, Source4, Src12Output, StaticDigital, System (highlighted), and Testhead. A right-hand pane shows a list of options: data saves, flow control (highlighted), state, Output Frequency, and general calculations.

Below the tree view, there are several control buttons:

- SET FLAG: A button with a red 'A' icon and an 'X'.
- SKIP IF TRUE: A button with an 'X'.
- ABORT IF TRUE: A button with an 'X'.
- OPERATOR PAUSE: A button with the text "Click OK to continue".
- SKIP IF FALSE: A button with an 'X'.
- ABORT IF FALSE: A button with an 'X'.



System; State





System; Output Frequency

The screenshot shows the 'BTVH3IQ Editor' software interface. The main window has a menu bar with 'Instrument', 'Measurements', and 'Help'. A tree view on the left lists components: SineGen, Source1, Source2, Source3, Source4, Src12Output, StaticDigital, System (selected), and Testhead. A central pane shows a list of options: data saves, flow control, state, Output Frequency (highlighted), and general calculations. Below this, three input fields are visible: 'FREQ REFERENCE' with 'Source1', 'OUT FREQ OFFSET' with '0', and 'OUT FREQ SCALE' with '1'. A 'Select' dialog box is open in the foreground, displaying a list of options: None, Aux Source, Dut, DutControl, gainCompression, intermod, IQMeter, noiseFigure, and Oscilloscope. The dialog has 'select' and 'cancel' buttons.



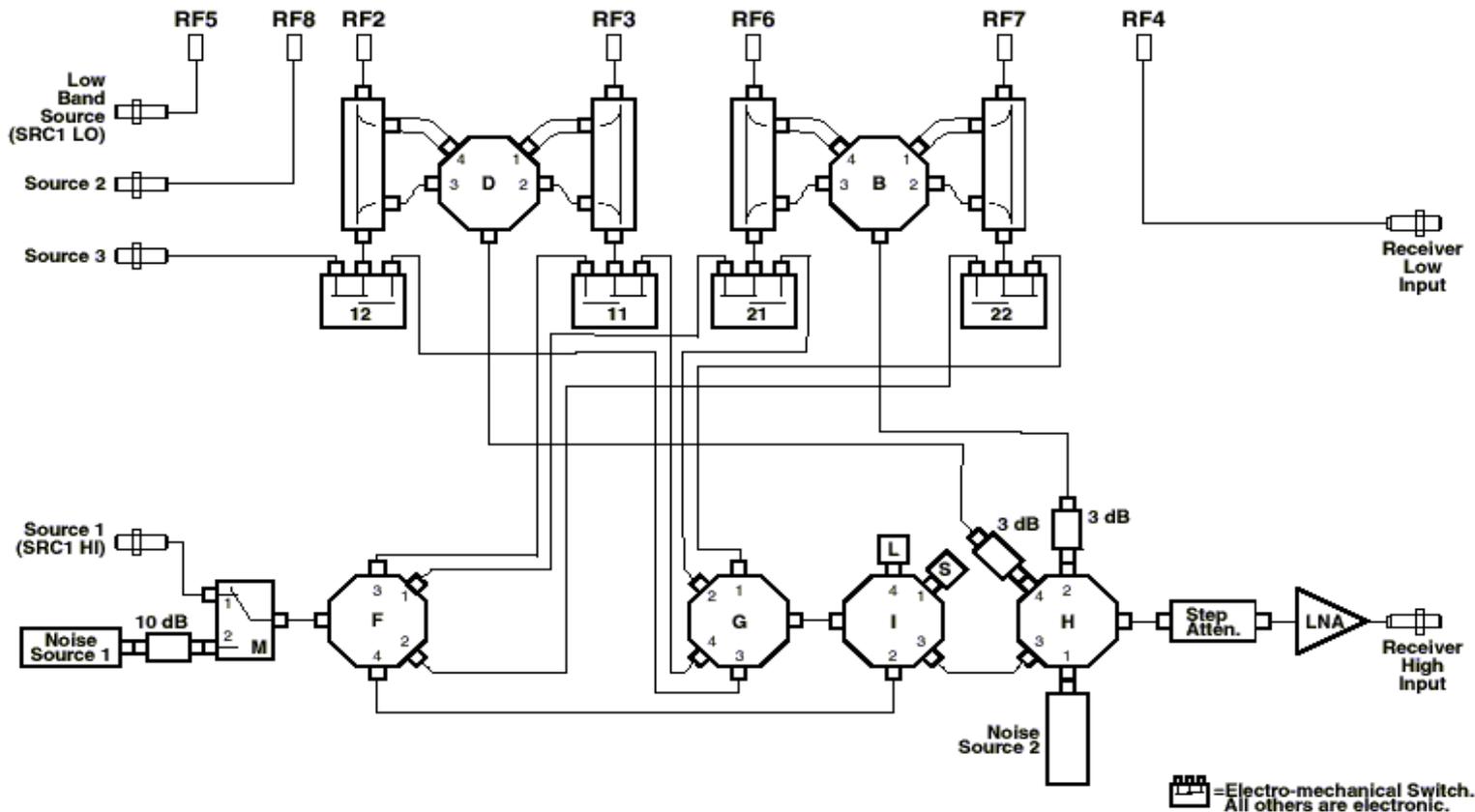
System; General Calculations

The screenshot shows the 'C:\RIAPPS\testsys\BTVM3IQ Editor' window. The menu bar includes 'Instrument', 'Measurements', and 'Help'. A tree view on the left lists components: SineGen, Source1, Source2, Source3, Source4, Src12Output, StaticDigital, System (selected), and Testhead. The right pane shows a tree view with 'data saves', 'flow control', 'state', 'Output Frequency', and 'general calculations' (selected). The main workspace contains several blocks: three 'CALC' blocks with input ports A, B, and C, and one 'CALC INPUT' block with a value of 0.0 and an output port A. A 'TYPE CHANGE' block is also present with input ports A and B, and an output port A.



Testhead Block Diagram

Roos Instruments, Inc - RI7100A
RF Block Diagram, Test Head
12/22/99





Testhead Editor

C:\RIAPPS\testsys\BTV#3IQ Editor

Instrument Measurements Help

Source4
Src12Output
StaticDigital
System
Testhead
vna
Waveform

RF Setup
measurements
pulse control

RF 2
src 3

RF 3
receive

RF 6
receive

RF 7
receive

SOURCE 1
RF 3

SOURCE 1 MODE
source

INPUT PORT
Rf 3

OUTPUT PORT
Rf 6

REC ATTENUATION
0db

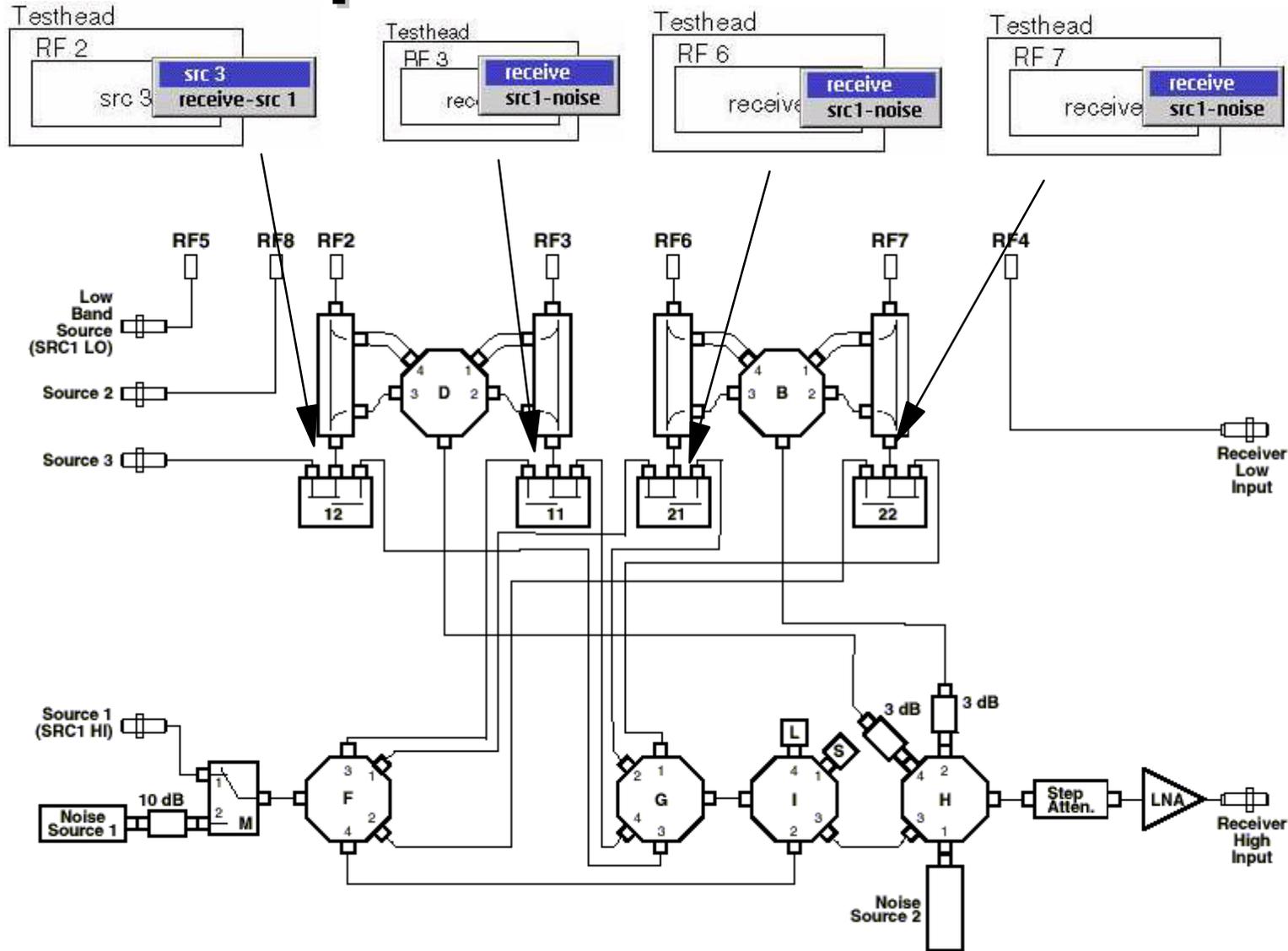
RECEIVE MODE
s parameters

PARAMETER
a1

LOAD STATE
load

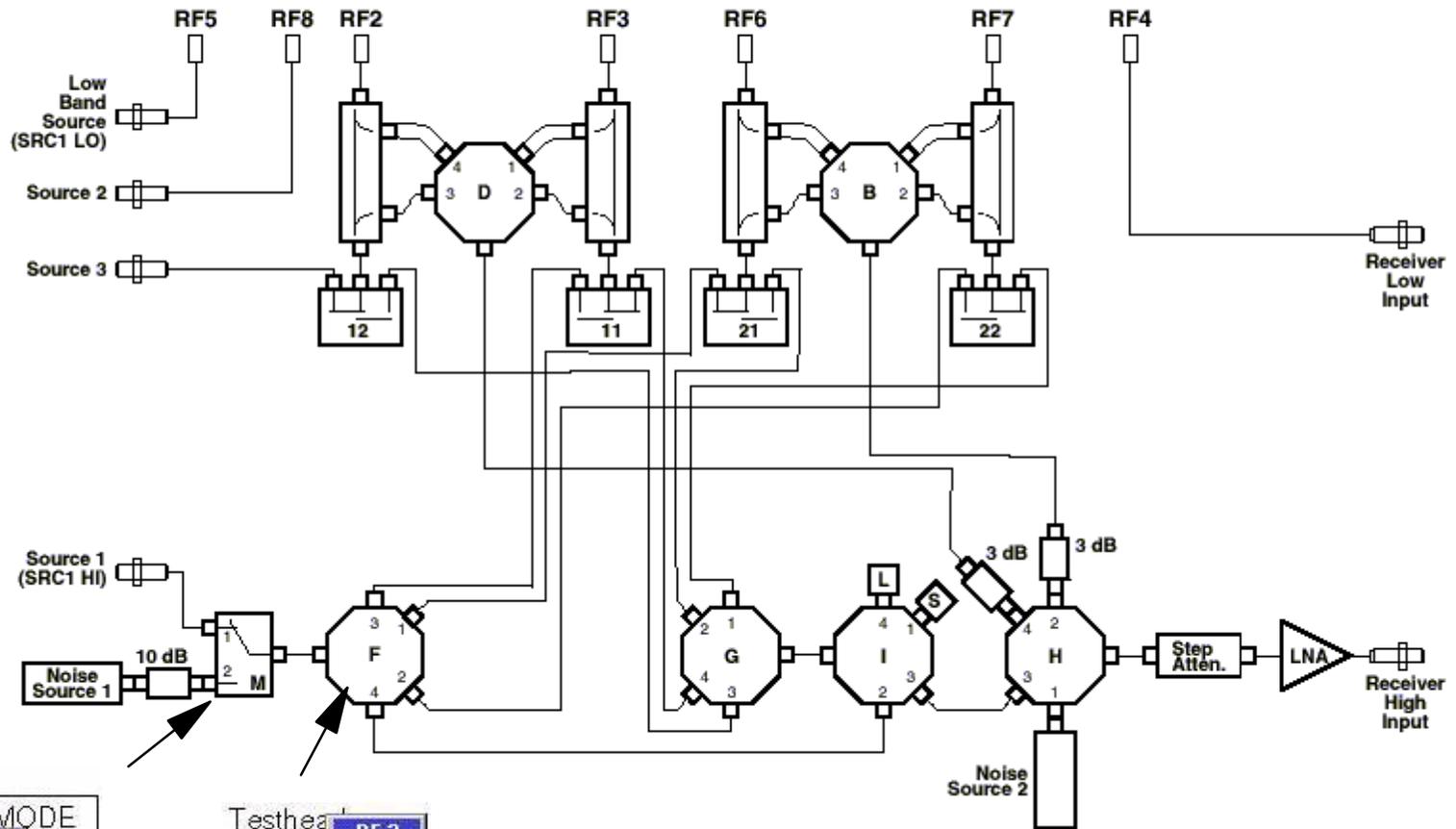


Port Set-Up





Stimulus



Testhead

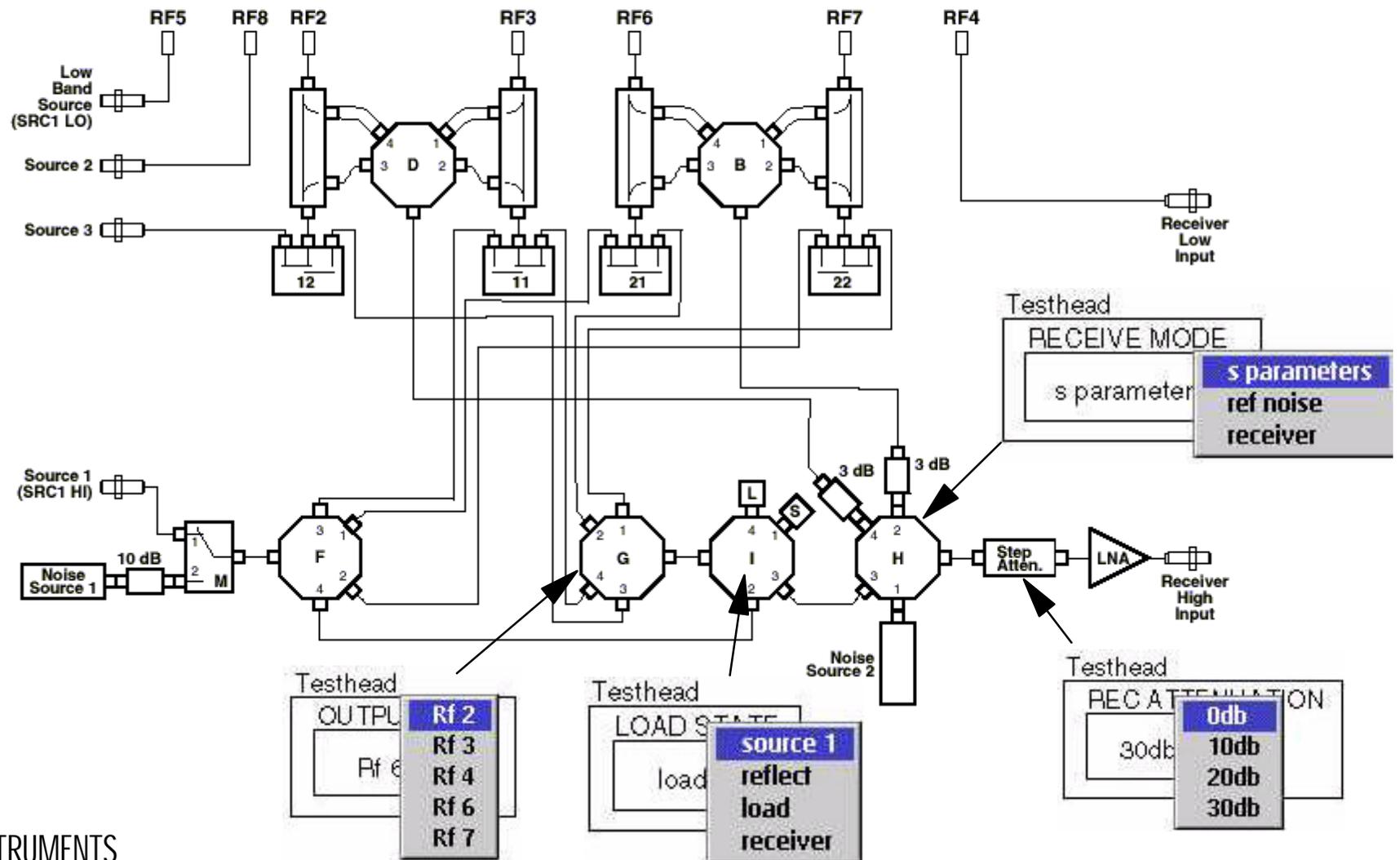
SOURCE 1 MODE
source
noise

Testhead

RF 2
RF 3
RF 5
RF 6
RF 7
Load

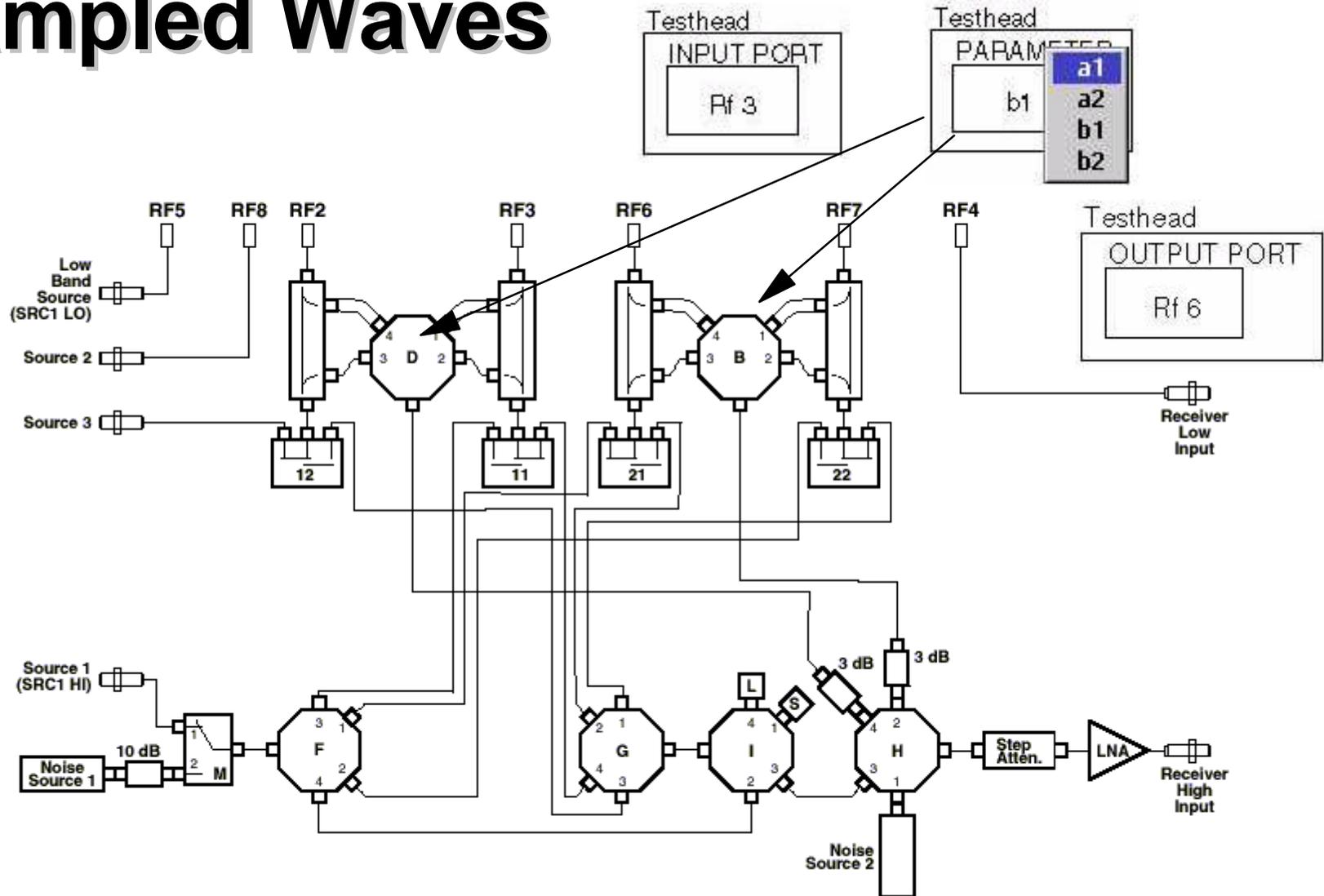


Receive





Sampled Waves





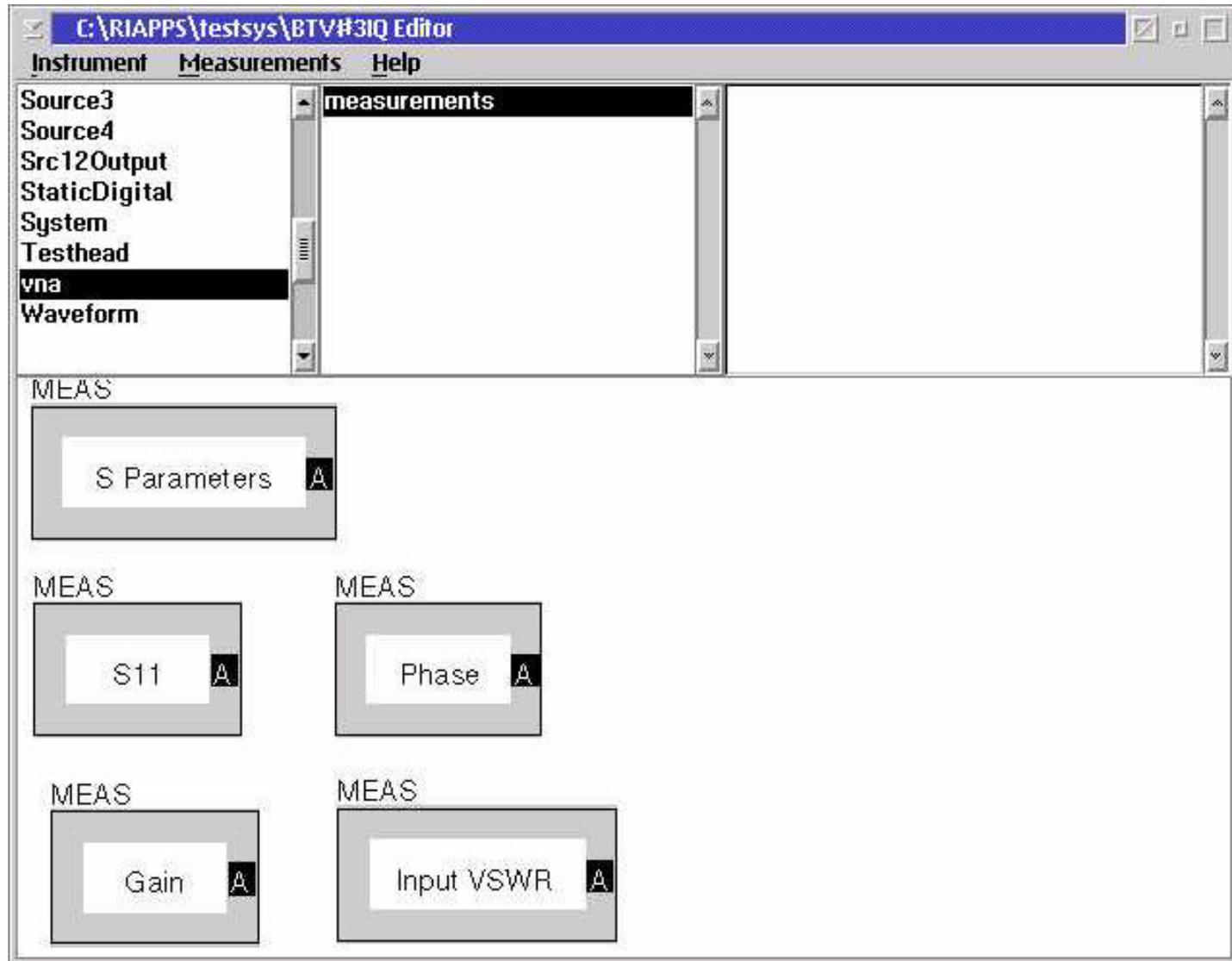
Testhead Measurements

The screenshot shows the 'BTV#3IQ Editor' software interface. The title bar indicates the file path: C:\RIAPPS\testsys\BTV#3IQ Editor. The menu bar includes 'Instrument', 'Measurements', and 'Help'. On the left, a tree view lists various components: SineGen, Source1, Source2, Source3, Source4, Src12Output, StaticDigital, System, and Testhead (which is selected). The main window is divided into two panes. The top pane shows a tree view for the selected 'Testhead' component, with 'RF Setup' expanded to show 'measurements' and 'pulse control'. The bottom pane displays a grid of measurement controls, each with a 'MEAS' label and a small 'A' icon:

- Wave Param at Input Freq
- output power at rec freq
- Conversion Gain
- Wave Param at Output Freq
- Input Power
- Harmonics
- Wave Param at Receive Freq
- Output Power
- SPAR MODE: unidirectional



VNA; Measurements





Waveform (ARB); State

The screenshot shows the 'Waveform' configuration window in the BTVM#3IQ Editor. The window title is 'C:\RIAPPS\testsys\BTV#3IQ Editor'. The menu bar includes 'Instrument', 'Measurements', and 'Help'. A tree view on the left lists various components, with 'Waveform' selected. The main area displays configuration parameters for three waveforms (WF 2 and WF 3) and overall waveform settings.

Parameter	Value
WF 2 AMPLITUDE	0
WF 3 AMPLITUDE	0
WF 2 OFFSET	0
WF 3 OFFSET	0
WF 2 PHASE	0
WF 3 PHASE	0
SAMPLE RATE (WF 2)	100 ns
SAMPLE RATE (WF 3)	100 ns
FREQUENCY (WF 2)	1 M
FREQUENCY (WF 3)	1 MHz
TYPE	None
MAX SAMPLES	1000

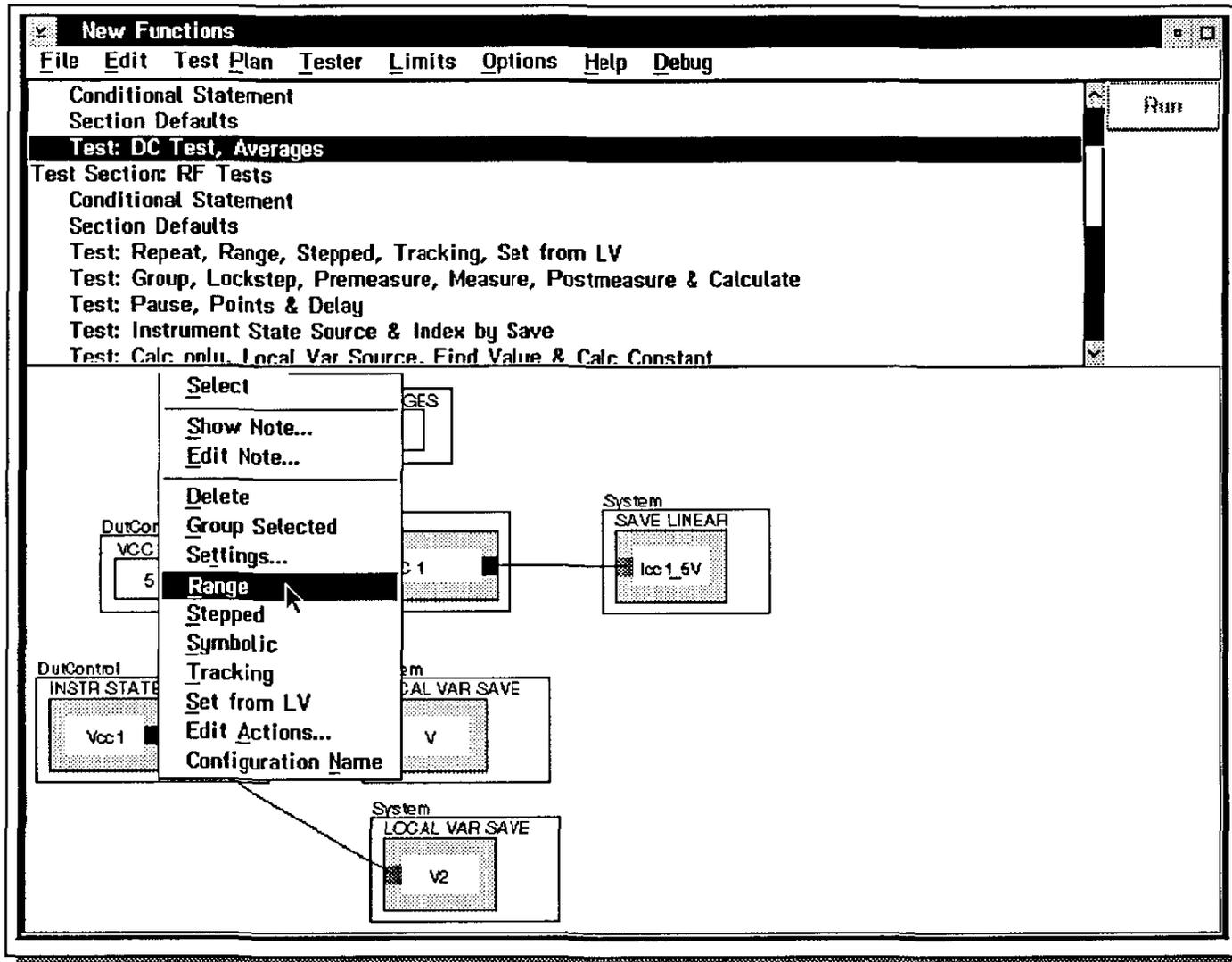


Waveform (ARB); Modulation

The screenshot shows the 'Waveform' configuration window in the BTVM#3IQ Editor. The window title is 'C:\RIAPPS\testsys\BTV#3IQ Editor'. The menu bar includes 'Instrument', 'Measurements', and 'Help'. On the left, a tree view shows the following items: Source3, Source4, Src12Output, StaticDigital, System, Testhead, vna, and Waveform (selected). The main area is titled 'state' and contains a 'modulation' dropdown menu. To the right of this menu is a text box that says 'Select the type of modulation to generate'. Below the main area, there are several control fields:

- FILTER:** None
- FILTER SHAPE:** 0
- FILTER BW:** 1
- FILTER TAPS:** 21
- MOD INDEX:** 1
- DATA BITS:** 100
- DATA RATE:** 100000
- MODULATION TY:** A dropdown menu with the following options: None (selected), P/4 DQPSK, DQPSK, HPSK, and QPSK.
- FILTER FILE:** None

Button 2 Functions

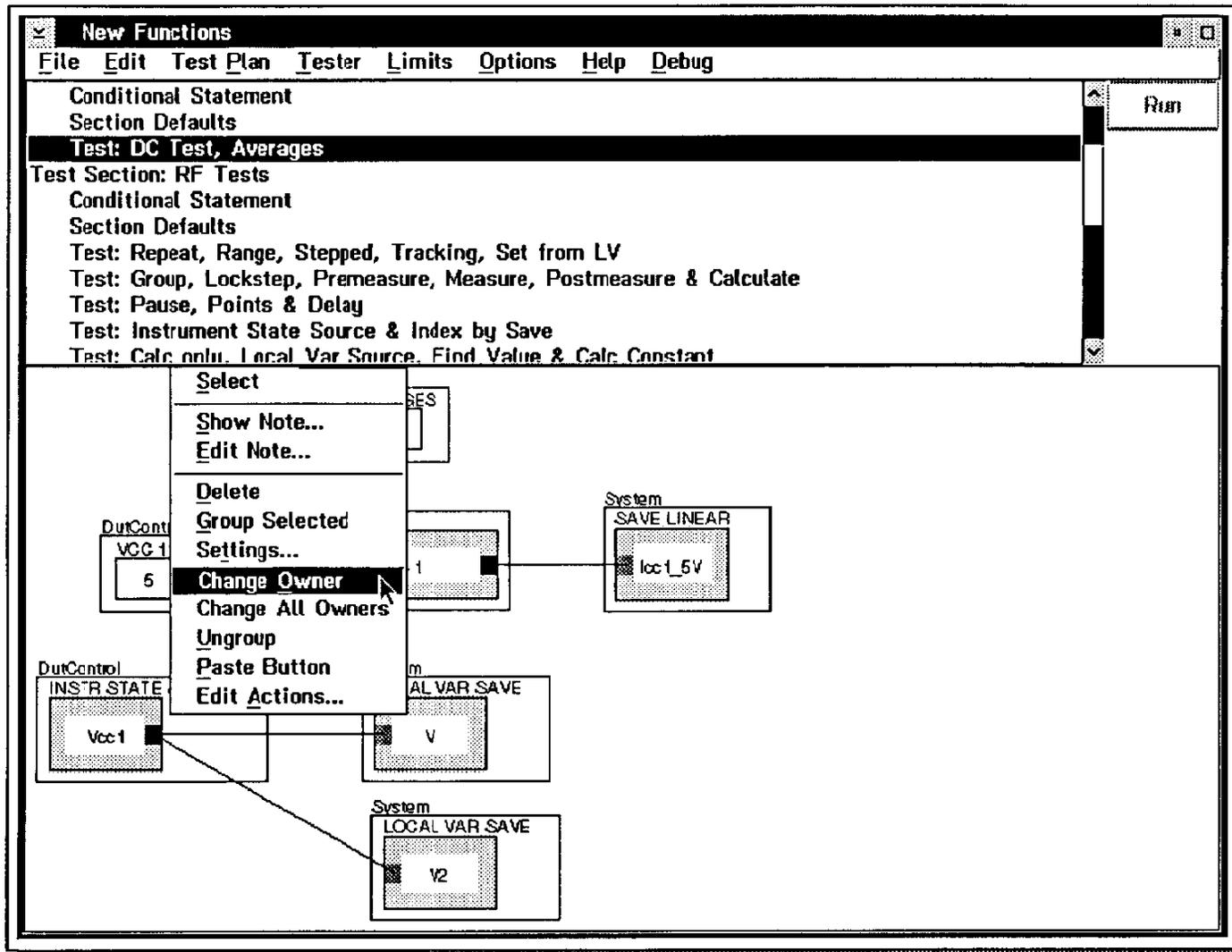


REPEAT, RANGE, STEPPED, TRACKING & SET Local Variable (LV)

The screenshot displays a software window titled "New Functions" with a menu bar containing "File", "Edit", "Test Plan", "Tester", "Limits", "Options", "Help", and "Debug". The menu is open, showing a list of test functions. The function "Test: Repeat, Range, Stepped, Tracking, Set from LV" is highlighted. Below the menu, a block diagram illustrates a test setup with the following components:

- System**: A block labeled "REPEAT" with a value of "10".
- Source1**: A block labeled "FREQUENCY" containing:
 - START: 1000 Mhz
 - STOP: 2000 Mhz
 - POINTS: 6
- Source1**: A block labeled "POWER" containing:
 - START: 0 dbm
 - STEP SIZE: 1 dbm
 - POINTS: 5
- Source2**: A block labeled "POWER" containing:
 - MASTER: Source1
 - CONFIG: Power
 - SCALE: 1
 - OFFSET: 0
- DutControl**: A block labeled "VCC 2" with a value of "V".

Changing Button Owner



System Buttons: Averages, Inst State Source & Local VAR Save

The screenshot displays a software window titled "New Functions" with a menu bar containing "File", "Edit", "Test Plan", "Tester", "Limits", "Options", "Help", and "Debug". The menu is open, showing a list of test sections and functions. The "Test: DC Test, Averages" option is highlighted. Below the menu, a block diagram illustrates the configuration of system buttons. The diagram includes the following components and connections:

- System AVERAGES**: A box containing the value "10".
- DutControl VCC 1**: A box containing the value "5".
- DutControl MEAS**: A box containing the value "ICC 1".
- System SAVE LINEAR**: A box containing the value "icc_1.5V".
- DutControl INSTR STATE SOURCE**: A box containing the value "Vcc1".
- System LOCAL VAR SAVE**: Two boxes, one containing "V" and the other containing "V2".

Connections in the diagram:

- A line connects the "MEAS" box to the "SAVE LINEAR" box.
- A line connects the "INSTR STATE SOURCE" box to the "LOCAL VAR SAVE" box containing "V".
- A line connects the "INSTR STATE SOURCE" box to the "LOCAL VAR SAVE" box containing "V2".

System Buttons: Pause, Points & Delay

The screenshot displays a software window titled "New Functions" with a menu bar containing "File", "Edit", "Test Plan", "Tester", "Limits", "Options", "Help", and "Debug". The menu is open, showing several options. The option "Test: Pause, Points & Delay" is highlighted with a mouse cursor. Other visible options include "Test: DC Test, Averages", "Test Section: RF Tests", "Test: Repeat, Range, Stepped, Tracking, Set from LV", "Test: Group, Lockstep, Premeasure, Measure, Postmeasure & Calculate", "Test: Instrument State Source & Index by Save", and "Test: Calc only Local Var Source Find Value & Calc Constant".

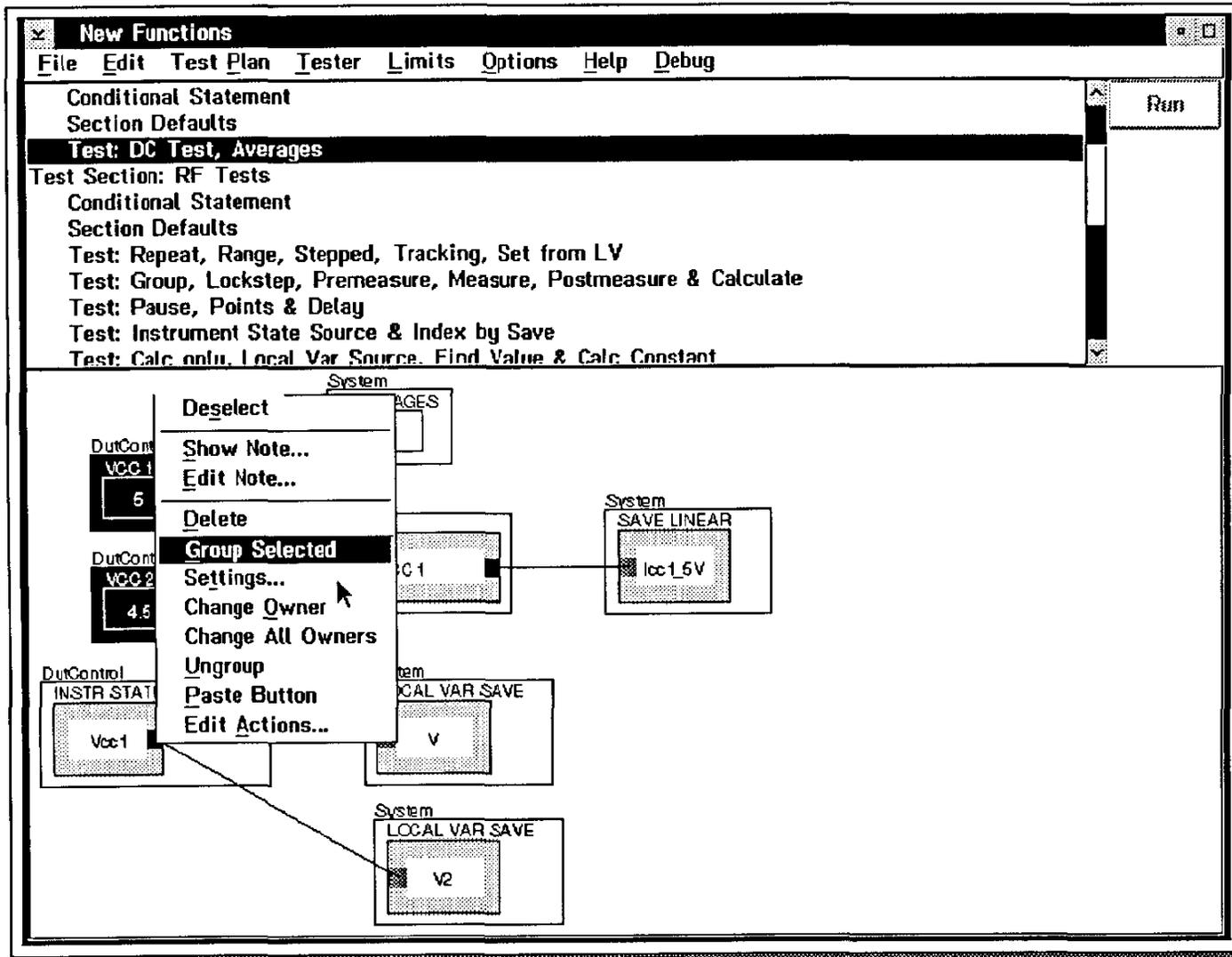
Below the menu is a block diagram with the following components and connections:

- System PAUSE**: A box containing the value "10000".
- System POINTS**: A box containing the value "50".
- System DELAY**: A box containing the value "10".
- DutControl MEAS**: A box containing the text "Voltage Vs Time".
- System CALC**: A box containing the text "peak to peak".
- System SAVE LINEAR**: A box containing the text "Vpp".
- System LOCAL VAR SAVE**: A box containing the text "V_vs_T".

Connections in the diagram:

- Arrows from the "System POINTS" and "System DELAY" boxes point to the "DutControl MEAS" box.
- An arrow from the "System PAUSE" box points to the "DutControl MEAS" box.
- An arrow from the "DutControl MEAS" box points to the "System CALC" box.
- An arrow from the "System CALC" box points to the "System SAVE LINEAR" box.
- An arrow from the "System LOCAL VAR SAVE" box points to the "System CALC" box.

Selecting a Group



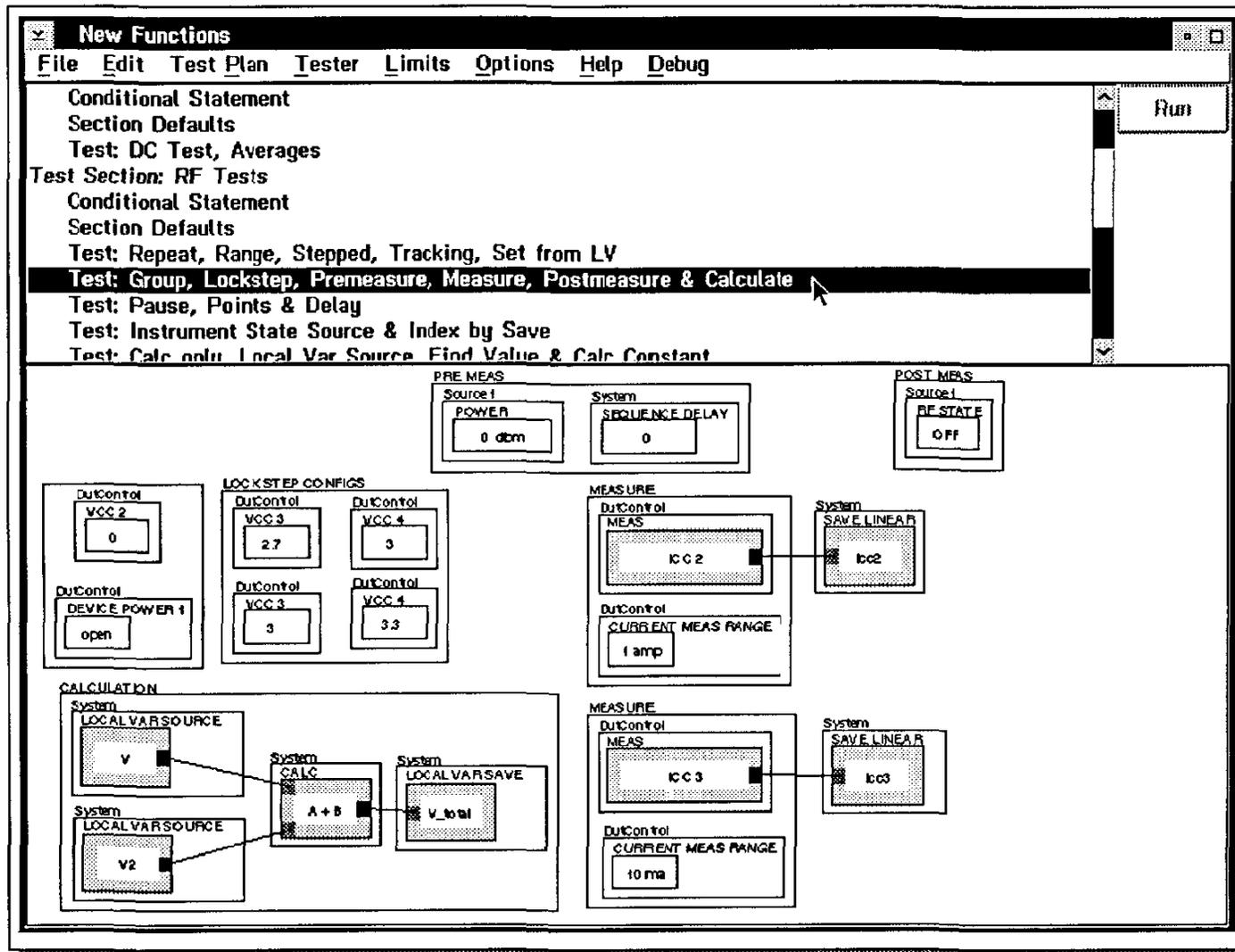
Button 2 Group Functions

The screenshot displays a software window titled "New Functions" with a menu bar containing "File", "Edit", "Test Plan", "Tester", "Limits", "Options", "Help", and "Debug". The main area is divided into two sections. The top section contains a list of functions: "Conditional Statement", "Section Defaults", "Test: DC Test, Averages", "Test Section: RF Tests", "Conditional Statement", "Section Defaults", "Test: Repeat, Range, Stepped, Tracking, Set from LV", "Test: Group, Lockstep, Premeasure, Measure, Postmeasure & Calculate", "Test: Pause, Points & Delay", "Test: Instrument State Source & Index by Save", and "Test: Calc. only, Local Var. Source, Find Value & Calc. Constant". A "Run" button is located on the right side of this section. The bottom section shows a block diagram with the following components and connections:

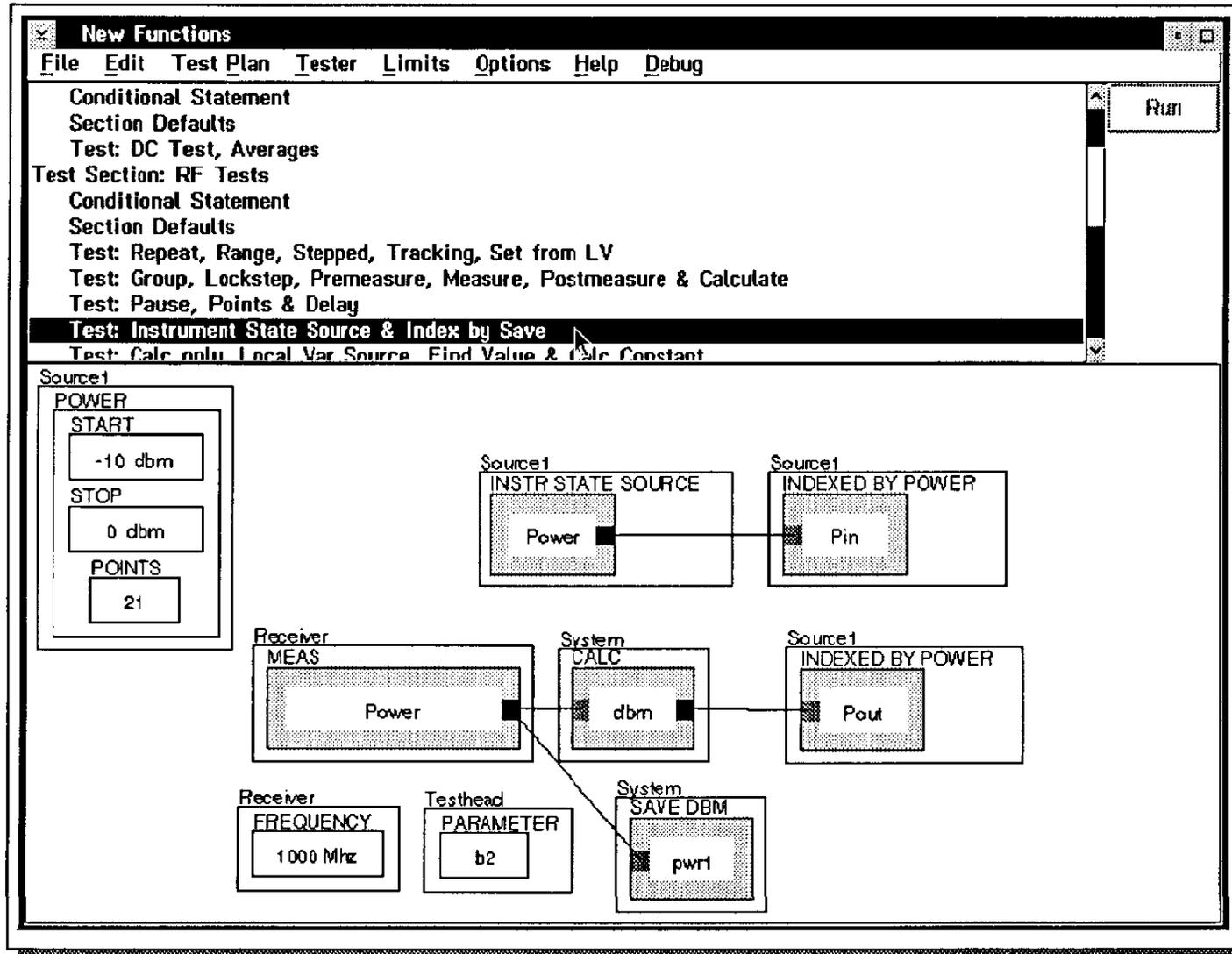
- DutControl** block: "VCC 1" (value 6) and "VCC 2" (value 4.5).
- System** block: "AVERAGES" (value 10).
- System** block: "ICC 1" (value 1).
- System** block: "SAVE LINEAR" (value "icc_1_5V").
- DutControl** block: "INSTR STATE SOURCE" (value "Vcc1").
- System** block: "LOCAL VAR SAVE" (value "V").
- System** block: "LOCAL VAR SAVE" (value "V2").

Connections in the diagram include: "VCC 1" connected to "AVERAGES"; "VCC 2" connected to "ICC 1"; "AVERAGES" connected to "SAVE LINEAR"; "ICC 1" connected to "SAVE LINEAR"; "INSTR STATE SOURCE" connected to "LOCAL VAR SAVE (V)"; and "LOCAL VAR SAVE (V)" connected to "LOCAL VAR SAVE (V2)". A context menu is open over the "Pre Measure" option, listing "Delete", "Group", "Pre Measure", "Post Measure", "Lock Step", "Measure", and "Calculate".

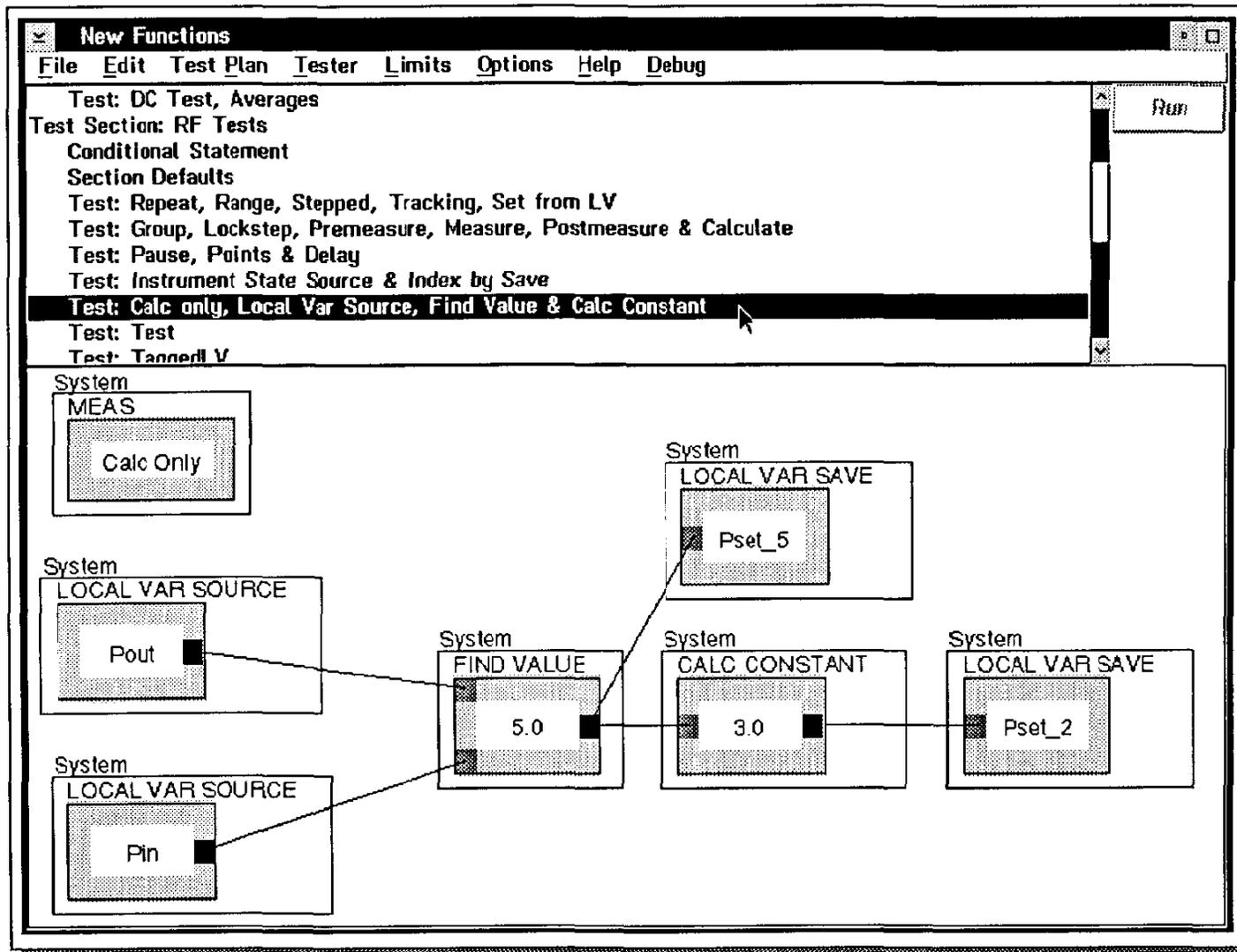
Group, Lockstep, Premeasure, Measure, Postmeasure & Calculate



Searching for Desired Level: Instrument State Source & Index By LV Save



Finding Desired Signal: Local Var Source, Find Value, Calc Constant & LV Save



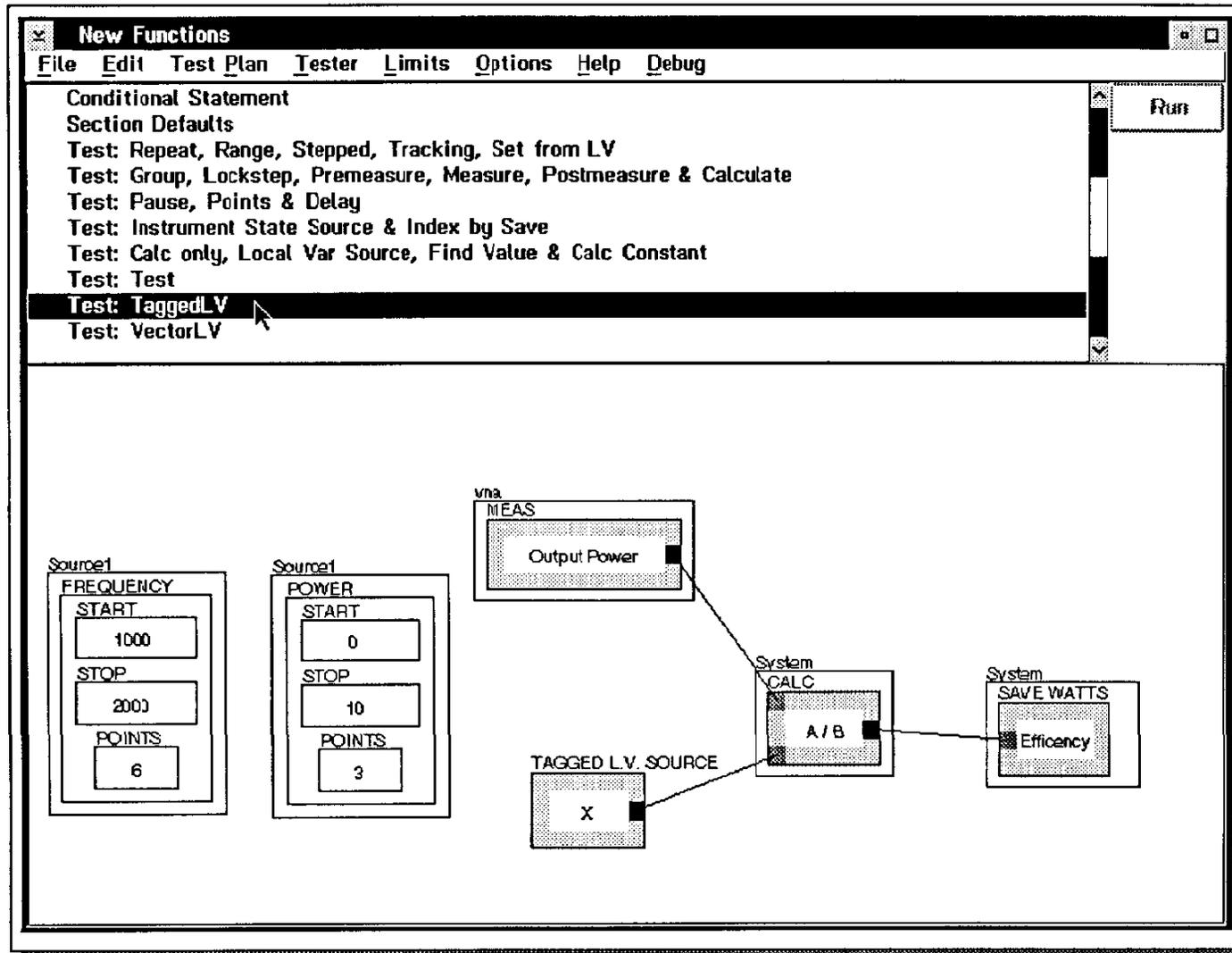
Tagged Local Variables & Tagged LV Save

The screenshot shows a software window titled "New Functions" with a menu bar containing "File", "Edit", "Test Plan", "Tester", "Limits", "Options", "Help", and "Debug". The main area lists various test functions under "Section Defaults":

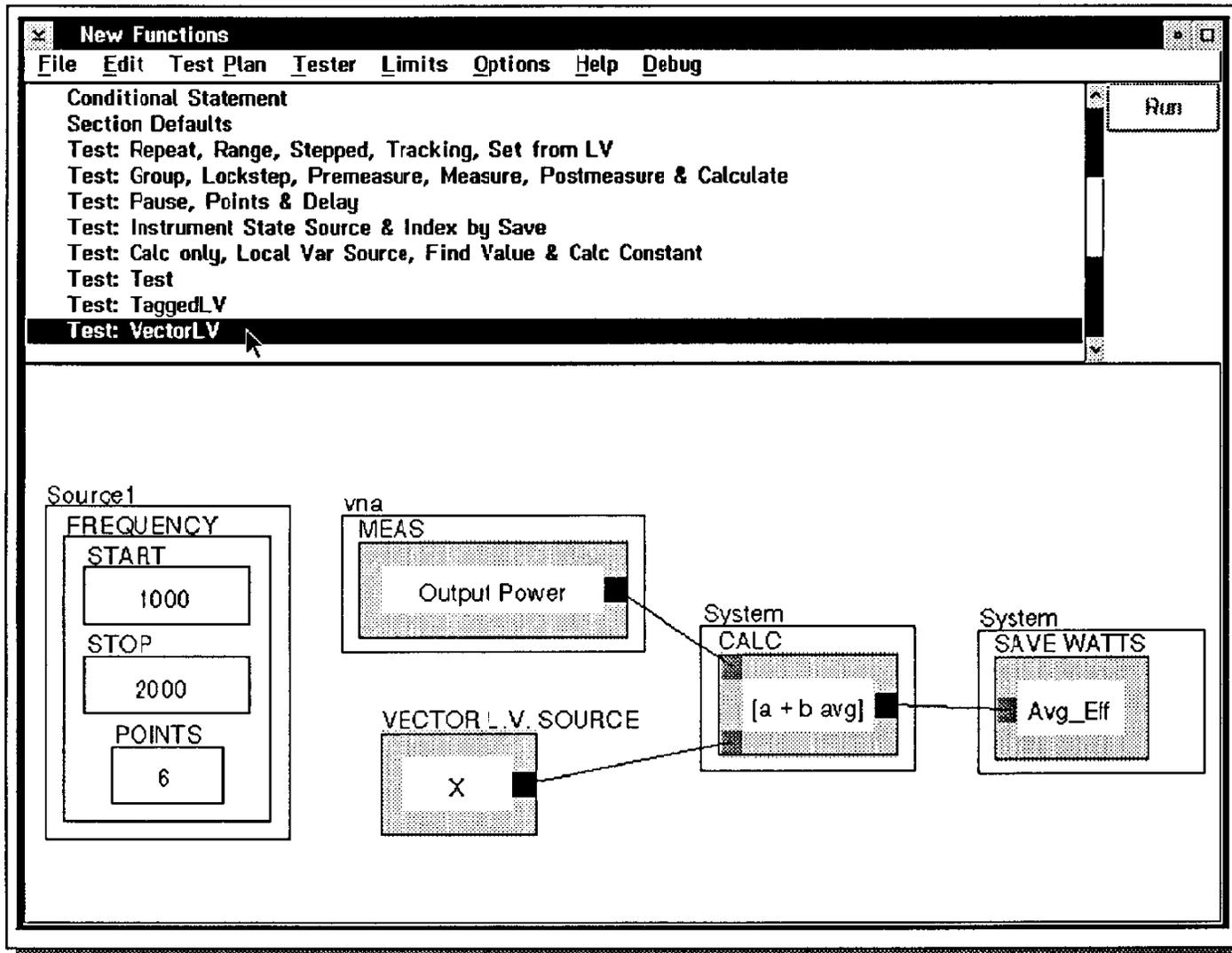
- Test: Repeat, Range, Stepped, Tracking, Set from LV
- Test: Group, Lockstep, Premeasure, Measure, Postmeasure & Calculate
- Test: Pause, Points & Delay
- Test: Instrument State Source & Index by Save
- Test: Calc only, Local Var Source, Find Value & Calc Constant
- Test: Test** (highlighted)
- Test: TaggedLV
- Test: VectorLV

Below the menu is a test plan diagram. It features two "Source1" blocks. The first "Source1" block is labeled "FREQUENCY" and contains three sub-blocks: "START" with value 1000, "STOP" with value 2000, and "POINTS" with value 6. The second "Source1" block is labeled "POWER" and contains three sub-blocks: "START" with value 0, "STOP" with value 10, and "POINTS" with value 3. To the right of these is a "DutControl" block labeled "MEAS" containing a sub-block "ICC 1". A line connects the "ICC 1" block to a "TAGGED L.V. SAVE" block containing the letter "X". A "Run" button is visible in the top right corner of the window.

Tagged Local Variables and Tagged LV Source



Vector Local Variables, Tagged Vector LV Source & Vector Calculations



Typical Test Plan



REA Driver Test Plan - Global Defaults

RAE_Driver < limits: Handler Board >
 File Edit Test Plan Tester Limits Options Help

Test Plan Settings

- Global Defaults
- Disconnect Settings
- Connect Sequence
- Test Section: DC tests
 - Conditional Statement
 - Section Defaults
 - Test: search for Idd=125mA(RFOn)
- Test Section: Calc Pcntrl
 - Conditional Statement
 - Section Defaults

Run

DutControl

- VCC 2: -1.1
- POWER V 1: 0
- POWER I 1: 0.1
- POWER V 2: 0
- POWER I 2: 0.2
- VCC 3: 2.7
- VCC 4: 0
- DEVICE POWER 1: Vcc 3
- DEVICE POWER 2: gnd

System

- PAUSE: 100
- AVERAGES: 20

Receiver

- IF GAIN: 20

Source 1

- RF STATE: ON
- FREQUENCY: 888.5 Mhz
- POWER: 15 dbm

Src 12 Output

- SOURCE 1 ATTN: 10db
- SOURCE 1 AMP: OFF
- SOURCE OUTPUT MODE: Sources

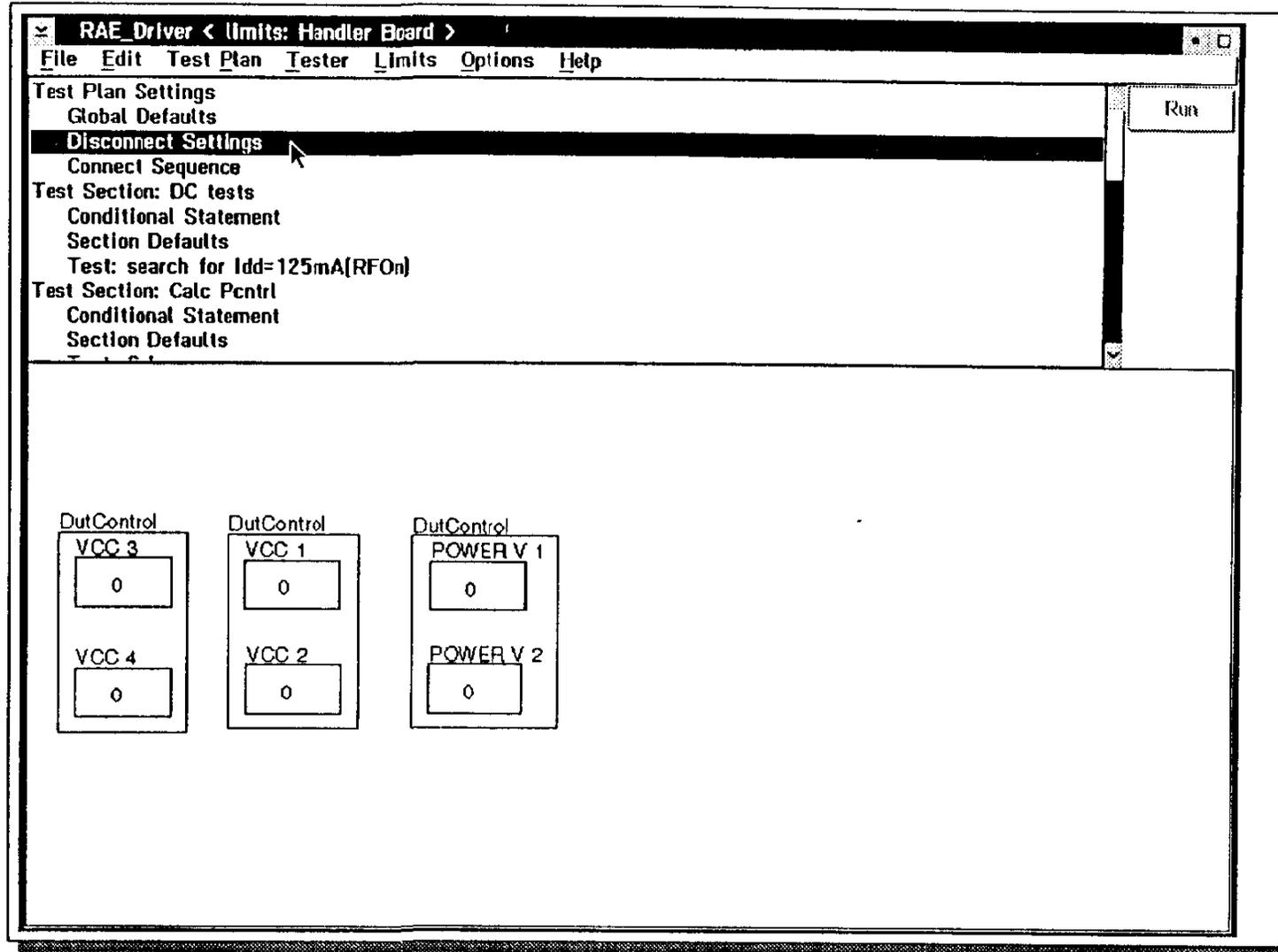
Testhead

- INPUT PORT: RF 3
- OUTPUT PORT: RF 6
- RF 3: src1-noise
- RF 6: Hi power receive

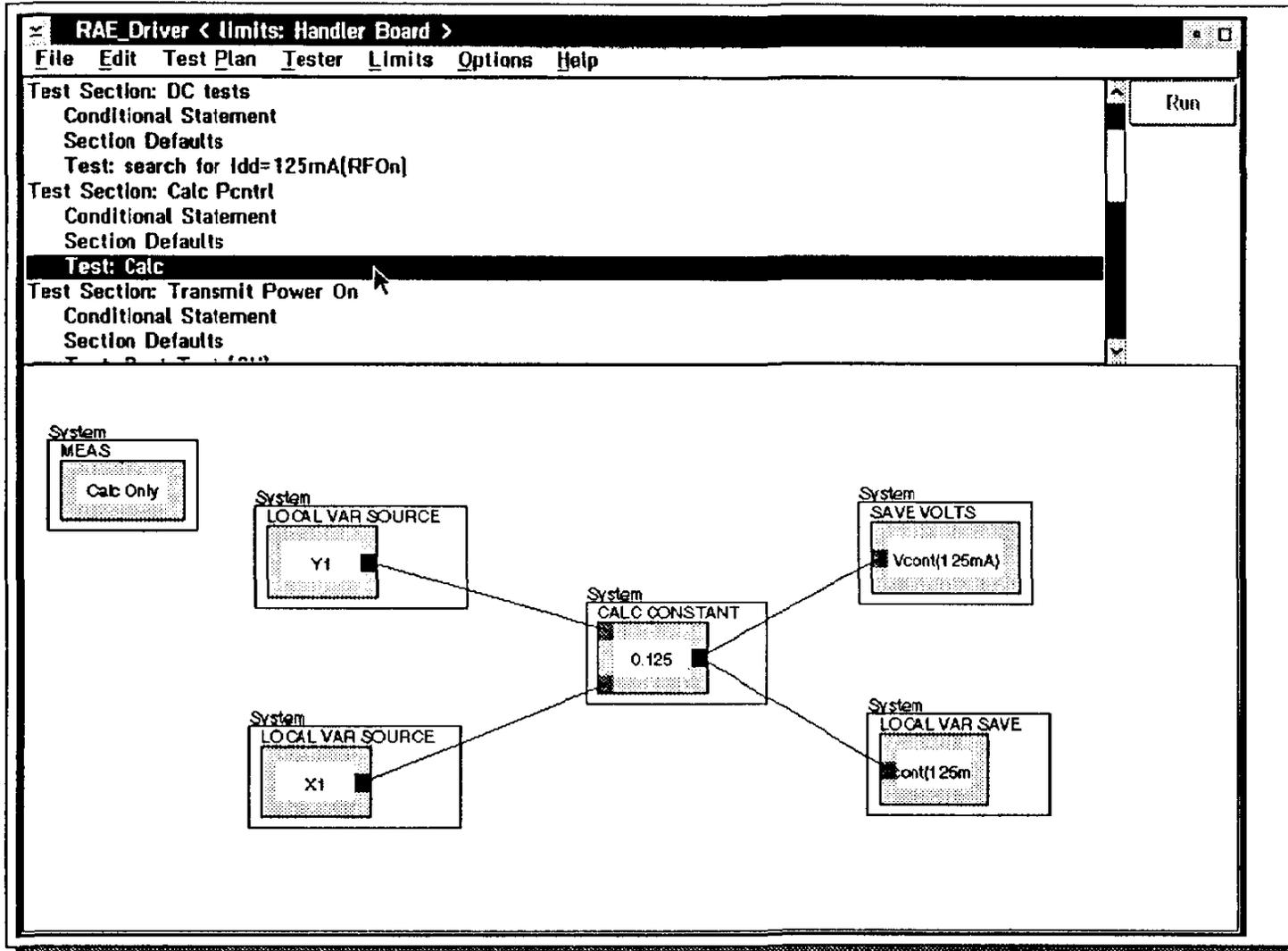
Testhead

- REC ATTENUATION: 40db

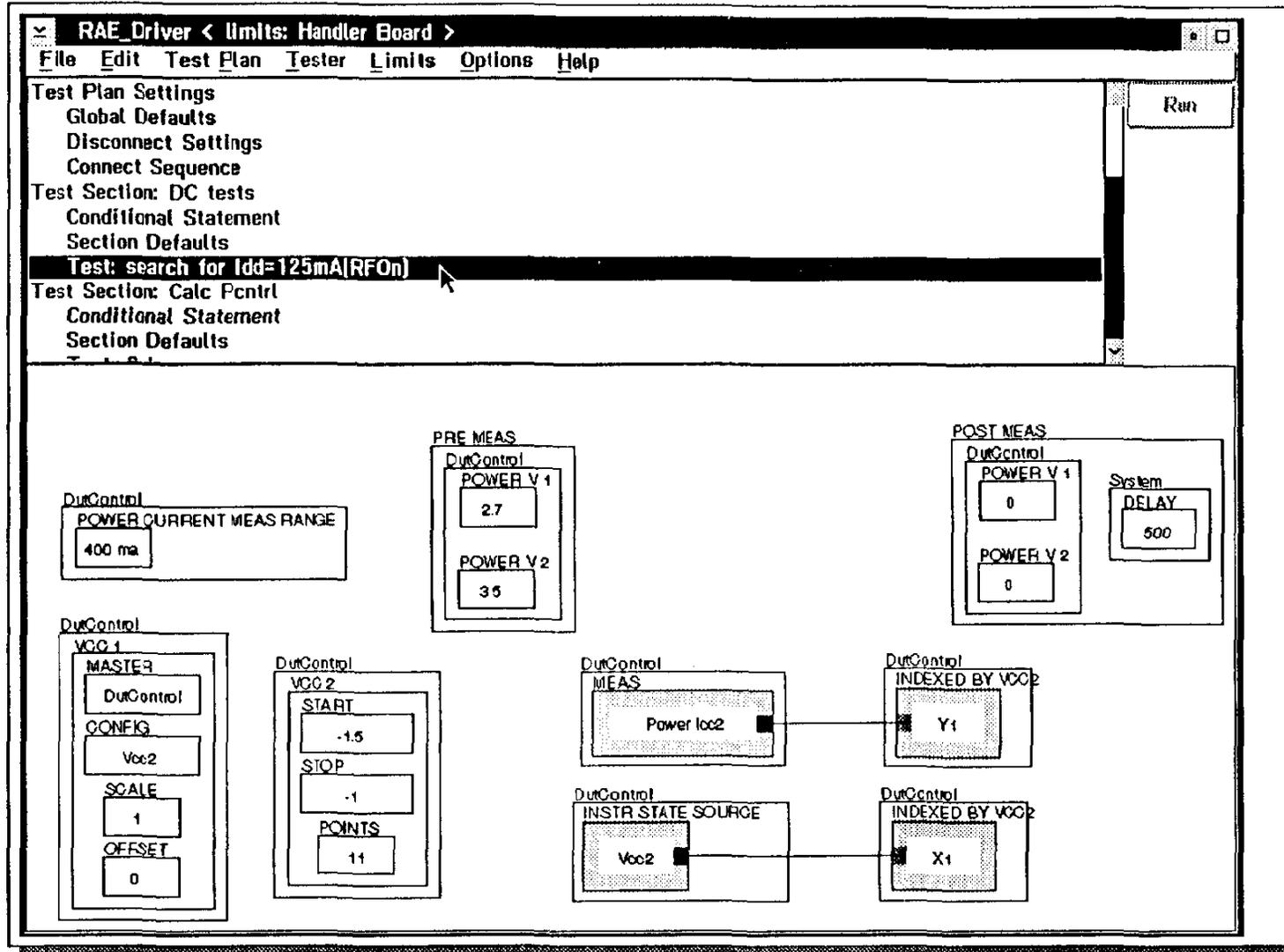
REA Driver Test Plan - Disconnect Settings



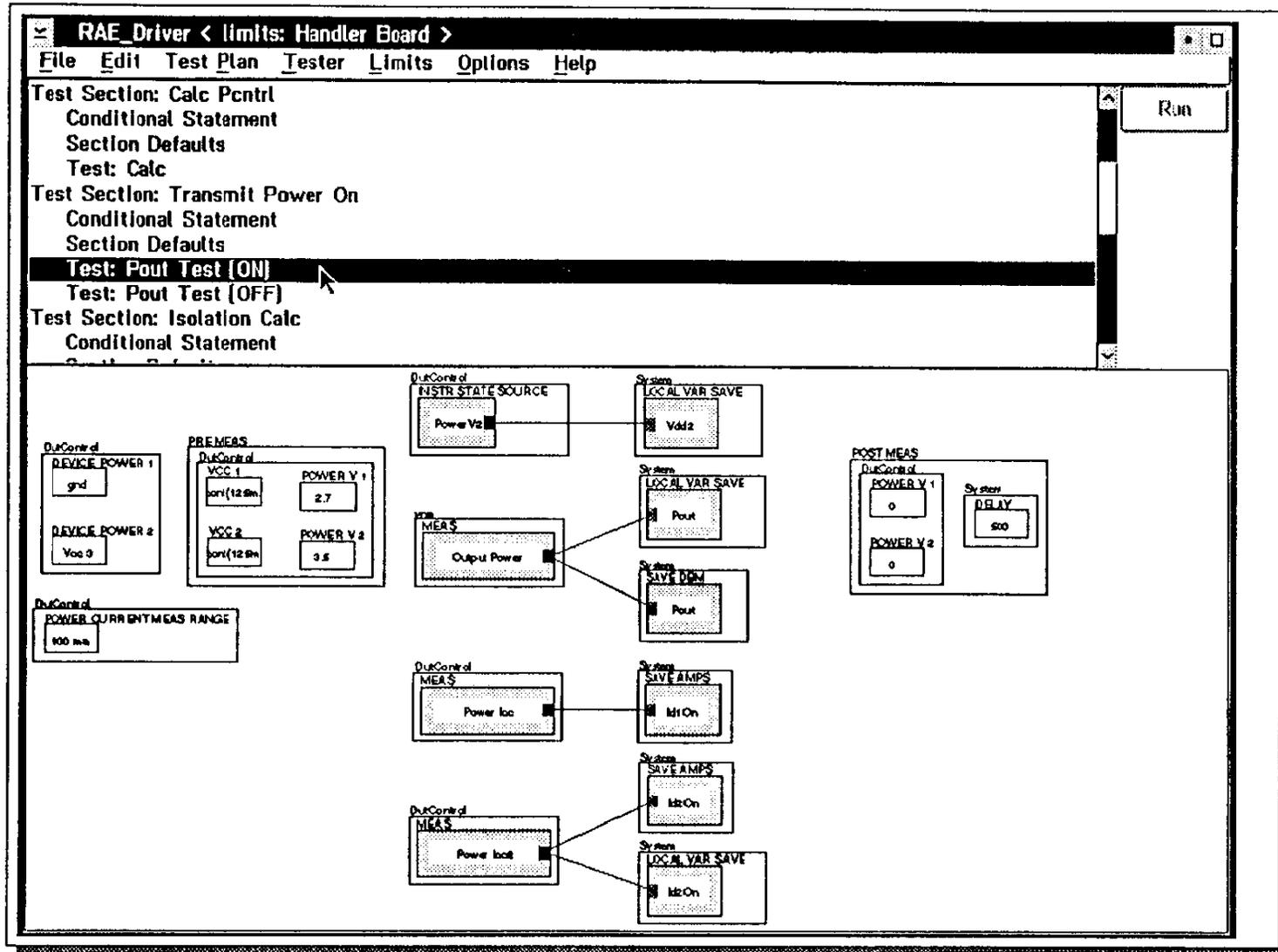
REA Driver Test Plan - Calculate Control Voltage (Vcont(125mA))



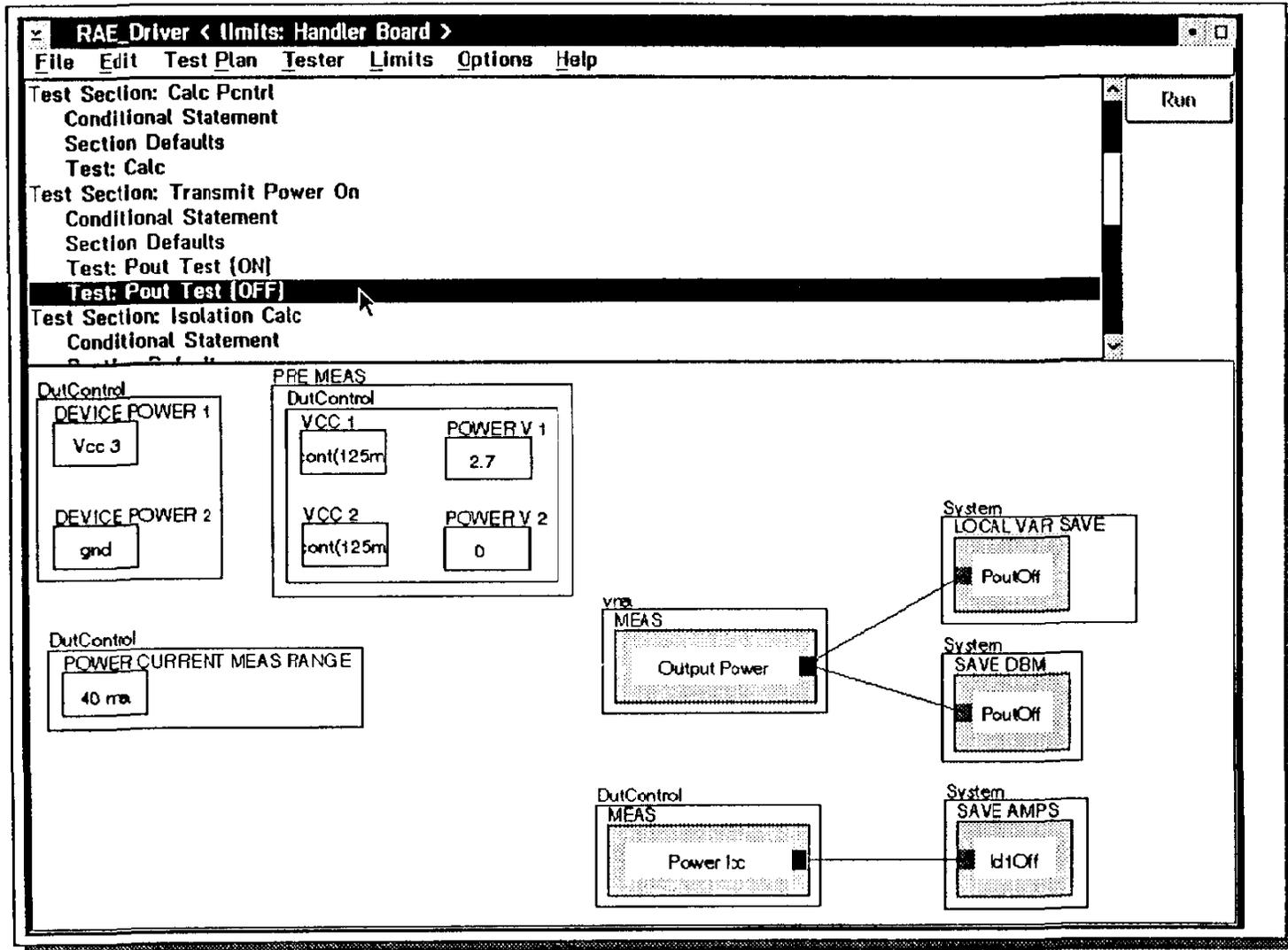
REA Driver Test Plan - Test: Search for I_{dd} = 125 mA (RF On)



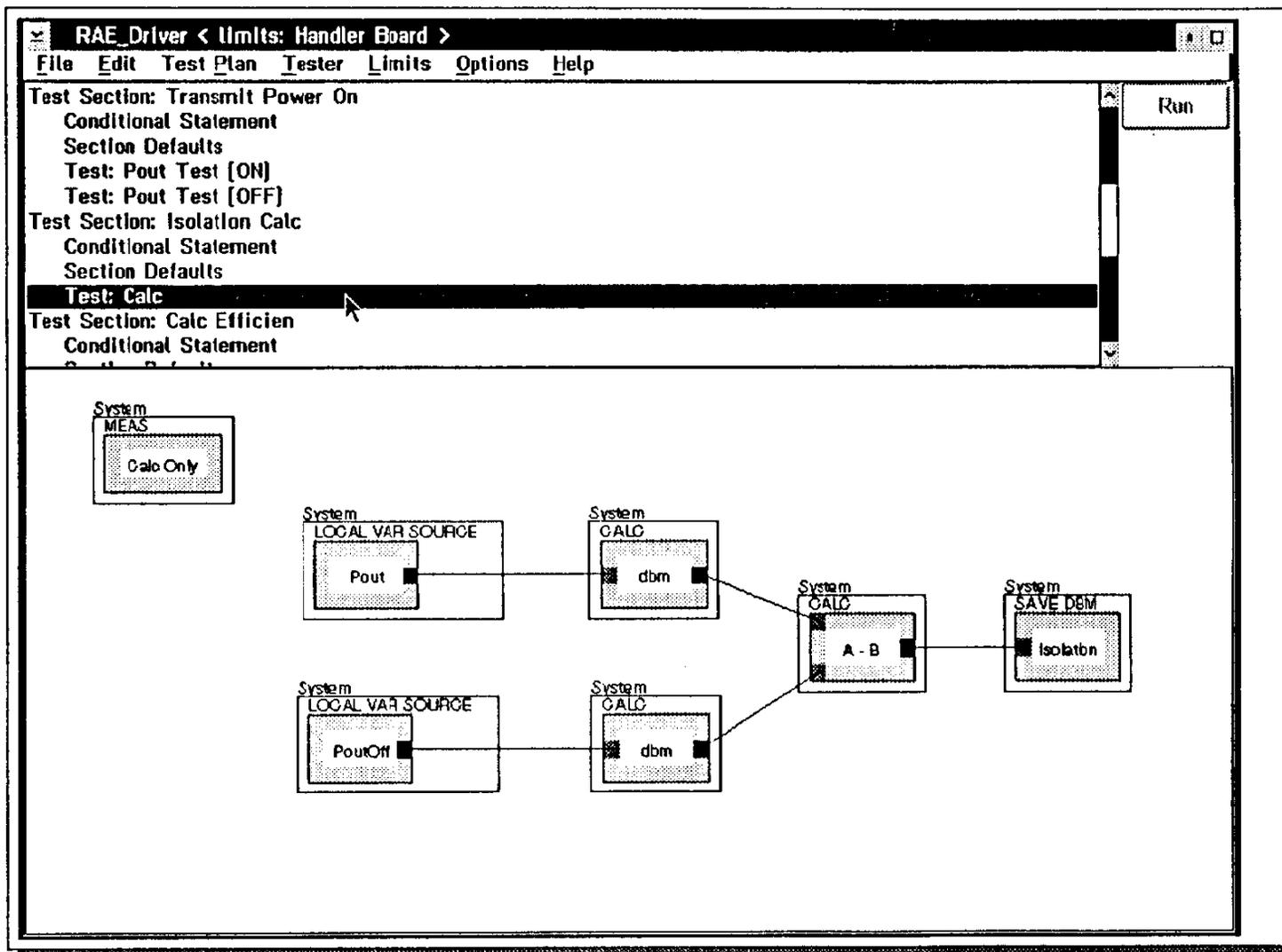
REA Driver Test Plan - Test Panel: Pout Test (ON)



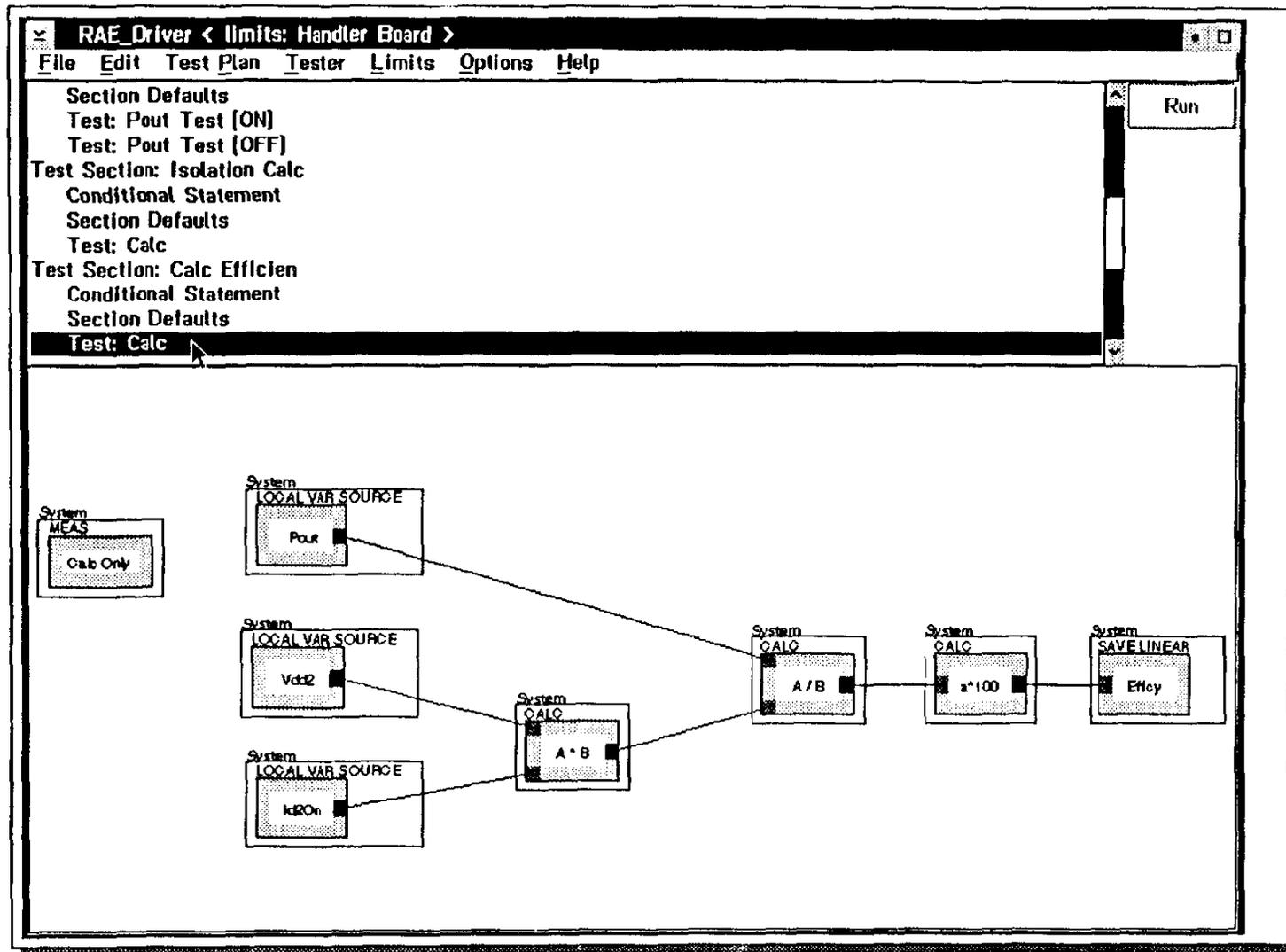
REA Driver Test Plan - Test Panel: Pout Test (OFF)



REA Driver Test Plan - Test Panel: Calculating Isolation



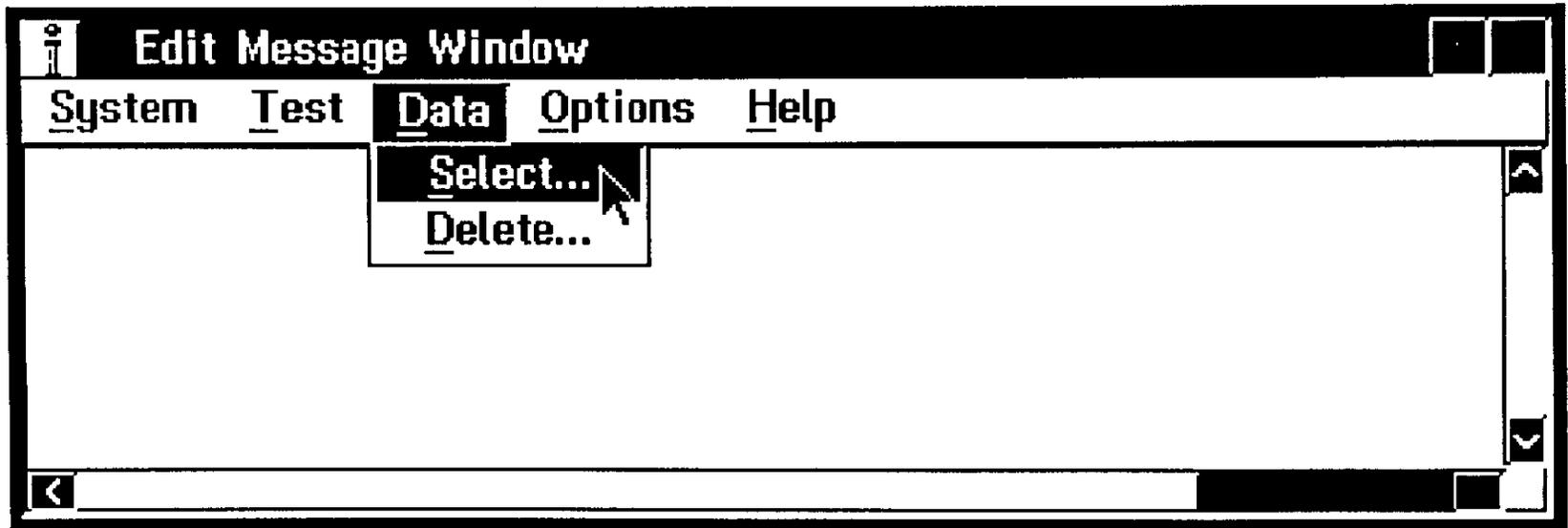
REA Driver Test Plan - Calculating Efficiency



Local SQL Data Base Tools

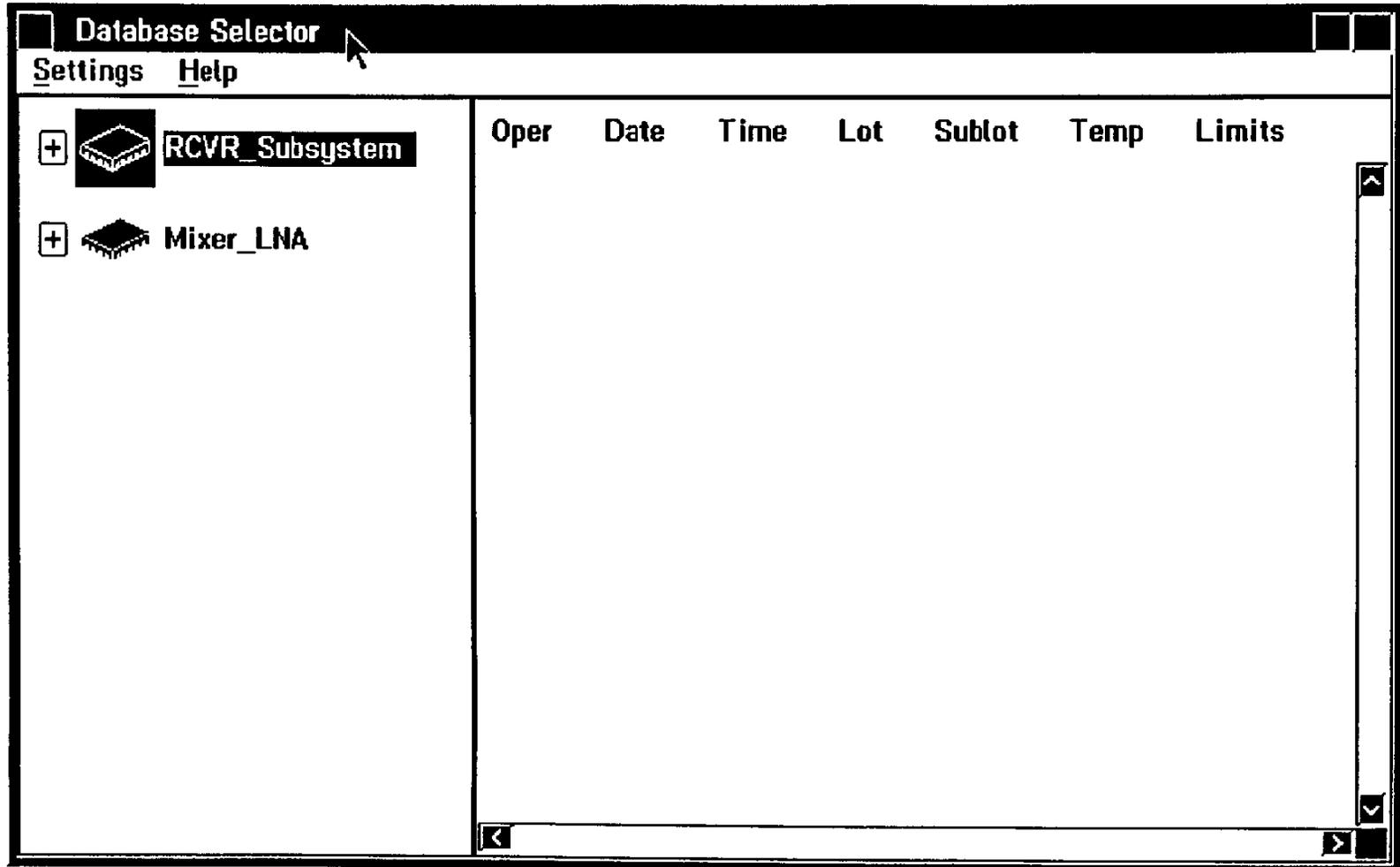


Opening the Data Base Selector Window

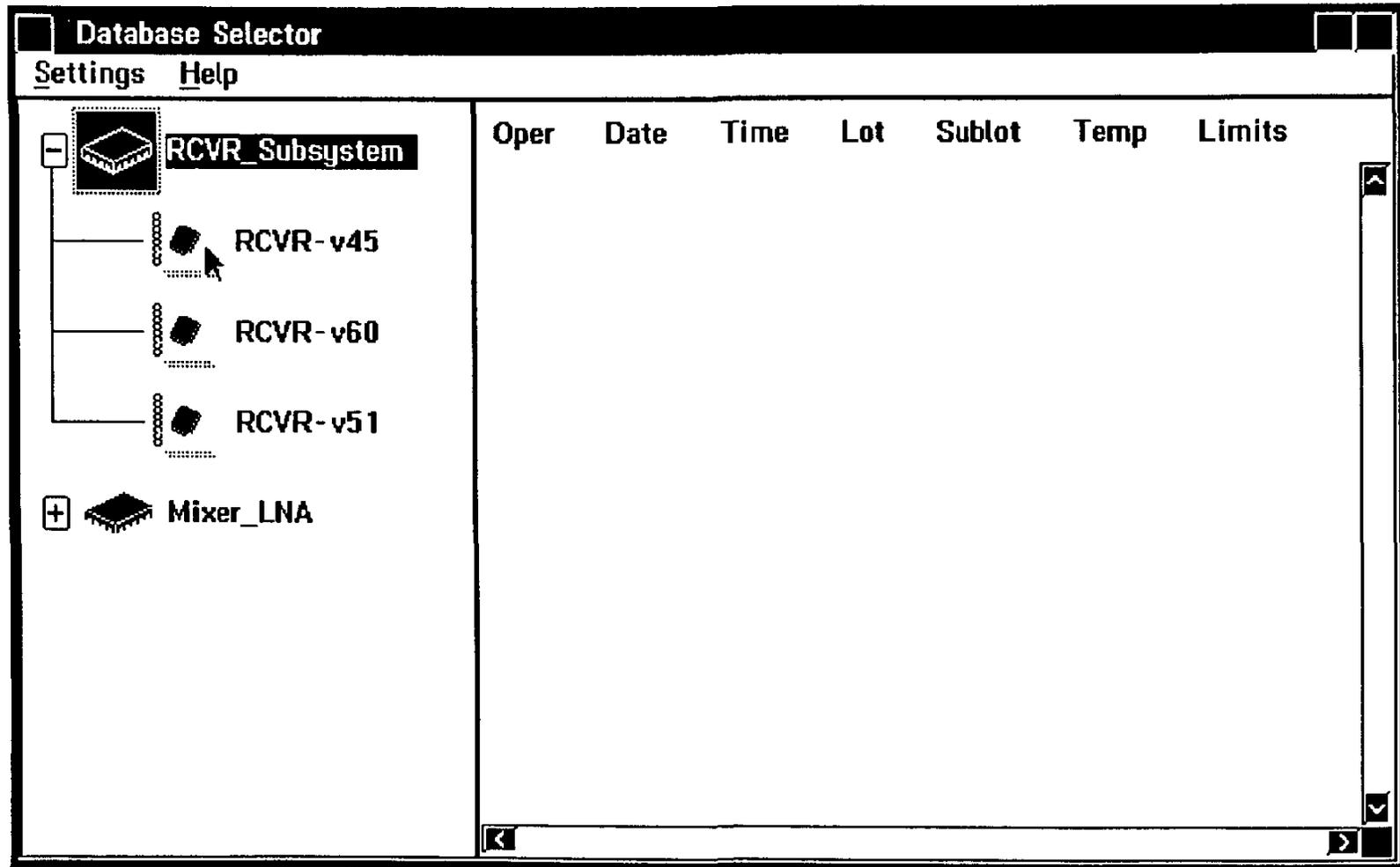


Data Base Selector Window

.....



Selecting a DUT and Test Plan



Selecting the Lot(s) & Sublot(s)

.....

The screenshot shows a 'Database Selector' window with a menu bar containing 'Settings' and 'Help'. On the left is a tree view with a minus sign icon and the following items:

- RCVR_Subsystem
 - RCVR-v45 (highlighted)
 - RCVR-v60
 - RCVR-v51
- Mixer_LNA (with a plus sign icon)

On the right is a table with the following data:

Oper	Date	Time	Lot	Sublot	Test
JAB	9-17-1993	10.07.46 AM	7611	TM45V45	
JAB	9-17-1993	10.07.07 AM	7611	TDV45	
JAB	9-17-1993	10.06.15 AM	7611	T110V45	
JAB	9-17-1993	10.06.10 AM	7611	T85V45	
JAB	9-17-1993	10.04.01 AM	7611	T60V45	
JAB	9-17-1993	10.03.42 AM	7611	T27V45	

Opening the Data Selection Window

The screenshot shows a software window titled "Database Selector" with a menu bar containing "Settings" and "Help". On the left is a tree view with a minus sign icon and the following items:

- RCVR_Subsystem
 - RCVR-v45
 - RCVR-v60
 - RCVR-v51
- Mixer_LNA (with a plus sign icon)

On the right is a table with the following data:

Oper	Date	Time	Lot	Sublot	Te
JAB	9-17-1993	10.07.46 A	Export	45	
JAB	9-17-1993	10.07.07 A	View		
JAB	9-17-1993	10.06.15 A	Edit Selection	45	
JAB	9-17-1993	10.06.10 AM	7611	T85V45	
JAB	9-17-1993	10.04.01 AM	7611	T60V45	
JAB	9-17-1993	10.03.42 AM	7611	T27V45	

A context menu is open over the table, showing the options: "Export", "View", and "Edit Selection". The "Edit Selection" option is highlighted by the mouse cursor.

Selecting the Pass/Fail Filter

.....

Data Selection

Test Plan

Device Number	Test Plan
RCVR_Subsys	RCVR-v45
Mixer_LNA	RCVR-v60
	RCVR-v51

Pass/Fail

Flag:

Test Name:

Lots

Date	Time	Lot:Sublot	[/Temp]
[09-17-93	10.07]	<7611	: TM45V45
[09-17-93	10.07]	<7611	: TOV45>
[09-17-93	10.06]	<7611	: TOV45>
[09-17-93	10.06]	<7611	: T110V45
[09-17-93	10.06]	<7611	: T85V45>
[09-17-93	10.04]	<7611	: T60V45>

Filter

mon-dd-yy

After:

Before:

Exclude retests

Viewing the Lot(s) & Sublot(s) Selected

The screenshot shows the 'Database Selector' application window. On the left is a tree view with the following structure:

- RCVR_Subsystem
 - RCVR-v45
 - RCVR-v60
 - RCVR-v51
- + Mixer_LNA

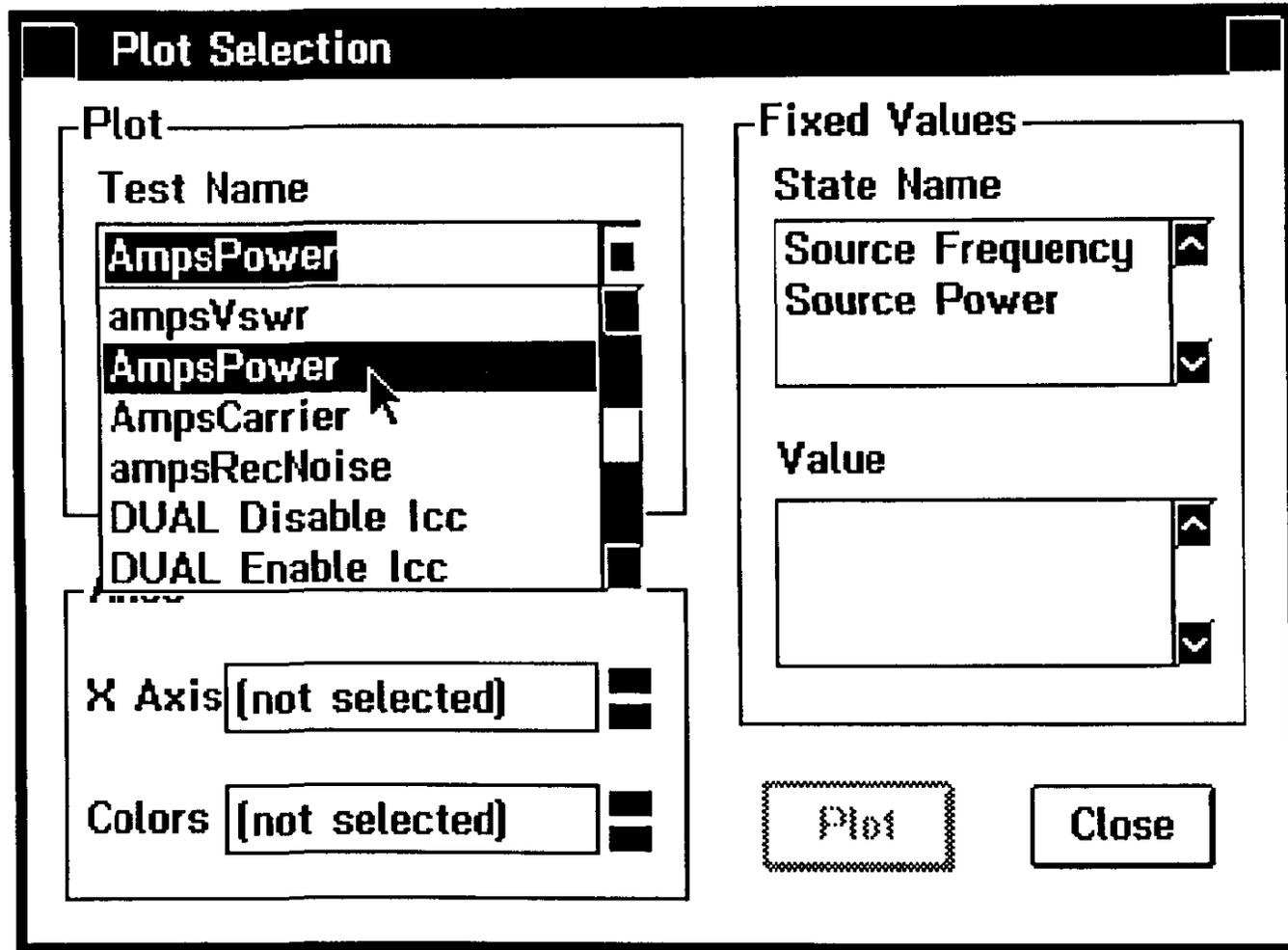
On the right is a table with the following data:

Oper	Date	Time	Lot	Sublot	Te
JAB	9-17-1993	10.07.46 AM			15
JAB	9-17-1993	10.07.07 AM			
JAB	9-17-1993	10.06.15 AM			5
JAB	9-17-1993	10.06.10 AM	7611	T85V45	
JAB	9-17-1993	10.04.01 AM	7611	T60V45	
JAB	9-17-1993	10.03.42 AM	7611	T27V45	

A context menu is open over the table, showing the following options: Export, View, and Edit Selection. The 'View' option is currently selected.

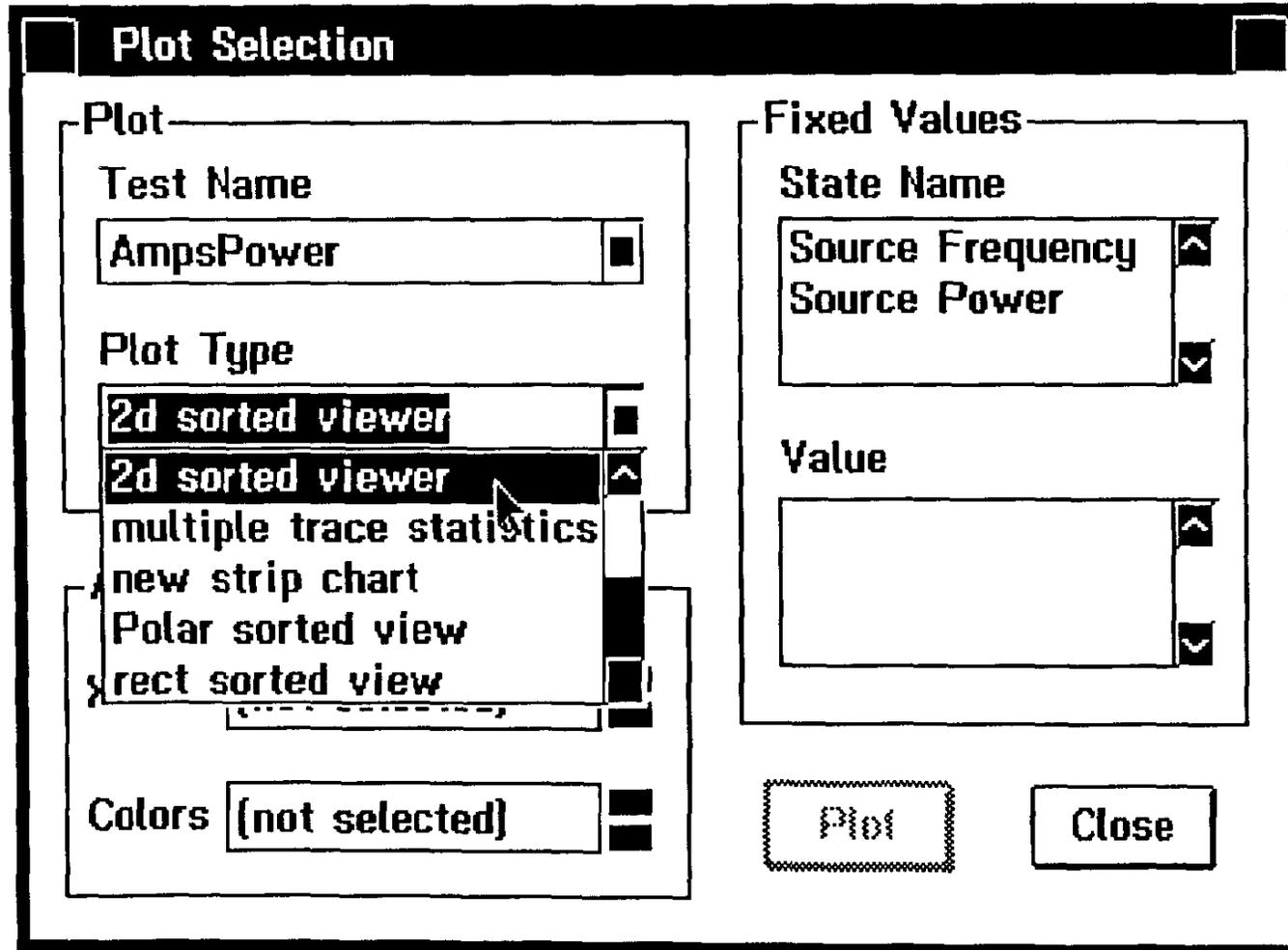
Selecting the Test Name (Data Save Name)

.....



Selecting the Plot Type (Data Viewer)

.....



Selecting the X Axis & Colors Parameters

.....

The image shows a 'Plot Selection' dialog box with the following components:

- Plot Selection** (Title Bar)
- Plot** (Section Header)
 - Test Name: A text box containing 'AmpsPower'.
 - Plot Type: A dropdown menu showing '2d sorted viewer'.
- Axes** (Section Header)
 - X Axis: A text box containing 'Source Frequency'.
 - Colors: A text box containing 'Source Power' with a mouse cursor icon pointing to it.
- Fixed Values** (Section Header)
 - State Name: An empty text box with up and down arrow icons on the right.
 - Value: An empty text box with up and down arrow icons on the right.
- Plot** (Button)
- Close** (Button)

Opening the Data Viewer

.....

Plot Selection

Plot

Test Name
AmpsPower

Plot Type
2d sorted viewer

Axes

X Axis Source Frequency

Colors Source Power

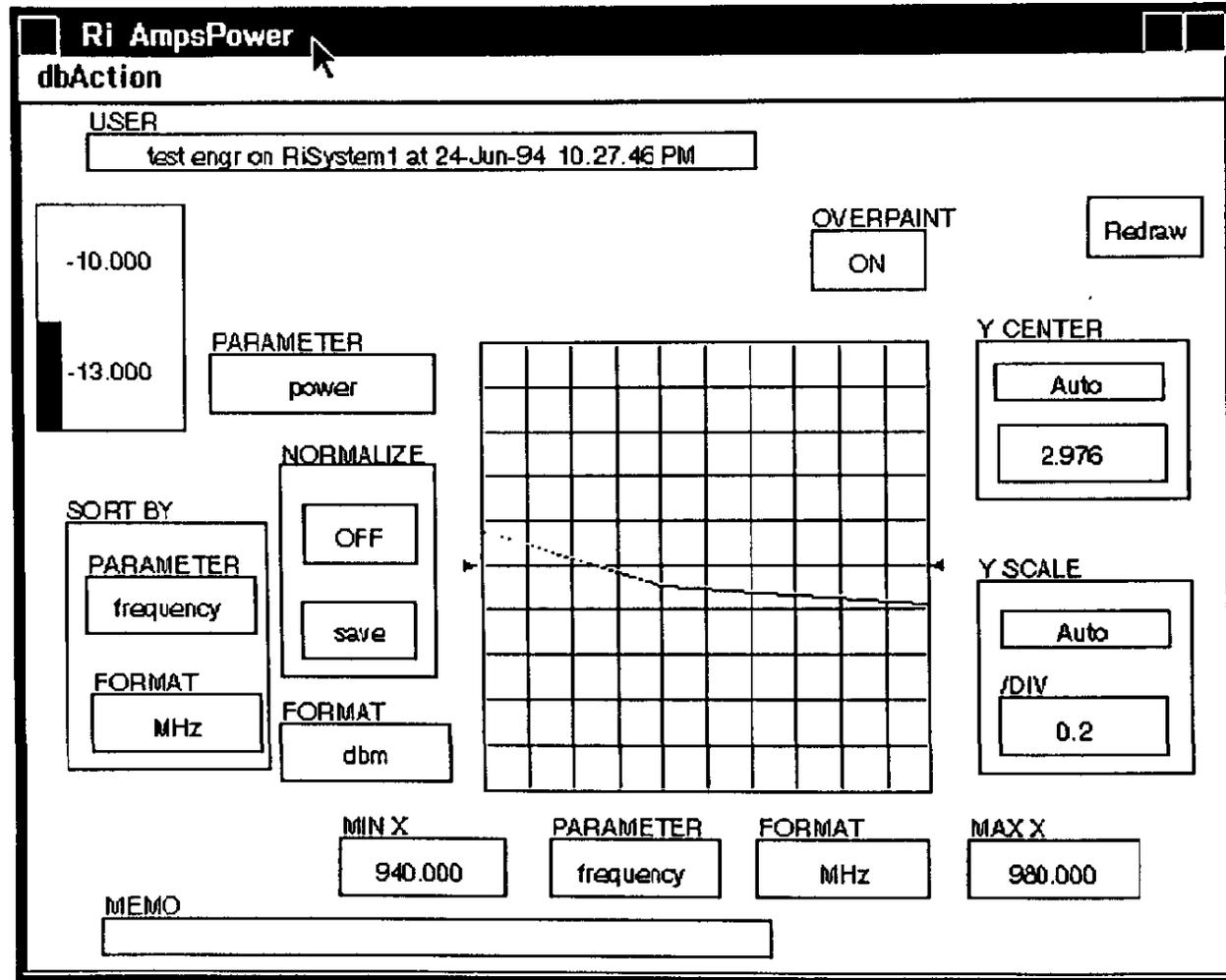
Fixed Values

State Name

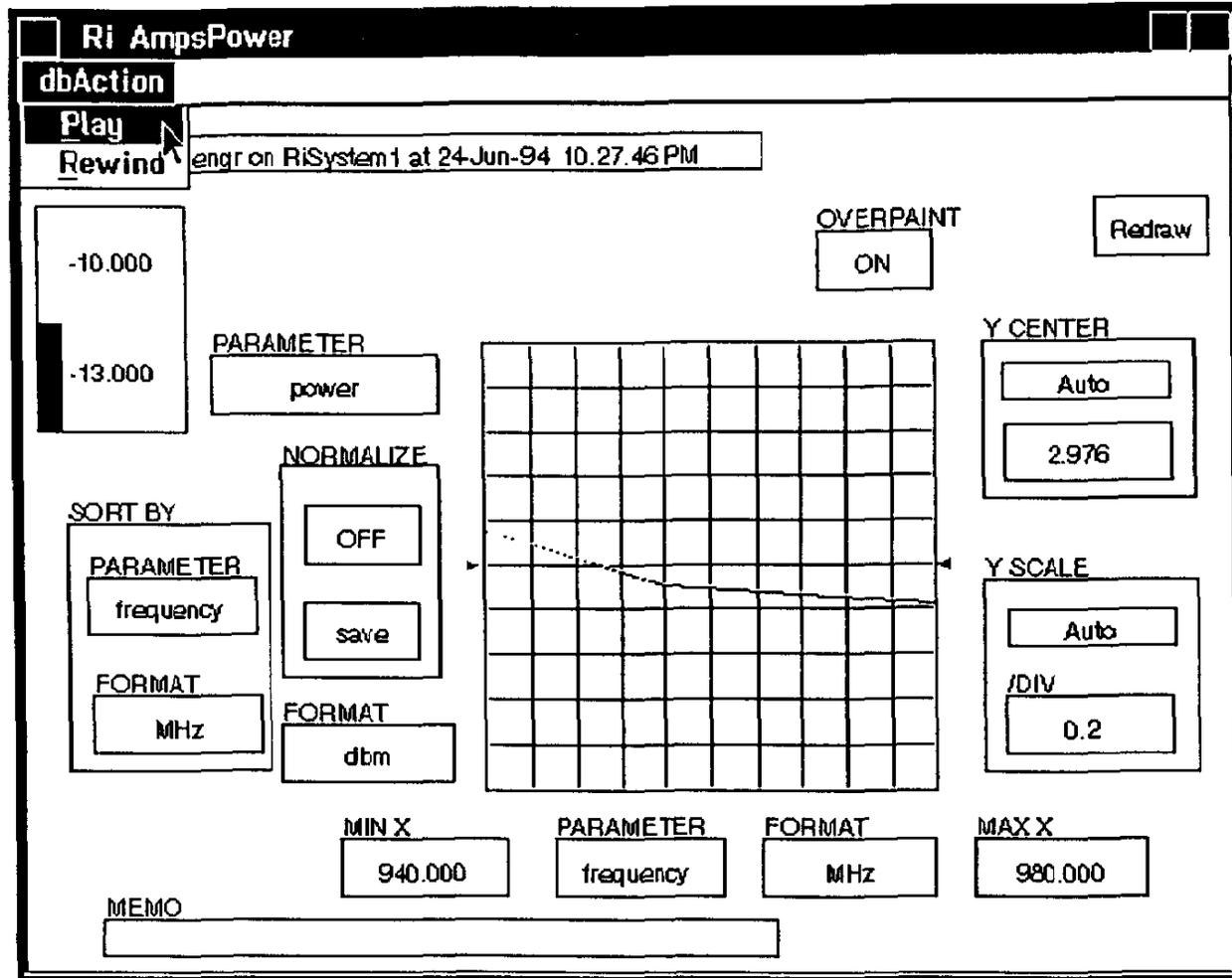
Value

Plot Close

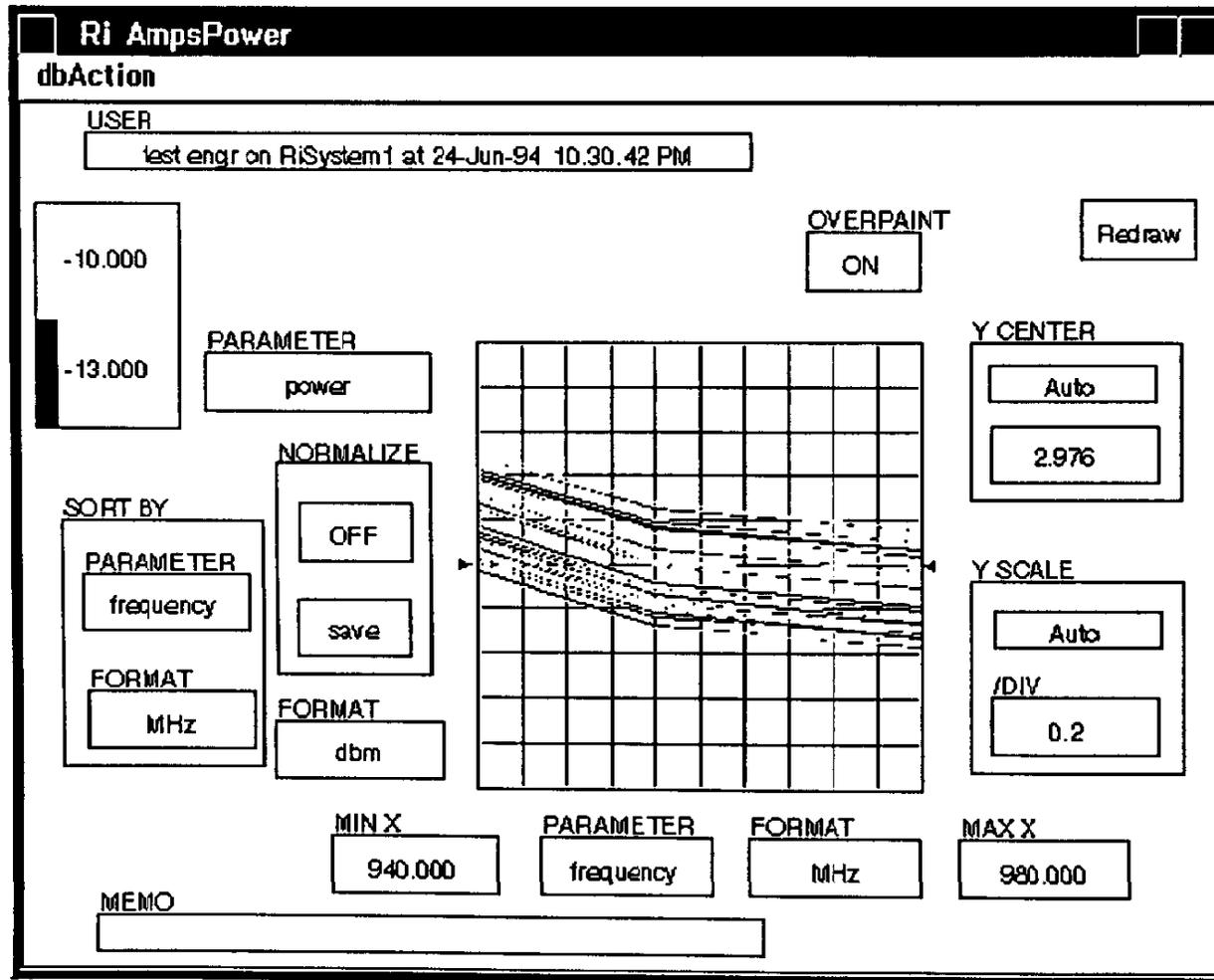
Viewing the Data



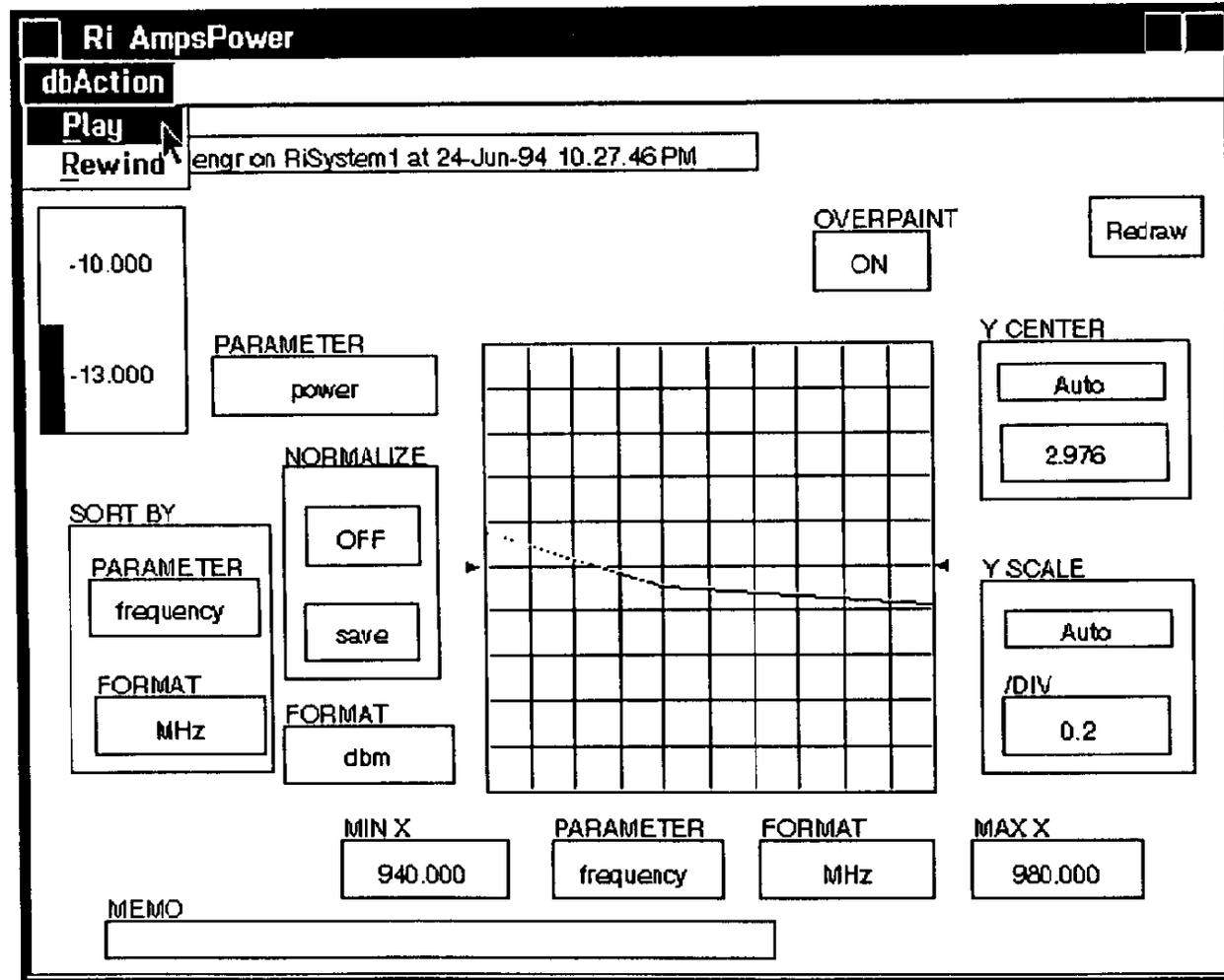
Read the Data from Data Base



Displaying the Data for the Devices Selected

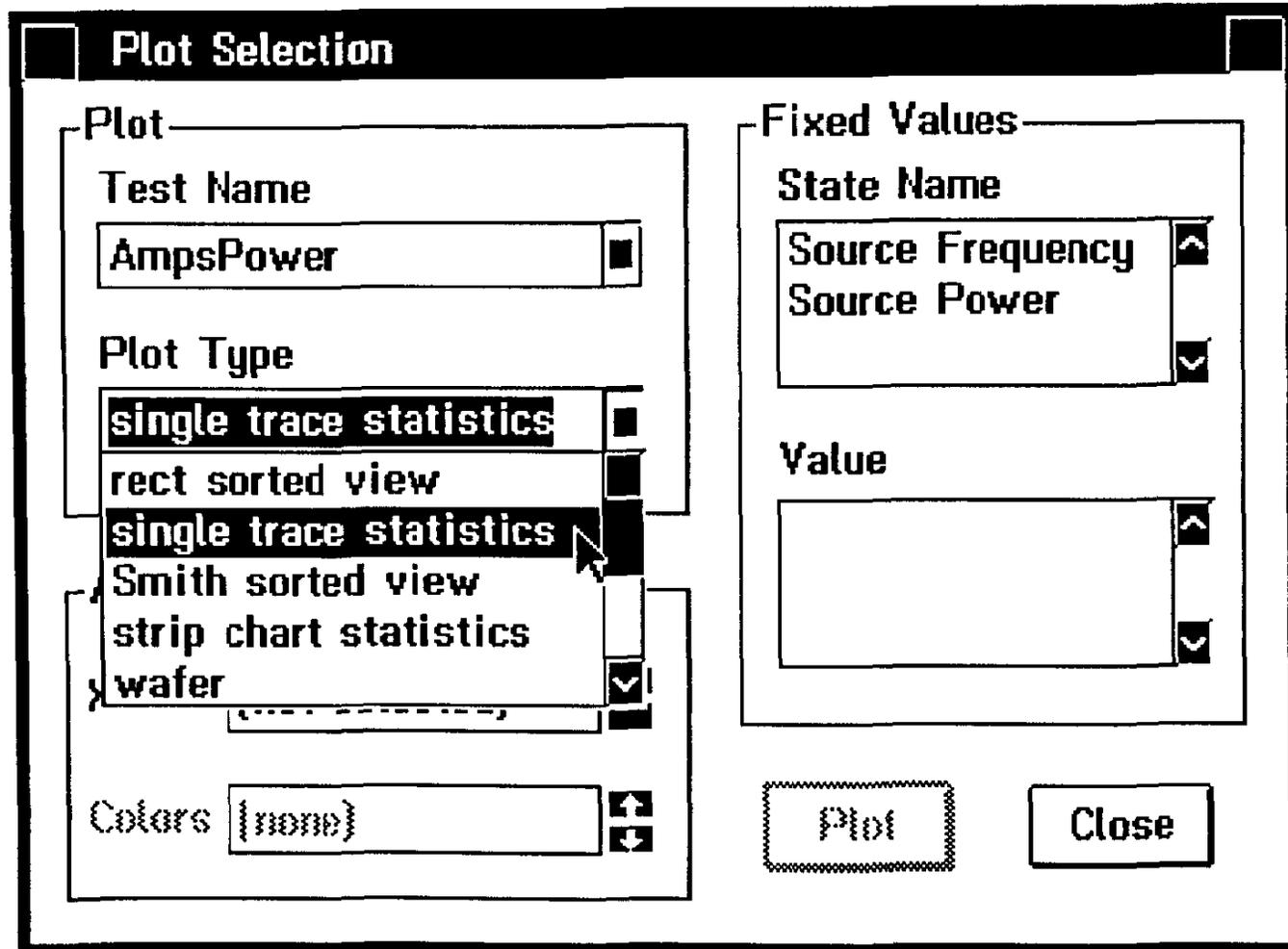


Read the Data from Data Base



Selecting the Plot Type - Single Trace Stats

.....



Selecting the Axes & Fixed Values

.....

Plot Selection

Plot

Test Name
AmpsPower

Plot Type
single trace statistics

Axes

X Axis Source Frequency

Colors (none)

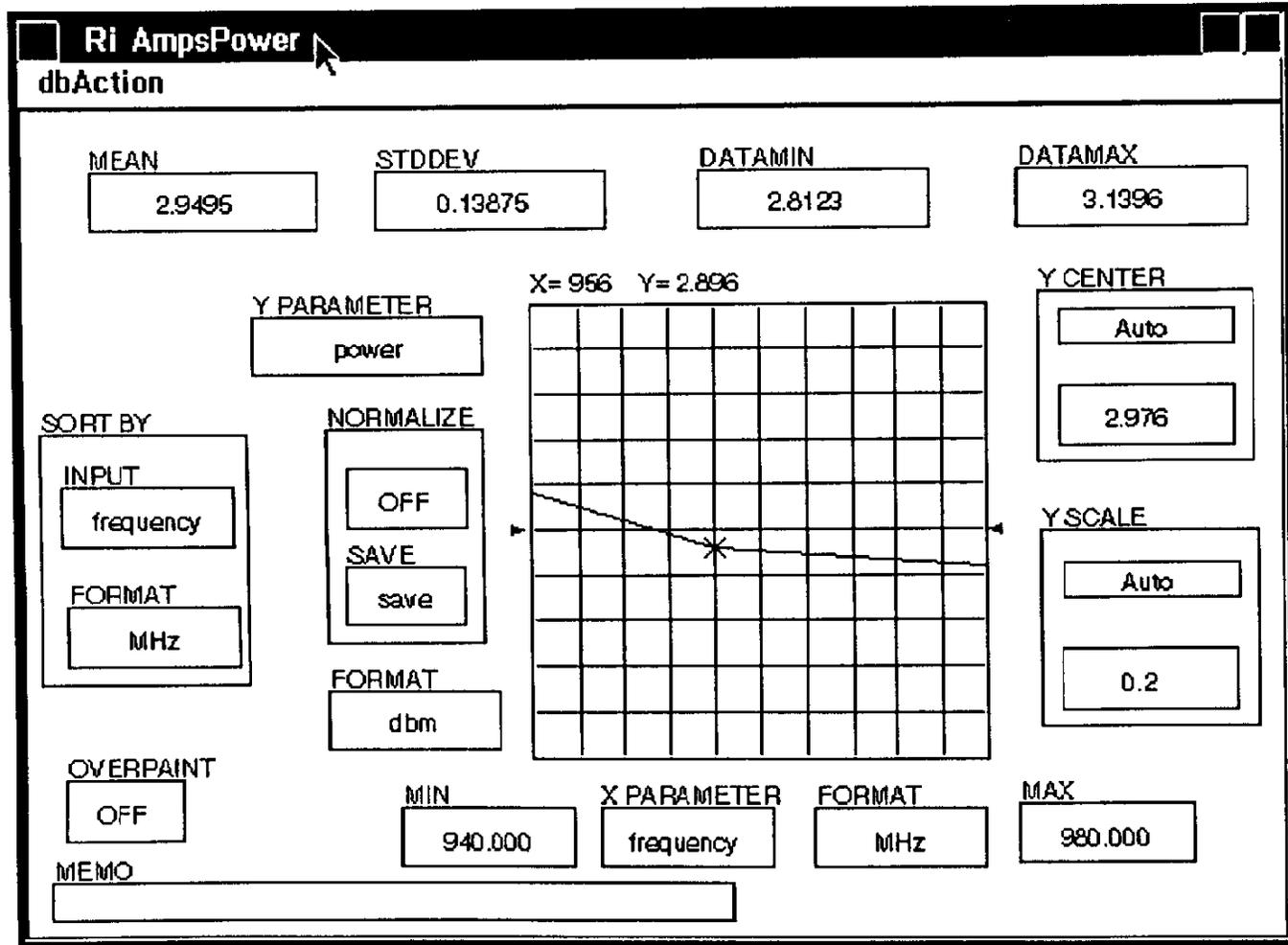
Fixed Values

State Name
Source Power

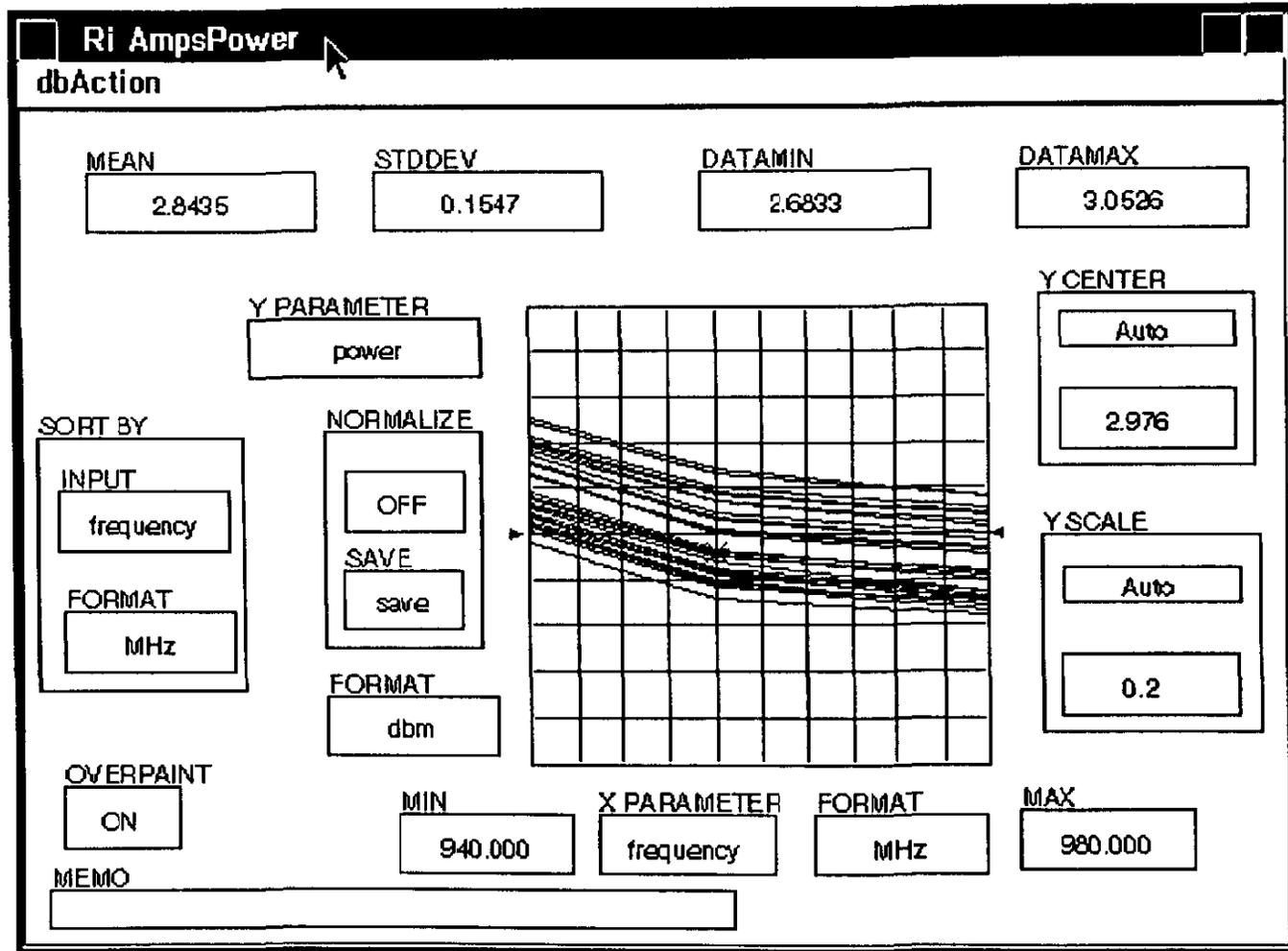
Value
- 13.0
- 10.0

Plot Close

Viewing the 1st Set of Data Selected

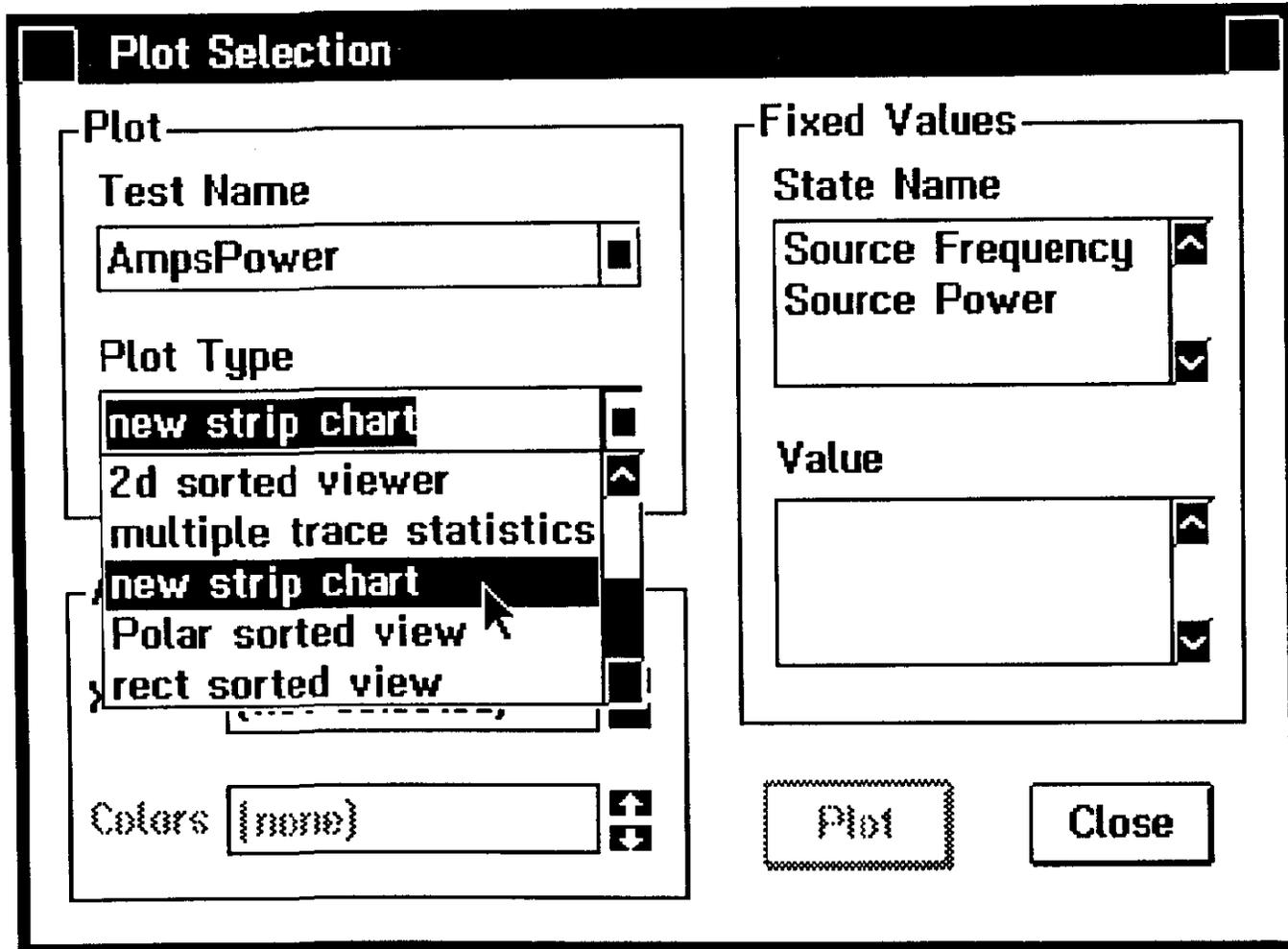


Displaying all of the Data Selected



Selecting the Plot Type - Strip Chart

.....



Selecting the Fixed Values

.....

The image shows a 'Plot Selection' dialog box with the following sections and controls:

- Plot**
 - Test Name: AmpsPower
 - Plot Type: new strip chart
- Axes**
 - X Axis: (not selected)
 - Colors: (none)
- Fixed Values**
 - State Name: Source Frequency (selected), Source Power
 - Value: 940.0, 956.0 (selected), 980.0

Buttons: Plot, Close

Selecting the Fixed Values

.....

Plot Selection

Plot

Test Name
AmpsPower

Plot Type
new strip chart

Axes

X Axis (not selected)

Colors (none)

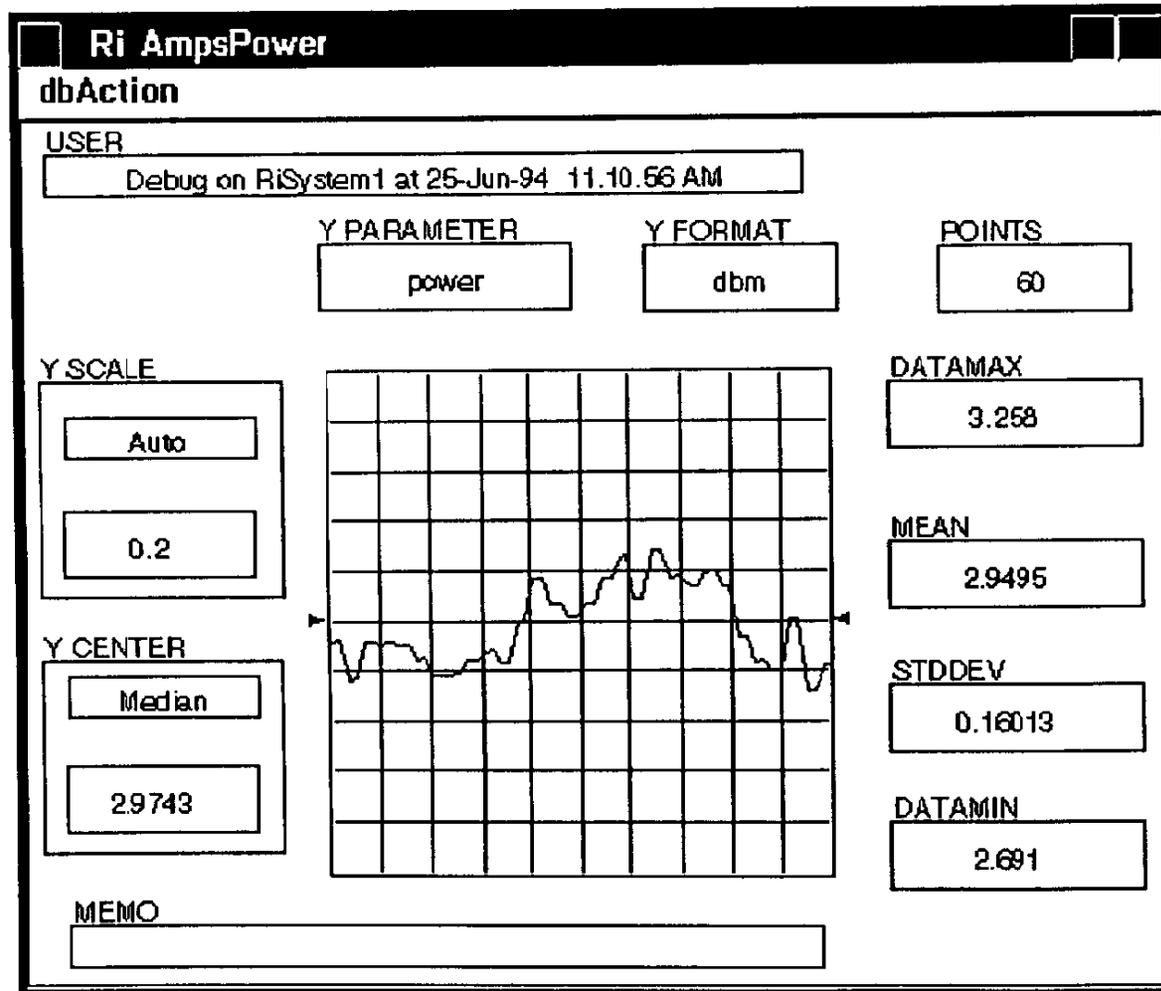
Fixed Values

State Name
Source Frequency
Source Power

Value
-13.0
-10.0

Plot Close

Viewing the Data on a Strip Chart



Exporting Detailed Data

The screenshot shows the 'Database Selector' application window. On the left is a tree view with a minus sign (-) and a plus sign (+). The tree contains 'RCVR_Subsystem' (expanded) and 'Mixer_LNA' (collapsed). Under 'RCVR_Subsystem', there are four sub-items: 'RCVR-v45', 'RCVR-v60', and 'RCVR-v51' (all with minus signs), and 'Mixer_LNA' (with a plus sign). On the right is a table with columns: 'Oper', 'Date', 'Export', 'Details', 'pt', and 'Tel'. The 'Export' column has a right-pointing arrow. A context menu is open over the 'Export' and 'Details' columns, with options: 'Export', 'View', 'Edit Selection', 'Details', 'Statistics', and 'DLIST file'. The 'Details' option is highlighted by the mouse. The table contains five rows of data, all with 'JAB' in the 'Oper' column and '9-17-1993' in the 'Date' column.

Oper	Date	Export	Details	pt	Tel
JAB	9-17-1993	Export	Details	T110V45	
JAB	9-17-1993	View	Statistics	T85V45	
JAB	9-17-1993	Edit Selection	DLIST file	T5	
JAB	9-17-1993	10.06.15 AM	7611	T110V45	
JAB	9-17-1993	10.06.10 AM	7611	T85V45	
JAB	9-17-1993	10.04.01 AM	7611	T60V45	
JAB	9-17-1993	10.03.42 AM	7611	T27V45	

Data Worksheet

The screenshot shows a window titled "JbWorksheet" with a menu bar containing "File", "Options", "Inspect", and "Help". The main area contains a table with 7 columns and 29 rows. The columns are labeled as follows: "1.1.1.1 Sleep ICC", "1.2.1.1 Standby ICC", "1.3.1.1.1 LoBuffer", "1.3.1.1.2 LoBuffer", "1.3.1.2.1 LoBuffer", "1.3.1.2.2 LoBuffer", and "1.3.1.3.1 LoBuffer". The first row of data includes a header for "Frqncy: 900.0, P Frqncy: 900.0, P Frqncy: 970.0, P Frqncy: 970.0, P Frqncy: 1000.0". The rows are labeled "Device: 1" through "Device: 29". The values are in scientific notation, with positive values in the second column and negative values in the other columns.

	1.1.1.1 Sleep ICC	1.2.1.1 Standby ICC	1.3.1.1.1 LoBuffer	1.3.1.1.2 LoBuffer	1.3.1.2.1 LoBuffer	1.3.1.2.2 LoBuffer	1.3.1.3.1 LoBuffer
			Frqncy: 900.0, P	Frqncy: 900.0, P	Frqncy: 970.0, P	Frqncy: 970.0, P	Frqncy: 1000.0, P
Device: 1		0.71622e-2	-18.5982	-18.2146	-17.9589	-17.634	-19.1464
Device: 2		0.70946e-2	-18.6002	-18.2254	-17.9314	-17.5964	-19.0637
Device: 3		0.70946e-2	-18.7284	-18.3636	-18.0569	-17.7346	-19.1877
Device: 4		0.70946e-2	-18.6373	-18.2692	-17.9543	-17.6226	-19.1066
Device: 5		0.71622e-2	-18.4354	-18.089	-17.7702	-17.4532	-18.8746
Device: 6		0.72297e-2	-18.6753	-18.3095	-17.9998	-17.679	-19.1468
Device: 7		0.71622e-2	-18.5159	-18.1404	-17.8544	-17.5311	-18.9793
Device: 8		0.72297e-2	-18.4823	-18.1271	-17.8123	-17.4979	-18.9404
Device: 9		0.70946e-2	-18.5698	-18.2184	-17.9055	-17.5916	-19.0617
Device: 10		0.72297e-2	-18.5135	-18.1615	-17.8577	-17.5425	-18.9905
Device: 11		0.72973e-2	-18.5039	-18.1412	-17.861	-17.5378	-19.0056
Device: 12		0.72297e-2	-18.4216	-18.071	-17.7437	-17.4429	-18.8786
Device: 13		0.73649e-2	-18.3786	-18.0268	-17.6976	-17.3848	-18.8785
Device: 14		0.71622e-2	-18.4613	-18.1399	-17.7891	-17.4973	-18.9804
Device: 15		0.70946e-2	-18.5856	-18.2635	-17.9072	-17.6205	-19.1032
Device: 16		0.70946e-2	-18.5442	-18.2156	-17.8665	-17.5715	-19.0557
Device: 17		0.75e-2	-18.1762	-17.8197	-17.4968	-17.1769	-18.6478
Device: 18		0.73649e-2	-18.3164	-17.9602	-17.6425	-17.3325	-18.7849
Device: 19		0.72297e-2	-18.3722	-18.0363	-17.7259	-17.4152	-18.8727
Device: 20		0.73649e-2	-18.3299	-17.9937	-17.633	-17.3392	-18.7868
Device: 21		0.74324e-2	-18.1016	-17.7367	-17.4186	-17.0929	-18.5612
Device: 22		0.72973e-2	-18.4073	-18.0688	-17.7318	-17.44	-18.8876
Device: 23		0.72973e-2	-18.4205	-18.0965	-17.735	-17.4421	-18.9068
Device: 24		0.72973e-2	-18.2567	-17.9424	-17.5895	-17.3175	-18.7646
Device: 25		0.72297e-2	-18.4621	-18.1223	-17.7829	-17.4869	-18.9112
Device: 26		0.72297e-2	-18.4936	-18.1572	-17.8268	-17.5265	-18.9481
Device: 27		0.72297e-2	-18.5722	-18.2385	-17.9134	-17.621	-19.047
Device: 28		0.72973e-2	-18.348	-18.014	-17.6539	-17.3629	-18.758
Device: 29		0.71622e-2	-18.5686	-18.2079	-17.8737	-17.5534	-19.0019

Saving the Exported Data

	1.2.1.1	1.3.1.1.1	1.3.1.1.2	1.3.1.2.1	1.3.1.2.2	1.3.1.3.1
	Standby ICC	LoBuffer	LoBuffer	LoBuffer	LoBuffer	LoBuffer
		Frqncy: 900.0, P	Frqncy: 900.0, P	Frqncy: 970.0, P	Frqncy: 970.0, P	Frqncy: 10
Device: 1	0.71622e-2	-18.5982	-18.2146	-17.9689	-17.634	-19.1464
Device: 2	0.70946e-2	-18.6002	-18.2254	-17.9314	-17.5964	-19.0637
Device: 3	0.70946e-2	-18.7284	-18.3636	-18.0569	-17.7346	-19.1877
Device: 4	0.70946e-2	-18.6373	-18.2692	-17.9543	-17.6226	-19.1066
Device: 5	0.71622e-2	-18.4354	-18.089	-17.7702	-17.4532	-18.8746
Device: 6	0.72297e-2	-18.6753	-18.3095	-17.9998	-17.679	-19.1468
Device: 7	0.71622e-2	-18.5159	-18.1404	-17.8544	-17.5311	-18.9793
Device: 8	0.72297e-2	-18.4823	-18.1271	-17.8123	-17.4979	-18.9404
Device: 9	0.70946e-2	-18.5698	-18.2184	-17.9055	-17.5916	-19.0617
Device: 10	0.72297e-2	-18.5135	-18.1615	-17.8577	-17.5425	-18.9905
Device: 11	0.72973e-2	-18.5039	-18.1412	-17.861	-17.5378	-19.0056
Device: 12	0.72297e-2	-18.4216	-18.071	-17.7437	-17.4429	-18.8786
Device: 13	0.73649e-2	-18.3786	-18.0268	-17.6976	-17.3848	-18.8785
Device: 14	0.71622e-2	-18.4613	-18.1399	-17.7891	-17.4973	-18.9804
Device: 15	0.70946e-2	-18.5856	-18.2635	-17.9072	-17.6205	-19.1032
Device: 16	0.70946e-2	-18.5442	-18.2156	-17.8665	-17.5715	-19.0557
Device: 17	0.75e-2	-18.1762	-17.8197	-17.4968	-17.1769	-18.6478
Device: 18	0.73649e-2	-18.3164	-17.9602	-17.6425	-17.3325	-18.7849
Device: 19	0.72297e-2	-18.3722	-18.0363	-17.7259	-17.4152	-18.8727
Device: 20	0.73649e-2	-18.3299	-17.9937	-17.633	-17.3392	-18.7868
Device: 21	0.74324e-2	-18.1016	-17.7367	-17.4186	-17.0929	-18.5612
Device: 22	0.72973e-2	-18.4073	-18.0688	-17.7318	-17.44	-18.8876
Device: 23	0.72973e-2	-18.4205	-18.0965	-17.735	-17.4421	-18.9068
Device: 24	0.72973e-2	-18.2557	-17.9424	-17.5895	-17.3175	-18.7646
Device: 25	0.72297e-2	-18.4621	-18.1223	-17.7829	-17.4869	-18.9112
Device: 26	0.72297e-2	-18.4936	-18.1572	-17.8268	-17.5265	-18.9481
Device: 27	0.72297e-2	-18.5722	-18.2385	-17.9134	-17.621	-19.047
Device: 28	0.72973e-2	-18.348	-18.014	-17.6539	-17.3629	-18.758
Device: 29	0.71622e-2	-18.5686	-18.2079	-17.8737	-17.5534	-19.0019

Transpose Worksheet

JbWorksheet							
File	Options	Inspect	Help				
	Font...	1.2.1.1	1.3.1.1.1	1.3.1.1.2	1.3.1.2.1	1.3.1.2.2	1.3.1.3.1
	Transpose	Standby ICC	LoBuffer	LoBuffer	LoBuffer	LoBuffer	LoBuffer
		Frqncy: 900.0, P	Frqncy: 900.0, P	Frqncy: 970.0, P	Frqncy: 970.0, P	Frqncy: 10	
Device: 1	0.71622e-2	-18.5982	-18.2146	-17.9689	-17.634	-19.1464	
Device: 2	0.70946e-2	-18.6002	-18.2254	-17.9314	-17.5964	-19.0637	
Device: 3	0.70946e-2	-18.7284	-18.3636	-18.0569	-17.7346	-19.1877	
Device: 4	0.70946e-2	-18.6373	-18.2692	-17.9543	-17.6226	-19.1066	
Device: 5	0.71622e-2	-18.4354	-18.089	-17.7702	-17.4532	-18.8746	
Device: 6	0.72297e-2	-18.6753	-18.3095	-17.9998	-17.679	-19.1468	
Device: 7	0.71622e-2	-18.5159	-18.1404	-17.8544	-17.5311	-18.9793	
Device: 8	0.72297e-2	-18.4823	-18.1271	-17.8123	-17.4979	-18.9404	
Device: 9	0.70946e-2	-18.5698	-18.2184	-17.9055	-17.5916	-19.0617	
Device: 10	0.72297e-2	-18.5135	-18.1615	-17.8577	-17.5425	-18.9905	
Device: 11	0.72973e-2	-18.5039	-18.1412	-17.861	-17.5378	-19.0056	
Device: 12	0.72297e-2	-18.4216	-18.071	-17.7437	-17.4429	-18.8786	
Device: 13	0.73649e-2	-18.3786	-18.0268	-17.6976	-17.3848	-18.8785	
Device: 14	0.71622e-2	-18.4613	-18.1399	-17.7891	-17.4973	-18.9804	
Device: 15	0.70946e-2	-18.5856	-18.2635	-17.9072	-17.6205	-19.1032	
Device: 16	0.70946e-2	-18.5442	-18.2156	-17.8665	-17.5715	-19.0557	
Device: 17	0.75e-2	-18.1762	-17.8197	-17.4968	-17.1769	-18.6478	
Device: 18	0.73649e-2	-18.3164	-17.9602	-17.6425	-17.3325	-18.7849	
Device: 19	0.72297e-2	-18.3722	-18.0363	-17.7259	-17.4152	-18.8727	
Device: 20	0.73649e-2	-18.3299	-17.9937	-17.633	-17.3392	-18.7868	
Device: 21	0.74324e-2	-18.1016	-17.7367	-17.4186	-17.0929	-18.5612	
Device: 22	0.72973e-2	-18.4073	-18.0688	-17.7318	-17.44	-18.8876	
Device: 23	0.72973e-2	-18.4205	-18.0965	-17.735	-17.4421	-18.9068	
Device: 24	0.72973e-2	-18.2567	-17.9424	-17.5895	-17.3175	-18.7646	
Device: 25	0.72297e-2	-18.4621	-18.1223	-17.7829	-17.4869	-18.9112	
Device: 26	0.72297e-2	-18.4936	-18.1572	-17.8268	-17.5265	-18.9481	
Device: 27	0.72297e-2	-18.5722	-18.2385	-17.9134	-17.621	-19.047	
Device: 28	0.72973e-2	-18.348	-18.014	-17.6539	-17.3629	-18.758	
Device: 29	0.71622e-2	-18.5686	-18.2079	-17.8737	-17.5534	-19.0019	

Transposed Worksheet

JbWorksheet		Device: 1	Device: 2	Device: 3	Device: 4	Device: 5
1.1.1.1	Sleep ICC					
1.2.1.1	Standby ICC	0.71622e-2	0.70946e-2	0.70946e-2	0.70946e-2	0.71622e-2
1.3.1.1.1	LoBuffer	Frcncy: 900.0, P-18.5982	-18.6002	-18.7284	-18.6373	-18.4354
1.3.1.1.2	LoBuffer	Frcncy: 900.0, P-18.2146	-18.2254	-18.3636	-18.2692	-18.089
1.3.1.2.1	LoBuffer	Frcncy: 970.0, P-17.9689	-17.9314	-18.0569	-17.9543	-17.7702
1.3.1.2.2	LoBuffer	Frcncy: 970.0, P-17.634	-17.5964	-17.7346	-17.6226	-17.4532
1.3.1.3.1	LoBuffer	Frcncy: 1040.0, -19.1464	-19.0637	-19.1877	-19.1066	-18.8746
1.3.1.3.2	LoBuffer	Frcncy: 1040.0, -18.8698	-18.7876	-18.9147	-18.8393	-18.6132
2.1.1.1	Mclk1	Pwr: -5.0	0.77908	0.79535	0.85064	0.81186
2.1.1.2	Mclk1	Pwr: 0.0	0.78662	0.80007	0.84906	0.81047
2.2.1.1	Mclk4	Pwr: -5.0	0.93231	0.96858	0.91379	0.92704
2.2.1.2	Mclk4	Pwr: 0.0	0.93264	0.95681	0.91184	0.92586
2.3.1.1	Mclk5	Pwr: -5.0	0.85598	0.87021	0.87205	0.86671
2.3.1.2	Mclk5	Pwr: 0.0	0.85206	0.86481	0.87927	0.86031
2.4.1.1	Clk1By1	Pwr: -5.0	0.792	0.73894	0.8766	0.7937
2.4.1.2	Clk1By1	Pwr: 0.0	0.8048	0.75336	0.87614	0.80728
2.5.1.1	Clk1By3	Pwr: -5.0	1.02352	0.98142	1.06226	1.02212
2.5.1.2	Clk1By3	Pwr: 0.0	1.00371	1.01307	0.99945	0.94765
2.6.1.1	Clk2By1	Pwr: -5.0	0.77873	0.74337	0.89572	0.7778
2.6.1.2	Clk2By1	Pwr: 0.0	0.79635	0.76964	0.87693	0.80253
2.7.1.1	Clk2By2	Pwr: -5.0	1.1306	1.11605	1.14307	1.13488
2.7.1.2	Clk2By2	Pwr: 0.0	1.13208	1.11552	1.14136	1.13326
2.8.1.1	PhaseDet6	Pwr: -5.0	0.53175e-2	0.52266e-2	0.5363e-2	0.53403e-2
2.8.1.2	PhaseDet6	Pwr: 0.0	0.51357e-2	0.51811e-2	0.53403e-2	0.53403e-2
2.9.1.1	PhaseDet7	Pwr: -5.0				
2.9.1.2	PhaseDet7	Pwr: 0.0				
2.10.1.1	PhaseDet8	Pwr: -5.0	0.5363e-2	0.54085e-2	0.5363e-2	0.52039e-2
2.10.1.2	PhaseDet8	Pwr: 0.0	0.51584e-2	0.52266e-2	0.54085e-2	0.54085e-2
2.11.1.1	PhaseDet9	Pwr: -5.0				
2.11.1.2	PhaseDet9	Pwr: 0.0				
3.1.1.1	AMPS Disable ICC		0.02331	0.02324	0.02317	0.02317

Export Statistics Data

The screenshot shows a software window titled "Database Selector" with a menu bar containing "Settings" and "Help". On the left is a tree view with a minus sign icon next to "RCVR_Subsystem" and a plus sign icon next to "Mixer_LNA". Under "RCVR_Subsystem", there are three items: "RCVR-v45", "RCVR-v60", and "RCVR-v51", each with a chip icon. The main area on the right is a table with the following data:

Oper	Date	Export	Details	Ter
JAB	9-17-1993	View	Statistics	V45
JAB	9-17-1993	Edit Selection	DLIST file	5
JAB	9-17-1993	10.06.15 AM	7611	T110V45
JAB	9-17-1993	10.06.10 AM	7611	T85V45
JAB	9-17-1993	10.04.01 AM	7611	T60V45
JAB	9-17-1993	10.03.42 AM	7611	T27V45

A context menu is open over the first row of the table, showing options: "Export" (with a right arrow), "View", and "Edit Selection". The "Statistics" option is highlighted, and a mouse cursor is pointing at it. The "Details" column header is also visible, with "DLIST file" listed below it.

Statistics Data Worksheet

JbWorksheet		File	Options	Inspect	Help	Mean	Std. Dev.	Min	Max	Low Spec	Hi Spec	Cp
1.1.1.1	Sleep ICC					0.25338e-2	0.51606e-4	0.24324e-2	0.26351e-2	0.27e-2	0.41e-2	4.52147
1.2.1.1	Standby ICC					0.7232e-2	0.10392e-3	0.70946e-2	0.75e-2	0.7e-2	0.0106	5.7736
1.3.1.1.1	LoBuffer	Frqncy: 900.0, P-	-18.4677			0.13974		-18.7284	-18.1016	-20.0	-14.0	7.15608
1.3.1.1.2	LoBuffer	Frqncy: 900.0, P-	-18.1192			0.13592		-18.3636	-17.7367	-20.0	-14.0	7.35753
1.3.1.2.1	LoBuffer	Frqncy: 970.0, P-	-17.7959			0.14399		-18.0569	-17.4186	-20.0	-14.0	6.9447
1.3.1.2.2	LoBuffer	Frqncy: 970.0, P-	-17.4871			0.14005		-17.7346	-17.0929	-20.0	-14.0	7.14032
1.3.1.3.1	LoBuffer	Frqncy: 1040.0, -	-18.9426			0.14545		-19.1877	-18.5612	-21.0	-14.0	8.02089
1.3.1.3.2	LoBuffer	Frqncy: 1040.0, -	-18.6892			0.14151		-18.9147	-18.2969	-21.0	-14.0	8.24462
2.1.1.1	Mclk1	Pwr: -5.0	0.82828	0.05836	0.66119	0.93459	0.7	1.4	1.99888			
2.1.1.2	Mclk1	Pwr: 0.0	0.82865	0.05611	0.65972	0.92396	0.7	1.4	2.07901			
2.2.1.1	Mclk4	Pwr: -5.0	0.92366	0.01976	0.89452	0.9937	0.7	1.4	5.90343			
2.2.1.2	Mclk4	Pwr: 0.0	0.92251	0.01900	0.89327	0.99116	0.7	1.4	6.1374			
2.3.1.1	Mclk5	Pwr: -5.0	0.87081	0.03520	0.81404	0.94024	0.7	1.4	3.3141			
2.3.1.2	Mclk5	Pwr: 0.0	0.86965	0.03462	0.81498	0.93032	0.7	1.4	3.36912			
2.4.1.1	Clk1By1	Pwr: -5.0	0.82984	0.04520	0.73354	0.90402	0.7	1.4	2.58101			
2.4.1.2	Clk1By1	Pwr: 0.0	0.83129	0.04070	0.7511	0.89411	0.7	1.4	2.86591			
2.5.1.1	Clk1By3	Pwr: -5.0	0.99927	0.03677	0.90794	1.07452	0.7	1.4	3.17275			
2.5.1.2	Clk1By3	Pwr: 0.0	0.9875	0.03185	0.90437	1.07303	0.7	1.4	3.66286			
2.6.1.1	Clk2By1	Pwr: -5.0	0.82545	0.04611	0.72928	0.89572	0.7	1.4	2.53003			
2.6.1.2	Clk2By1	Pwr: 0.0	0.83002	0.03724	0.7606	0.8891	0.7	1.4	3.13217			
2.7.1.1	Clk2By2	Pwr: -5.0	1.12156	0.01856	1.0844	1.15698	0.7	1.4	6.28287			
2.7.1.2	Clk2By2	Pwr: 0.0	1.122	0.01825	1.08572	1.16212	0.7	1.4	6.39228			
2.8.1.1	PhaseDet6	Pwr: -5.0	0.52516e-2	0.1097e-3	0.49311e-2	0.54312e-2	0.5e-2	0.6e-2	1.51927			
2.8.1.2	PhaseDet6	Pwr: 0.0	0.52675e-2	0.10019e-3	0.5022e-2	0.54312e-2	0.5e-2	0.6e-2	1.66349			
2.9.1.1	PhaseDet7	Pwr: -5.0	0.45083e-2	0.31271e-3	0.42492e-2	0.53403e-2	0.5e-2	0.6e-2	0.53298			
2.9.1.2	PhaseDet7	Pwr: 0.0	0.44984e-2	0.2834e-3	0.42492e-2	0.52721e-2	0.5e-2	0.6e-2	0.5881			
2.10.1.1	PhaseDet8	Pwr: -5.0	0.526e-2	0.1169e-3	0.49538e-2	0.54539e-2	0.5e-2	0.6e-2	1.42566			
2.10.1.2	PhaseDet8	Pwr: 0.0	0.52986e-2	0.1126e-3	0.5022e-2	0.54539e-2	0.5e-2	0.6e-2	1.48011			
2.11.1.1	PhaseDet9	Pwr: -5.0	0.4728e-2	0.20433e-3	0.4431e-2	0.53403e-2	0.5e-2	0.6e-2	0.81569			
2.11.1.2	PhaseDet9	Pwr: 0.0	0.47318e-2	0.20615e-3	0.44992e-2	0.52948e-2	0.5e-2	0.6e-2	0.80847			
3.1.1.1	AMPS Disable ICC		0.02371	0.31426e-3	0.02317	0.02439	0.023	0.0356	6.68237			



Other Data Selector Settings

.....

The screenshot shows a software window titled "Database Selector". It has a menu bar with "Settings" and "Help". Under "Settings", there are two checked options: "Exclude retests" and "Group lot names". A mouse cursor is pointing at the "Group lot names" option, which has a dropdown menu open showing "system".

Below the settings, there is a tree view of components. The "RCVR-v45" component is selected and highlighted. It has three sub-items: "RCVR-v60", "RCVR-v51", and "Mixer_LNA". Each component is represented by a small icon of a chip.

To the right of the settings is a data table with the following columns: "Oper", "Date", "Time", "Lot", "Sublot", and "Ter". The table contains five rows of data:

Oper	Date	Time	Lot	Sublot	Ter
JAB	9-17-1993	10.07.46 AM	7611	TM45V45	^
JAB	9-17-1993	10.07.07 AM	7611	T0V45	
JAB	9-17-1993	10.06.15 AM	7611	T110V45	
JAB	9-17-1993	10.06.10 AM	7611	T85V45	
JAB	9-17-1993	10.04.01 AM	7611	T60V45	
JAB	9-17-1993	10.03.42 AM	7611	T27V45	

Ungroup Lot and Sublot Names

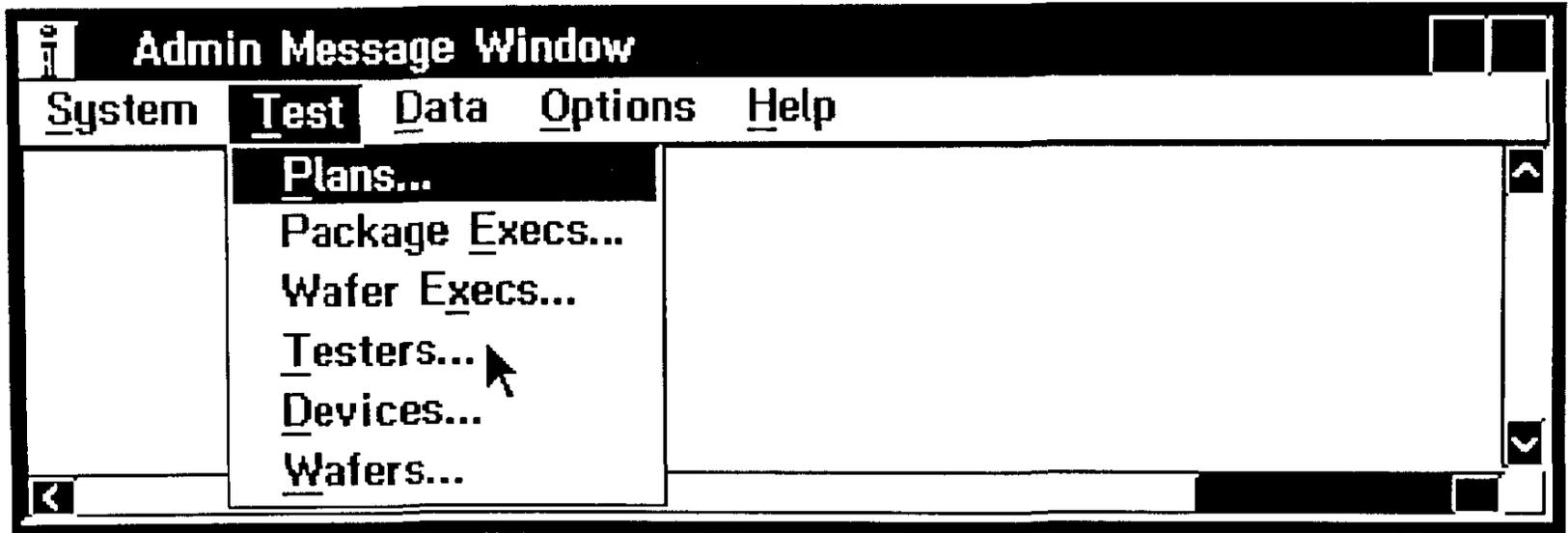
The screenshot shows the 'Database Selector' application window. The title bar includes 'Settings' and 'Help' menus. A dropdown menu is open under 'Exclude retests', showing 'Group lot names' and 'system'. The left pane displays a tree view with a '+' icon and a chip icon next to 'Mixer_LNA'. Underneath, three 'RCVR' entries are listed: 'RCVR-v45', 'RCVR-v60', and 'RCVR-v51', each with a chip icon. The right pane contains a table with the following data:

Oper	Date	Time	Lot	Sublot	Te
JAB	9-17-1993	10.07.46 AM	7611	TM45V45	^
JAB	9-17-1993	10.07.07 AM	7611	T0V45	
JAB	9-17-1993	10.06.47 AM	7611	T0V45	
JAB	9-17-1993	10.06.15 AM	7611	T110V45	
JAB	9-17-1993	10.06.10 AM	7611	T85V45	
JAB	9-17-1993	10.04.01 AM	7611	T60V45	
JAB	9-17-1993	10.03.42 AM	7611	T27V45	
JAB	9-17-1993	10.03.26 AM	7611	T27V45	

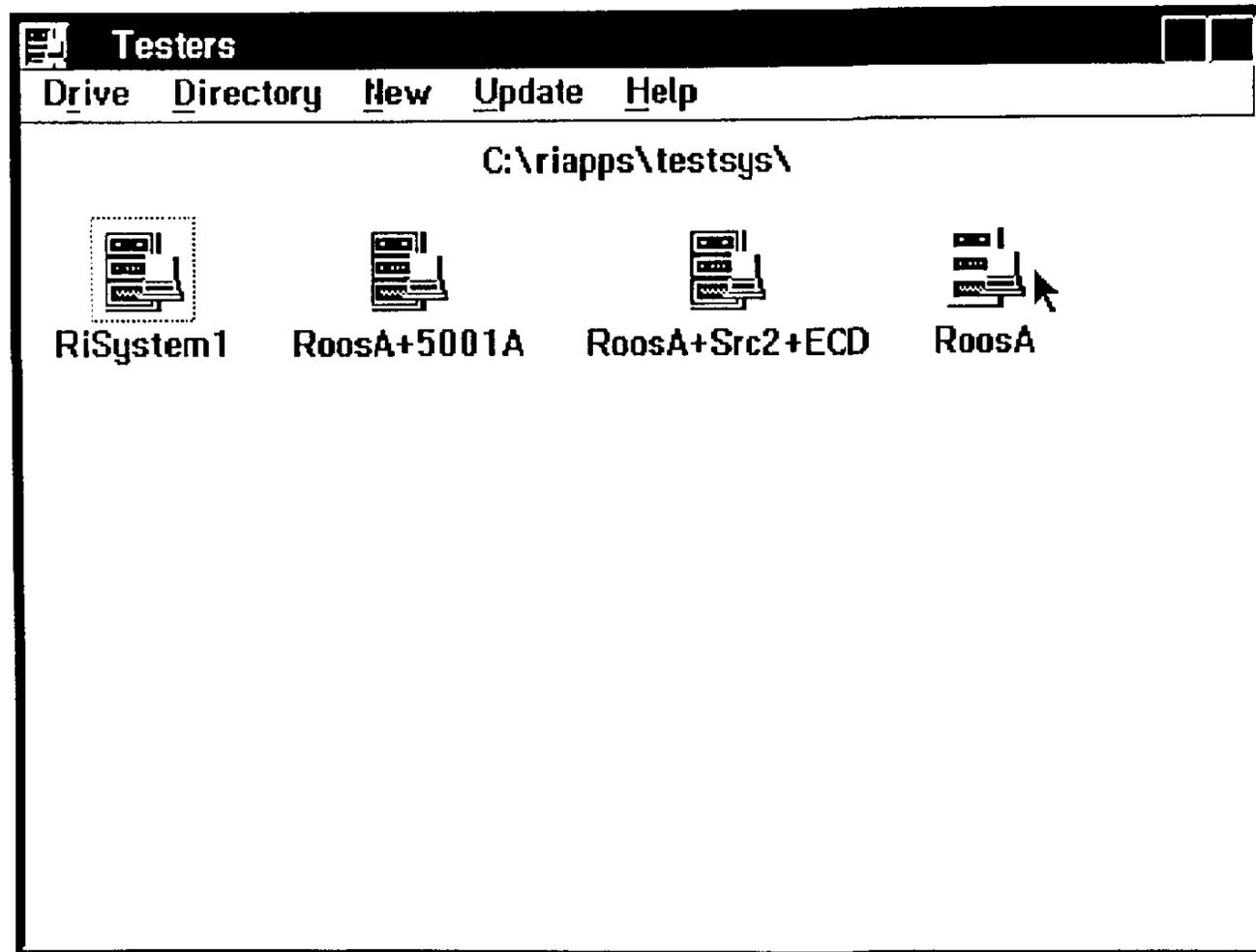
Managing Testers

- **Active and Edit Testers**
- **Edit Tester Functions: Activate, View, Copy or Delete**
- **Active Tester Function: Configuring the Instrumentation**
- **Active Tester Function: Inspecting Calibration Data**
- **Active Tester Function: Setting Idle States**
- **Active Tester Function: Manual Control of the Tester**
- **Active Tester Functions: Deactivate, Startup, Save & Copy**

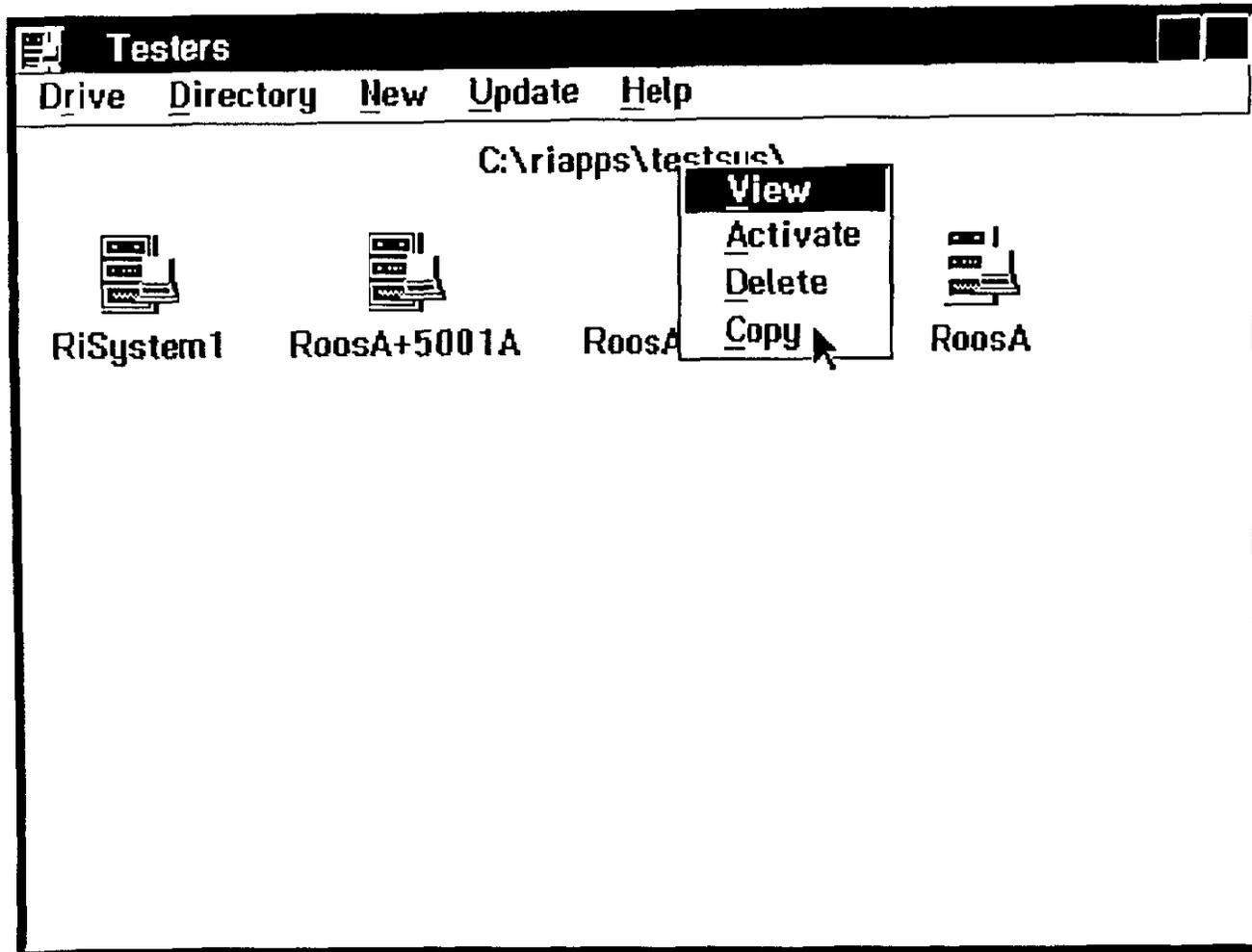
Opening the Testers Container Window



Active vs Edit Testers

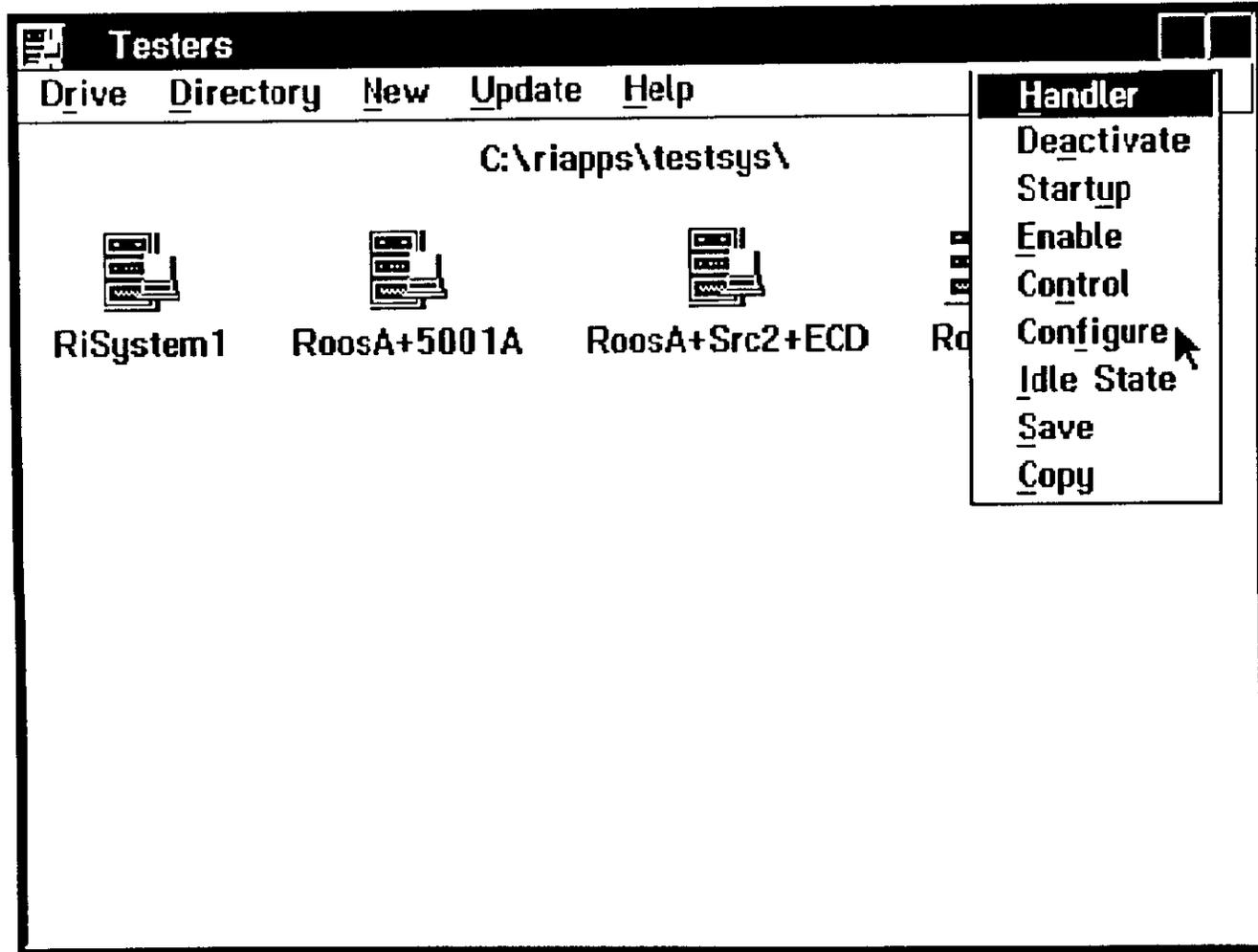


Edit Testers: Activate, View, Copy & Delete



Active Tester Functions: Configure

.....



Tester Configuration Window

The screenshot shows a window titled "RoosA Configuration" with a menu bar containing "Instrument", "Handler", "Fixture", "Tester", and "Help". The main area lists several instrument configurations:

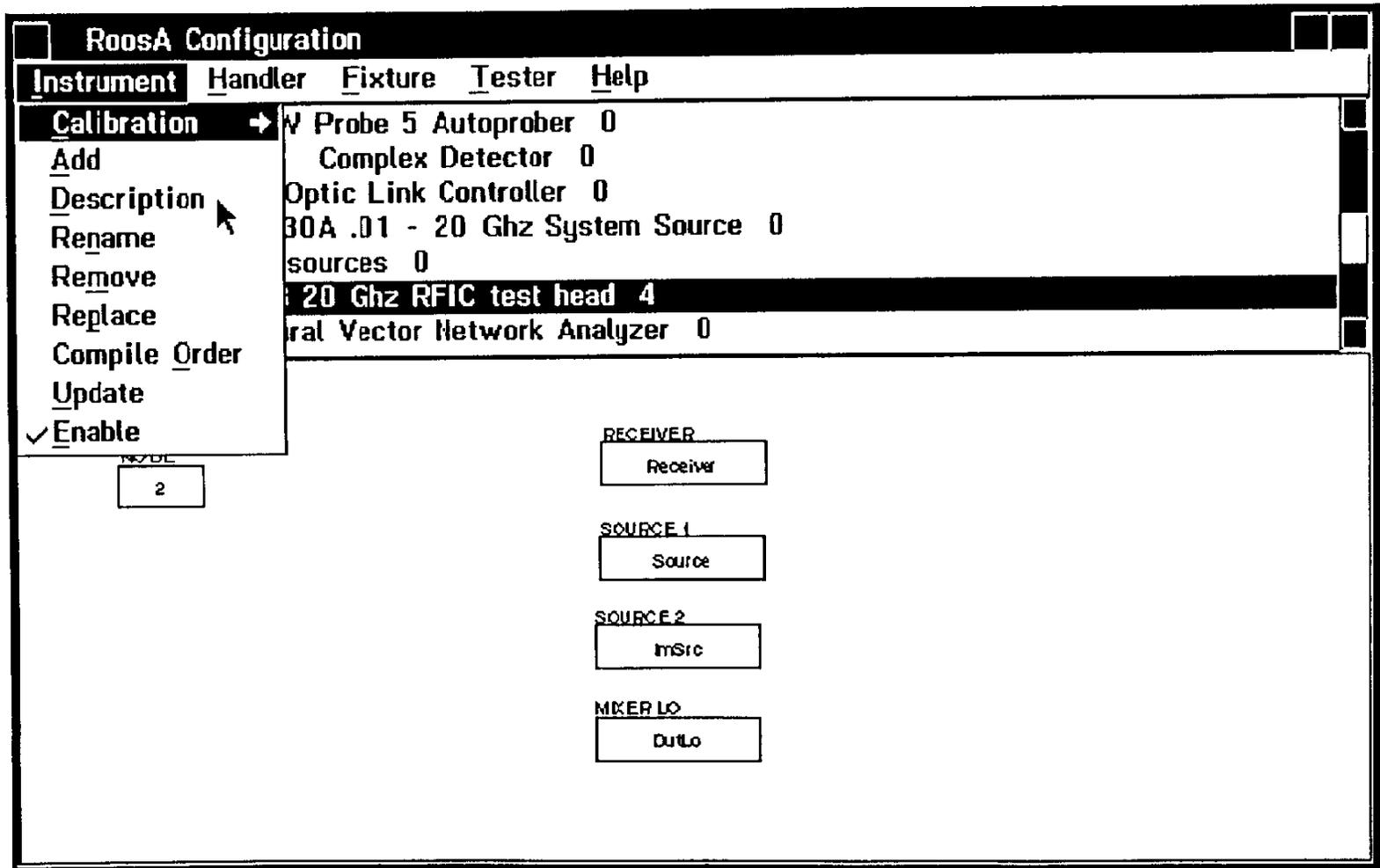
- inActive Prober PW Probe 5 Autoprober 0
- Receiver RI7310A Complex Detector 0
- Rifl RI125 Fiber Optic Link Controller 0
- Source Proto RI7730A .01 - 20 Ghz System Source 0
- System System Resources 0
- TestHead RI7212B 20 Ghz RFIC test head 4** (highlighted)
- vna RI7802A Virtual Vector Network Analyzer 0

Below the list is a block diagram with the following components:

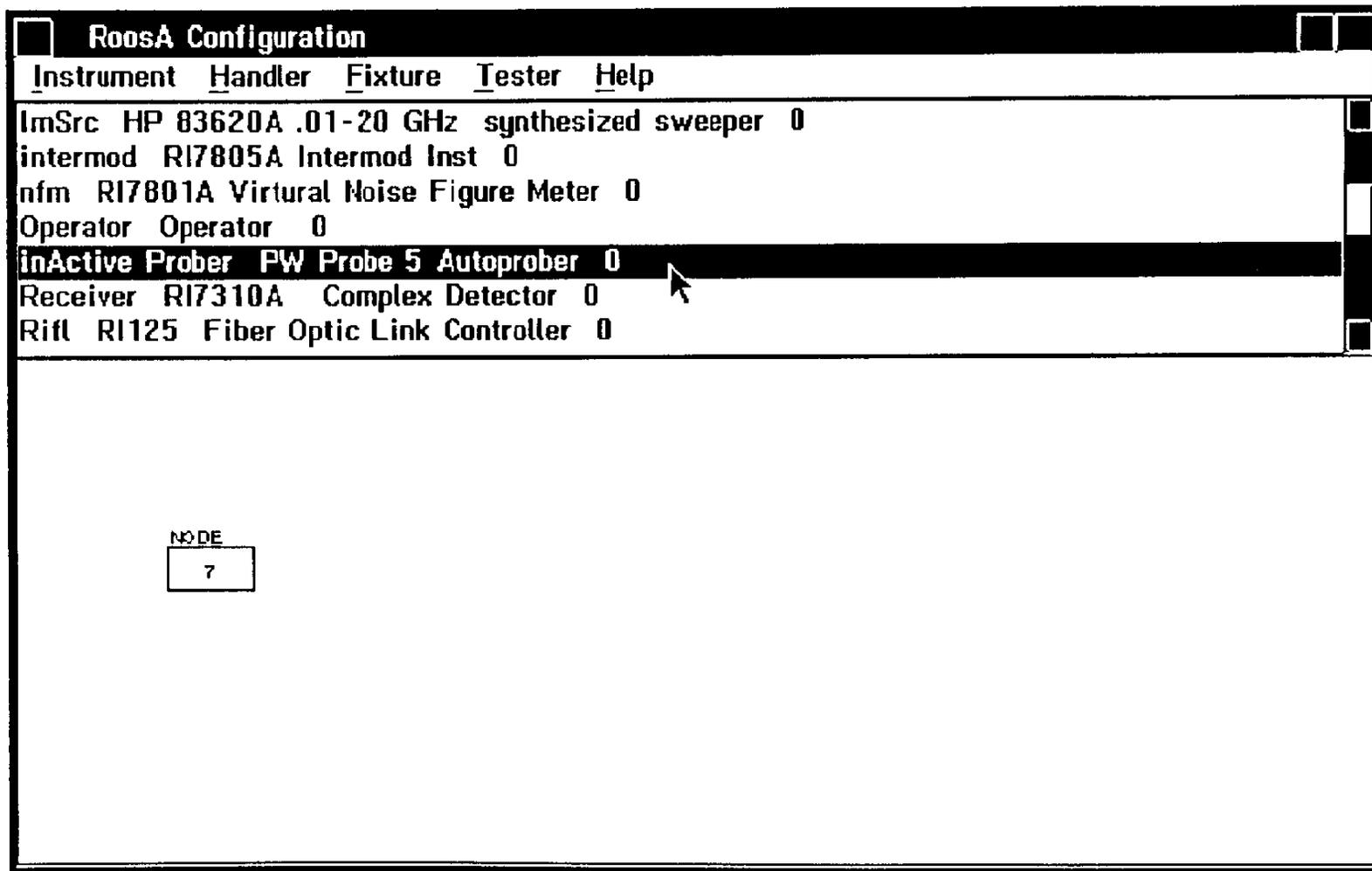
- NODE** (containing the number 2)
- RECEIVER** (containing Receiver)
- SOURCE 1** (containing Source)
- SOURCE 2** (containing InSrc)
- MARKER LO** (containing OutLo)

Configuring the Tester's Instrumentation

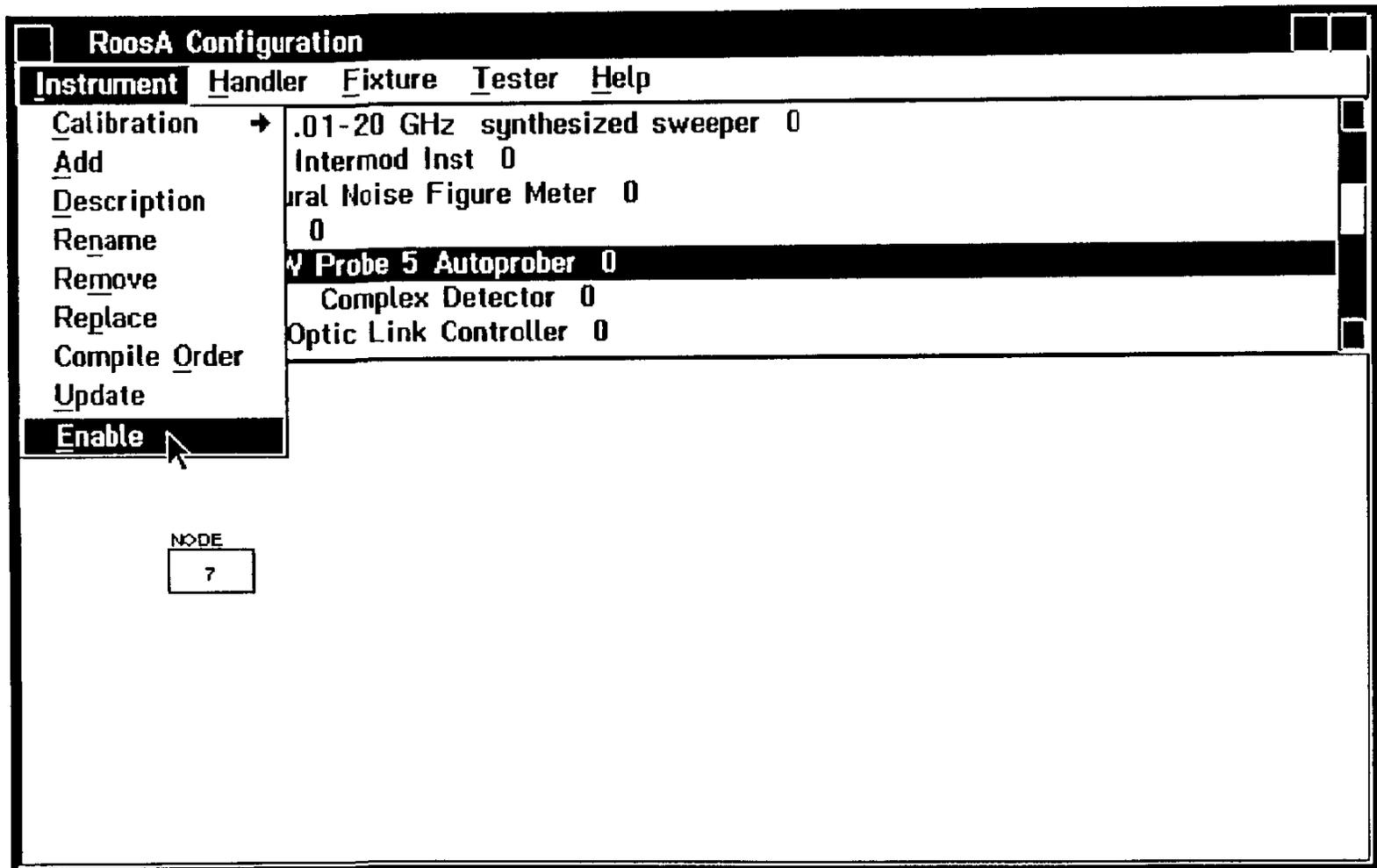
.....



Activating an Instrument

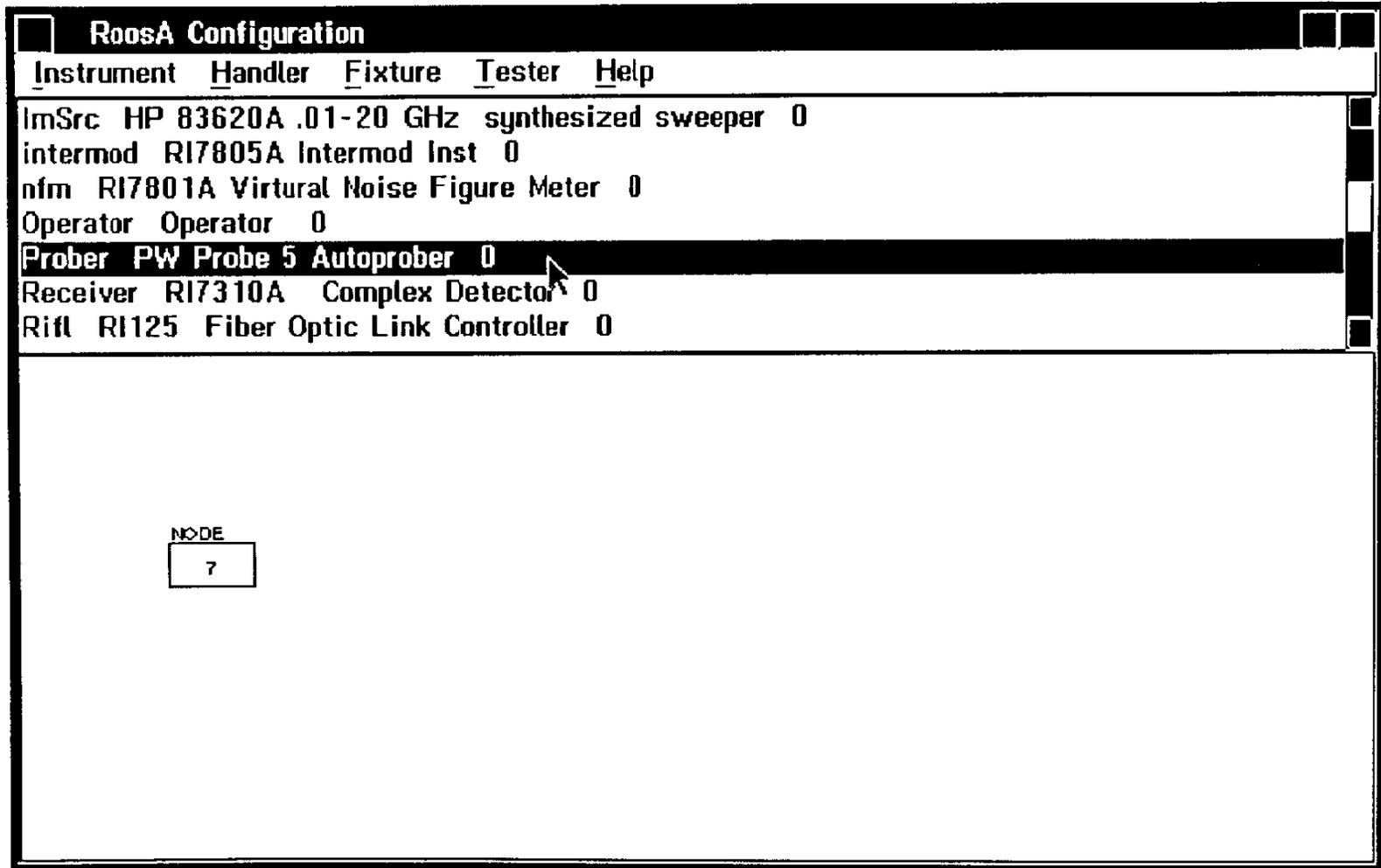


Activating an Instrument (Continued)

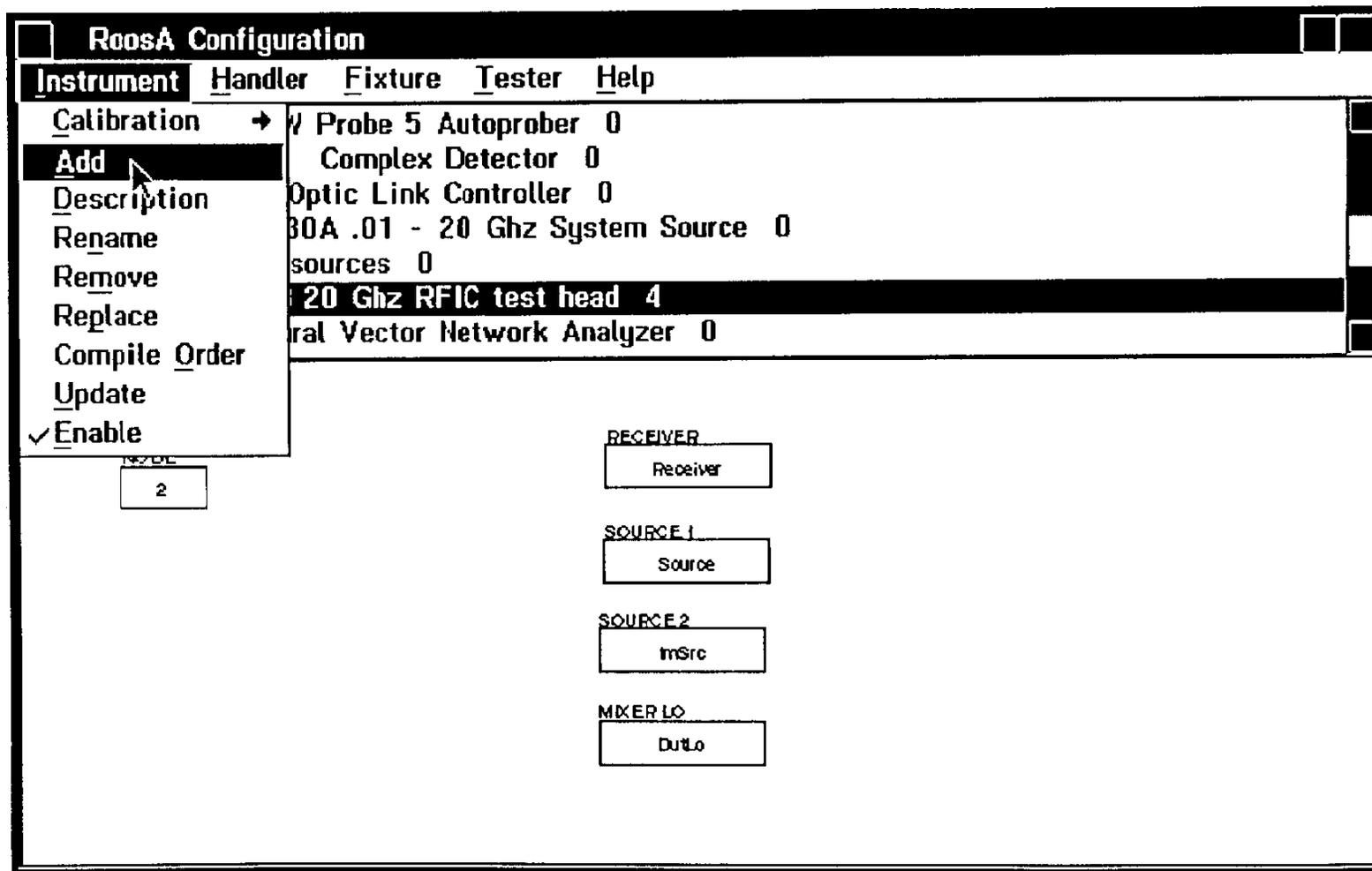


Activating an Instrument (Continued)

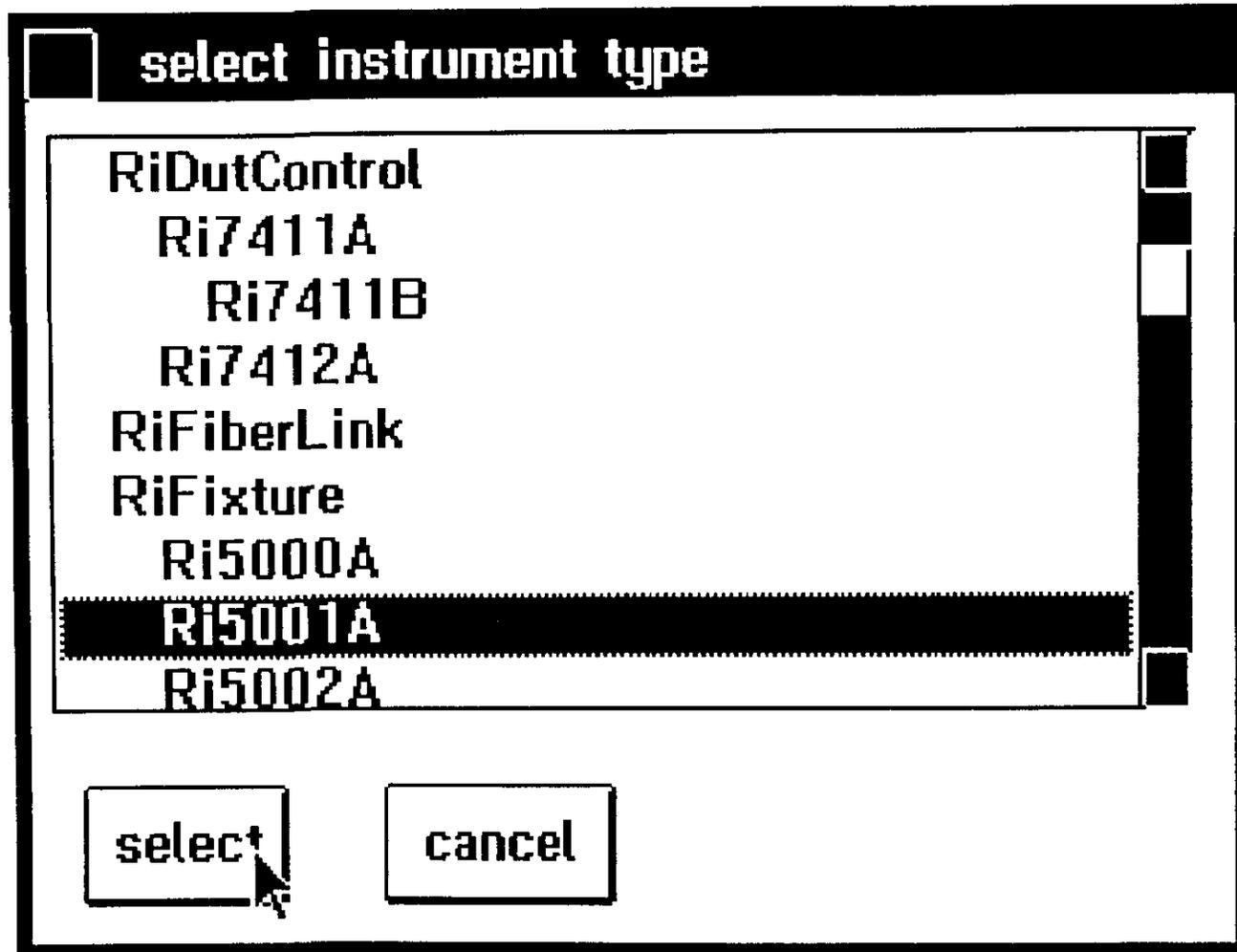
.....



Adding a New Instrument

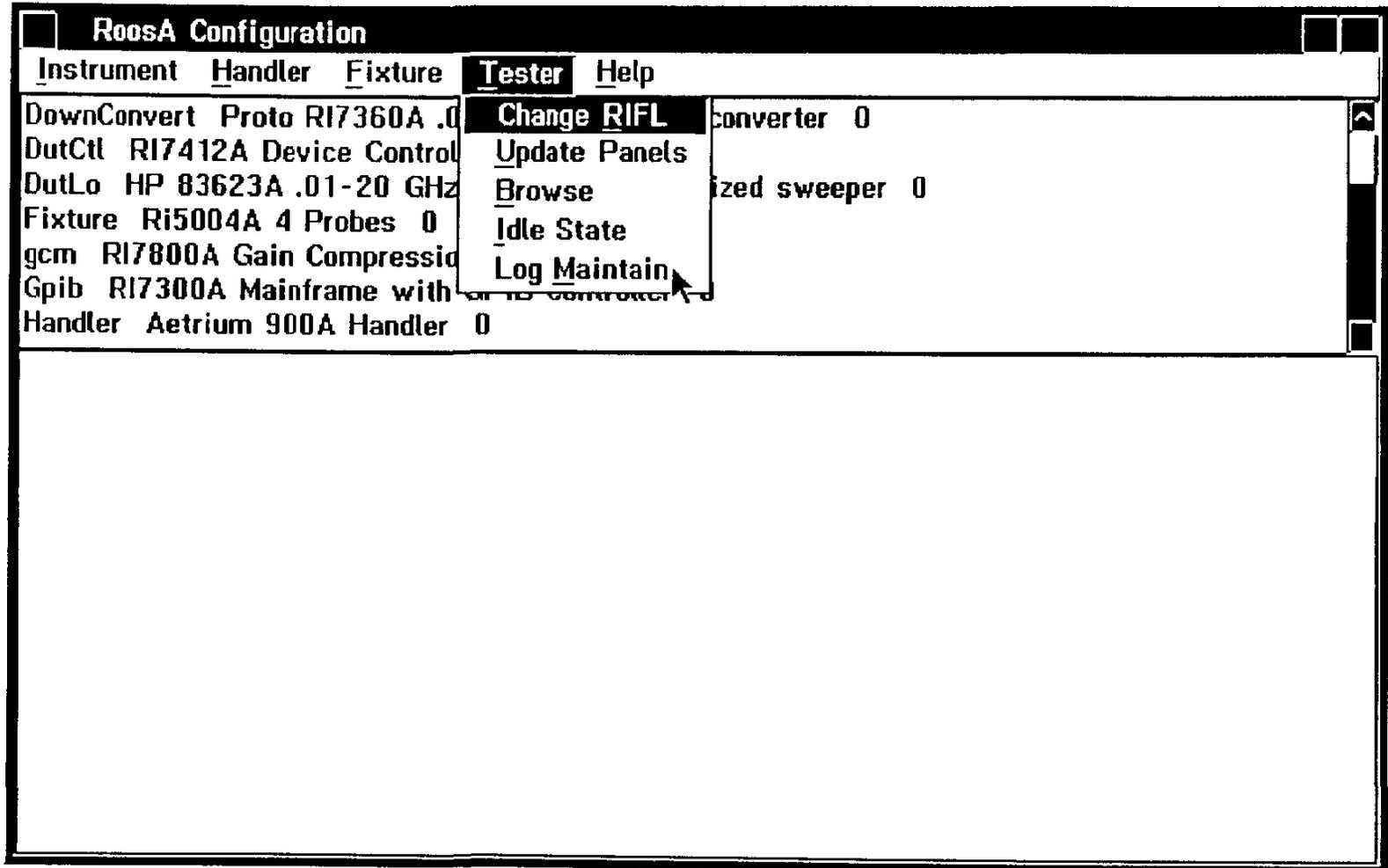


Adding a New Instrument (Continued)



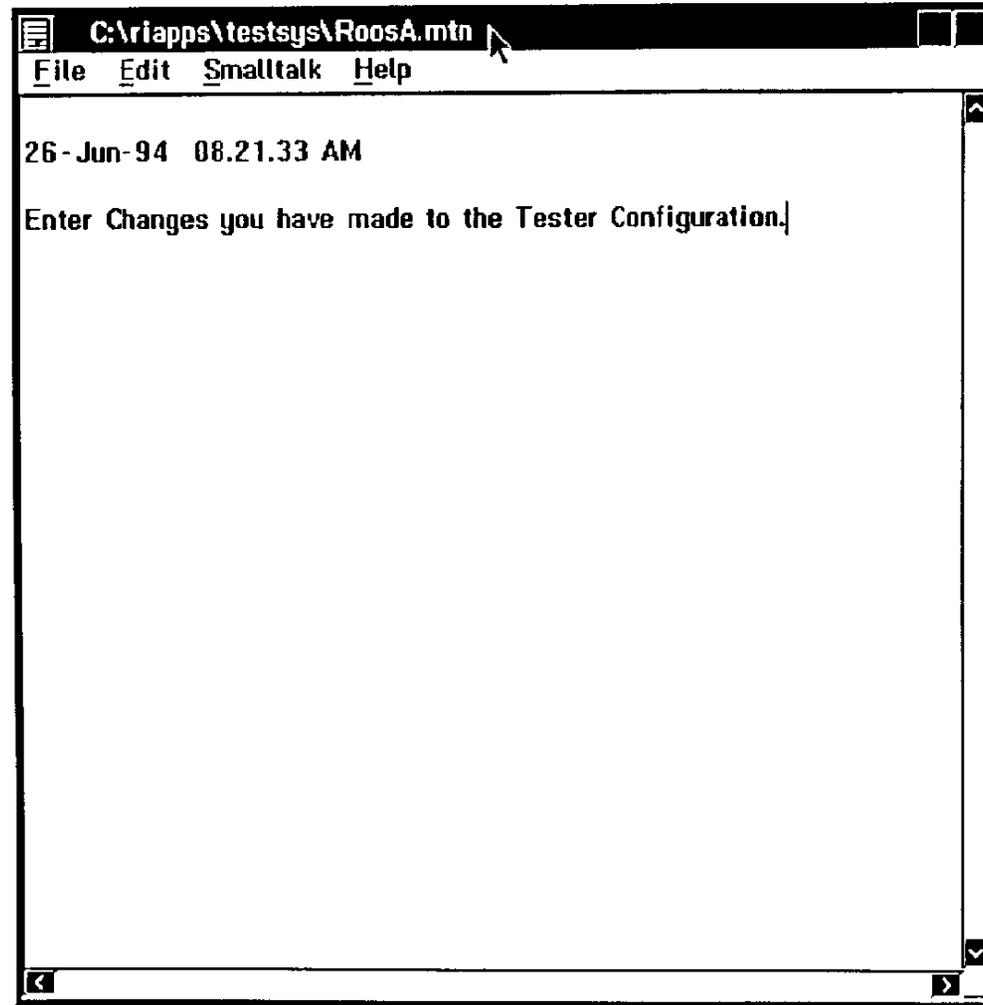
Opening Maintenance Log Window

.....

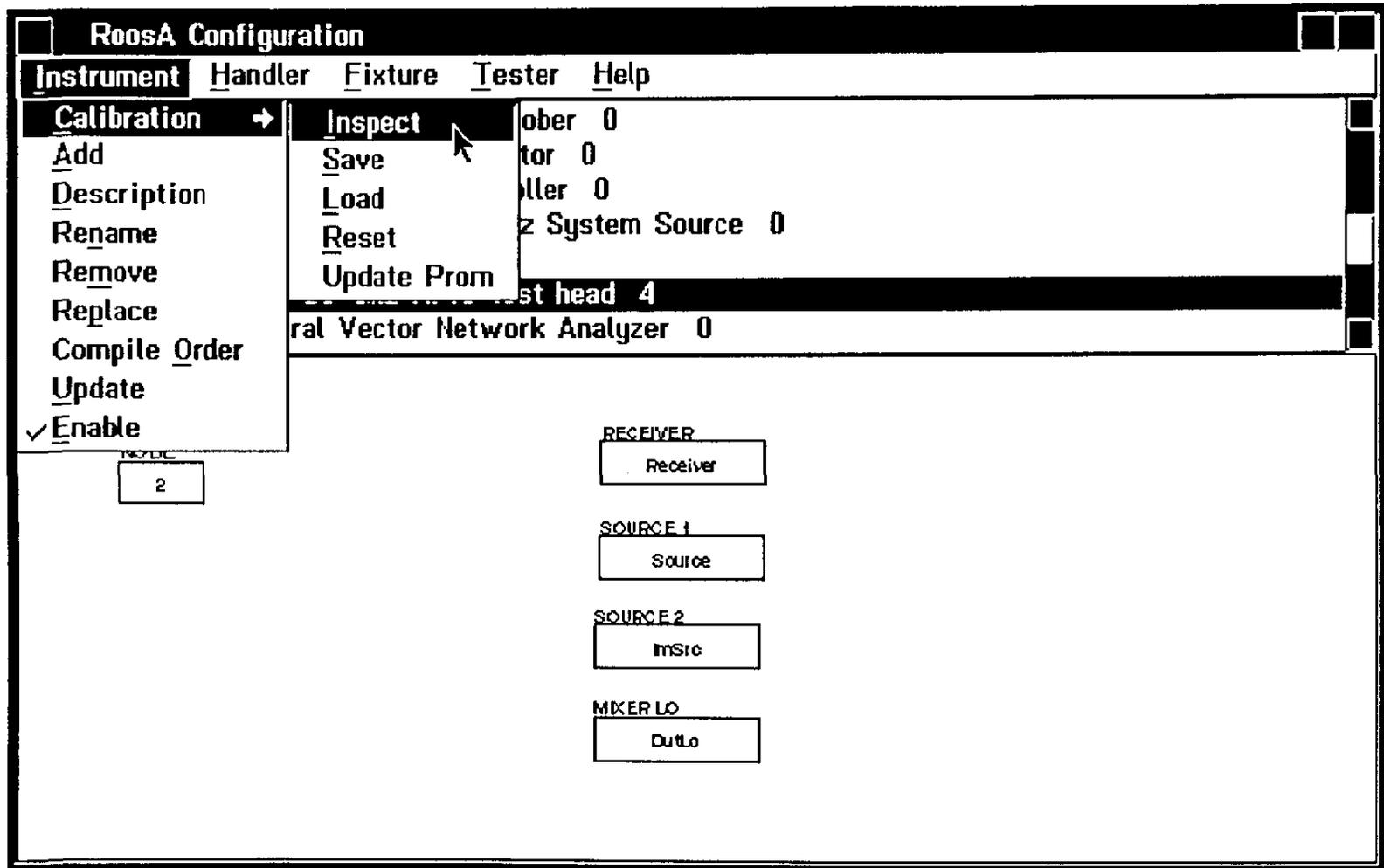


Maintenance Log Window

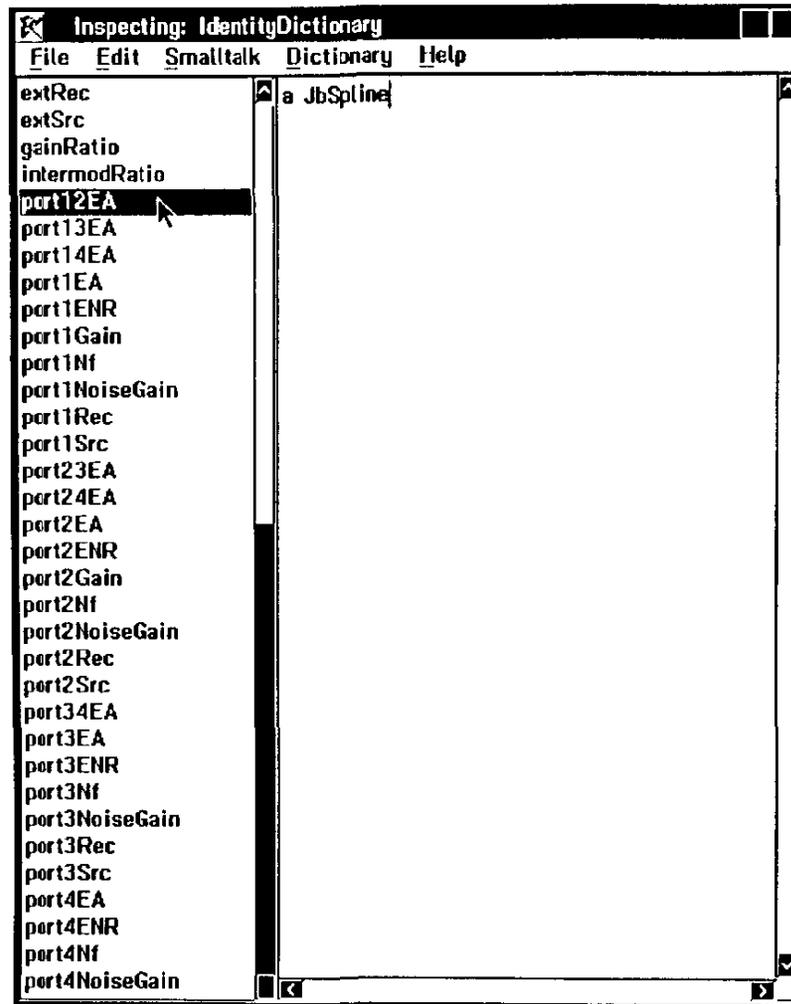
.....



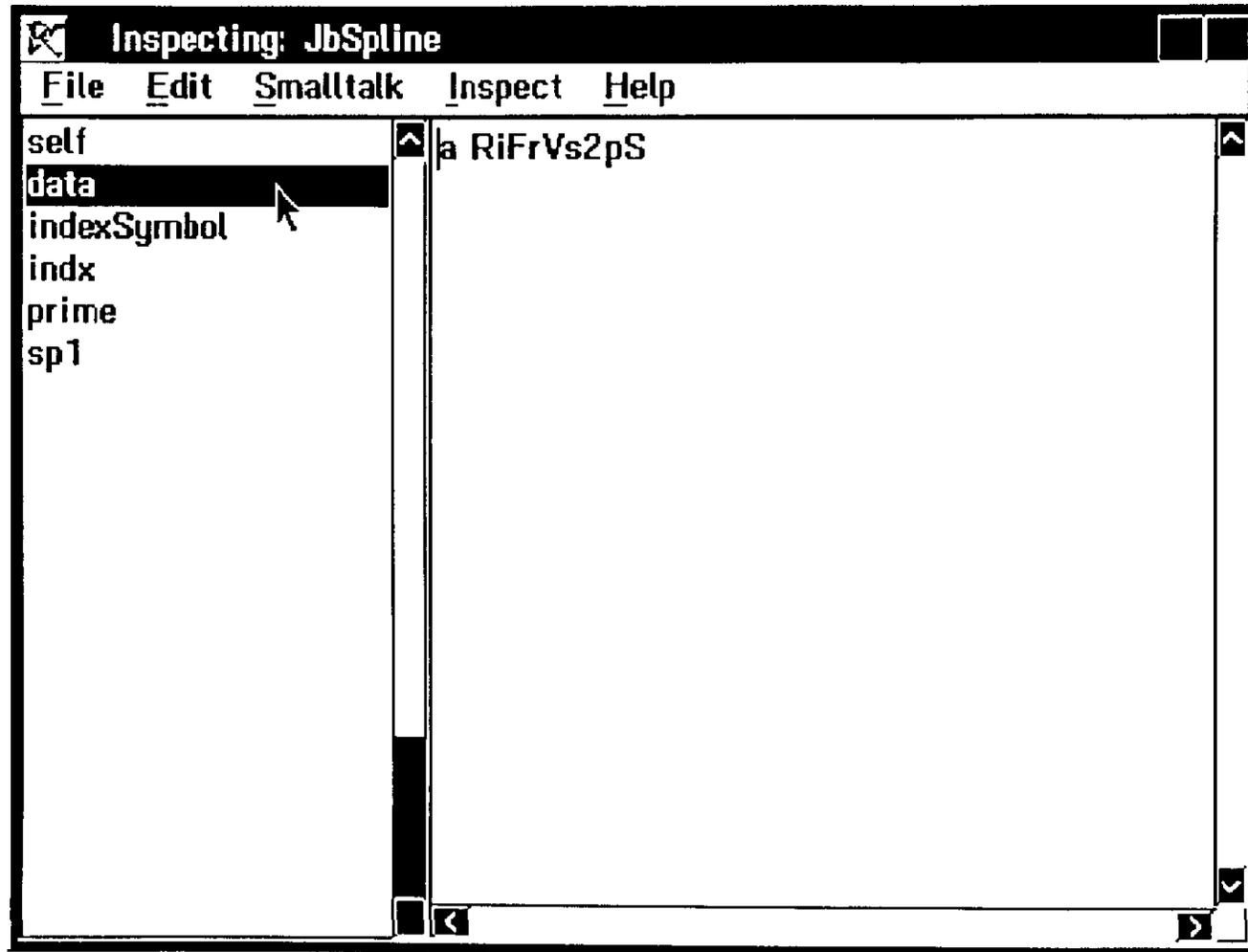
Inspecting Calibration Data



Inspecting Calibration Data (Continued)



Inspecting Calibration Data (Continued)



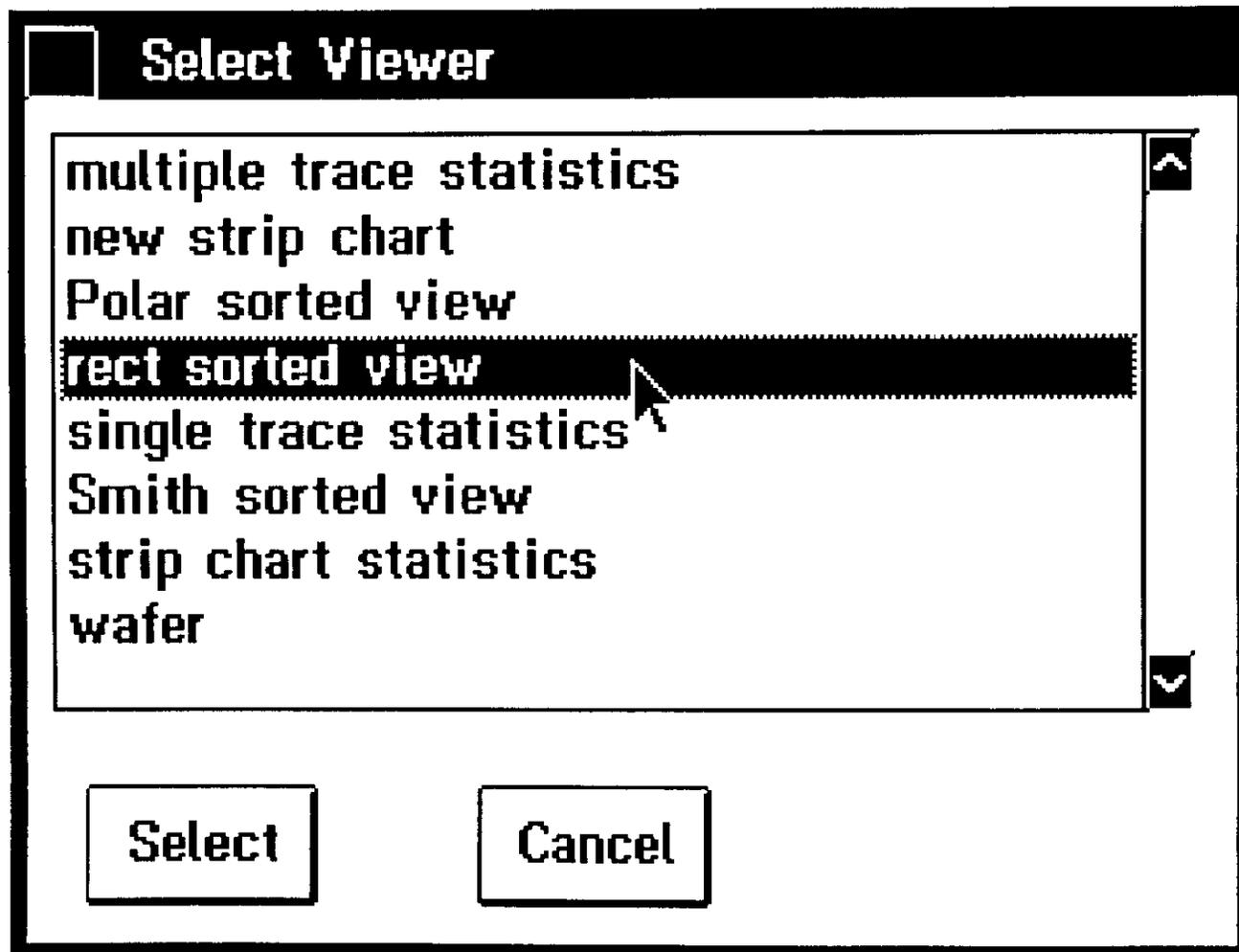
Inspecting Calibration Data (Continued)

.....

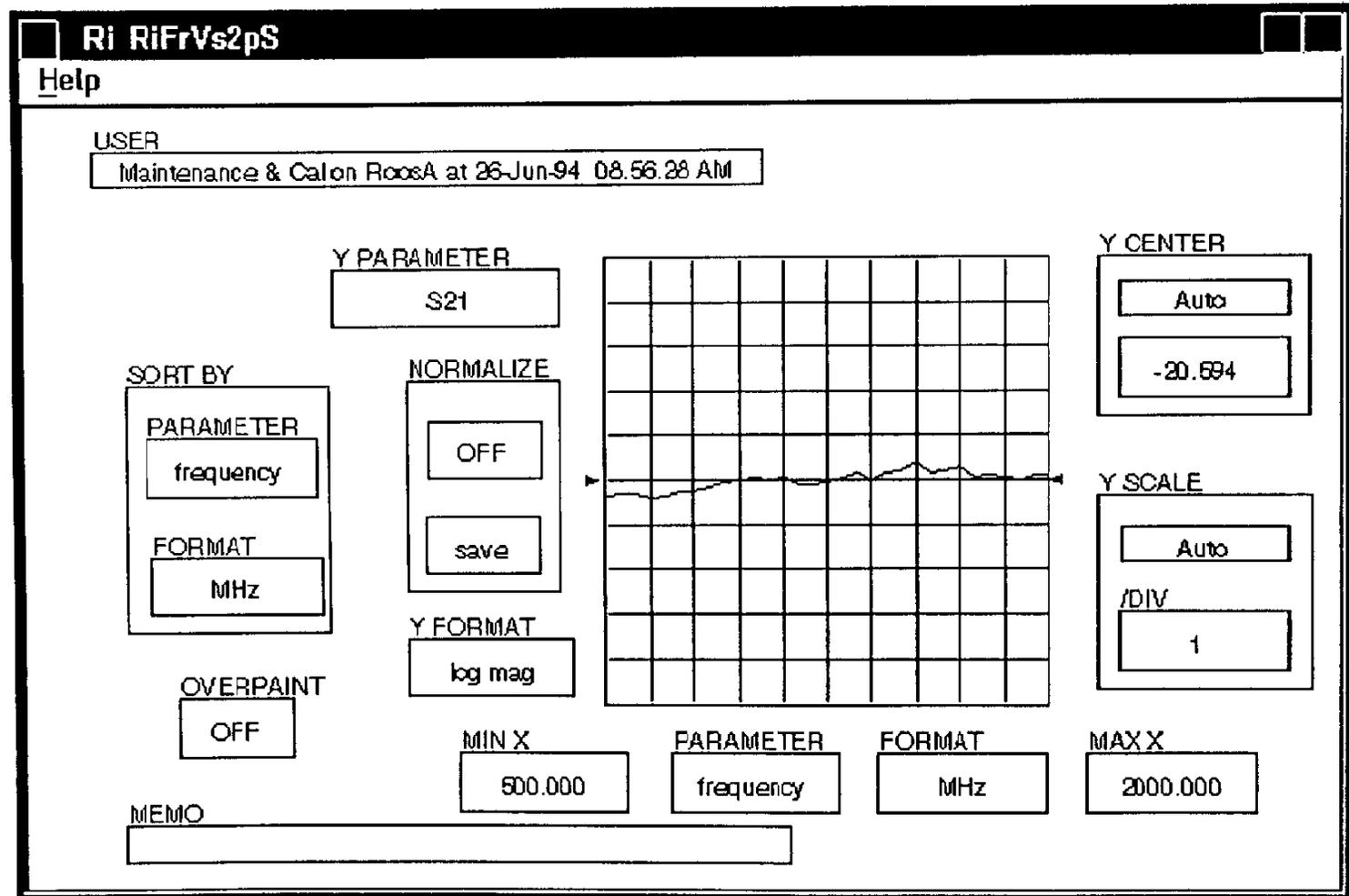
The screenshot shows a software window titled "Inspecting: RIFrVs2pS" with a menu bar containing "File", "RiData", and "Help". On the left, a list of data points is shown, with "self" at the top and numbers 1 through 21 below. A context menu is open over item 1, listing options: "Inspect", "Inspect Bytes", "View", "File out", "Edit tag", "Edit color", "Edit Location", "Delete", and "Add". The "View" option is highlighted with a mouse cursor. The main area of the window displays the following data:

```
freq 500.0  
s11 (0.0 + j0.0)  
s12 (10.9696187 + j1.88920403)  
s21 (8.85349044e-2 - j1.52476127e-2)  
s22 (0.0 + j0.0)
```

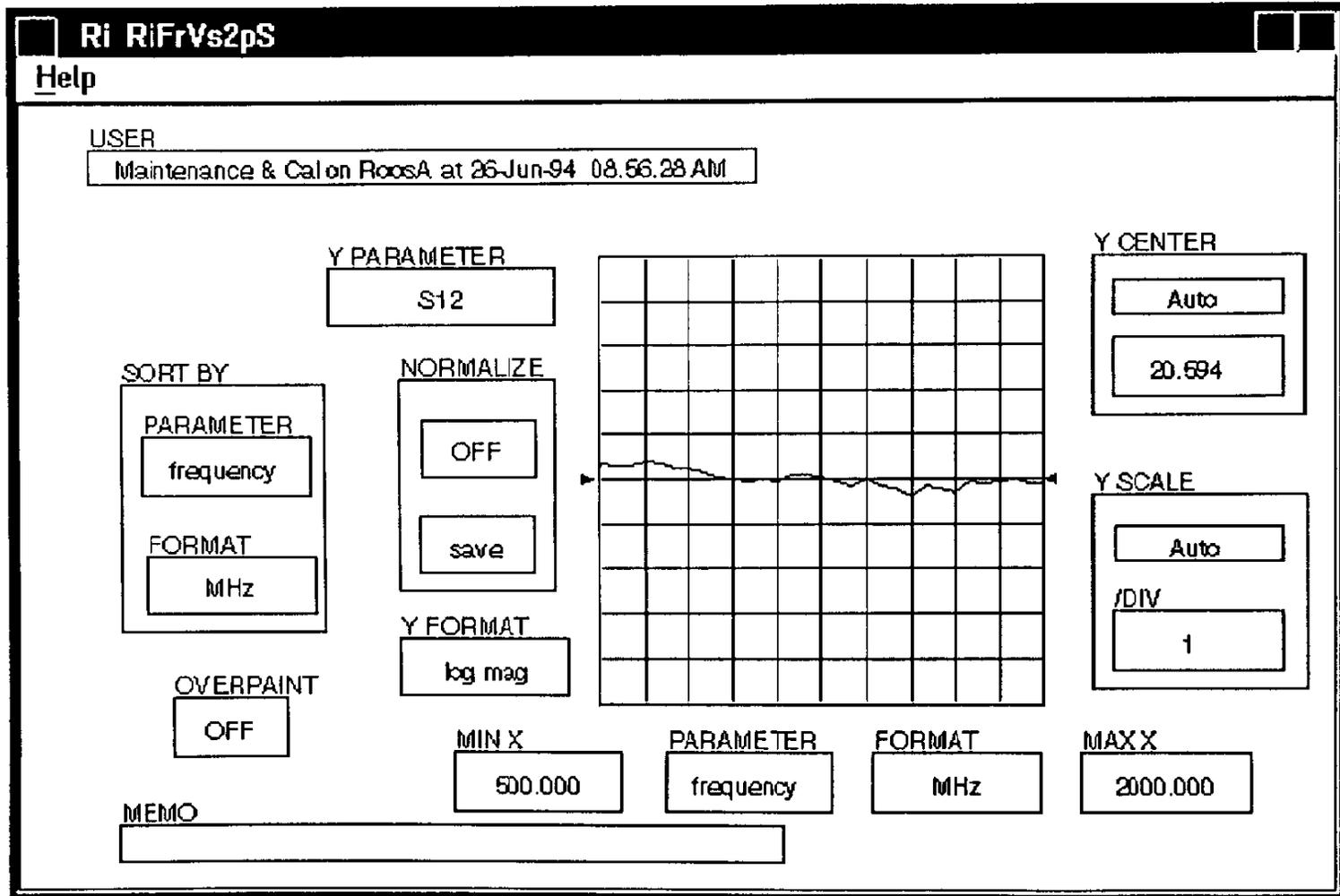
Selecting a Viewer for the Cal Data Selected



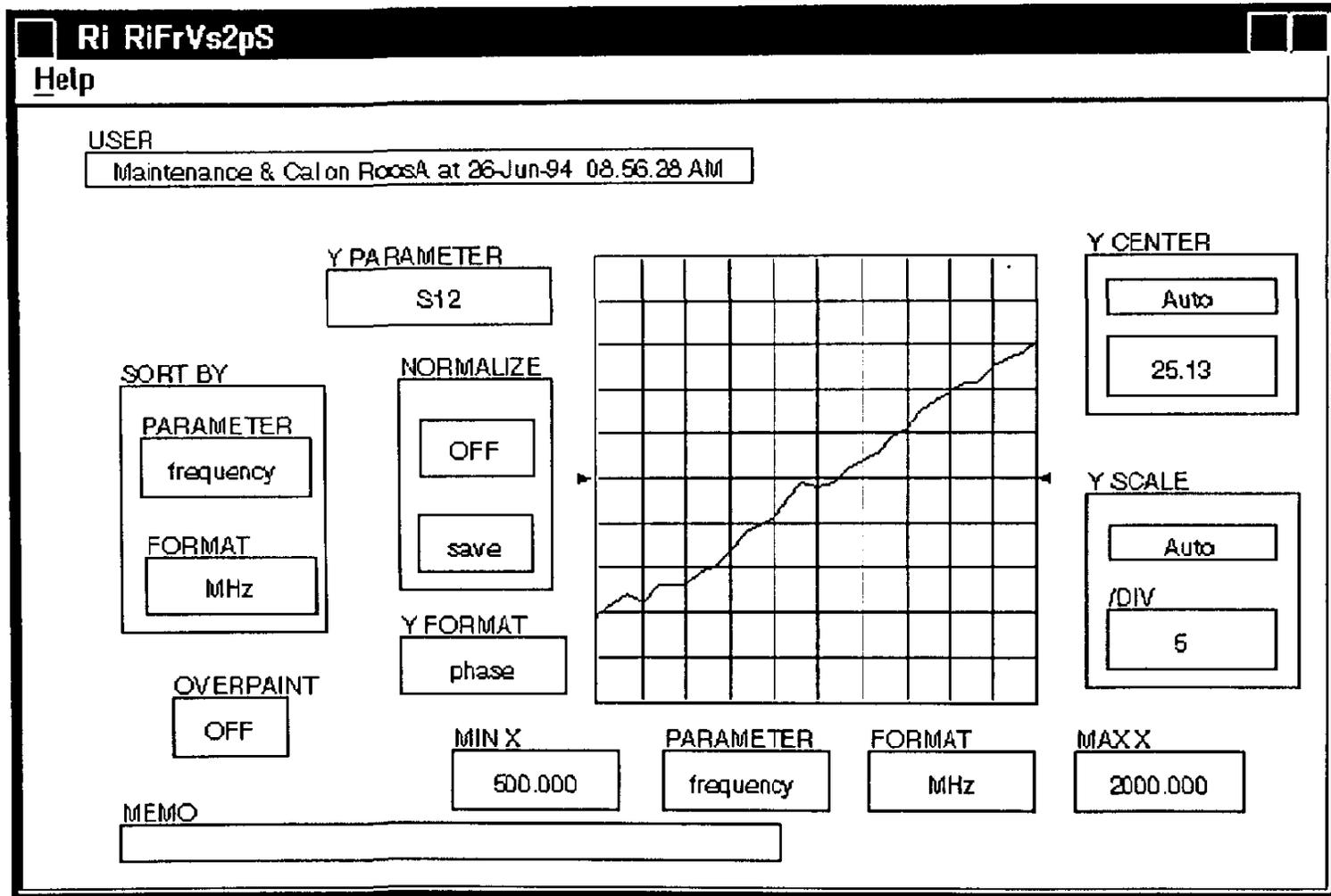
S21 Cal Data for Test Head port I2EA



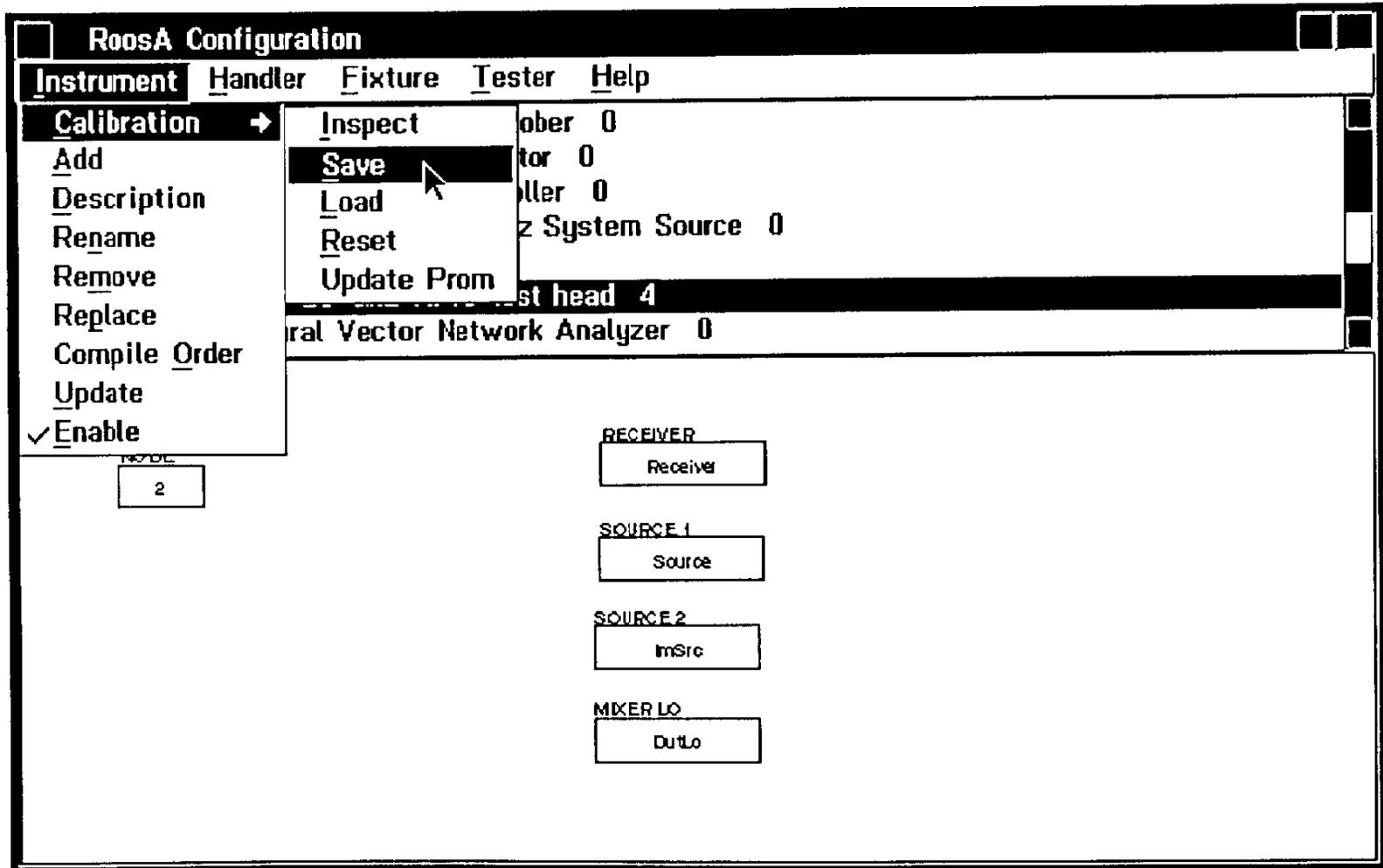
S12 Cal Data for Test Head Port I2EA



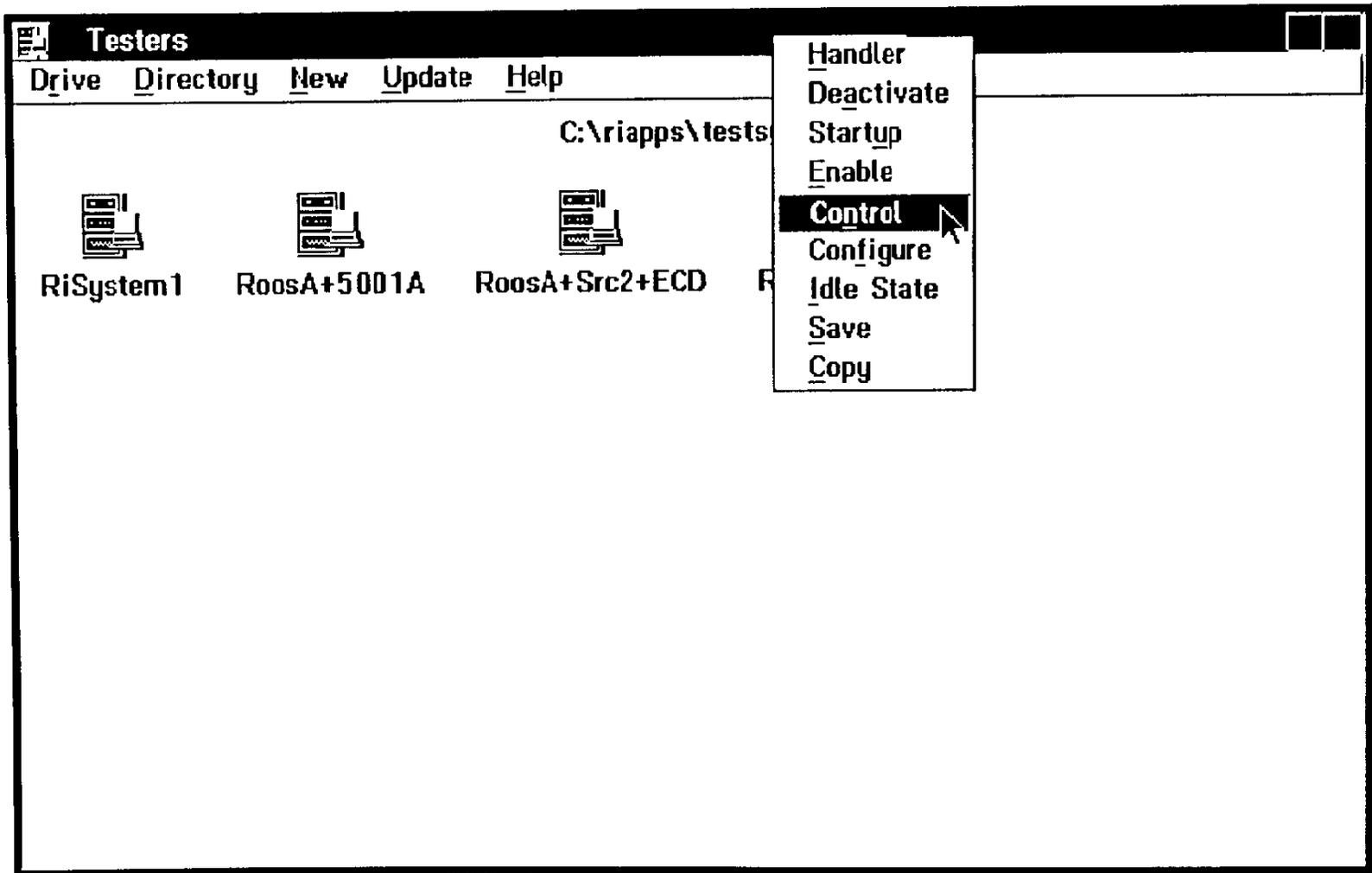
S12 Cal Data for Port12EA - Phase



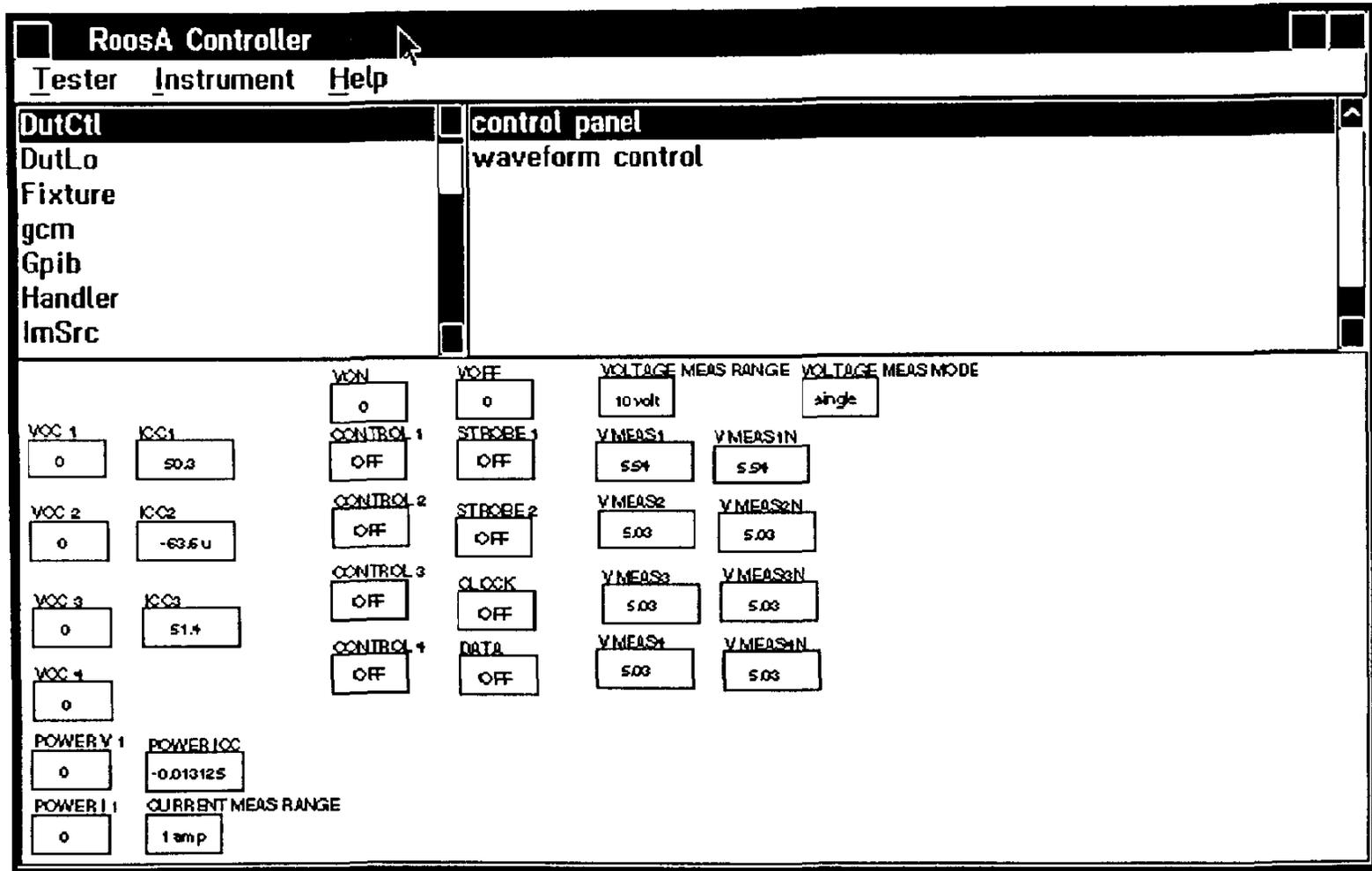
Other Instrument Calibration Functions



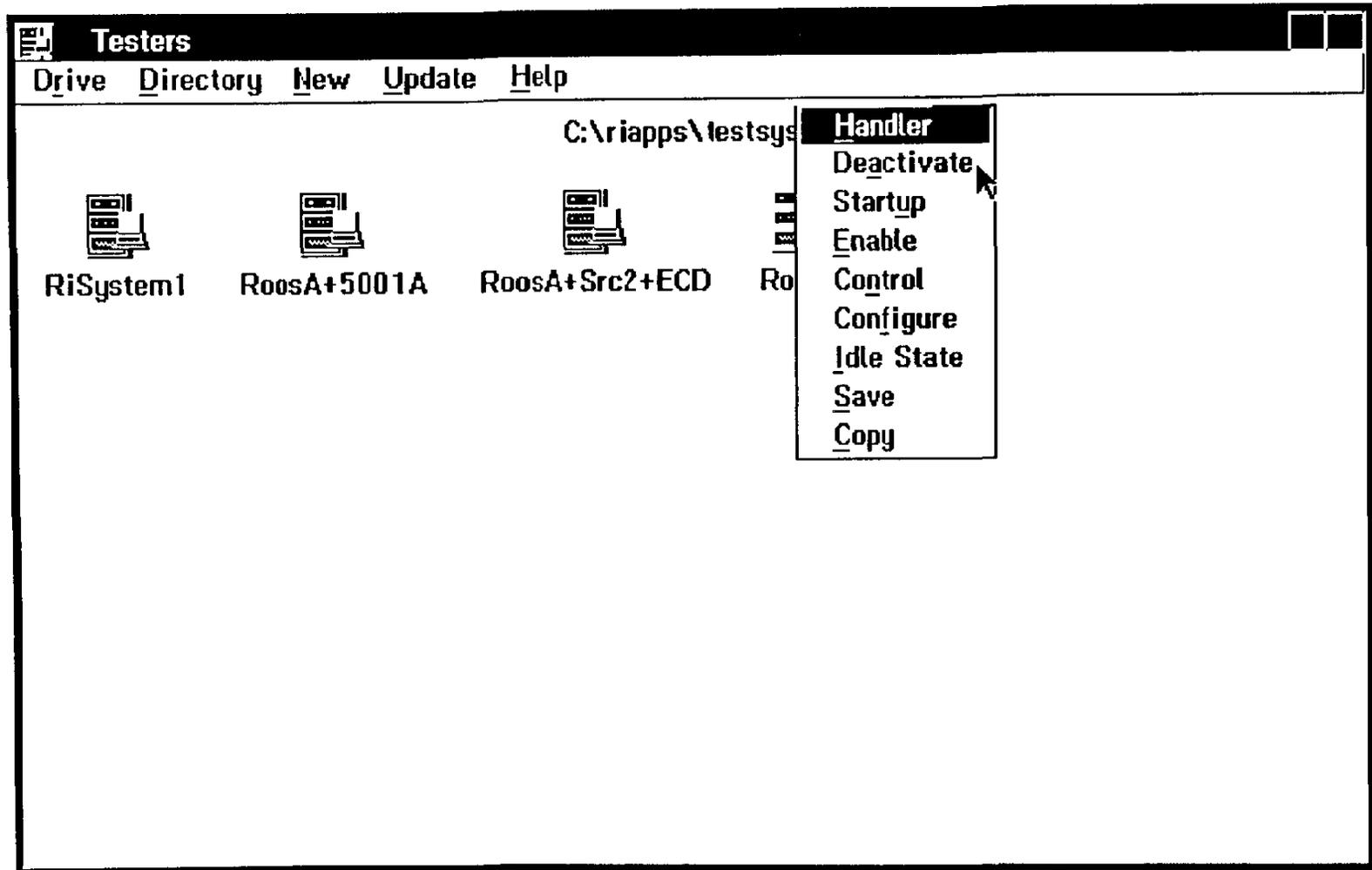
Active Tester Function: Control



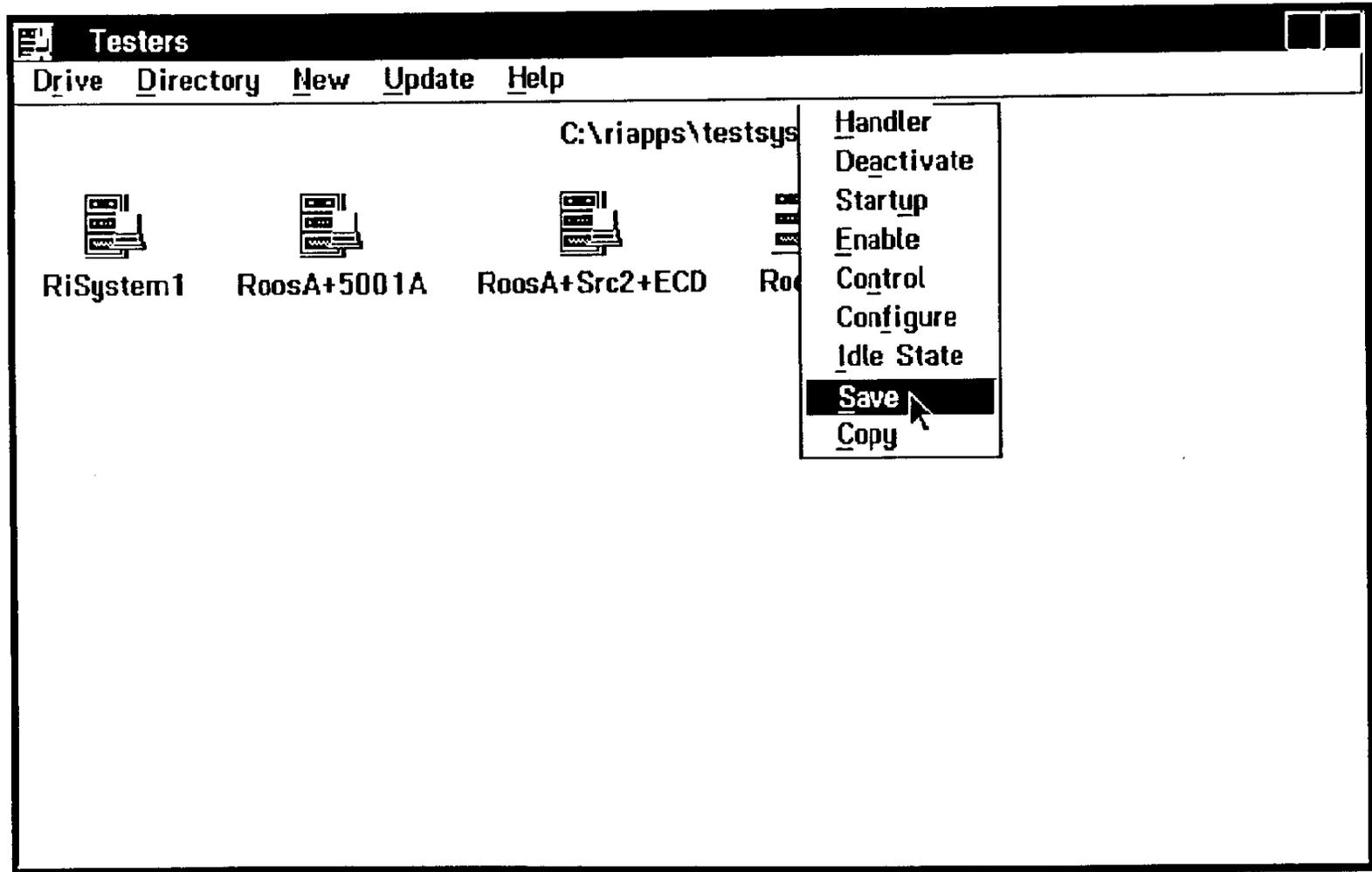
Tester Manual Control Window - RoosA



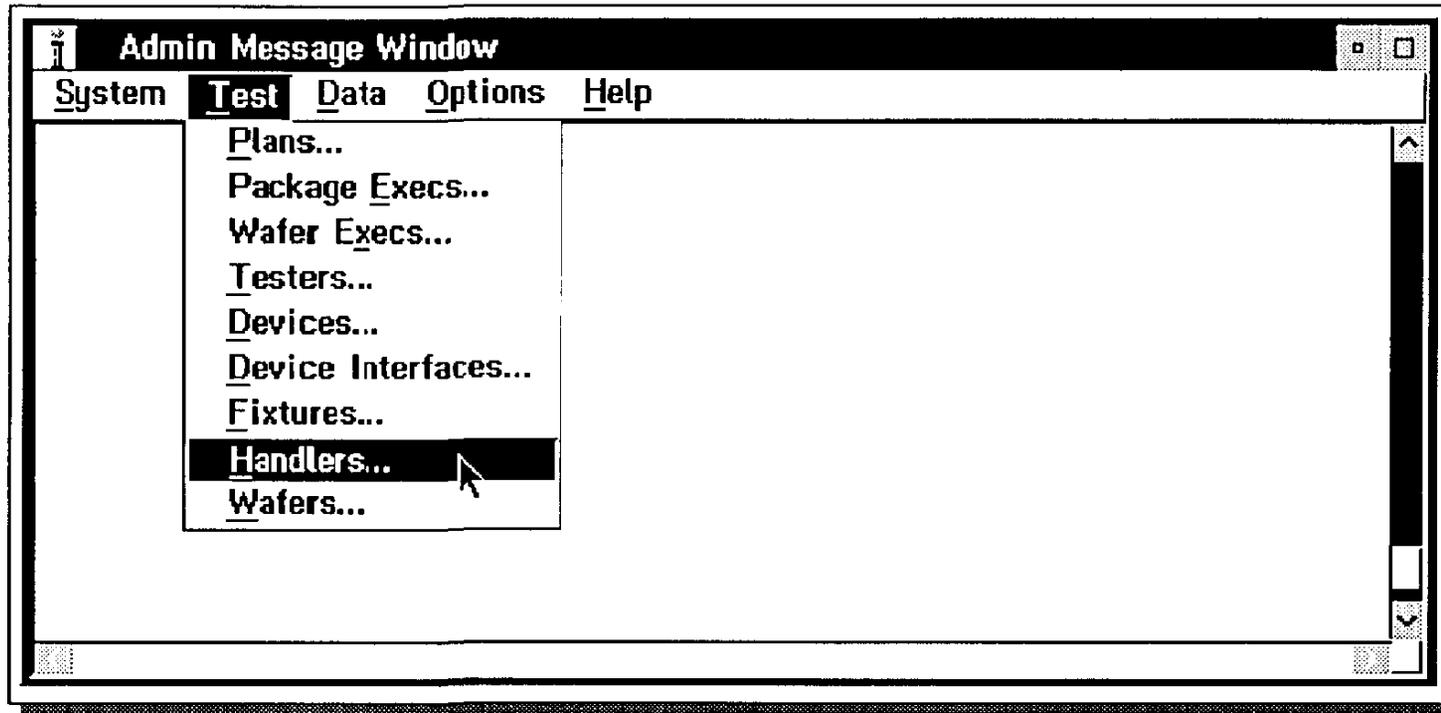
Other Active Tester Functions



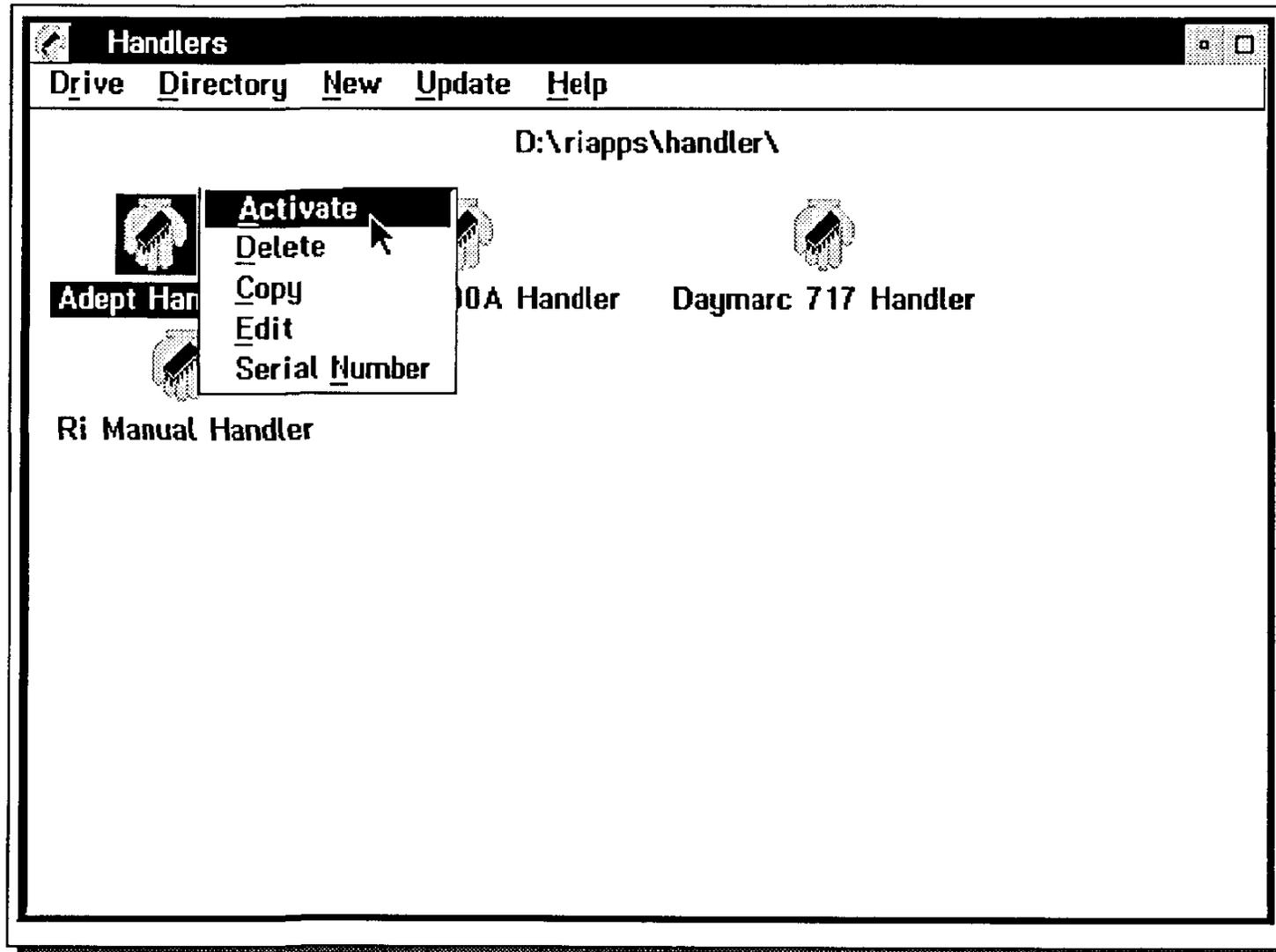
Changes are Only Permanent when Saved!!



Opening the Handler Container Window



Handler Container Window Functions

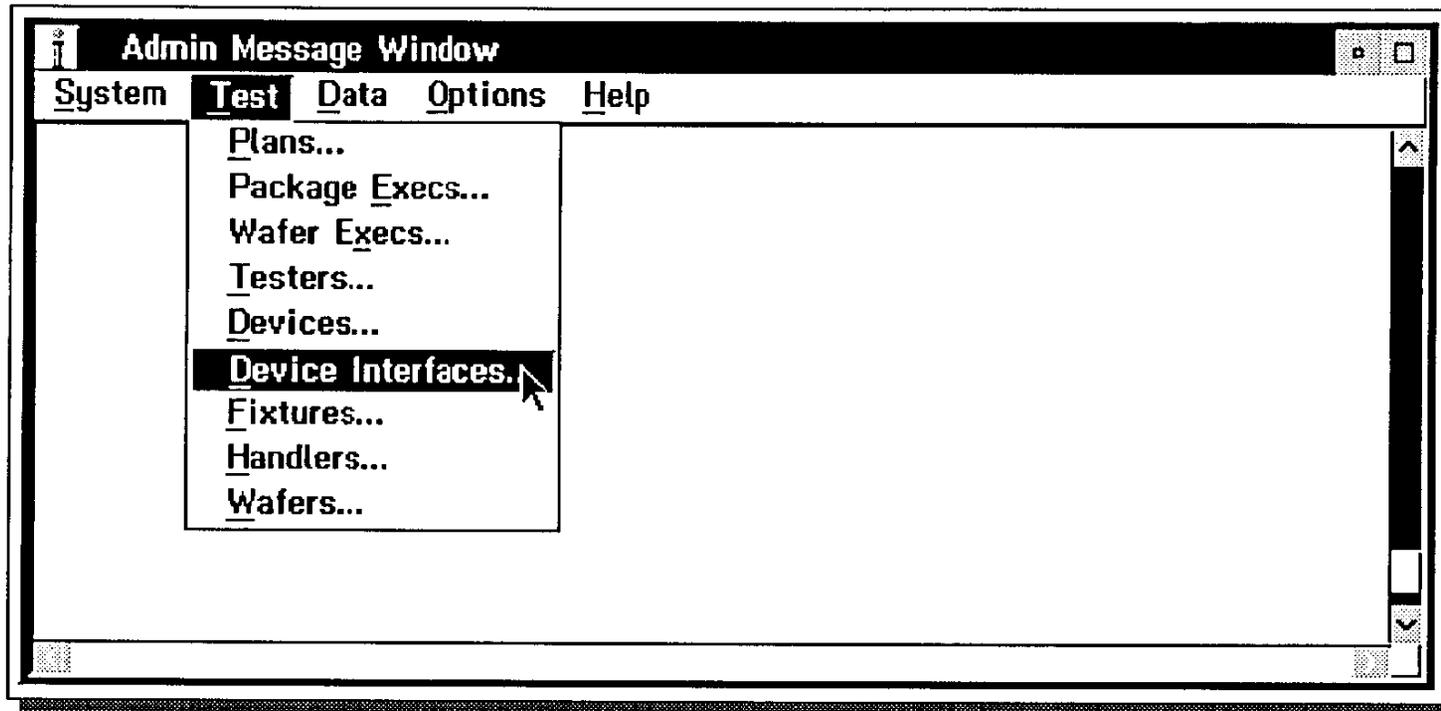


Defining the Handler Options

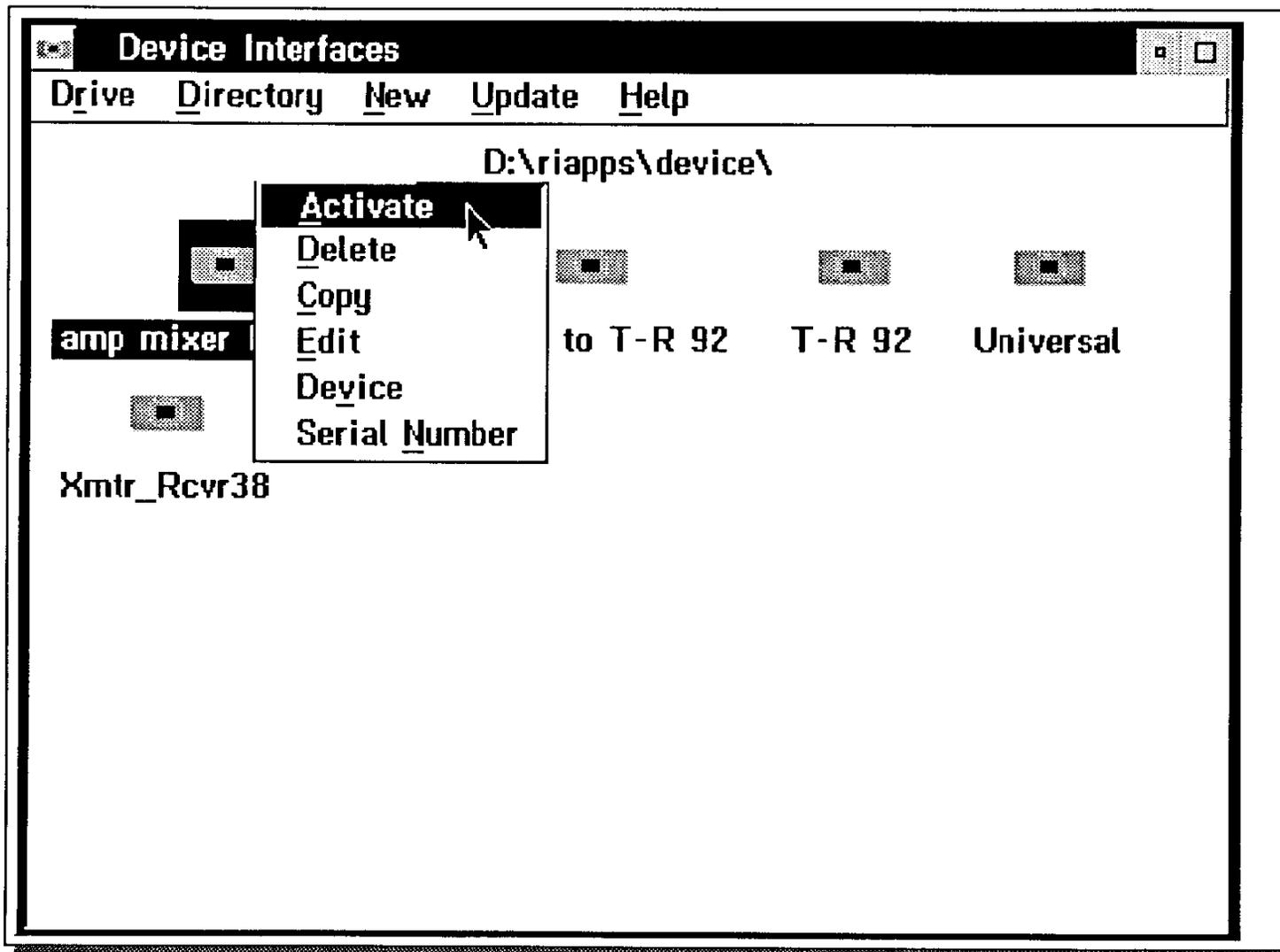
Handler Options			
Category	Bin		
Standard Pass	1	↑ ↓	Minimum Delay (ms) 0
Premium Pass	1	↑ ↓	Maximum Wait (s) 15
Standard Fail	2	↑ ↓	
Continuity Fail	2	↑ ↓	
Special Fail 1	2	↑ ↓	
Special Fail 2	2	↑ ↓	
Special Fail 3	2	↑ ↓	
Special Fail 4	2	↑ ↓	
Special Fail 5	2	↑ ↓	
Special Fail 6	2	↑ ↓	
Retest	3	↑ ↓	

OK Cancel

Opening the Device Interface Container Window



Device Interface Container Window Functions



Defining the Device Interface

Device Interface Definition for amp mixer Interface

Fixture Type Fixture Name

Master Cal

Paths

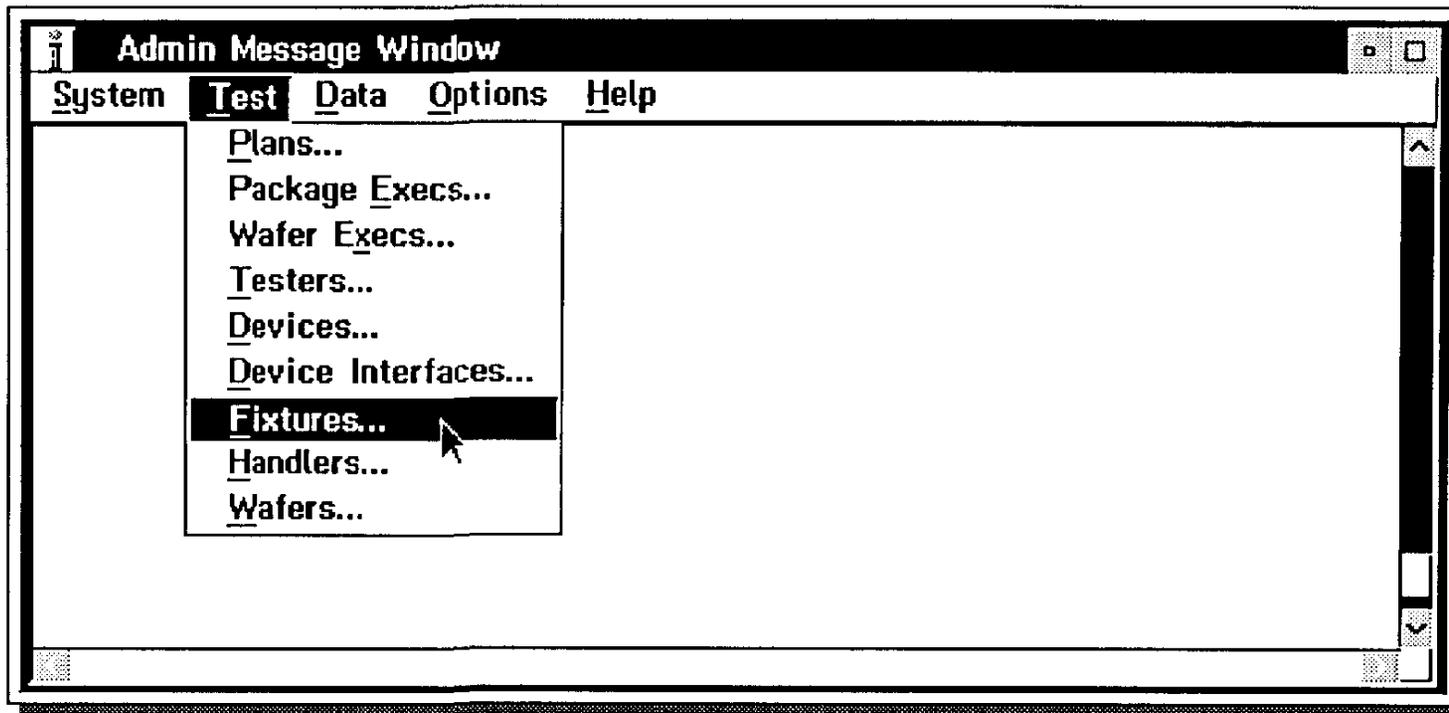
Device Pin >> Fixture Connection

1	Vcc Mixer	>> P10
2		>> nil
3	LNA input	>> RF3
4		>> nil
5		>> nil
6	Mixer Input	>> RF4
7		>> nil
8	Power Down	>> P5
9	IF out	>> RF2
10		>> nil

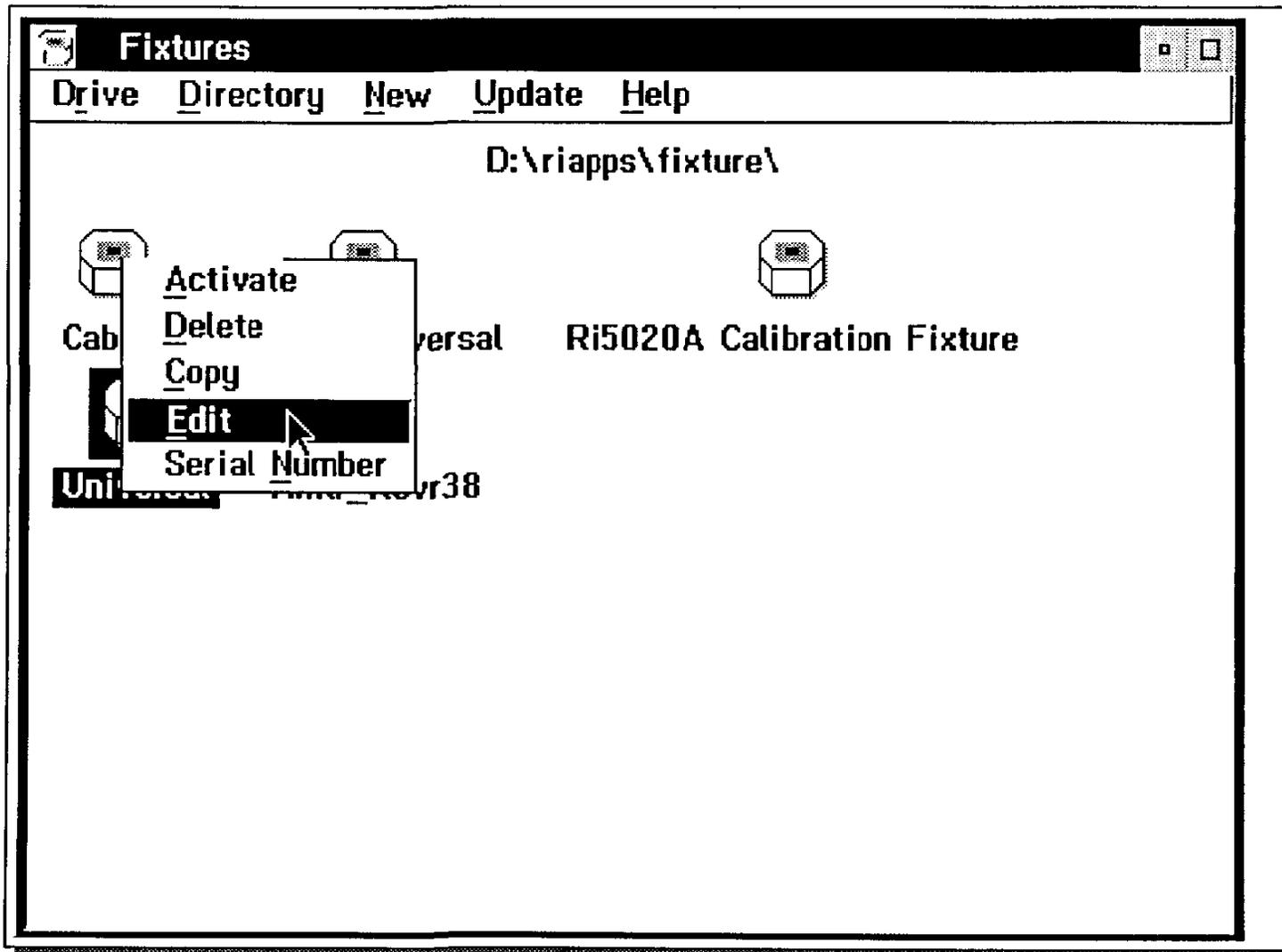
Fixture Connection

Calibration Type

Opening the Fixtures Container Window



Fixture Container Window Functions



Defining the Fixture

Fixture Definition

Fixture

Type

Control Switch Size (Bytes)

Paths

DUT IF Pin	Testhead Pin	Mode	Switch	Description
RF1	1			
RF2	2			
RF3	3			
RF4	4			

Description: