

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

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Test plan Listing for 'Class Example2'

Print

Test Plan: Class Example2 06-23-94
Test System: RoosA
DUT: all duts
Limit File: None

DISCONNECT SETTINGS

Static Settings:


DutCtl Vcc1: 0.0	DutCtl Vcc2: 0.0
DutCtl Vcc3: 0.0	Source RfState: off

1. TEST SECTION: DC Functional Tests

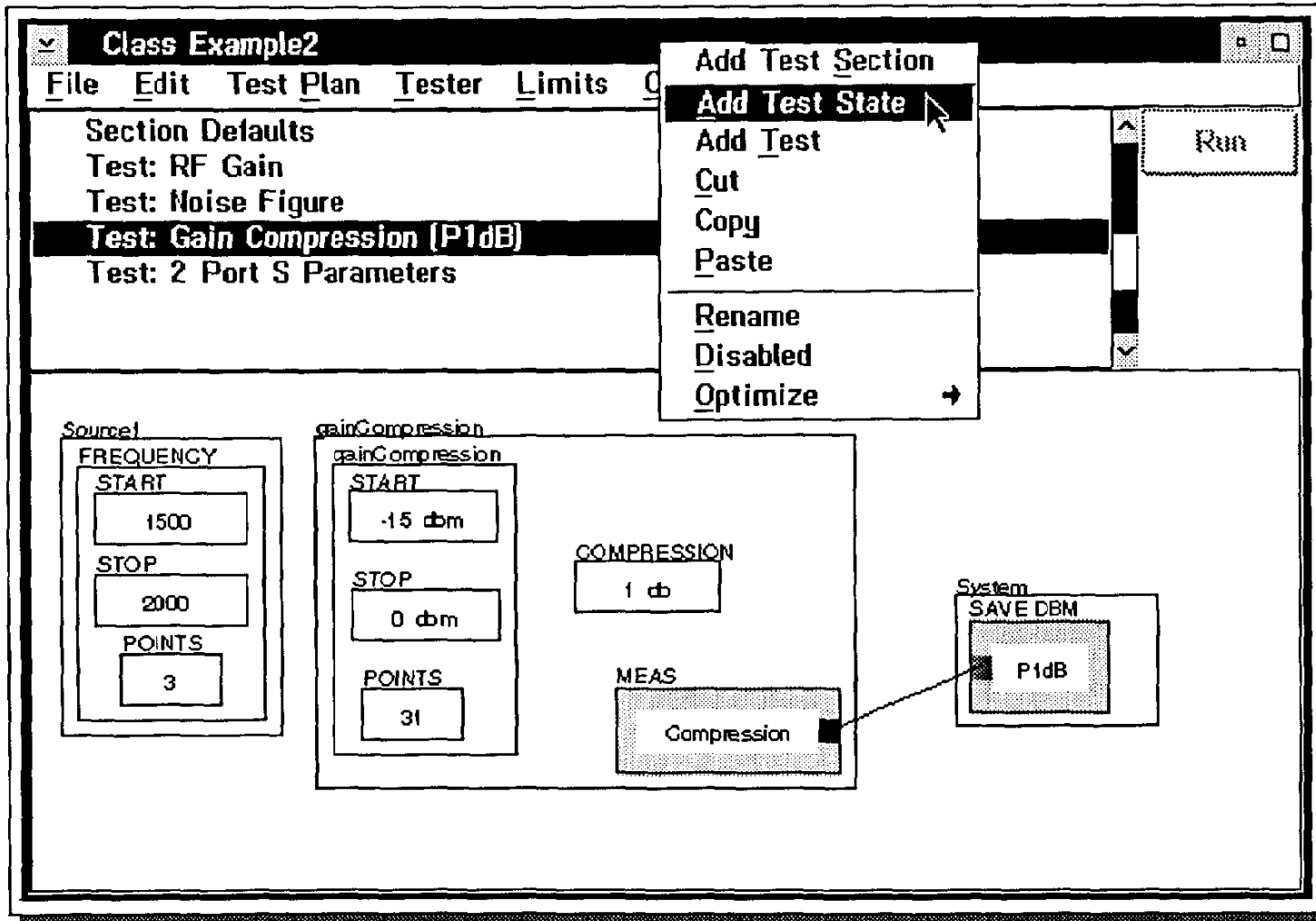
1.1. TEST PANEL: DC Current Drain

Static Settings:

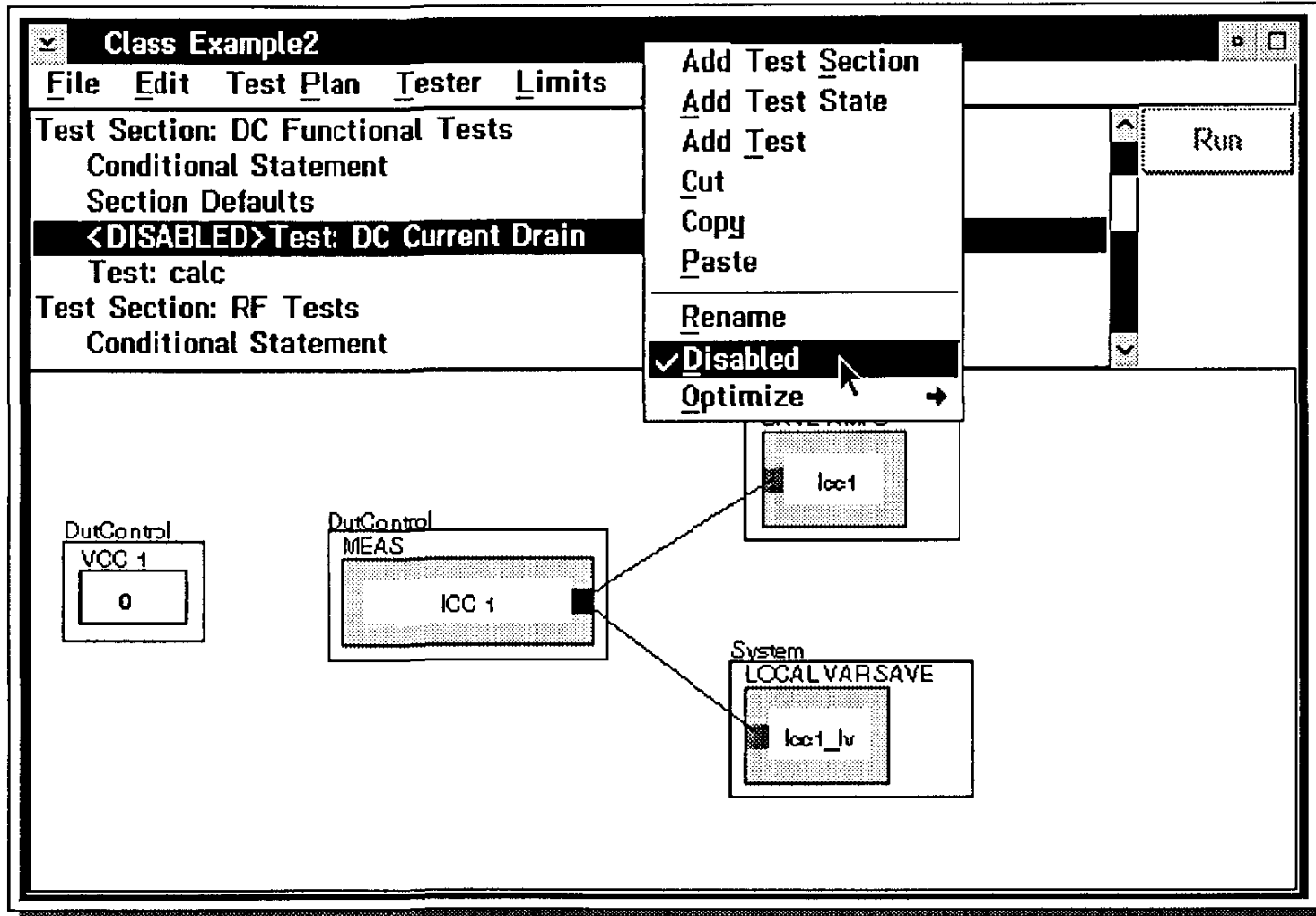
Fixture InputPort: 1	Fixture OutputPort: 2
System OutFreqOffset: 0.0	System OutFreqScale: 1.0
TestHead RecMode: int	TestHead SrcMode: int

Measurements: lcc1 

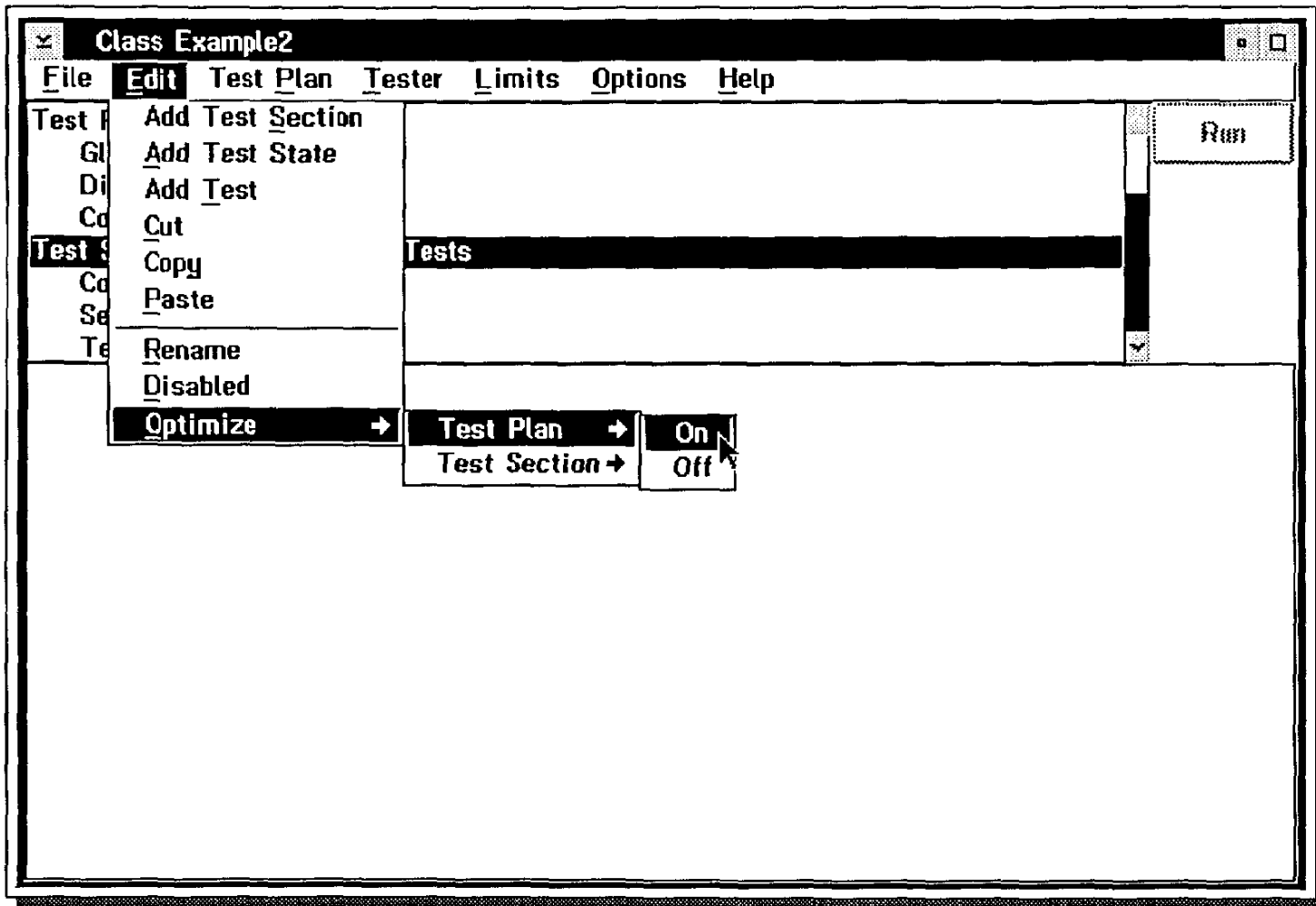
Adding a Test State Panel to the Test Plan



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 structure:

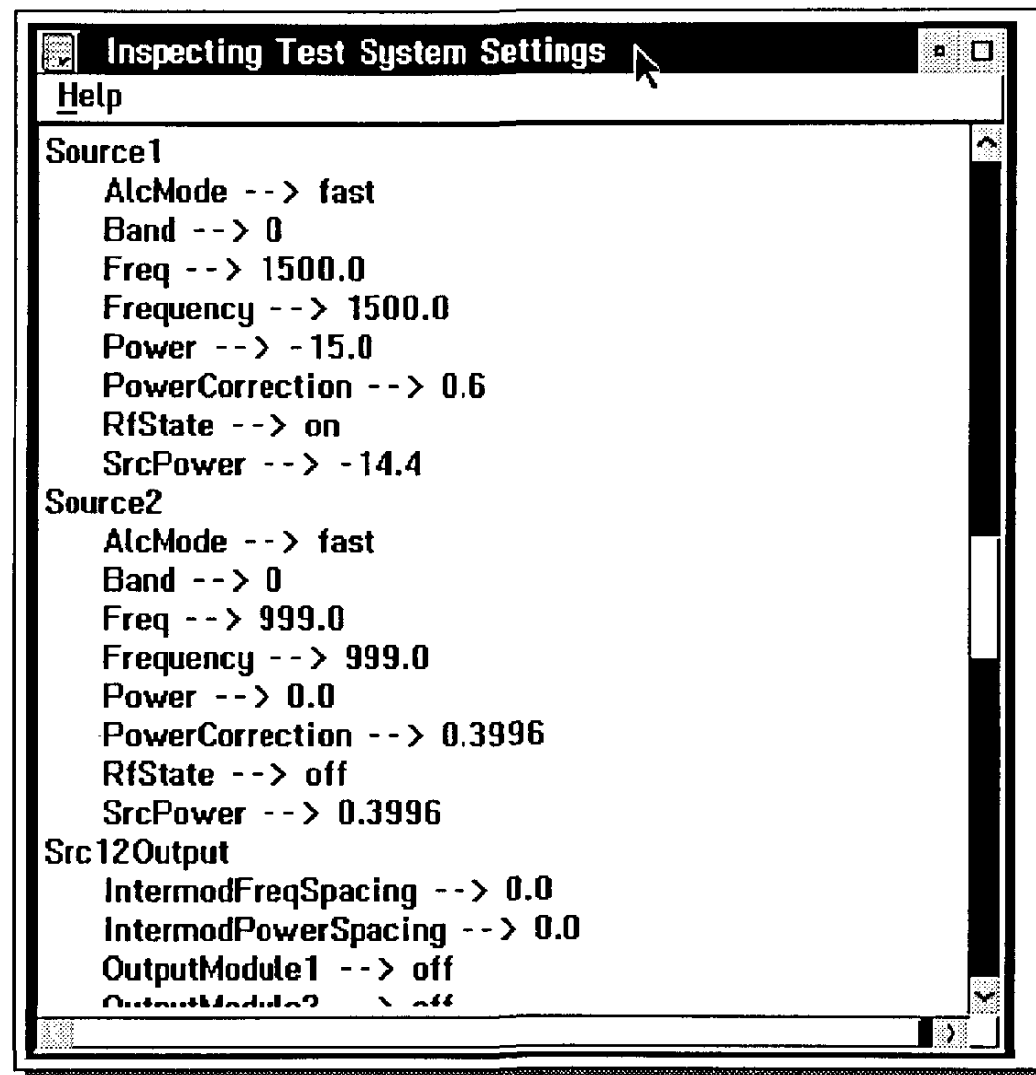
- Test Section: RF Tests**
 - Conditional Statement
 - Section Defaults
 - Test: RF Gain
 - Test: Noise Figure
 - Test: Gain Compression (P1dB)**
 - Test: 2 Port S Parameters

The "Test: Gain Compression (P1dB)" test is expanded to show the following parameters:

- Source1**
 - FREQUENCY
 - START: 1500
 - STOP: 2000
 - POINTS: 3
- gainCompression**
 - gainCompression
 - START: -15 dbm
 - STOP: 0 dbm
 - POINTS: 31
 - COMPRESSION: 1 db
 - MEAS: Compression
- System**
 - SAVE DBM: P1dB

A dashed line connects the "Compression" measurement block to the "SAVE DBM" parameter in the System block.

Inspecting the Compiled Settings



Display the Change in the Tester Settings for each Measurement

The screenshot displays 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 interface area is divided into several sections:

- Test Section: RF Tests**
 - Conditional Statement
 - Section Defaults
 - Test: RF Gain
 - Test: Noise Figure
 - Test: Gain Compression (P1dB)** (highlighted)
 - Test: 2 Port S Parameters
- Source1**
 - FREQUENCY
 - START: 1500
 - STOP: 2000
 - POINTS: 3
- gainCompression**
 - gainCompression
 - START: -15 dbm
 - STOP: 0 dbm
 - POINTS: 31
 - COMPRESSION: 1 db
 - MEAS: Compression
- System**
 - SAVE DBM: P1dB

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

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

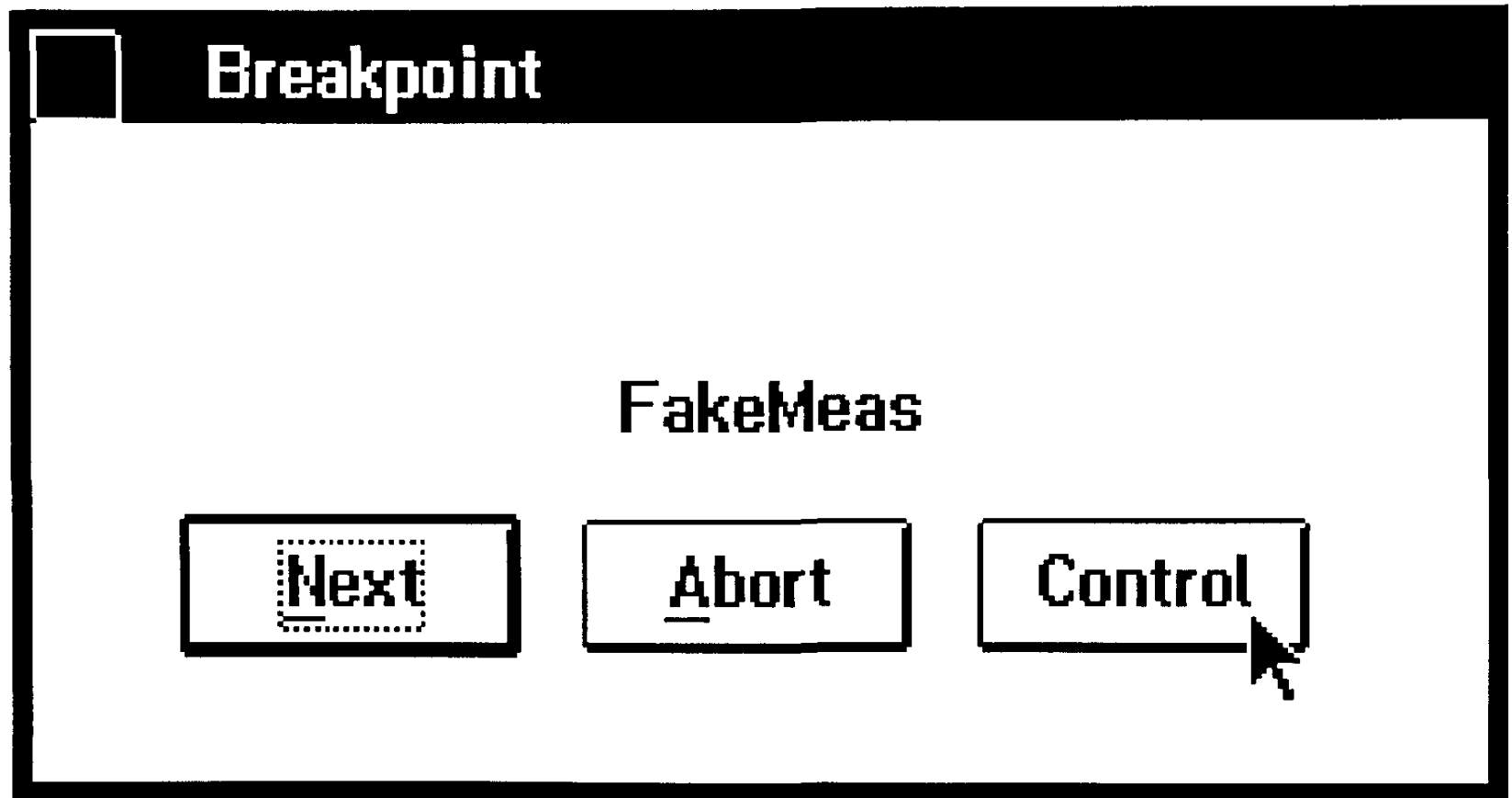
The screenshot shows a software window titled "Class Example2 on Active System (RoosA)". The menu bar includes File, Edit, Test Plan, Tester, Limits, Options, and Help. The "Options" menu is open, showing "Optimizer On" (checked), "Time Runs", "Clear Correlation Factors", "Display Compiled Settings",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

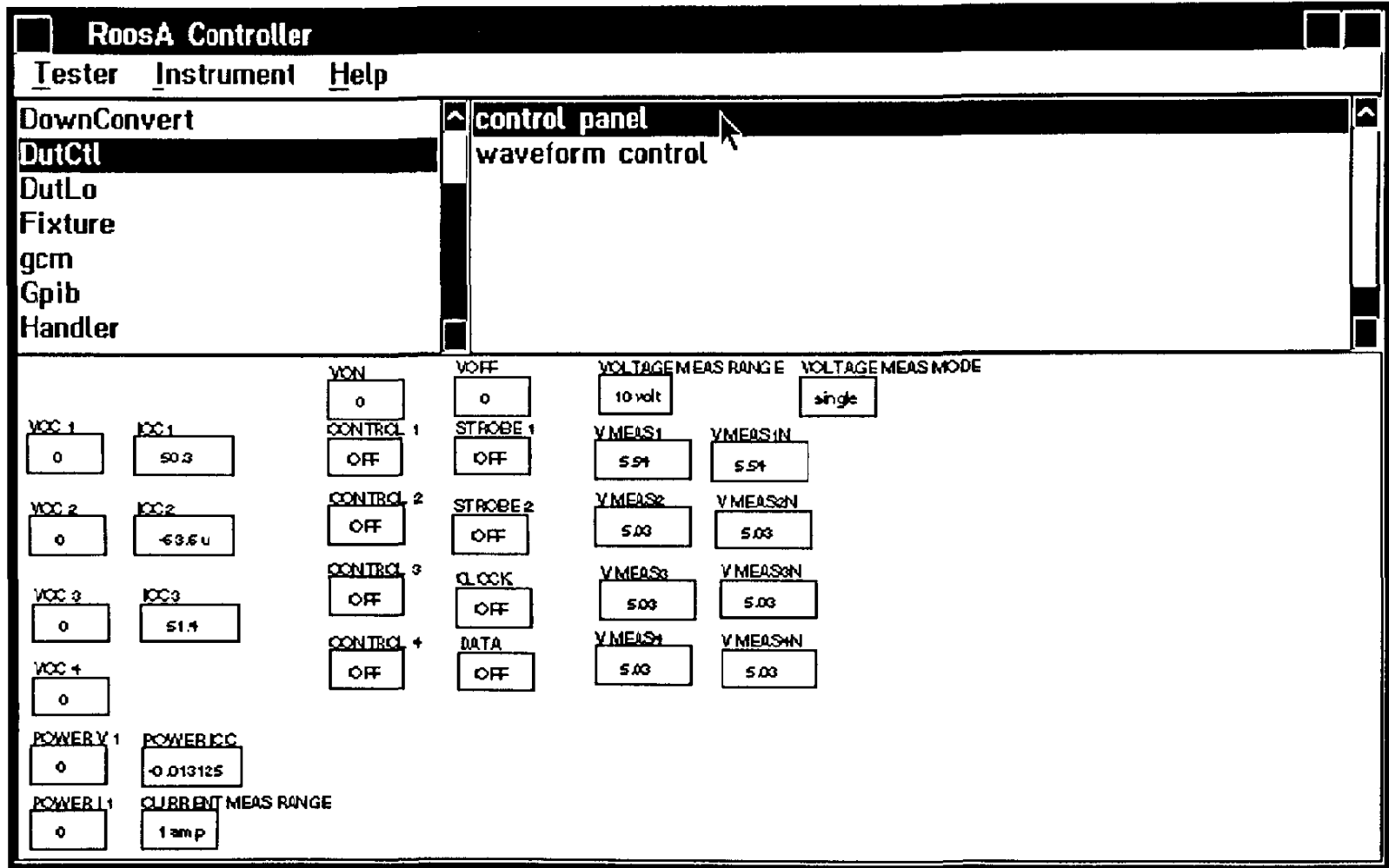
- Source:** FREQUENCY START: 1000, STOP: 2000, POINTS: 5.
- gcm:** START: -15 dbm, STOP: 0 dbm, STEPS: 31.
- COMPRESSION:** 1 db.
- MEAS:** Compression (highlighted with a thick border).
- System:** SAVE FORMAT: P1dB.

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

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

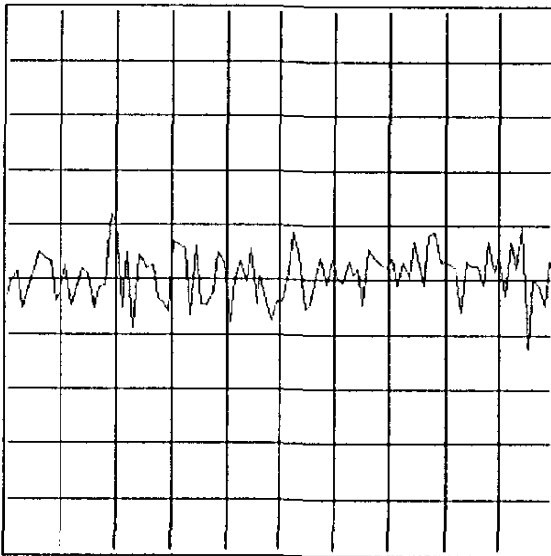
Vcc1

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
- Rift
- 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

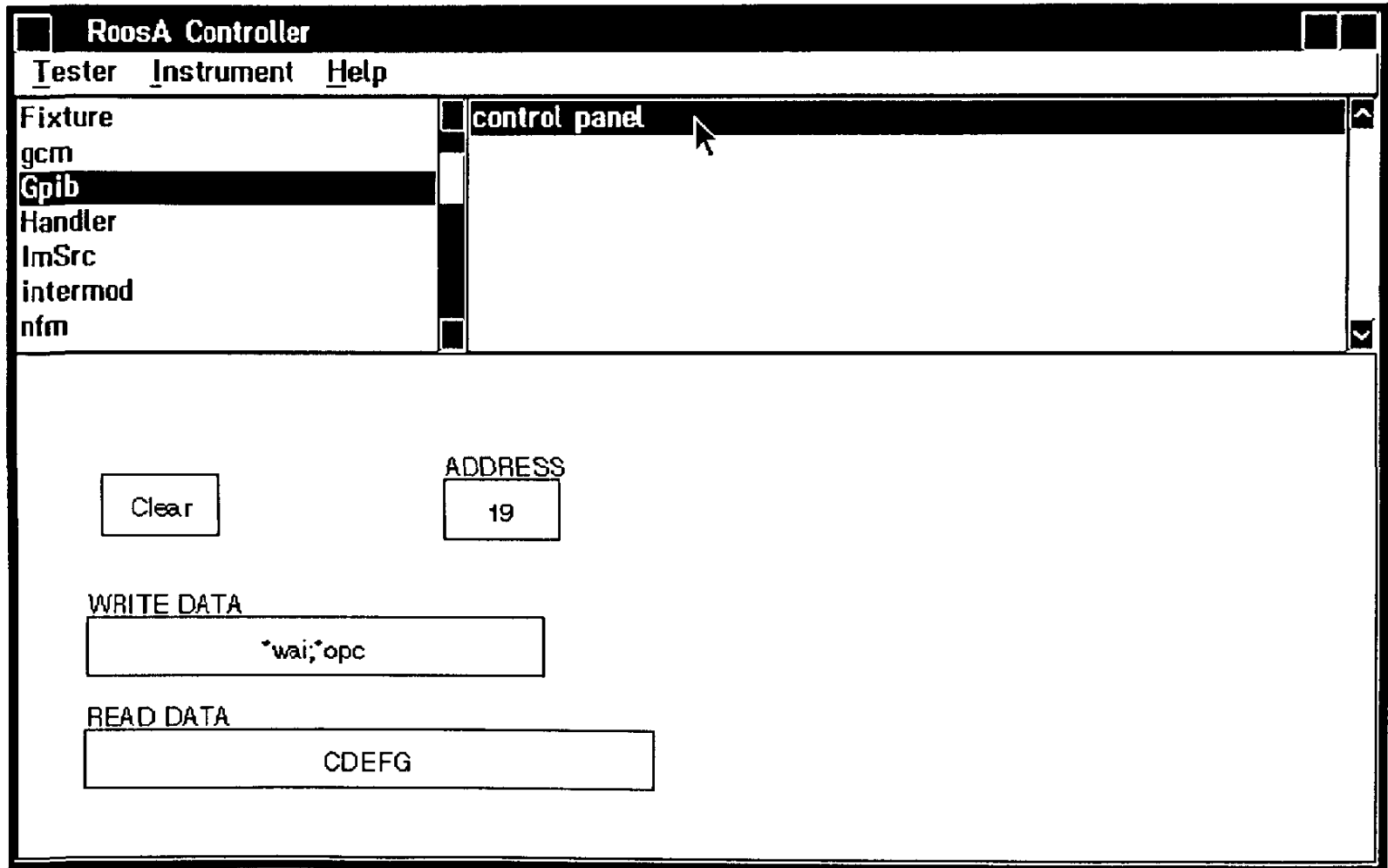
-18.603

IF GAIN

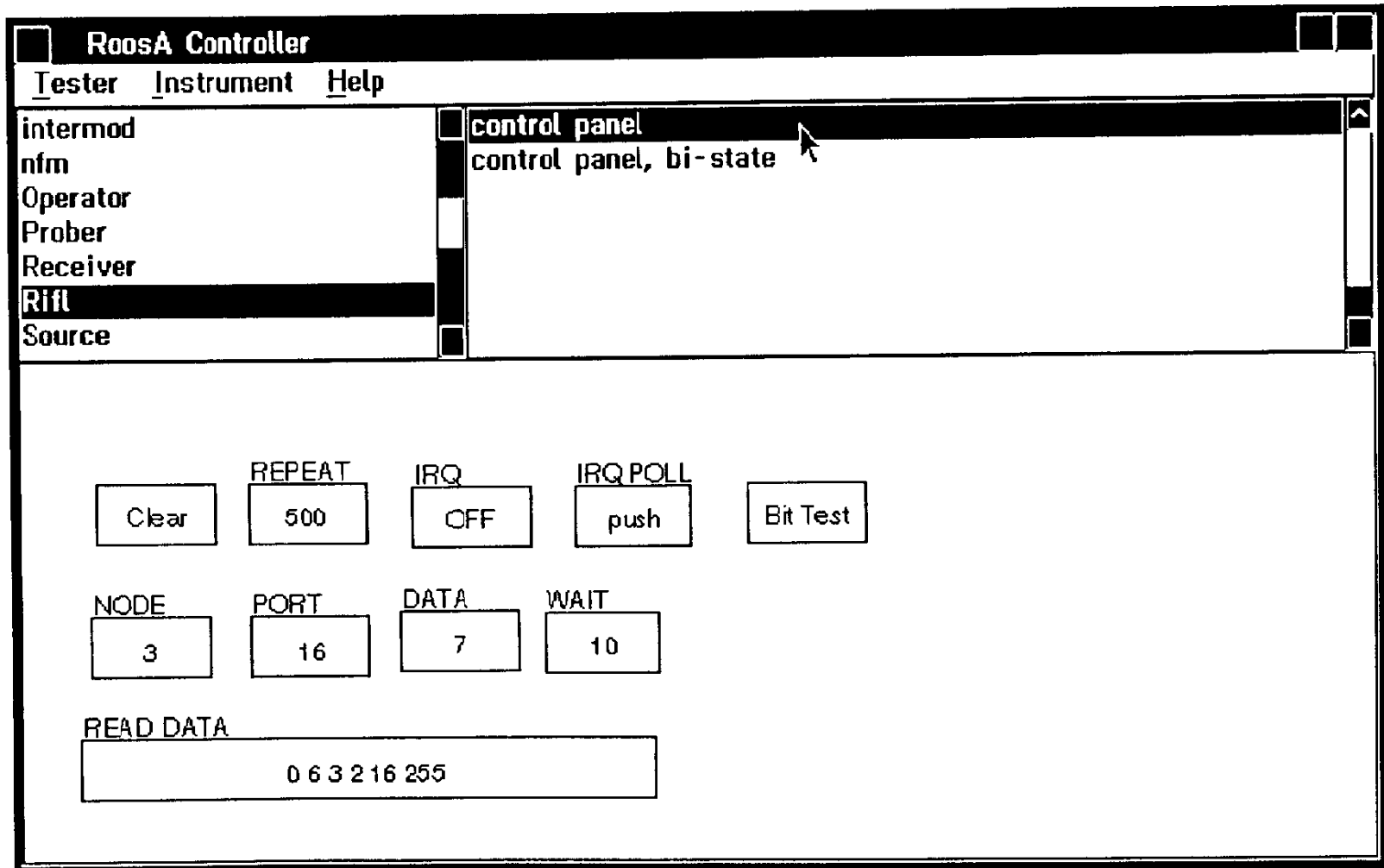
0

Sending GPIB Commands from Control Panel

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Manual Control of RIFL Interface



Removing a Break Point

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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" (checked), "Time Runs", "Clear Correlation Factors", "Display Compiled Settings", "Set Breakpoint", and "Remove Breakpoint". A mouse cursor is pointing at "Remove Breakpoint".

The main area of the window displays a block diagram of a test setup. It includes a "Source" block with "FREQUENCY" settings: "START" (1000), "STOP" (2000), and "POINTS" (5). An "gcm" block has "START" (-15 dbm), "STOP" (0 dbm), and "STEPS" (31). A "COMPRESSION" block is set to "1 db". A "MEAS" block is set to "Compression". A "System" block has "SAVE FORMAT" set to "P1dB". A dashed line connects the "Compression" block to the "P1dB" setting in the "System" block.

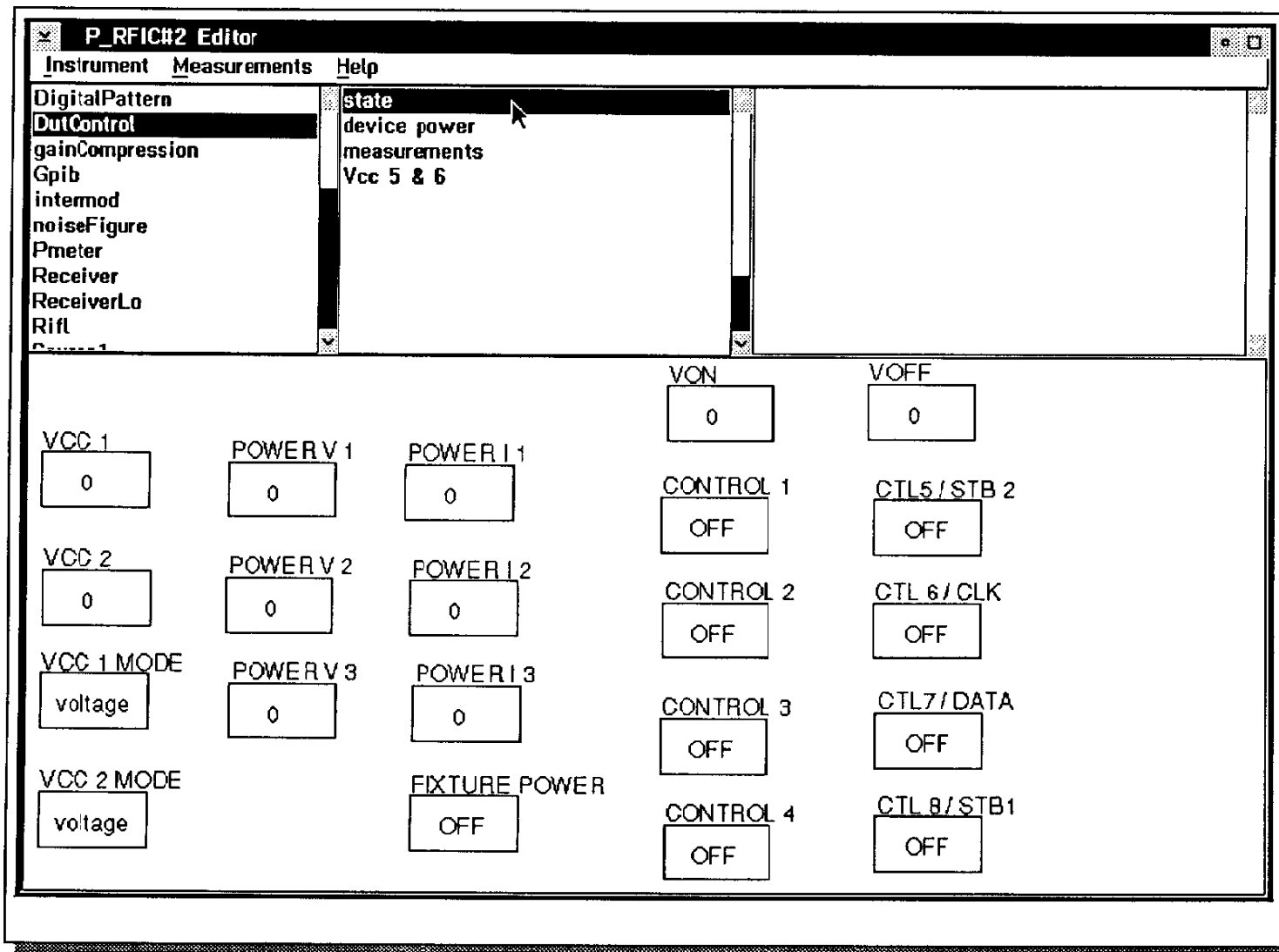
Tester Viewer Window



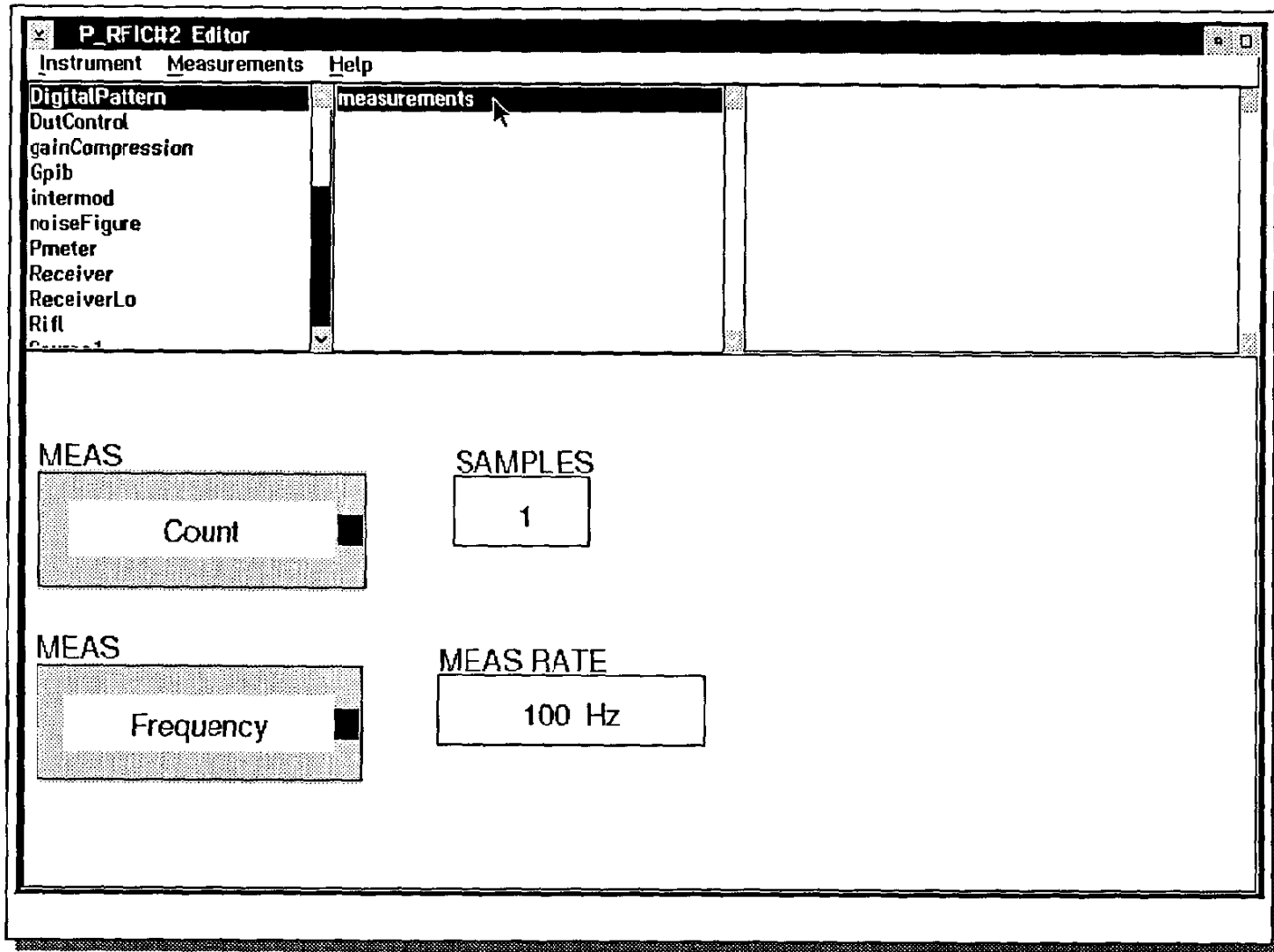
- **Buttons are Organized by Instrument and Button Type**
- **Each Instrument is listed in the Tester Viewer Window**
- **The Setting shown for each Button is its idle State**
- **Help Text is provided for each Button (FI or Show Note)**
- **Software Reference for Each Button in Section 5**
- **Buttons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



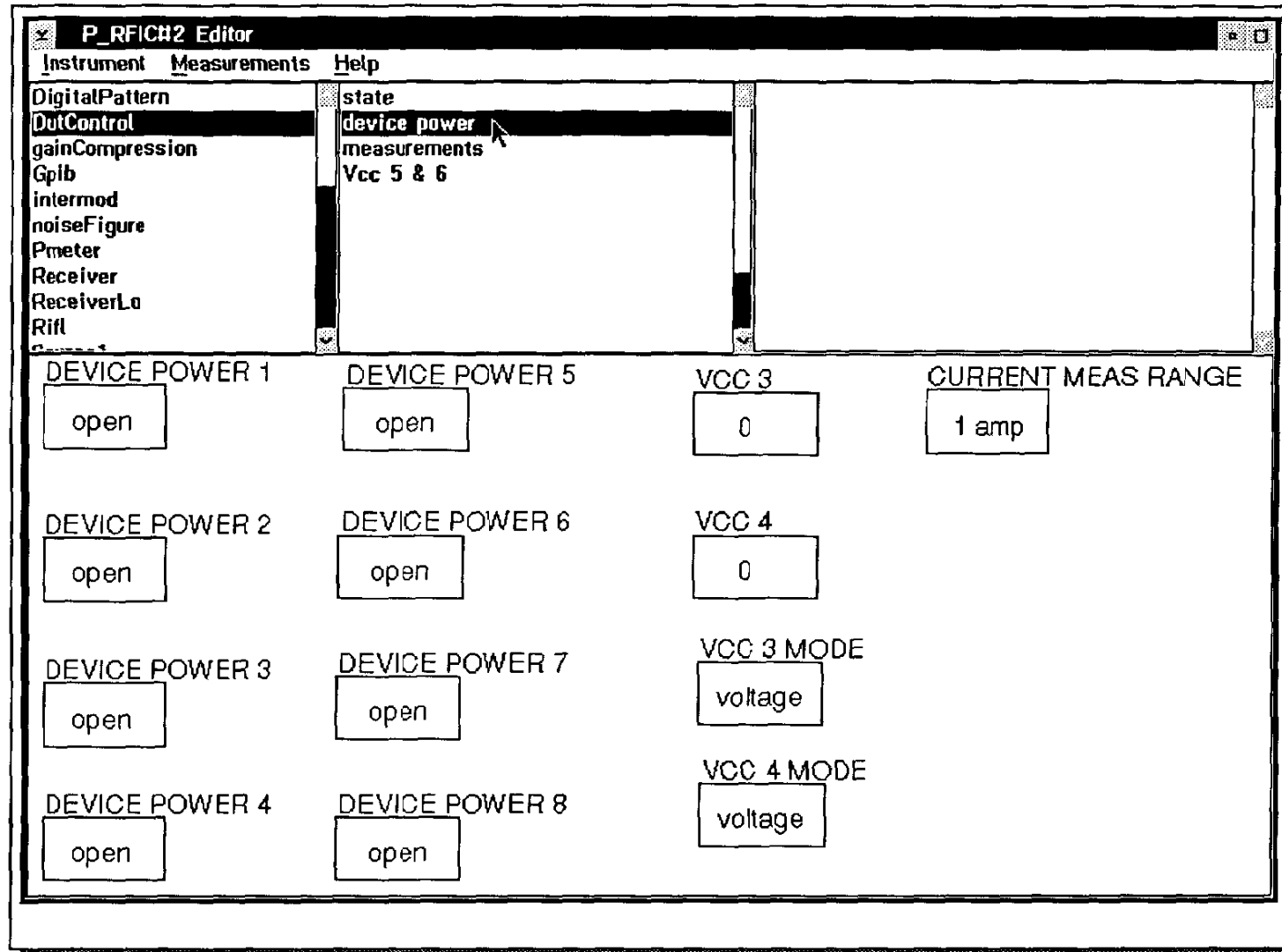
Programmable DUT Controller - State Buttons



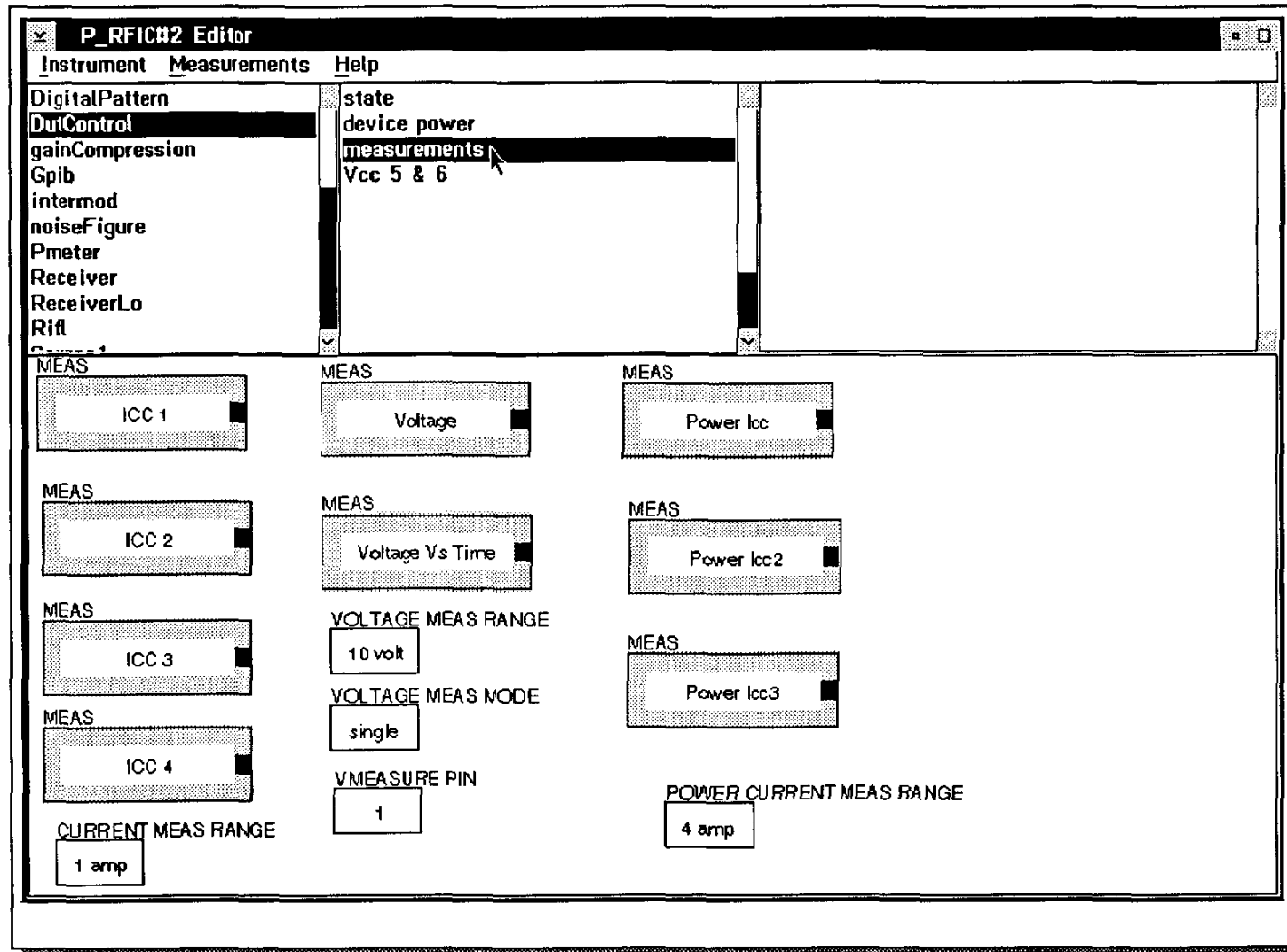
Digital Pattern Measurement Buttons



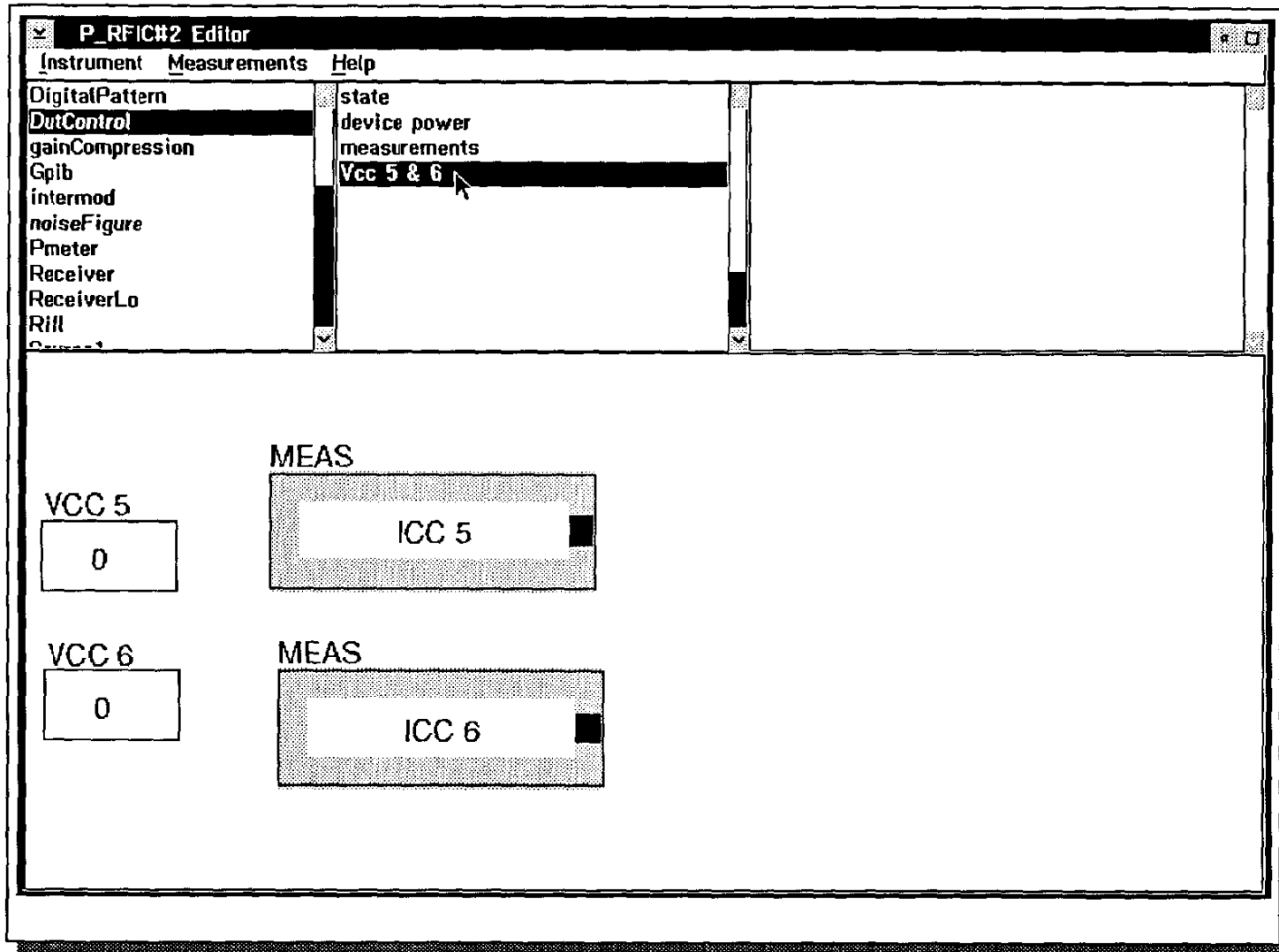
Programmable DUT Controller - Device Power Buttons



Programmable DUT Controller - Measurement Buttons



Programmable DUT Controller - VCC 5 & 6 Buttons



Programmable DUT Controller - New Buttons

New Improved DUT Editor

Easier To Use and See



Roos Instruments

Pugsley Editor
Instrument Measurements Help

OutControl	vcc1,2
gainCompression	device power
Gpib	measurements
HiSpeedDigital	hi current power supplies
intermod	vcc5,6
noiseFigure	current control
Oscilloscope	
Receiver	
ReceiverLo	
Rifl	
Source1	
Source2	

VCC 1
0

VCC 2
0

FIXTURE POWER
OFF

Pugsley Editor

Instrument Measurements Help

DutControl	vcc1,2
gainCompression	device power
Gpib	measurements
SpeedDigital	h) current power supplies
Intermod	vcc5,6
noiseFigure	current control
Oscilloscope	
Receiver	
ReceiverLo	
Rfl	
Source1	
Source2	

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	
DEVICE POWER 4 open	DEVICE POWER 8 open	

Pugsley Editor

Instrument Measurements Help

OutControl
gainCompression
GpiB
HiSpeedDigital
Intermod
noiseFigure
Oscilloscope
Receiver
ReceiverLo
Rifl
Source1
Source2

vcc1,2
device power
measurements
hi current power supplies
vcc5,6
current control

MEAS	MEAS	MEAS
Voltage	Current	Voltage Vs Time
VOLTAGE MEAS MAX 10	CURRENT MEAS MAX 1	SAMPLES 21
VOLTAGE MEAS MODE single	IMEASURE Vcc1	MEAS RATE 19841.26984 Hz
VMEASURE Vm 1		

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

- vcc1,2
- device power
- measurements
- hi current power supplies**
- vcc5,6
- current control

POWER V 1

0

POWER I 1

0

POWER V 2

0

POWER I 2

0

POWER V 3

0

POWER I 3

0

OutControl	vcc1,2
gainCompression	device power
Gpib	measurements
HiSpeedDigital	hi current power supplies
Intermod	vcc5,6
noiseFigure	current control
Oscilloscope	
Receiver	
ReceiverLo	
Rifl	
Source1	
Source2	

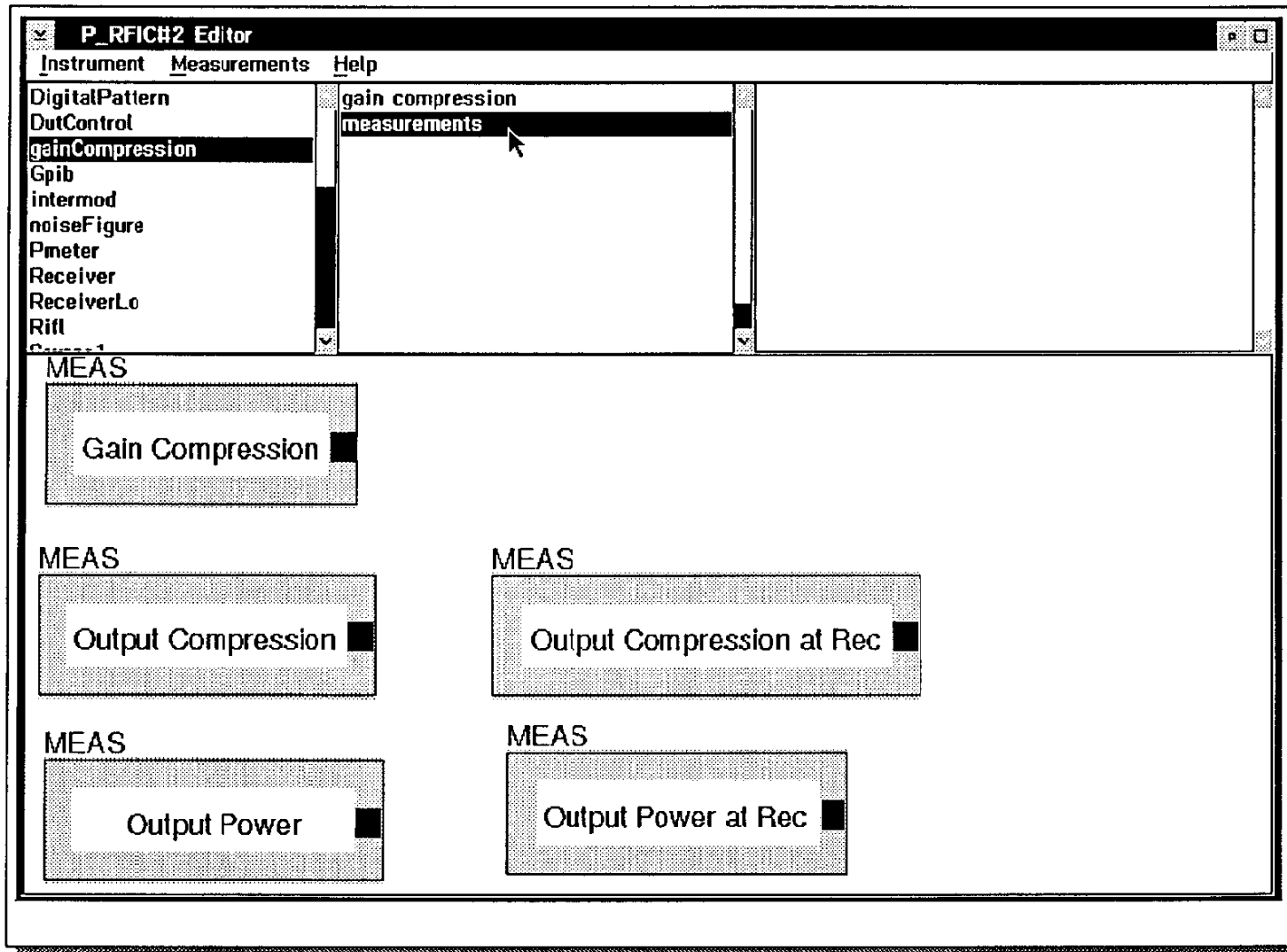
VCC 1 MODE	ICC 1
voltage	0
VCC 2 MODE	ICC 2
voltage	0
VCC 3 MODE	ICC 3
voltage	0
VCC 4 MODE	ICC 4
voltage	0

Gain Compression - State Buttons

The screenshot shows the 'P_RFIC#2 Editor' window with the 'Measurements' menu open. The 'gain compression' option is selected, and its description is shown in a tooltip: 'Sets the number of averages to use for the low power (first point). Uses the max of this or system averages'. Below the menu, the 'gain compression' settings are displayed in a control panel.

Parameter	Value
START	-10 dbm
STOP	0 dbm
POINTS	11
GAIN AVERAGES	1
COMPRESSION	1 db

Gain Compression - Measurement Buttons



Pugsley Editor

Instrument Measurements Help

OutControl
gainCompression
Gpib
HiSpeedDigital
intermod
noiseFigure
Oscilloscope
Receiver
ReceiverLo
Rifl
Source1
Source2

measurements
Bit Error Rate

MEAS

Frequency

MEAS RATE

100 Hz

MEAS

Counter

MEAS

Pulse Count

COUNTER MODE

Count

SAMPLES

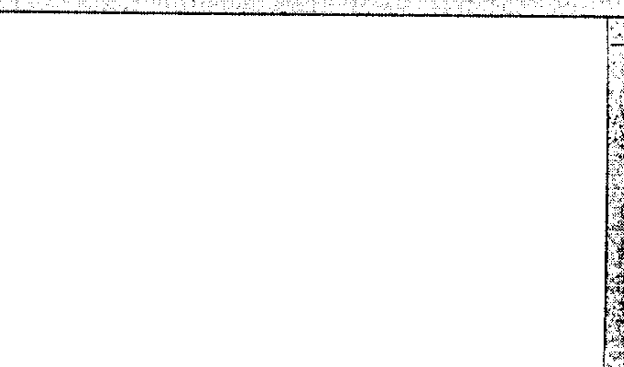
1

Pugstey Editor

Instrument Measurements Help

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

- measurements
- Bit Error Rate**



MEAS

Bit Error Rate

DATA POLARITY

Normal

DATA BITS

Single

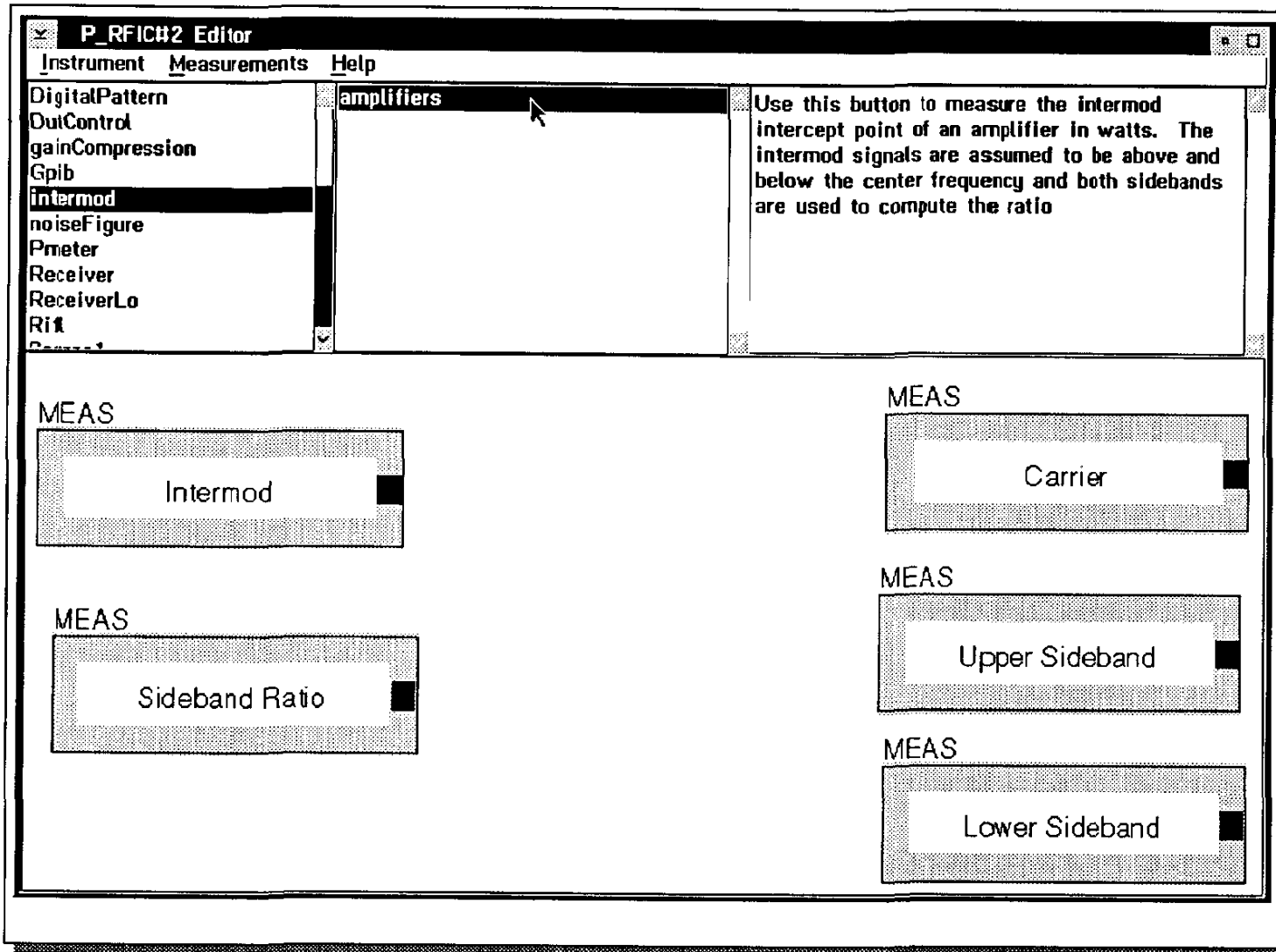
BIT RATE

100

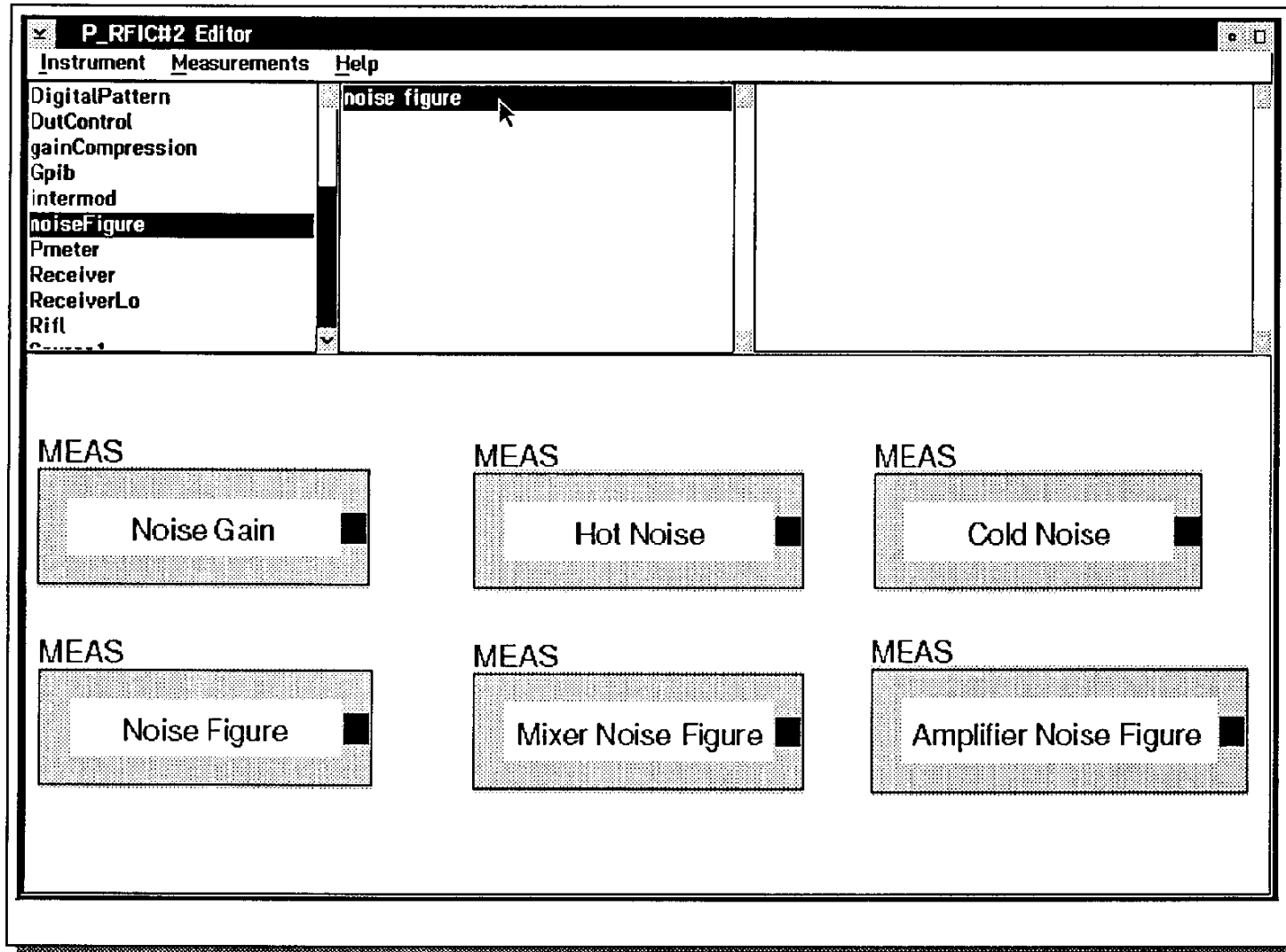
MEAS RATE

100 Hz

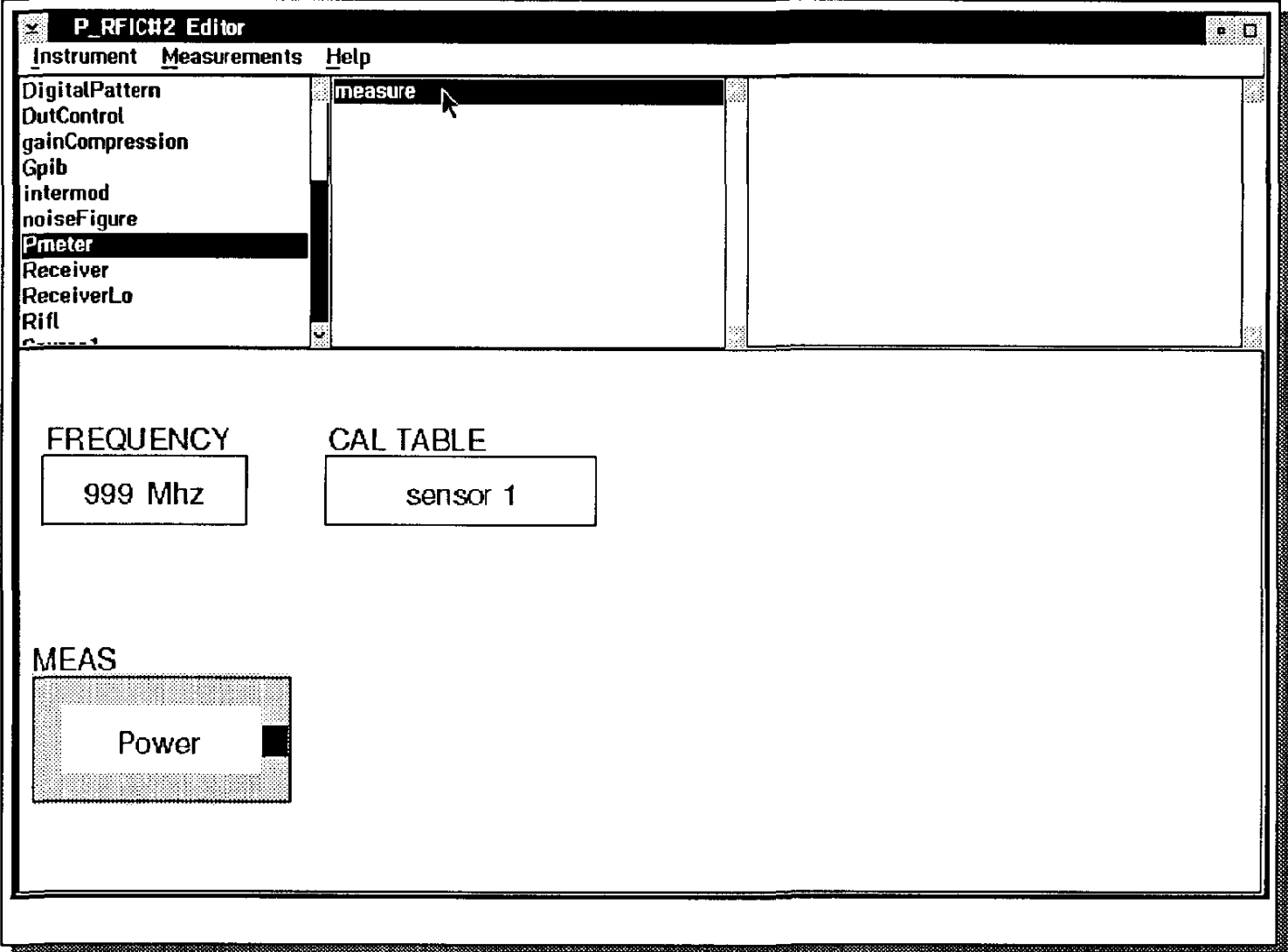
Intermod Measurement Buttons



Noise Figure Measurement Buttons



Power Meter Measurement Buttons



DutControl	state
gainCompression	measurements
Gpib	calculations
HiSpeedDigital	
Intermod	
noiseFigure	
Oscilloscope	
Receiver	
ReceiverLo	
Rifl	
Source1	
Source2	

WF 5 GAIN

1

MAX VOLTAGE

0.4

WF 6 GAIN

1

WF 7 GAIN

1

INPUT FREQ

1 M

VM 7 GAIN

1

VM 8 GAIN

1

TIME PER DIV

10 u

CHANNEL 2

Wf 5

CHANNEL 1

Wf 7

SAMPLES

100

Instrument Measurements Help

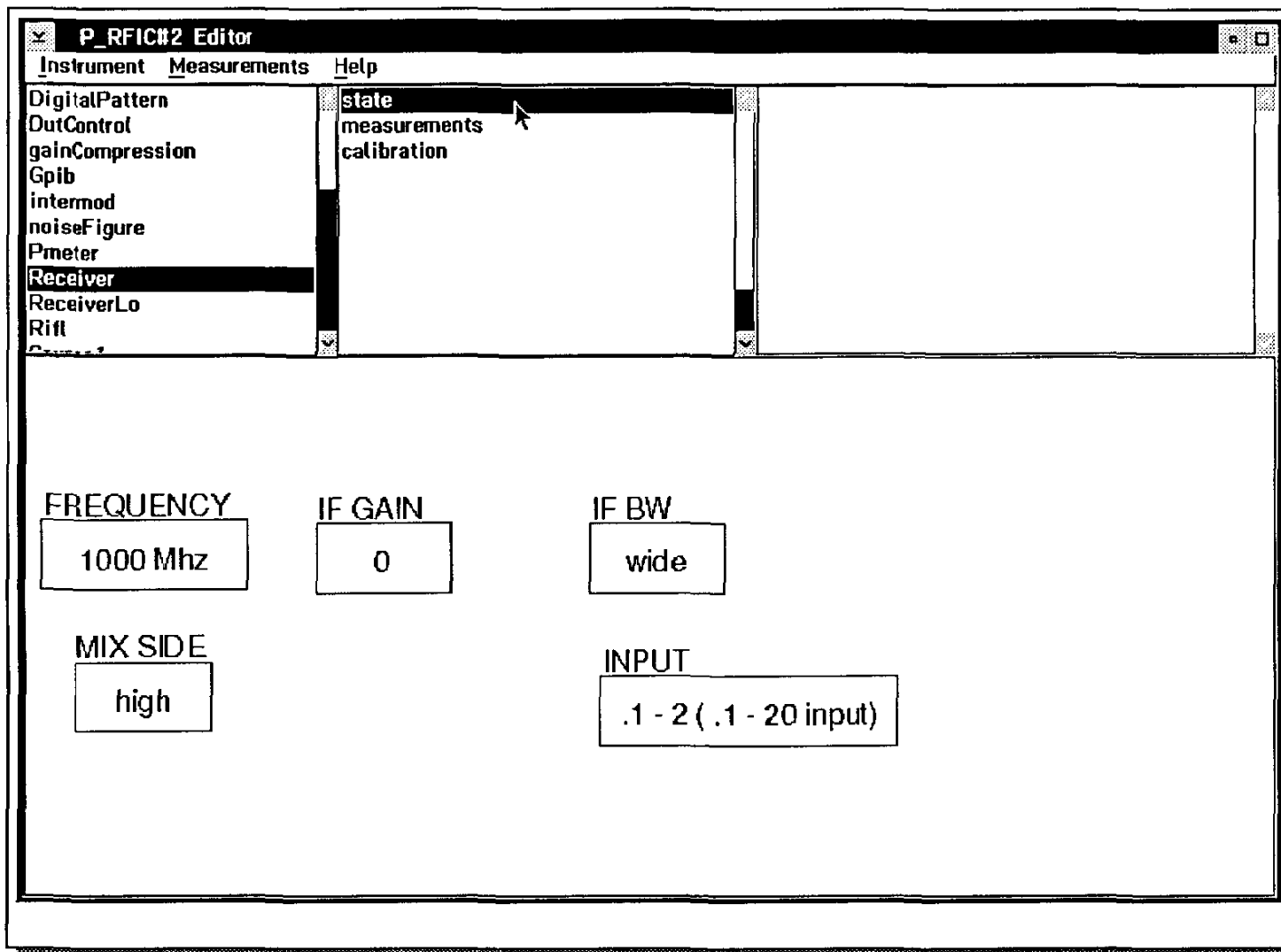
DutControl	state
gainCompression	measurements
Gplb	calculations
HiSpeedDigital	
intermod	
noiseFigure	
Oscilloscope	
Receiver	
ReceiverLo	
Rfl	
Source1	
Source2	

MEAS Channel 1	EXTRACT Voltage
MEAS Channel 2	MEAS Complex
MEAS Both Channels	

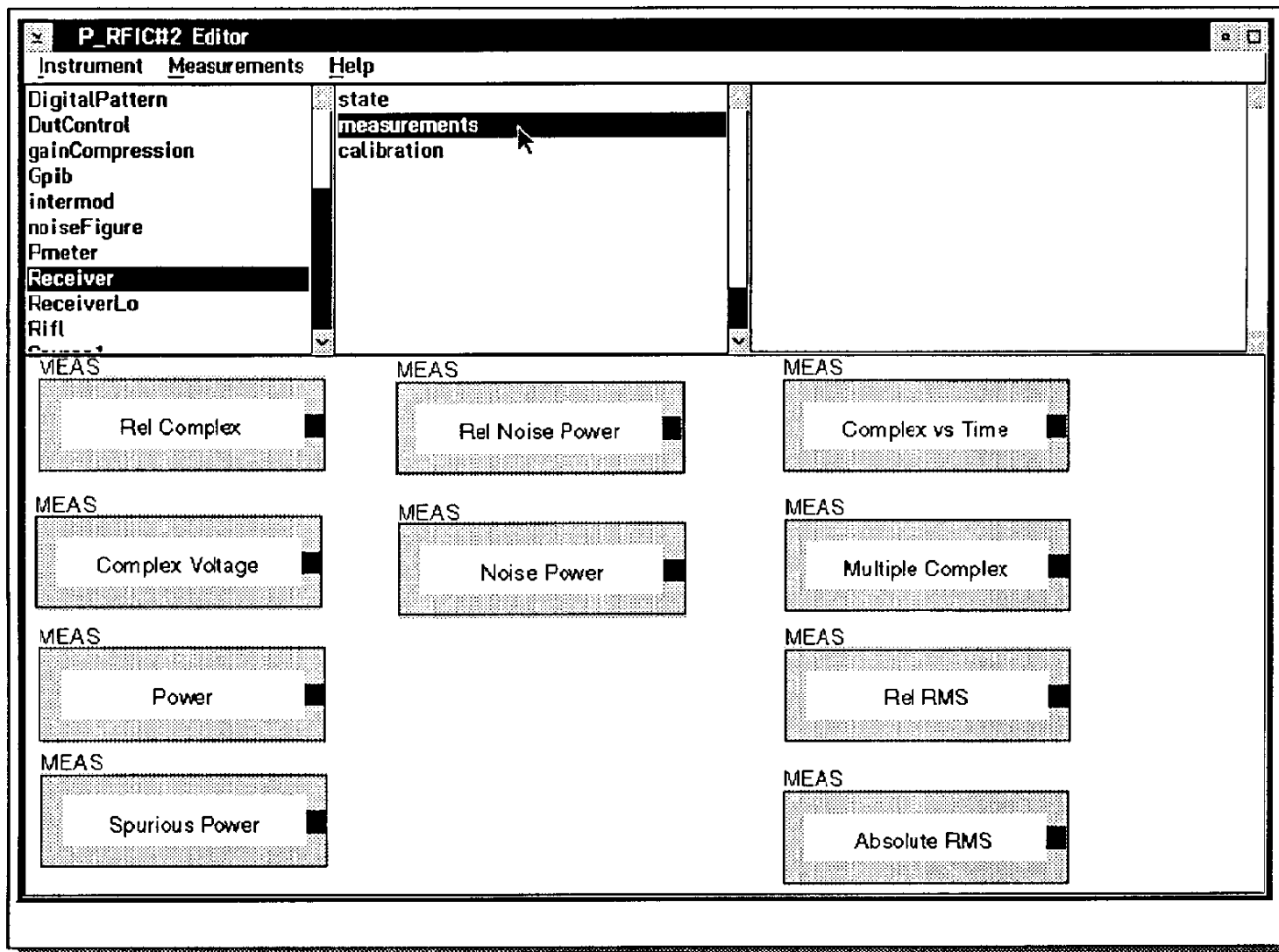
DutControl	state
gainCompression	measurements
Gpib	calculations
HiSpeedDigital	
Intermod	
noiseFigure	
Oscilloscope	
Receiver	
ReceiverLo	
Riff	
Source1	
Source2	

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

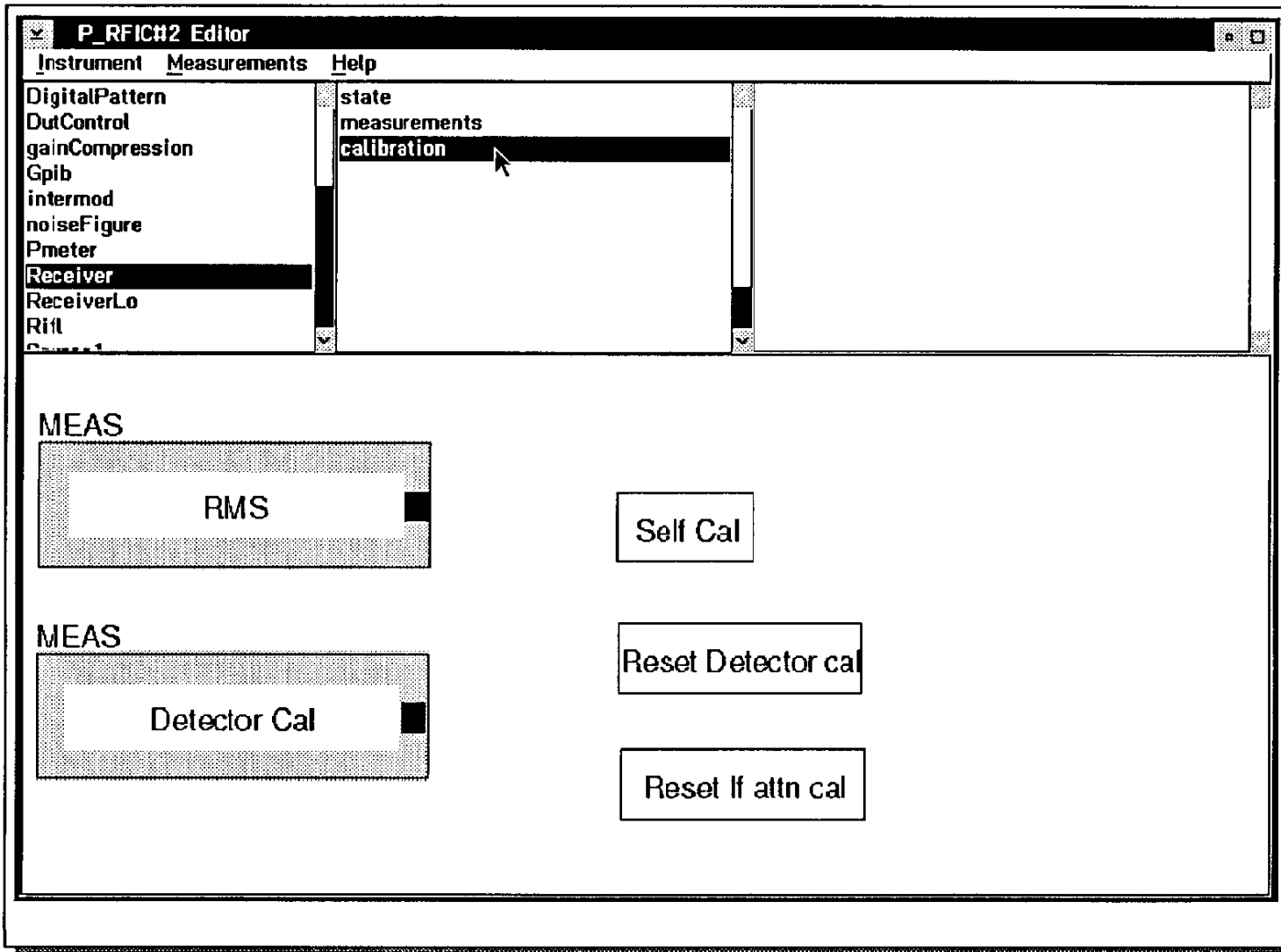
System Receiver - State Buttons



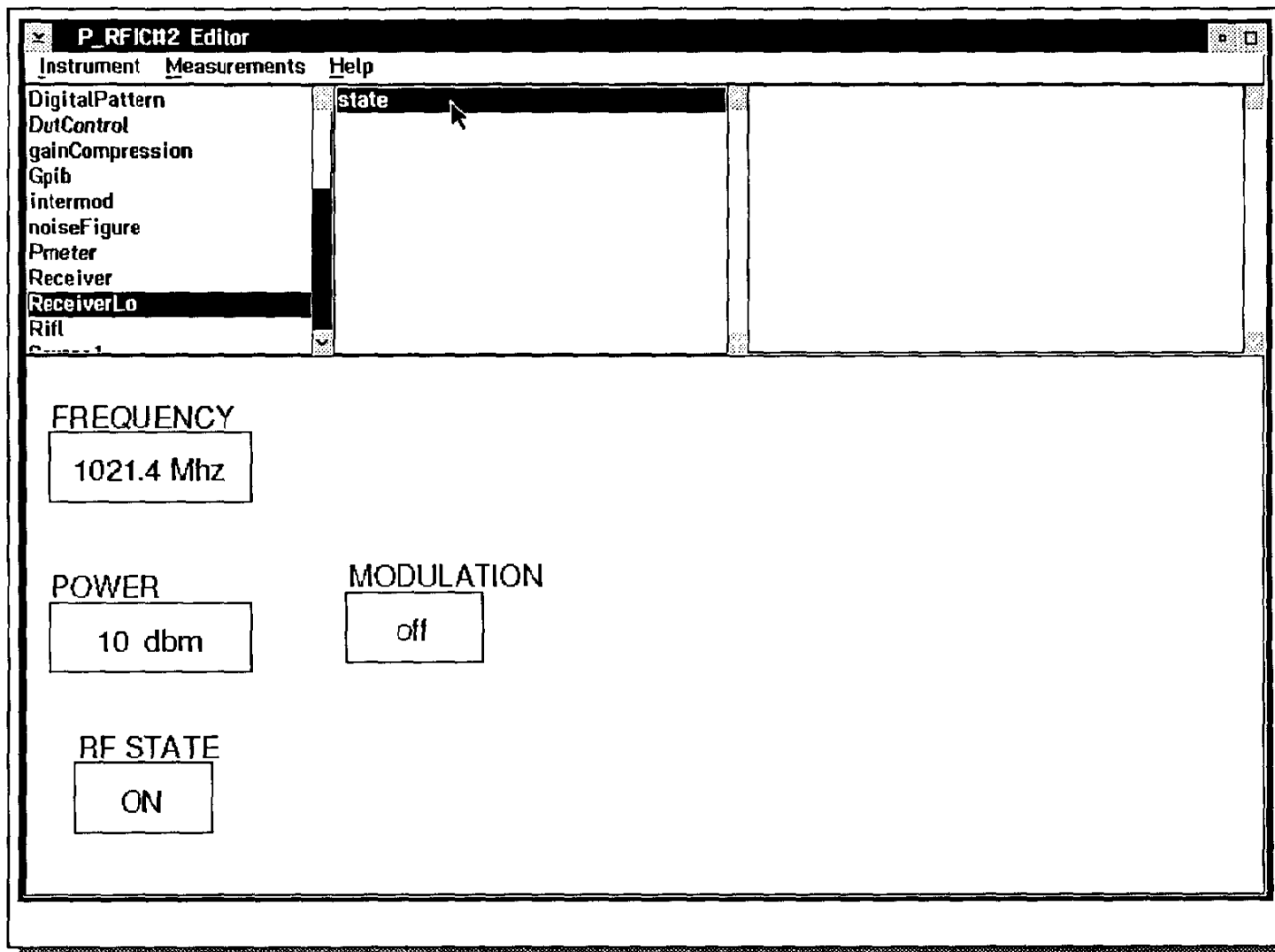
System Receiver - Measurement Buttons



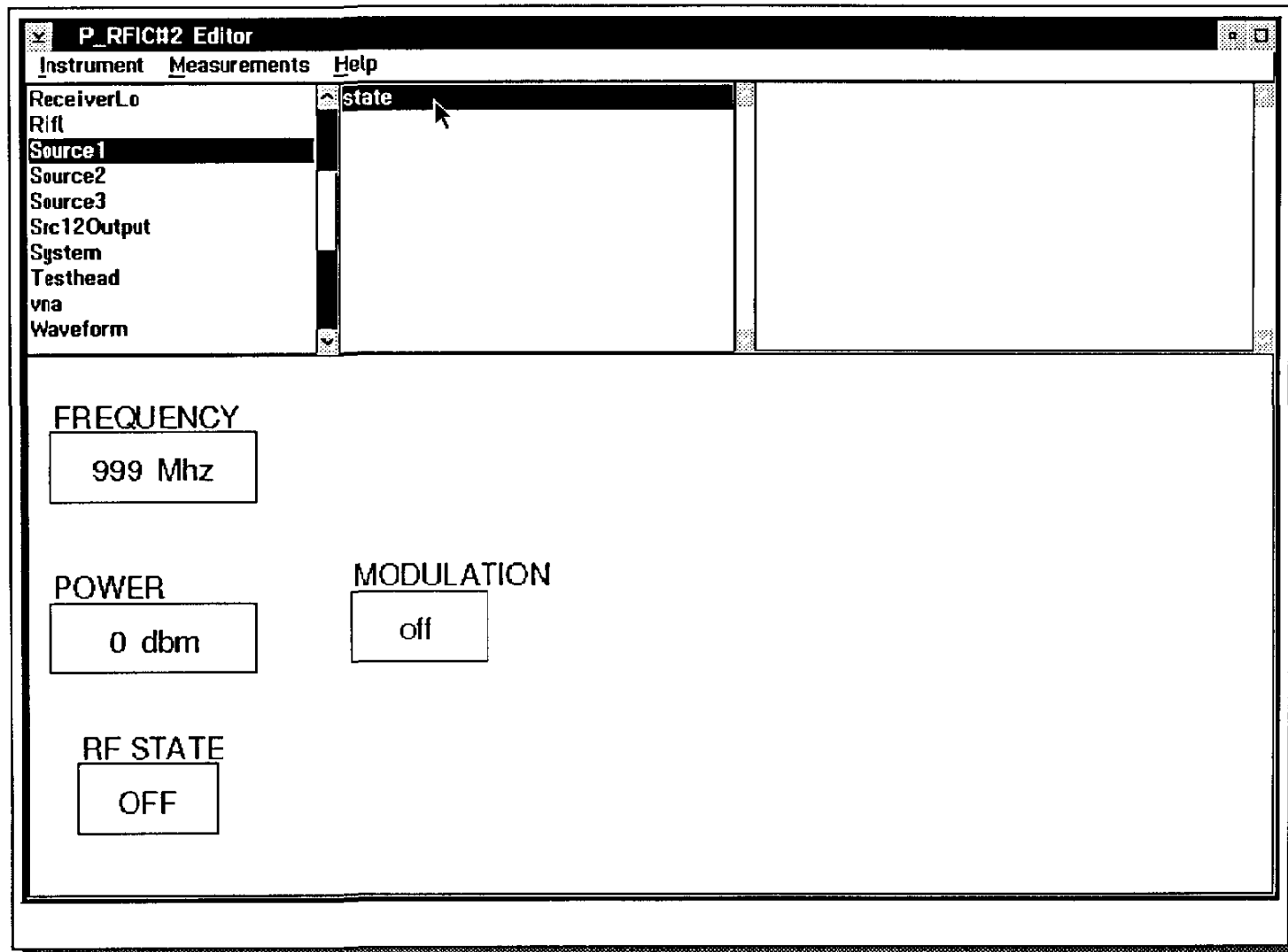
System Receiver - Calibration Buttons



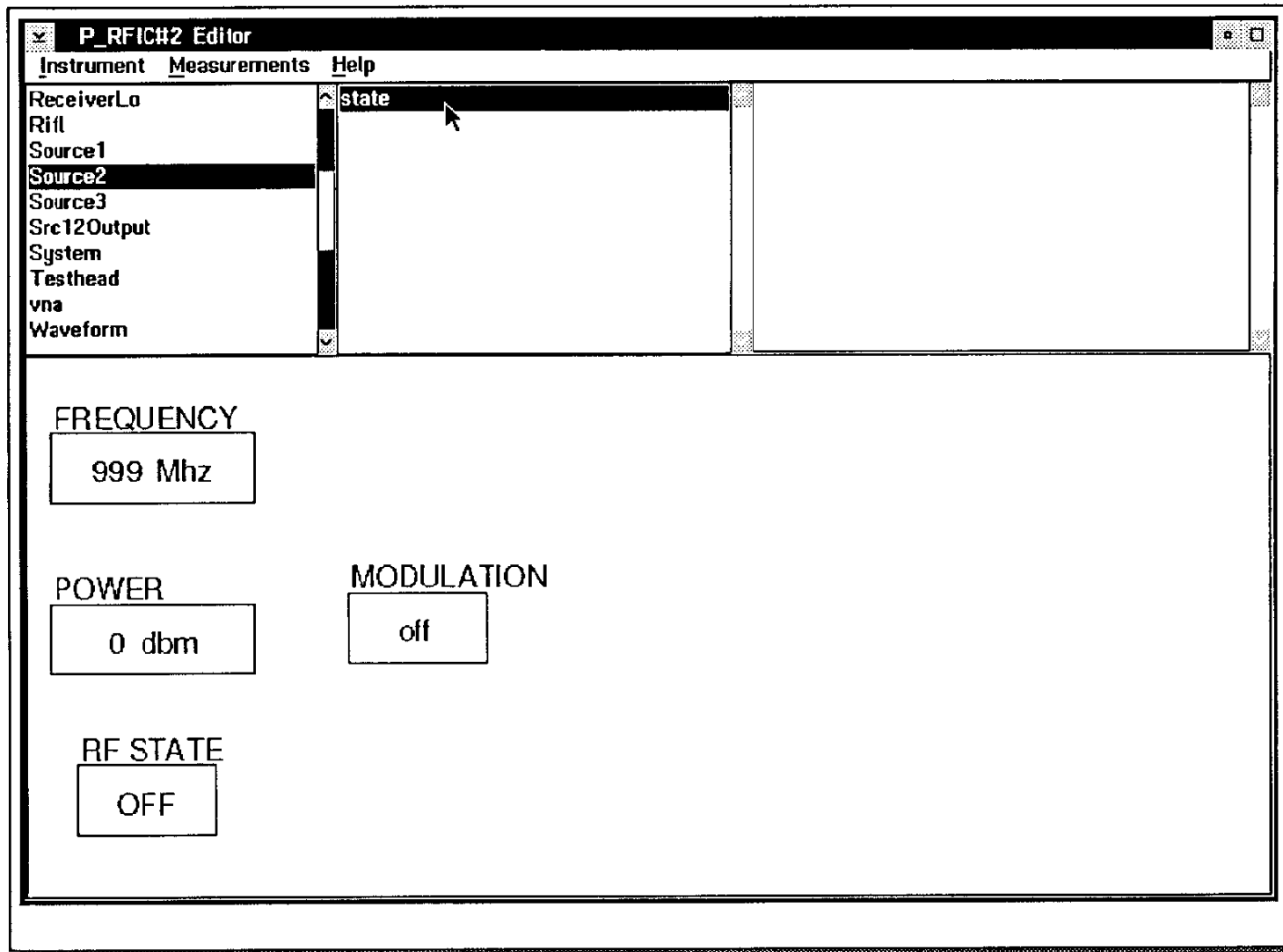
Receiver LO - State Buttons



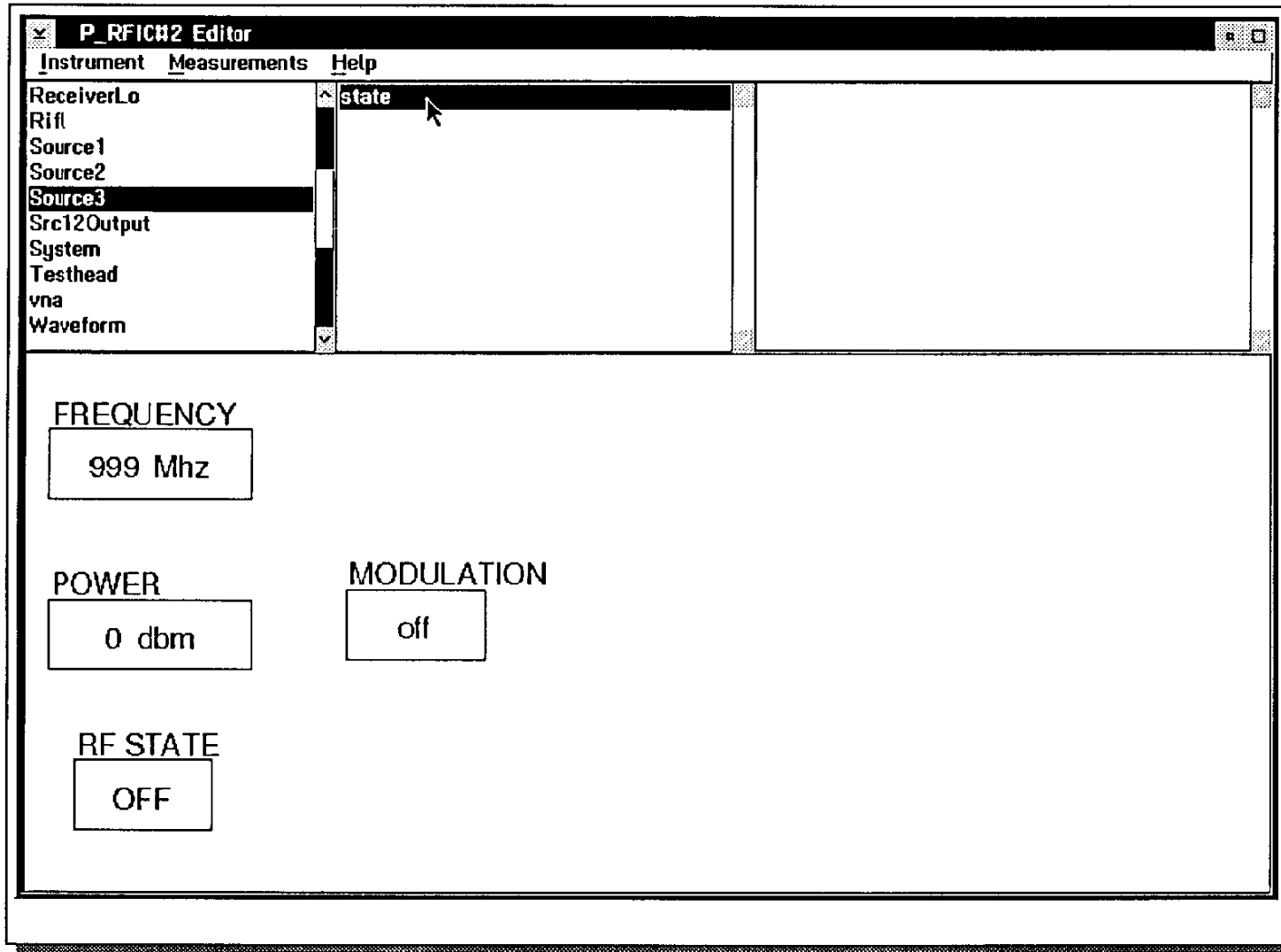
Source 1 - State Buttons



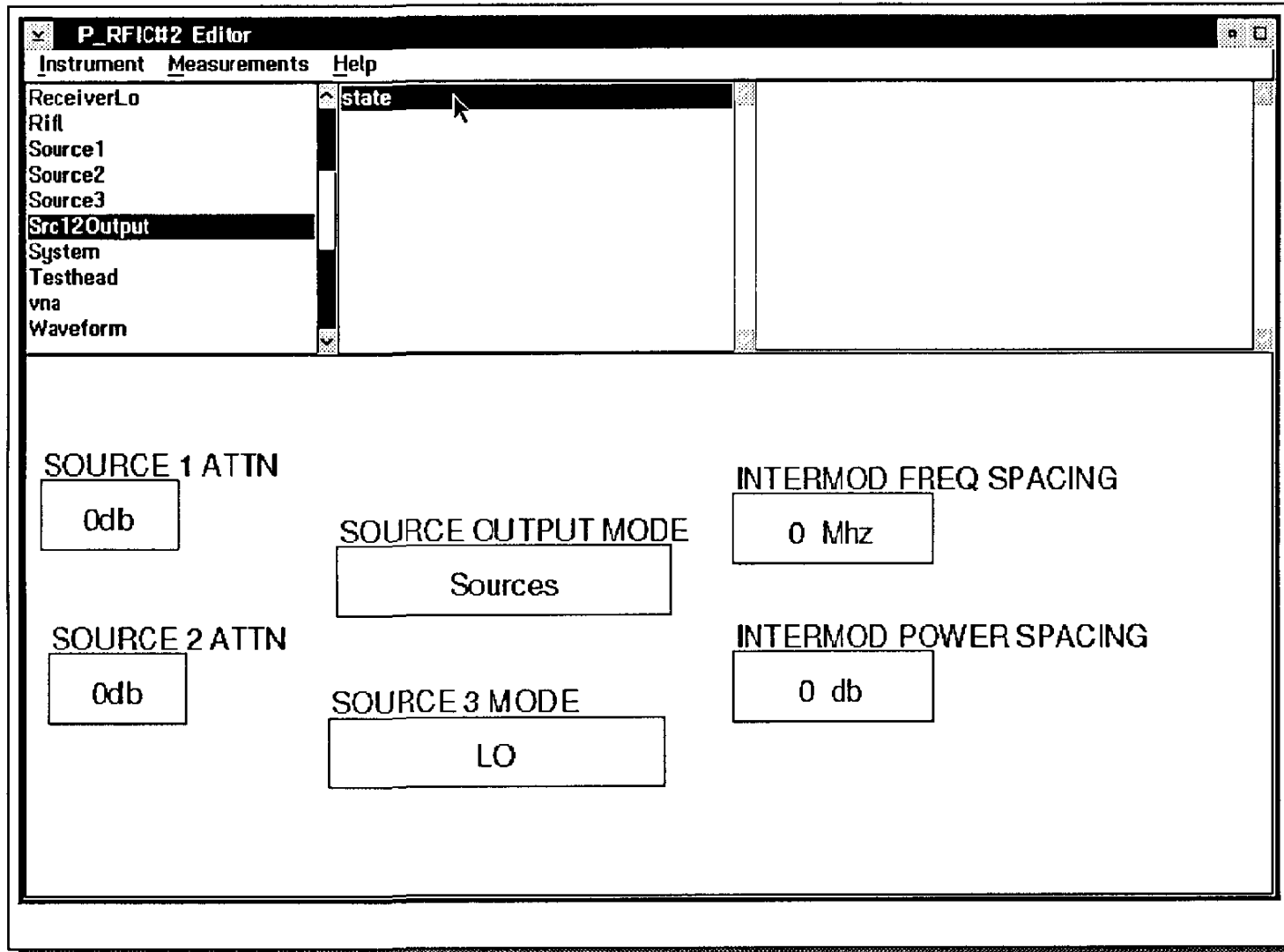
Source 2 - State Buttons

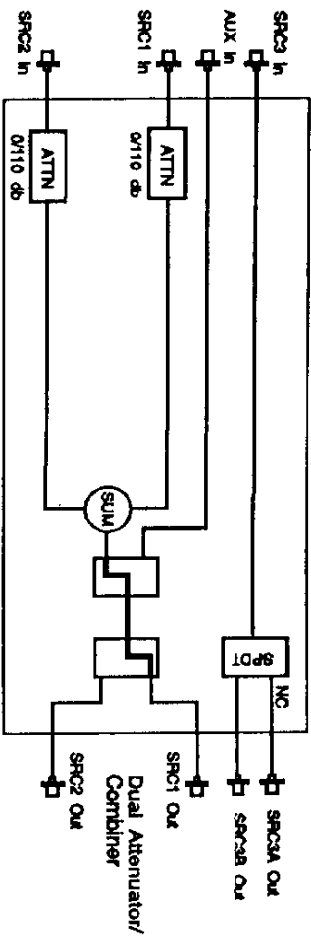


Source 3 - State Buttons

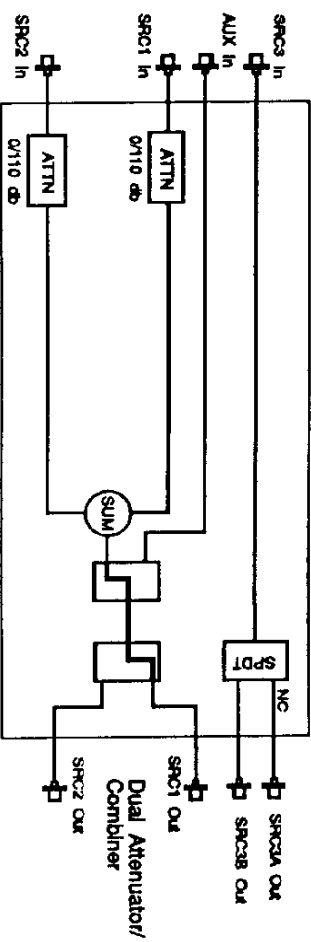


Source Module 1&2 - State Buttons

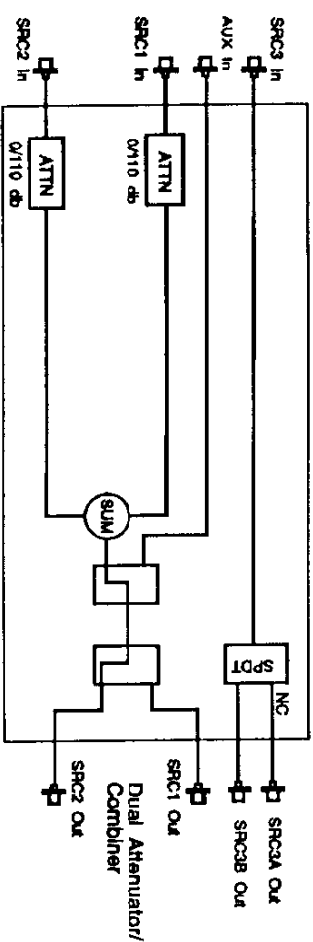




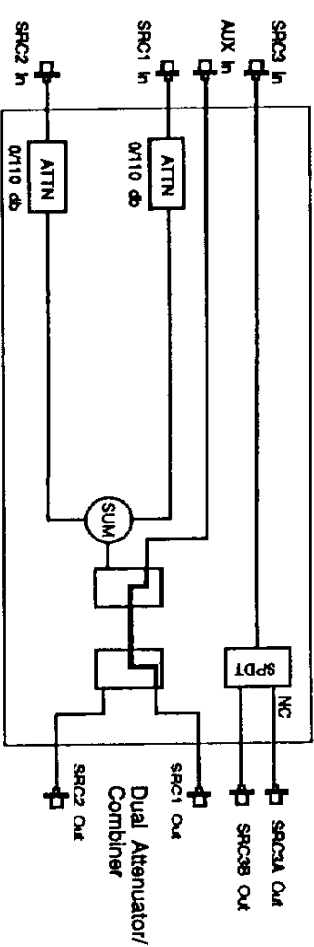
Sources



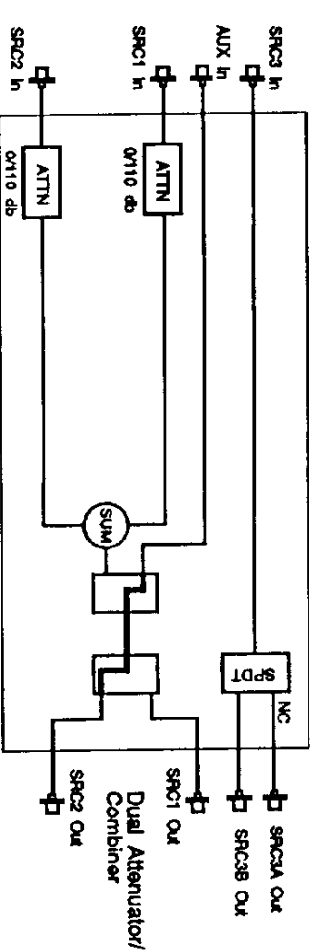
Intermod to src1



Intermod to src2



aux to src1



aux to src2

Src12 Output BUTTON CHOICES

Source1	device DB
Source2	device serial port
Source3	
Src12Output	
StaticDigital	
System	
Testhead	
vna	
Waveform	

VON	VOFF
<input type="text" value="0"/>	<input type="text" value="0"/>

DB 1	DB 5
<input type="text" value="OFF"/>	<input type="text" value="OFF"/>

DB 2	DB 6
<input type="text" value="OFF"/>	<input type="text" value="OFF"/>

DB 3	DB 7
<input type="text" value="OFF"/>	<input type="text" value="OFF"/>

DB 4	DB 8
<input type="text" value="OFF"/>	<input type="text" value="OFF"/>

Instrument Measurements Help

Source1	device DB
Source2	device serial port
Source3	
Src12Output	
StaticDigital	
System	
Testhead	
vna	
Waveform	

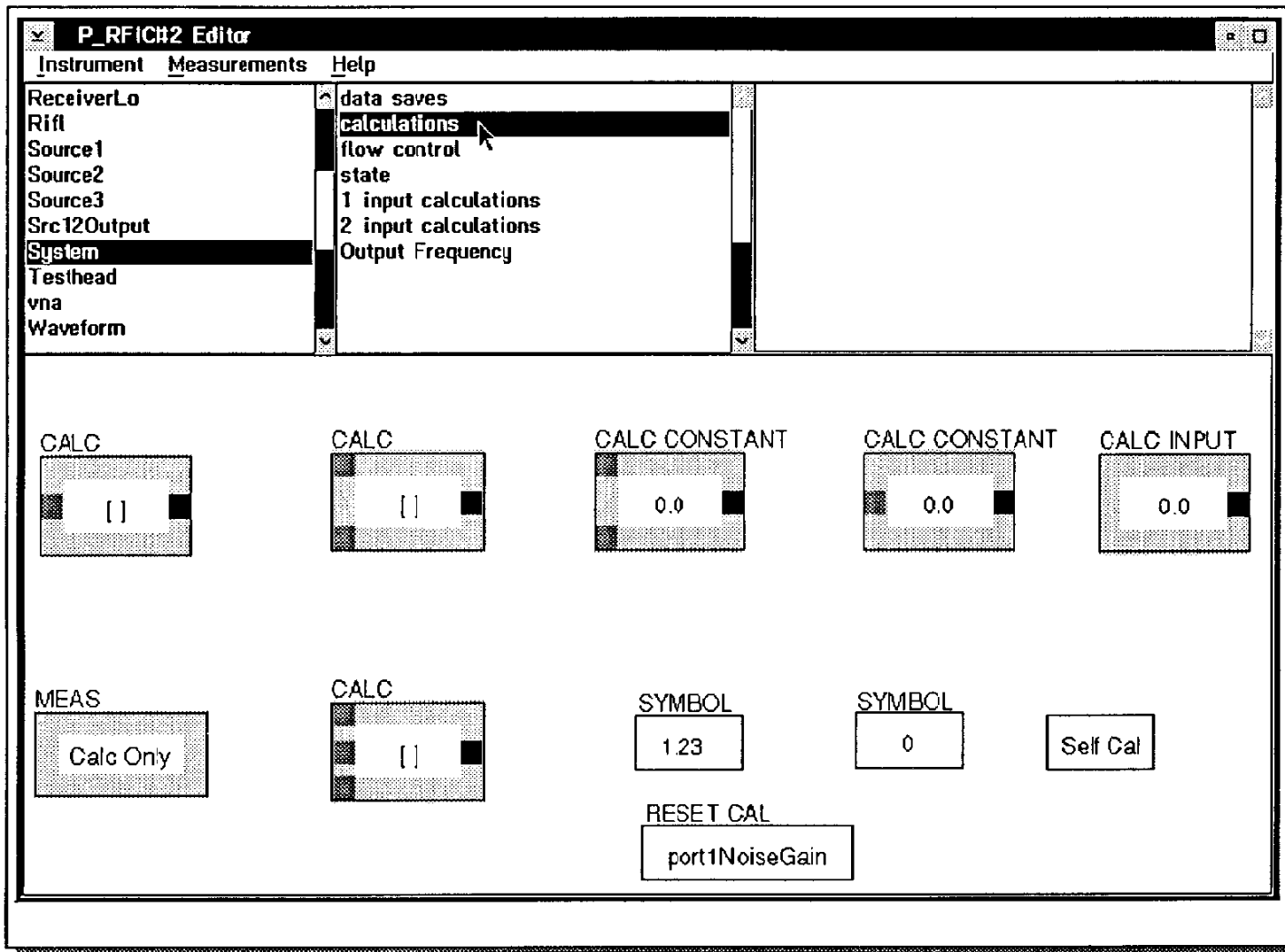
SERIAL TYPE		VON	
DUT Defined		0	
CLOCK	SERIAL SIZE	SERIAL DIRECTION	VOFF
None	0	msb first	0
DATA	SERIAL DATA		
None	11		
STROBE 1	SERIAL CLOCK POLARITY		
None	positive		
STROBE 2	SERIAL STROBE POLARITY	SERIAL STROBE LENGTH	
None	positive	short	

System - Data Save Buttons

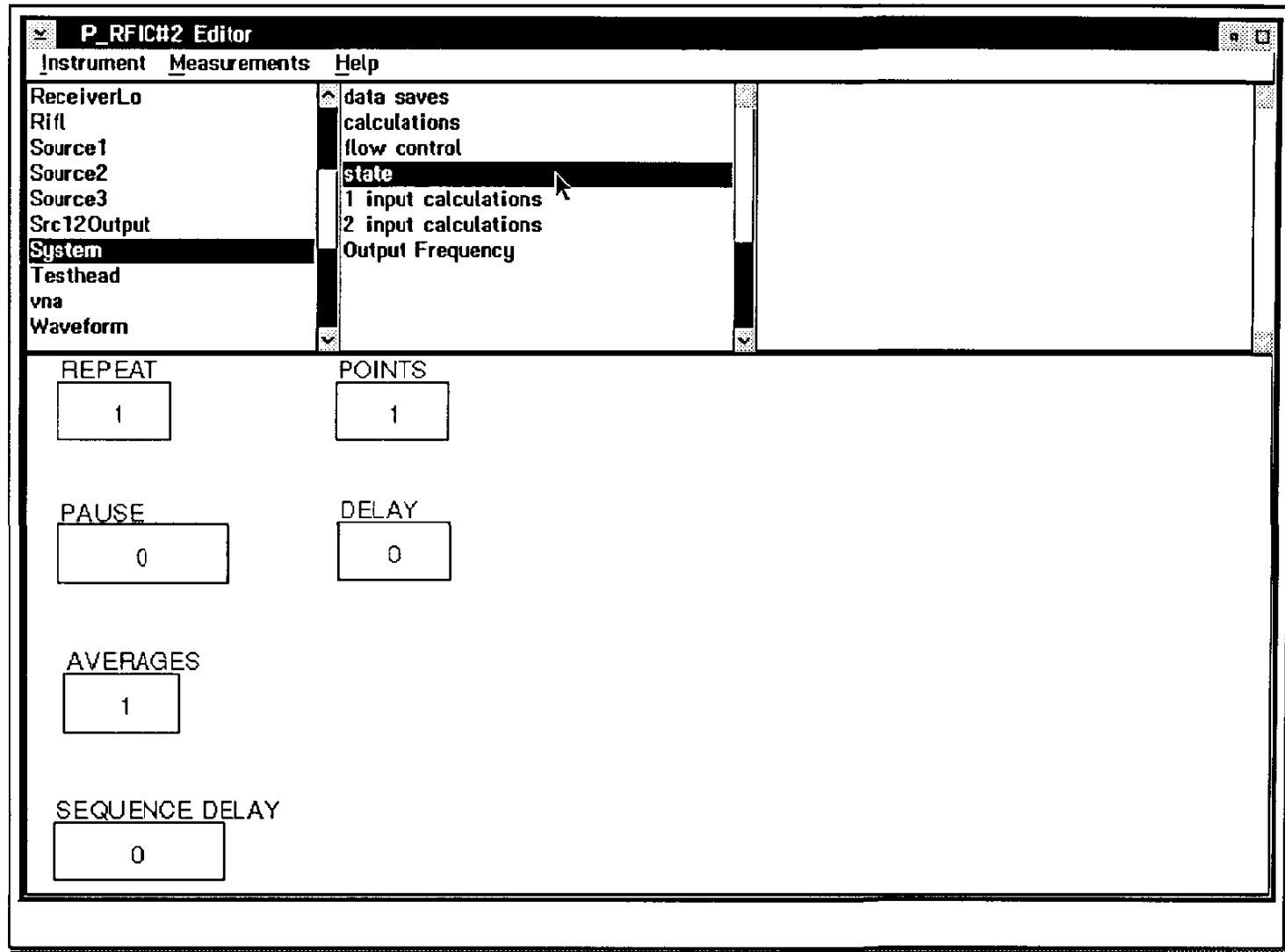
The screenshot shows the 'P_RFIC#2 Editor' window. The 'Measurements' menu is open, displaying options: 'data saves', 'calculations', 'flow control', 'state', '1 input calculations', '2 input calculations', and 'Output Frequency'. Below the menu is a grid of 12 buttons, each with a label and a value field.

Button Label	Value
SAVE NO FORMAT	NoName
LOCAL VAR SOURCE	X
LOCAL VAR SAVE	X
CAL DATA	cal
SAVE FORMAT	NoName
SORTED LV SAVE	X
INDEXED BY ?	X
SAVE ADJUSTED	NoName
INSTR STATE SOURCE	None
CAL FACTOR	None
LOCAL VAR PROMPT	X

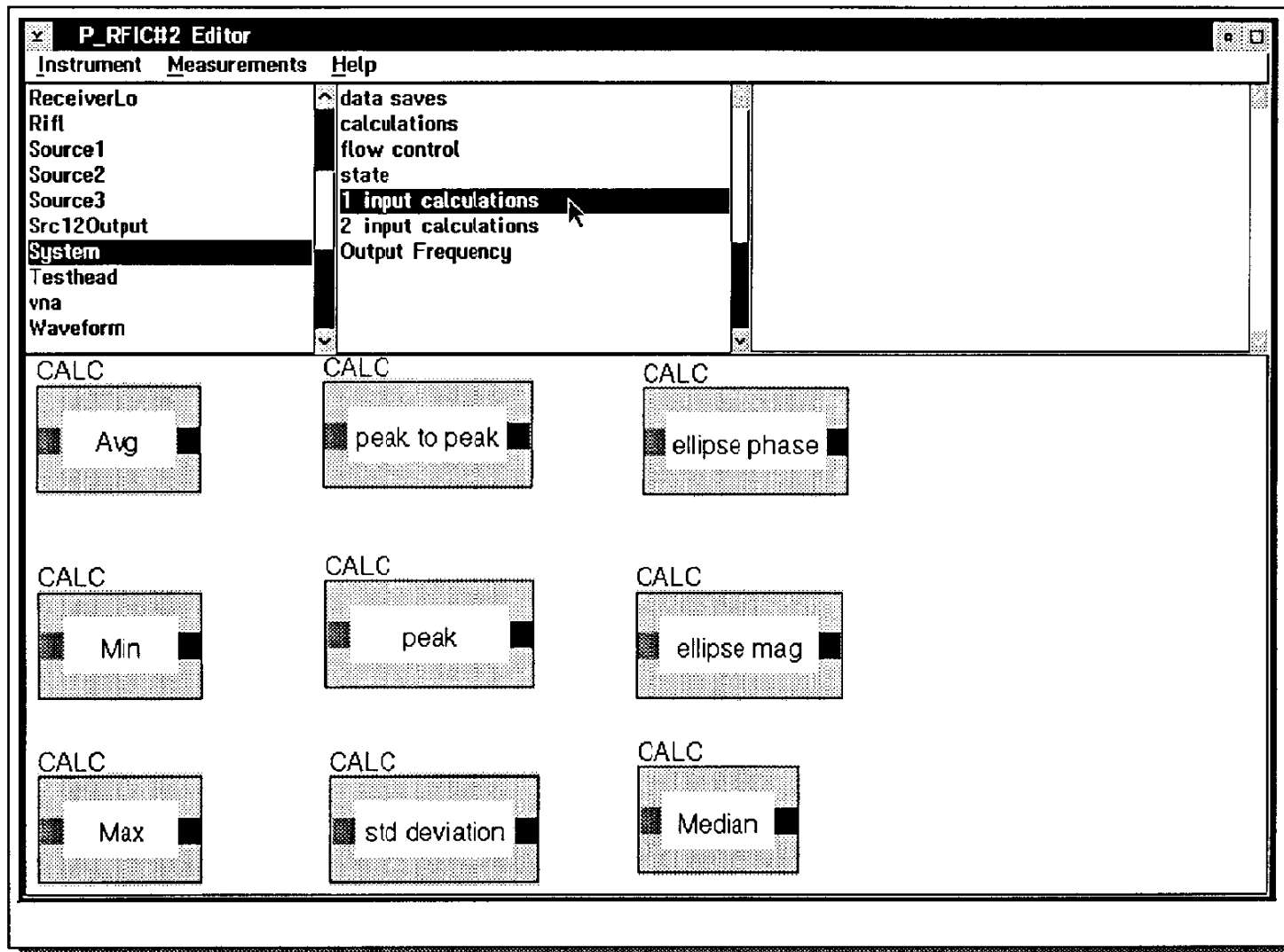
System - Calculation Buttons



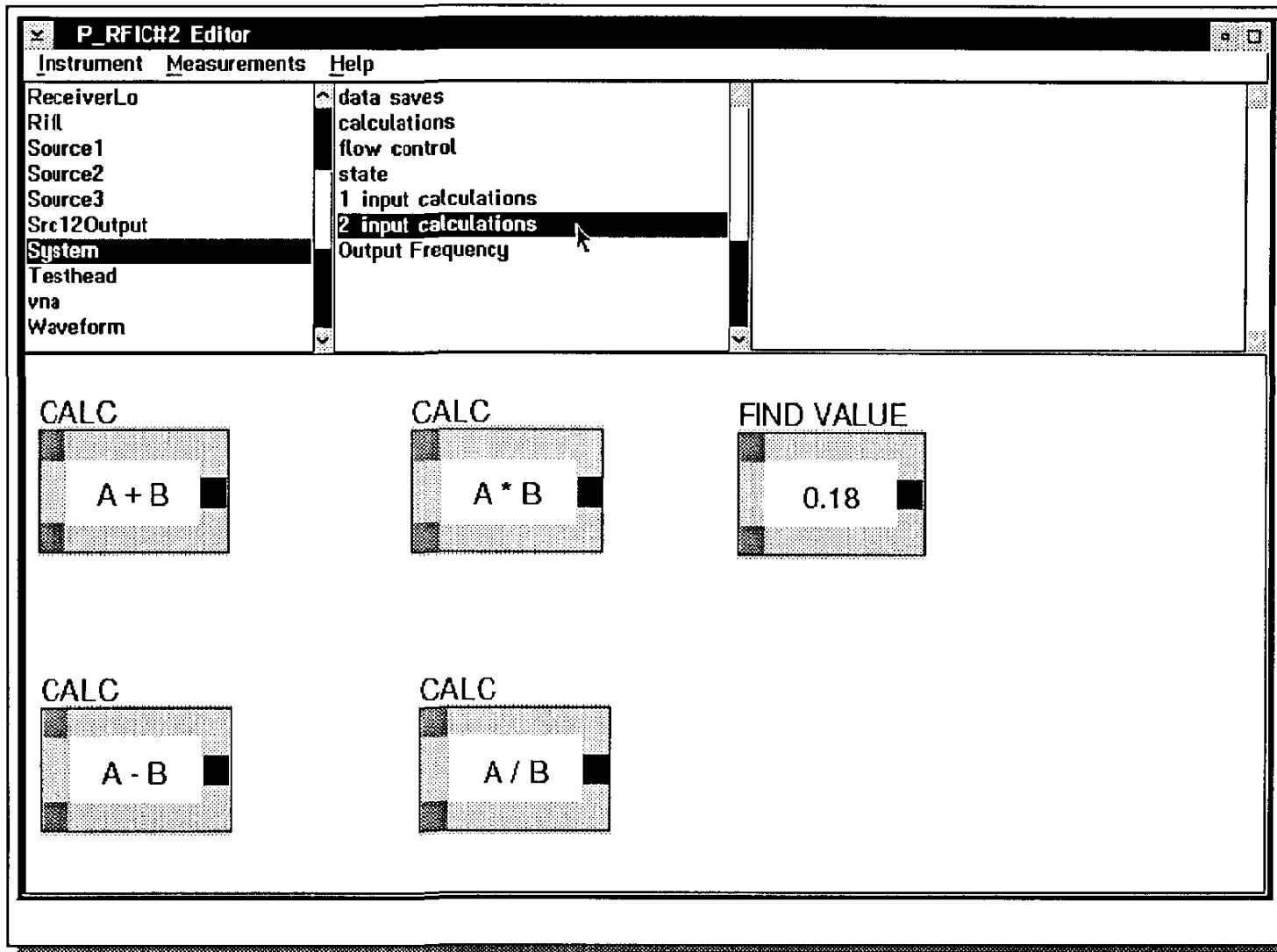
System - State Buttons



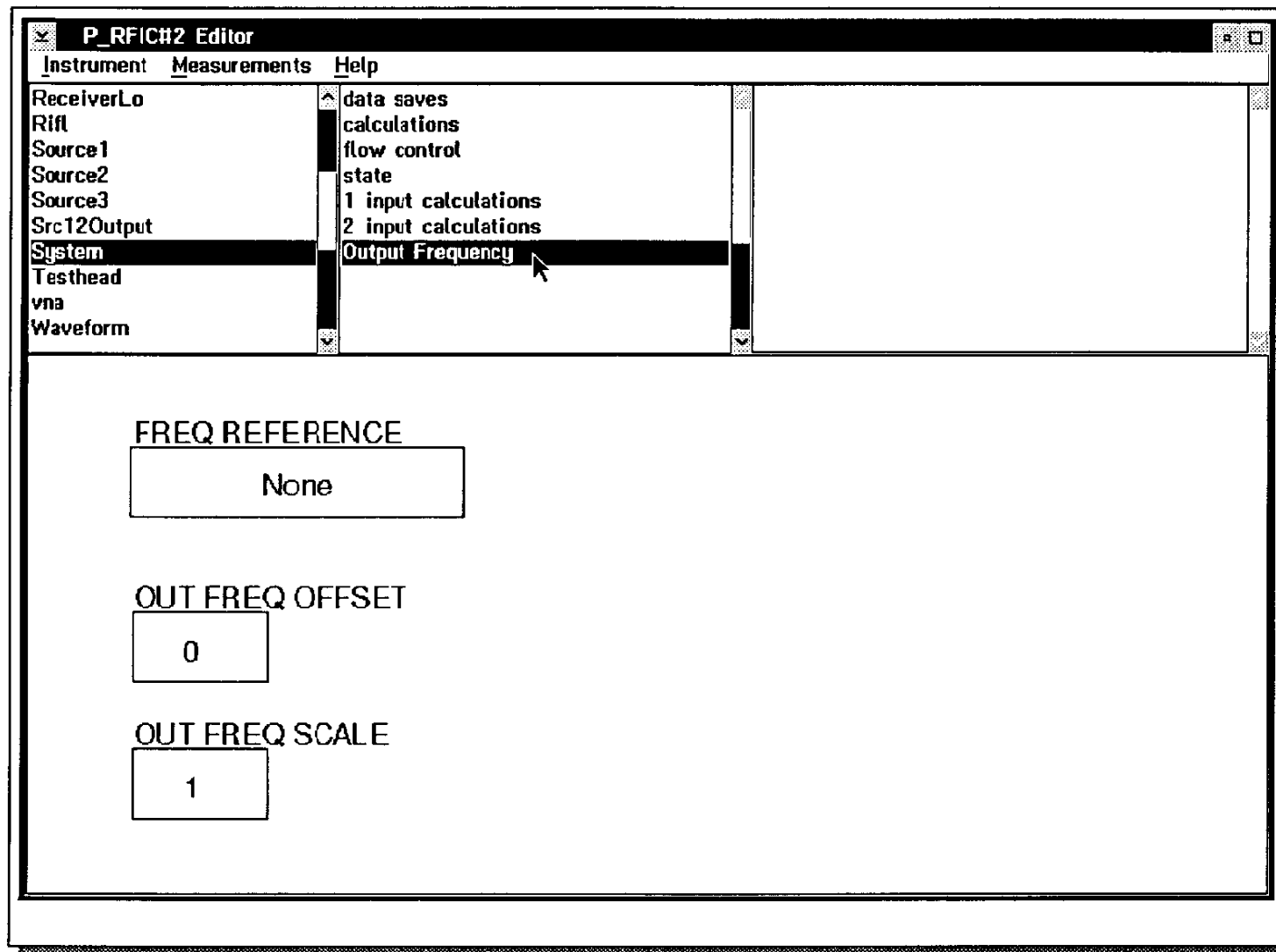
System - 1 Input Calculation Buttons



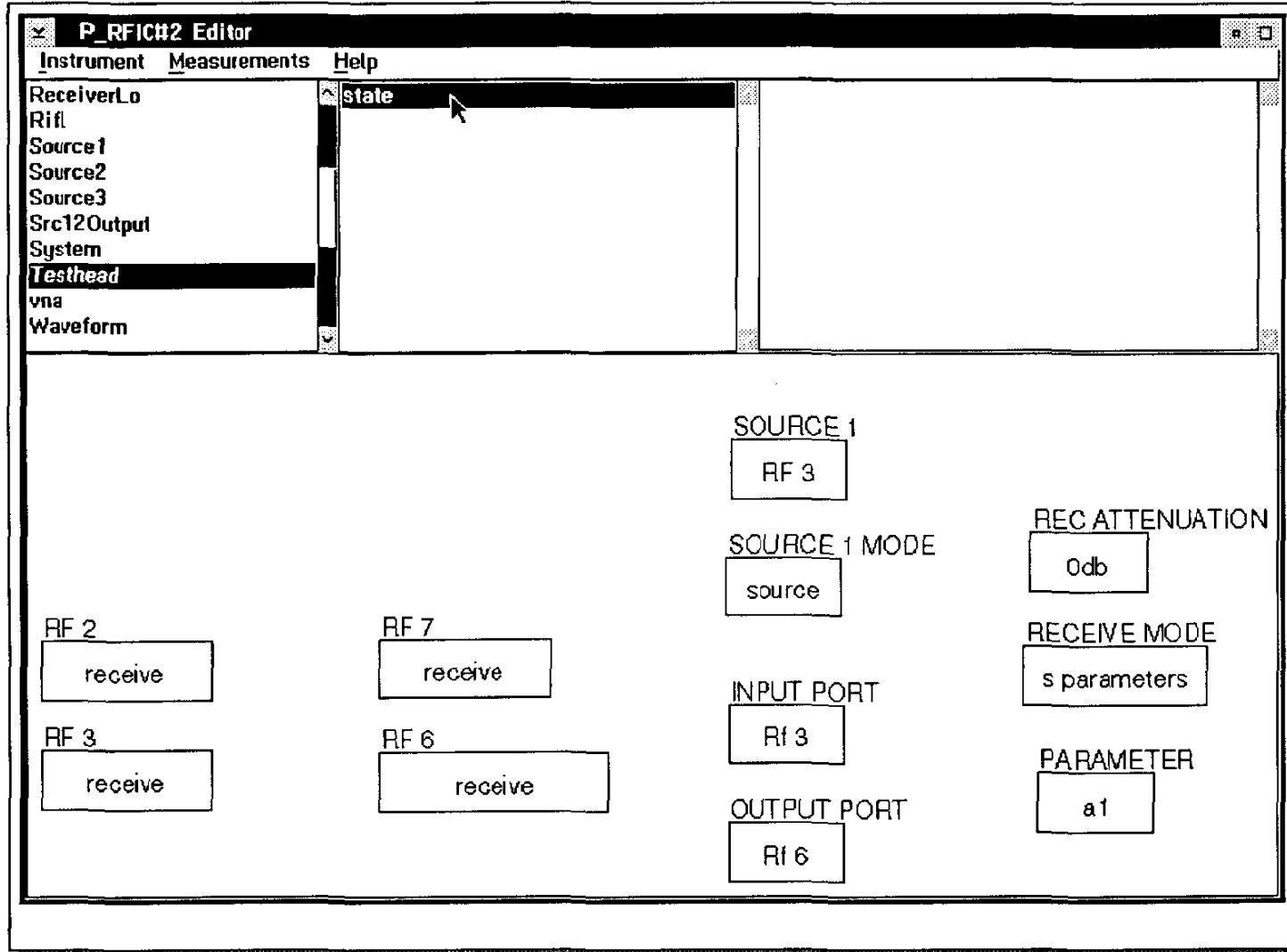
System - 2 Input Calculation Buttons

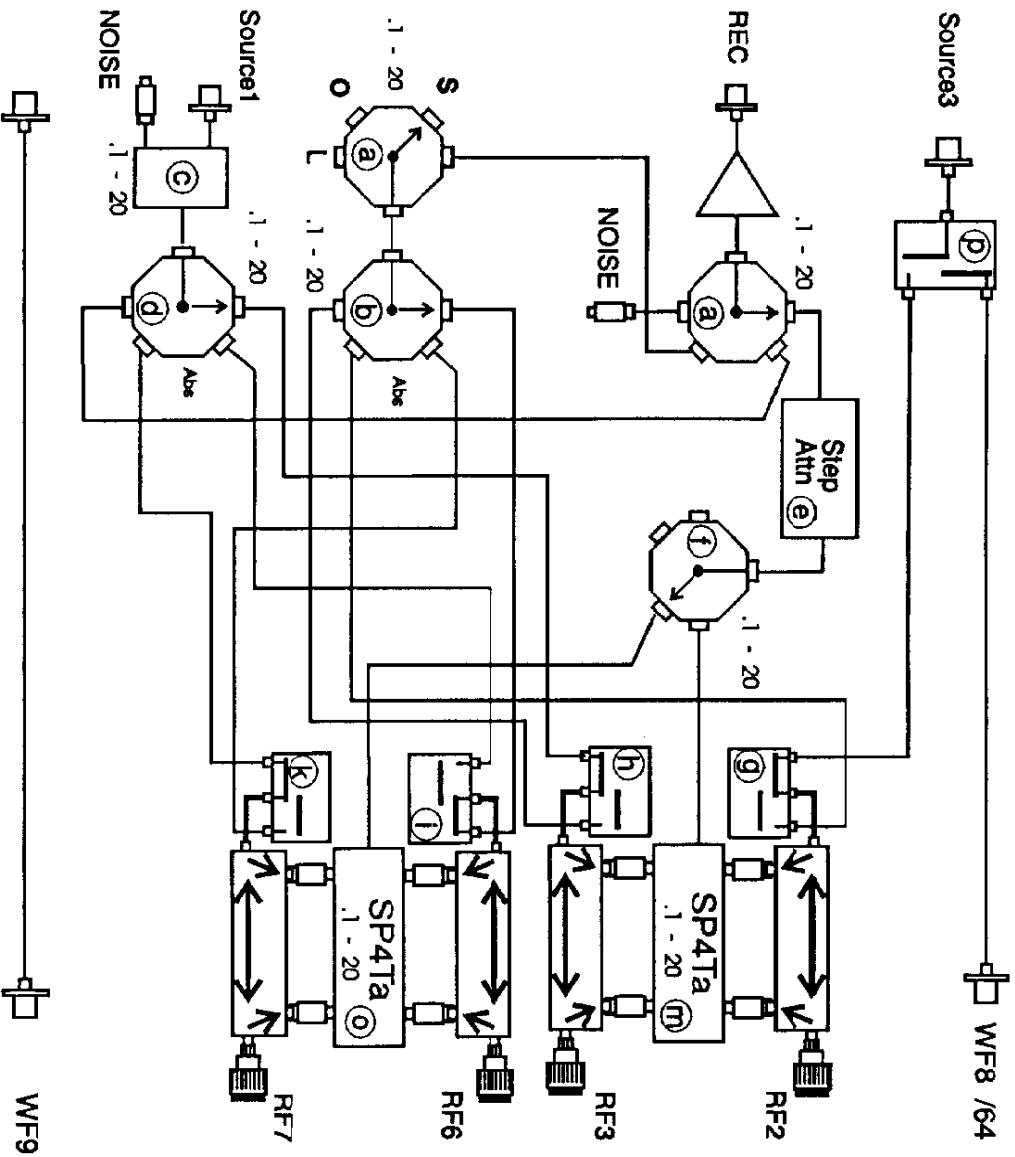


System - Output Frequency Buttons



Testhead - State Buttons





LOW BAND REC

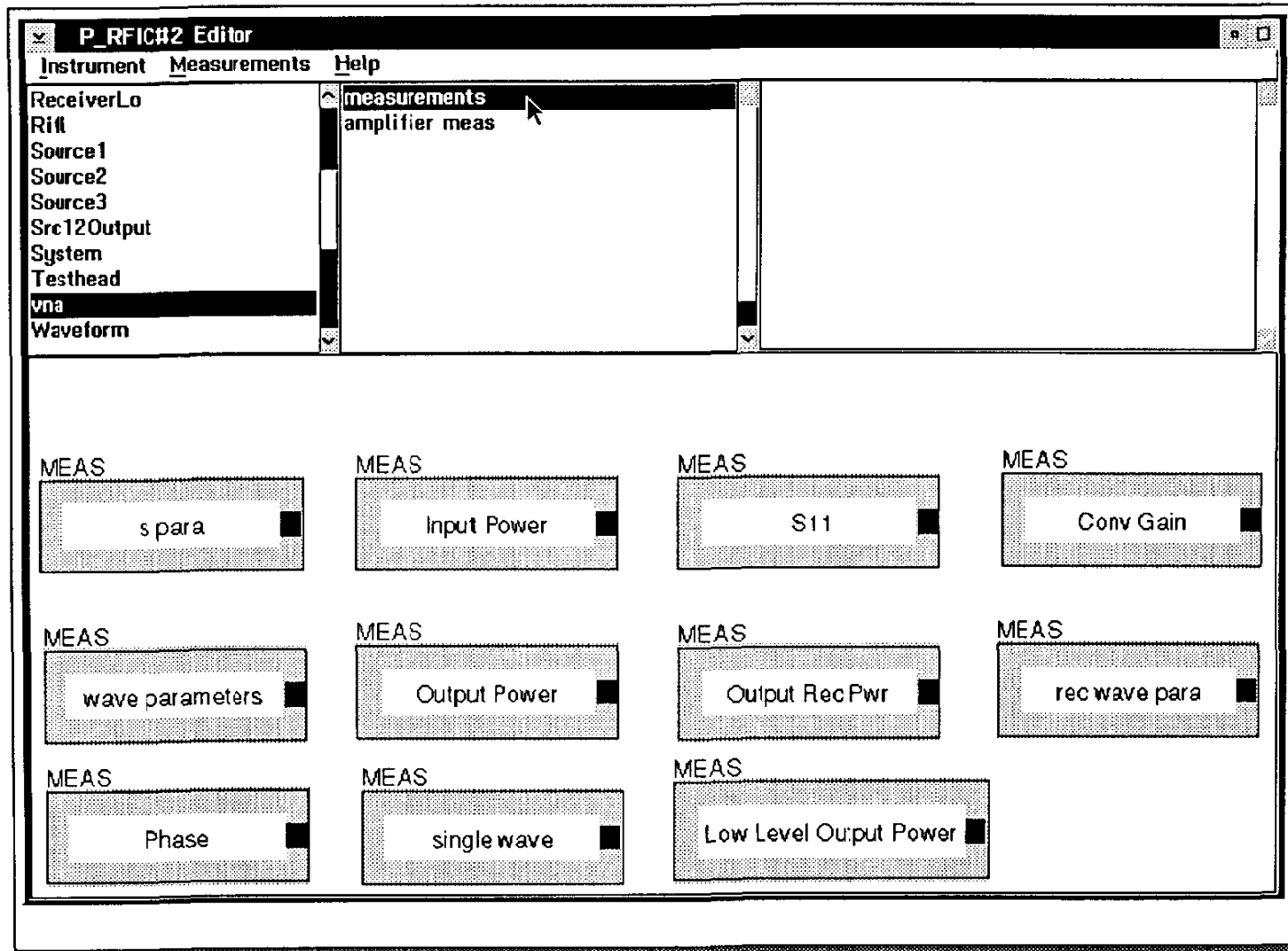
Button Owner & Name

- | | |
|-------------------------------|--------------------------------------|
| a: Test Head, Receive Mode | g: Test Head, RF2 |
| b: Test Head, Output Port | h: Test Head, RF3 |
| c: Test Head, Source 1 Mode | i: Test Head, RF6 |
| d: Test Head, Source1 | k: Test Head, RF7 |
| e: Test Head, Rec Attenuation | m: Test Head, Parameter & Input Port |
| f: Test Head, Input Port | o: Test Head, Parameter & Input Port |
| | p: Src12Output, Source 3 Mode |

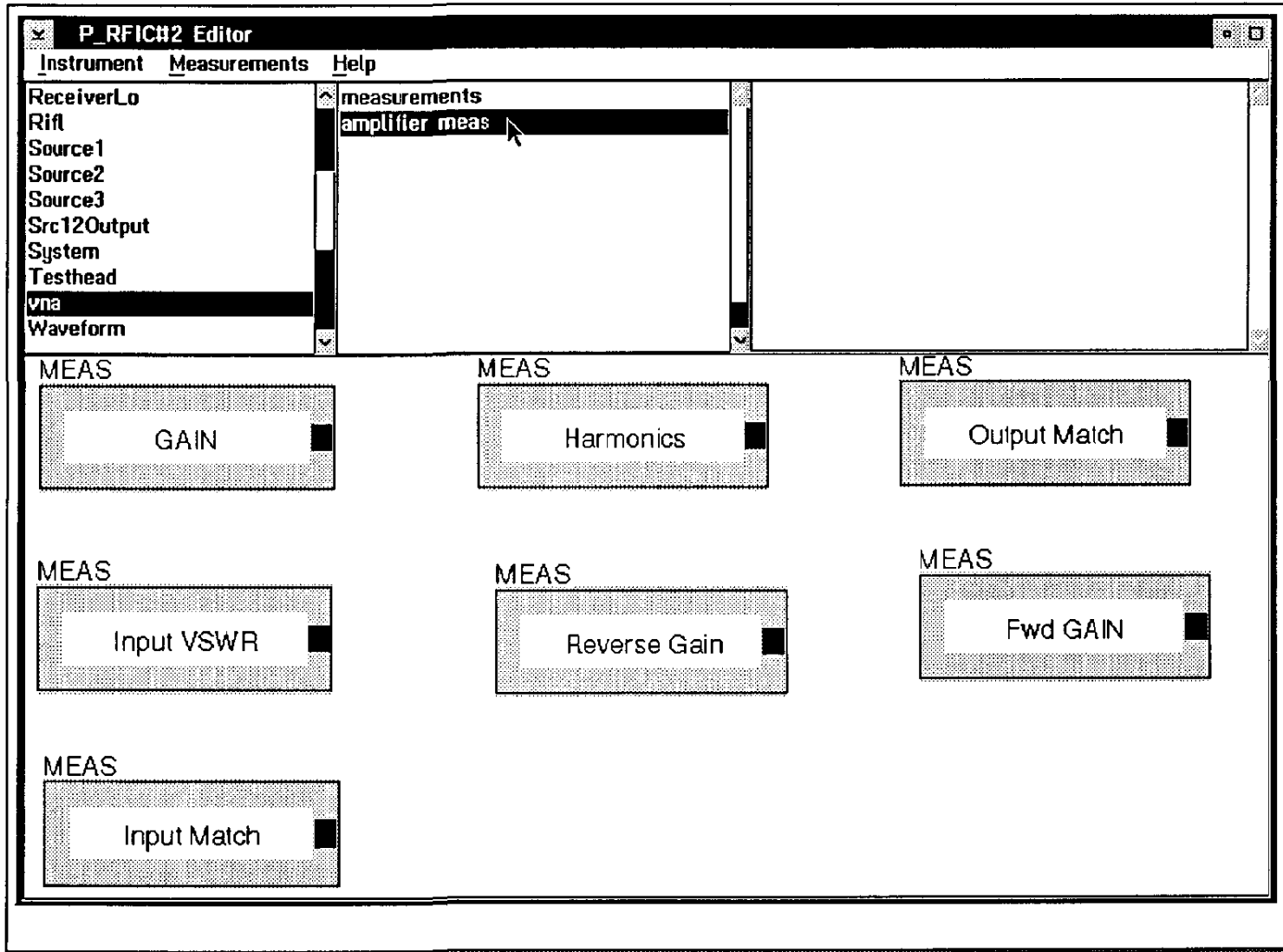
RI7218A_1

RI 7218A TEST HEAD BUTTONS

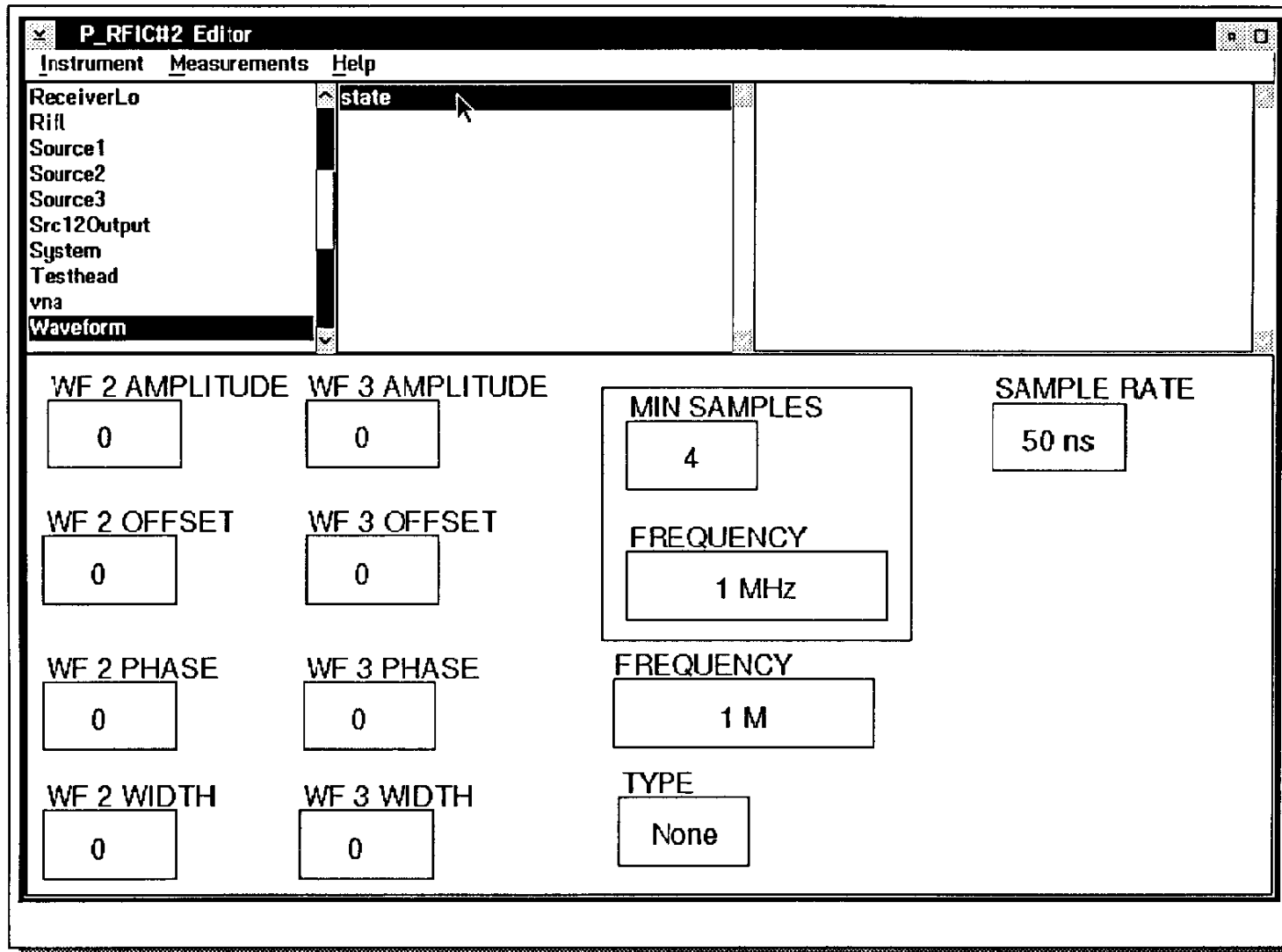
vna - Measurement Buttons



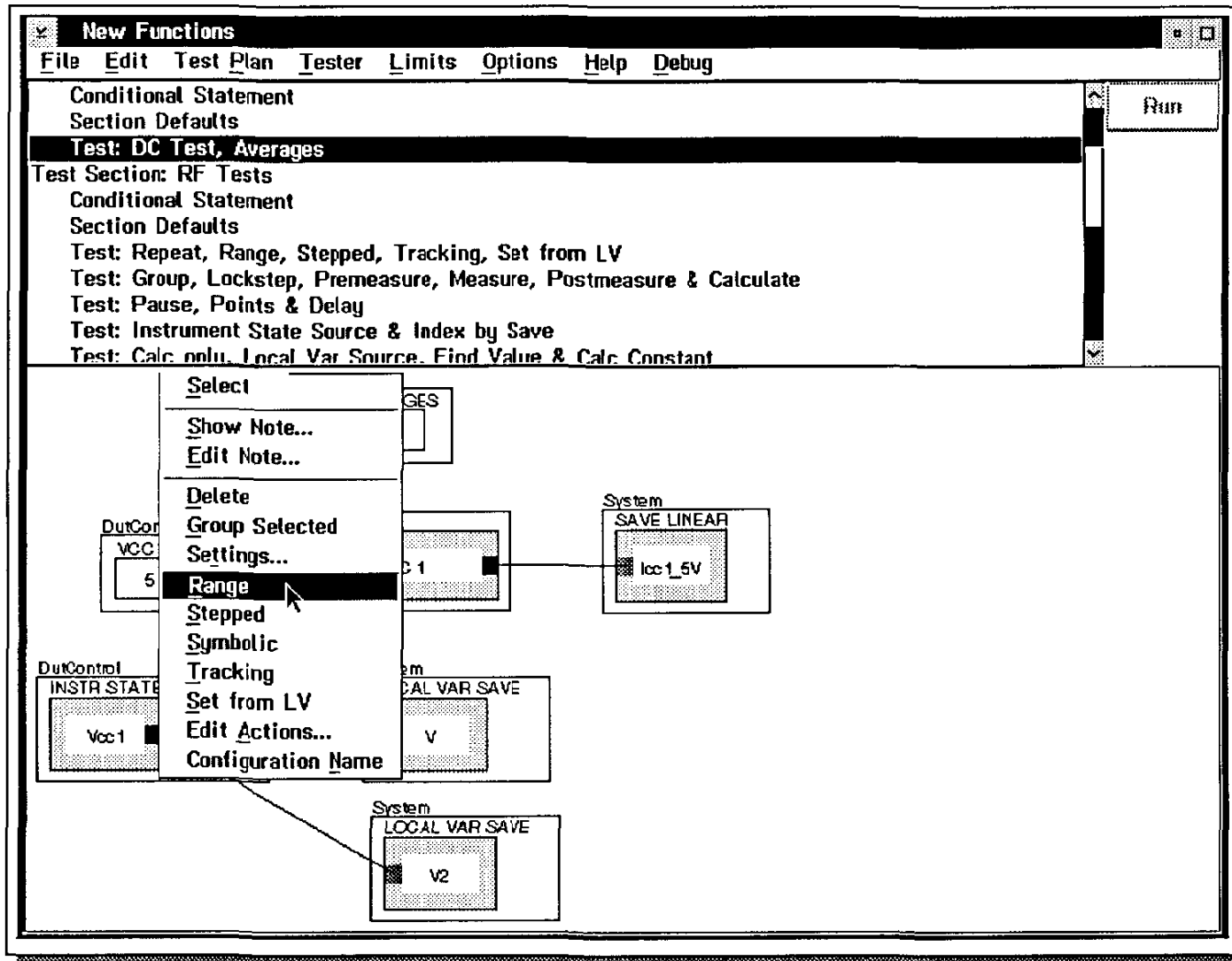
vna - Amplifier Measurement Buttons



Arbitrary Waveform Synthesizer - State Buttons



Button 2 Functions

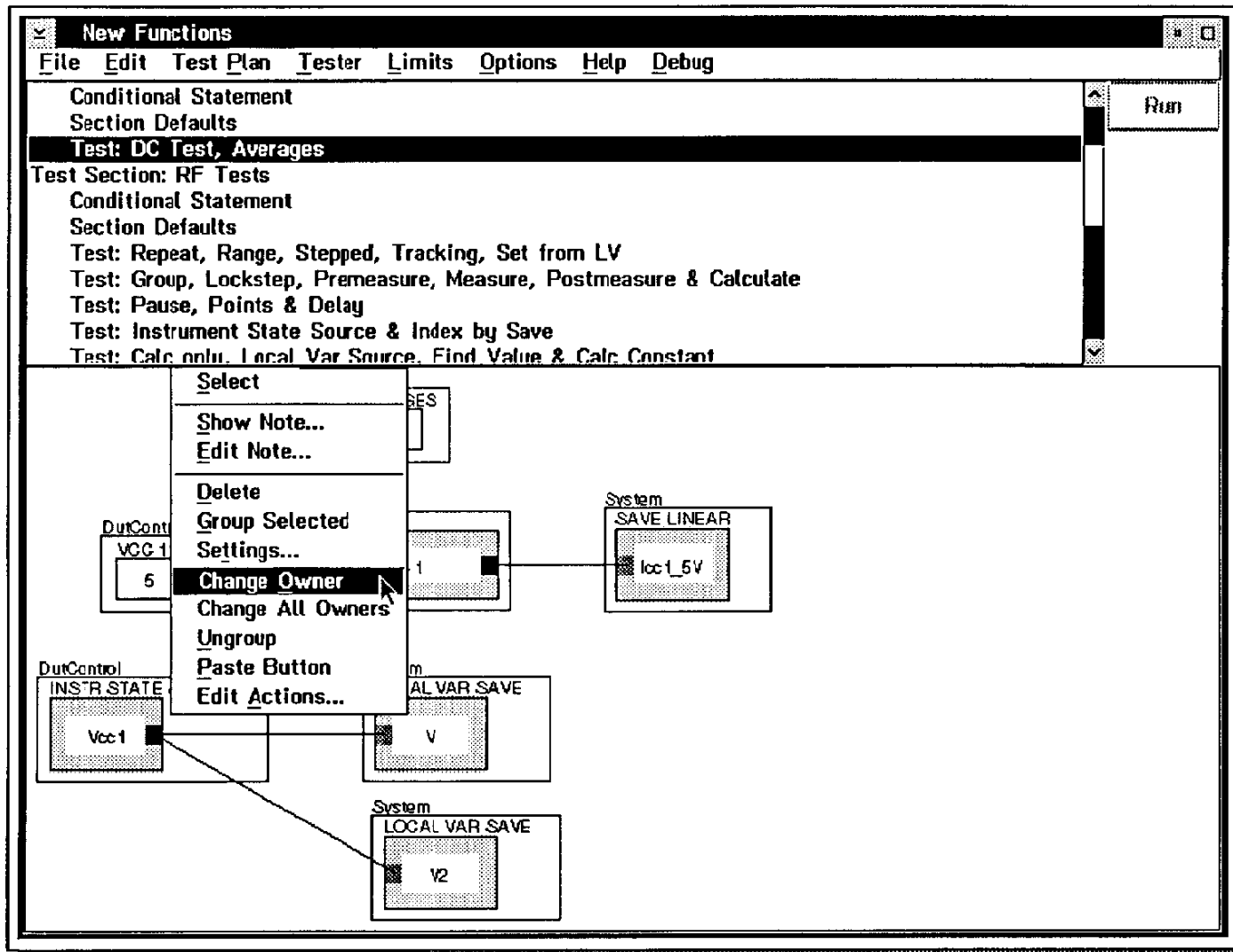


REPEAT, RANGE, STEPPED, TRACKING & SET Local Variable (LV)

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 menu is open, showing a list of test functions. The function "Test: Repeat, Range, Stepped, Tracking, Set from LV" is highlighted. Below the menu is a block diagram with the following components:

- System**: A box containing "REPEAT" and the value "10".
- Source1**: A box containing "FREQUENCY" with sub-sections: "START" (1000 Mhz), "STOP" (2000 Mhz), and "POINTS" (6).
- Source1**: A box containing "POWER" with sub-sections: "START" (0 dbm), "STEP SIZE" (1 dbm), and "POINTS" (5).
- Source2**: A box containing "POWER" with sub-sections: "MASTER" (Source1), "CONFIG" (Power), "SCALE" (1), and "OFFSET" (0).
- DutControl**: A box containing "VCC 2" and the value "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

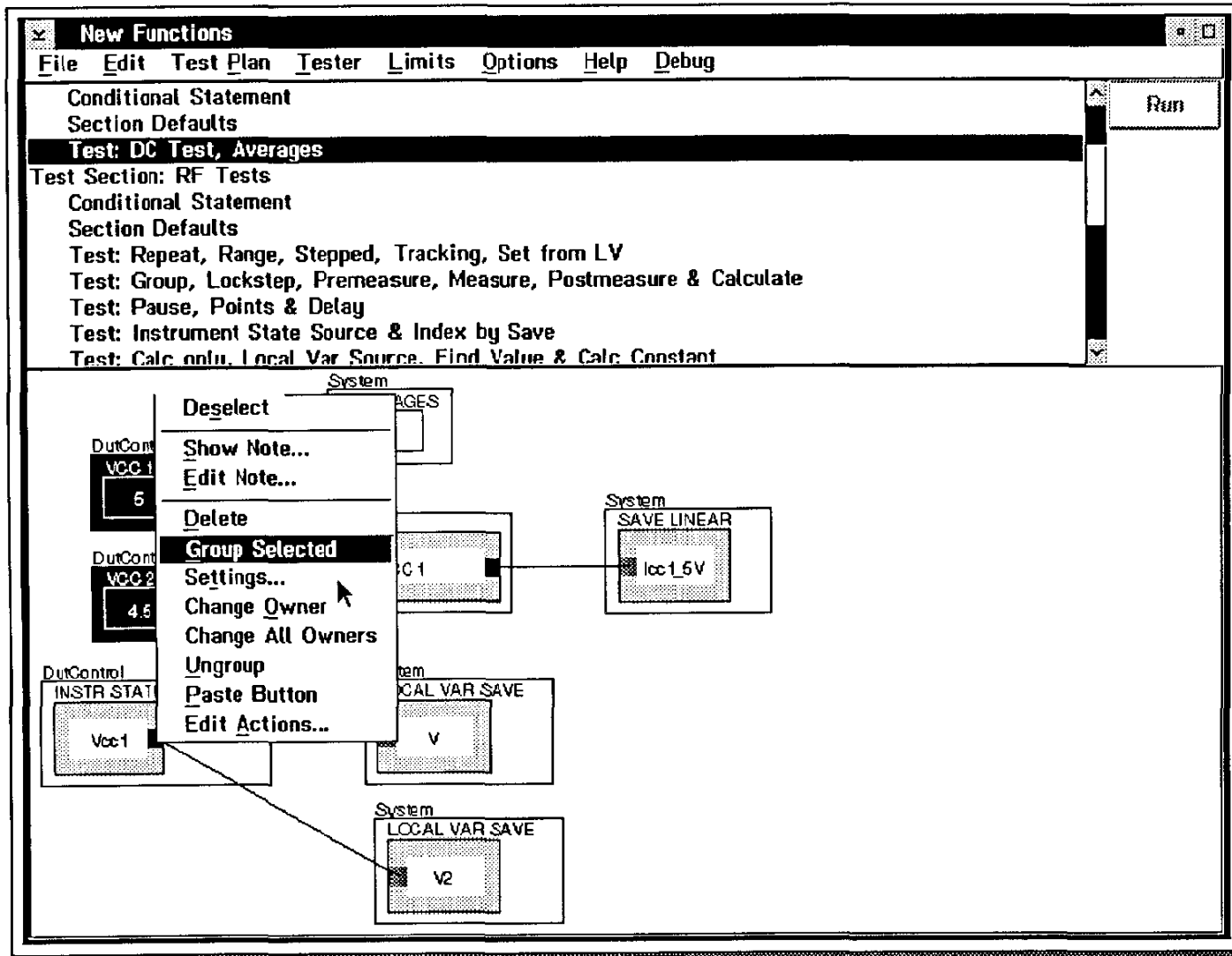
The screenshot displays a software window titled "New Functions" with a menu bar containing "File", "Edit", "Test Plan", "Tester", "Limits", "Options", "Help", and "Debug". The menu is open, listing various test functions. The function "Test: Pause, Points & Delay" is highlighted with a mouse cursor. Below the menu is a block diagram illustrating the configuration of this function. The diagram consists of several interconnected blocks:

- System PAUSE**: A block with a value of 10000.
- System POINTS**: A block with a value of 50.
- System DELAY**: A block with a value of 10.
- DutControl MEAS**: A block labeled "Voltage Vs Time" with a small square icon on its right side.
- System CALC**: A block labeled "peak to peak" with a small square icon on its right side.
- System SAVE LINEAR**: A block labeled "Vpp" with a small square icon on its right side.
- System LOCAL VAR SAVE**: A block labeled "V_vs_T" with a small square icon on its left side.

Connections in the diagram include:

- A line from the "V_vs_T" block to the "MEAS" block.
- A line from the "MEAS" block to the "CALC" block.
- A line from the "CALC" block to the "SAVE LINEAR" block.
- A line from the "PAUSE" block to the "MEAS" block.
- A line from the "POINTS" block to the "MEAS" block.
- A line from the "DELAY" block to the "MEAS" block.

Selecting a Group



Button 2 Group Functions

New Functions

File Edit Test Plan Tester Limits Options Help Debug

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
Test: Calc. only, Local Var Source, Find Value & Calc. Constant

Run

System AVERAGES
10

DutCont VCC 1
6

DutCont VCC 2
4.5

System INSTRUMENT SOURCE
ICC 1

System SAVE LINEAR
ICC 1_5V

System LOCAL VAR SAVE
V

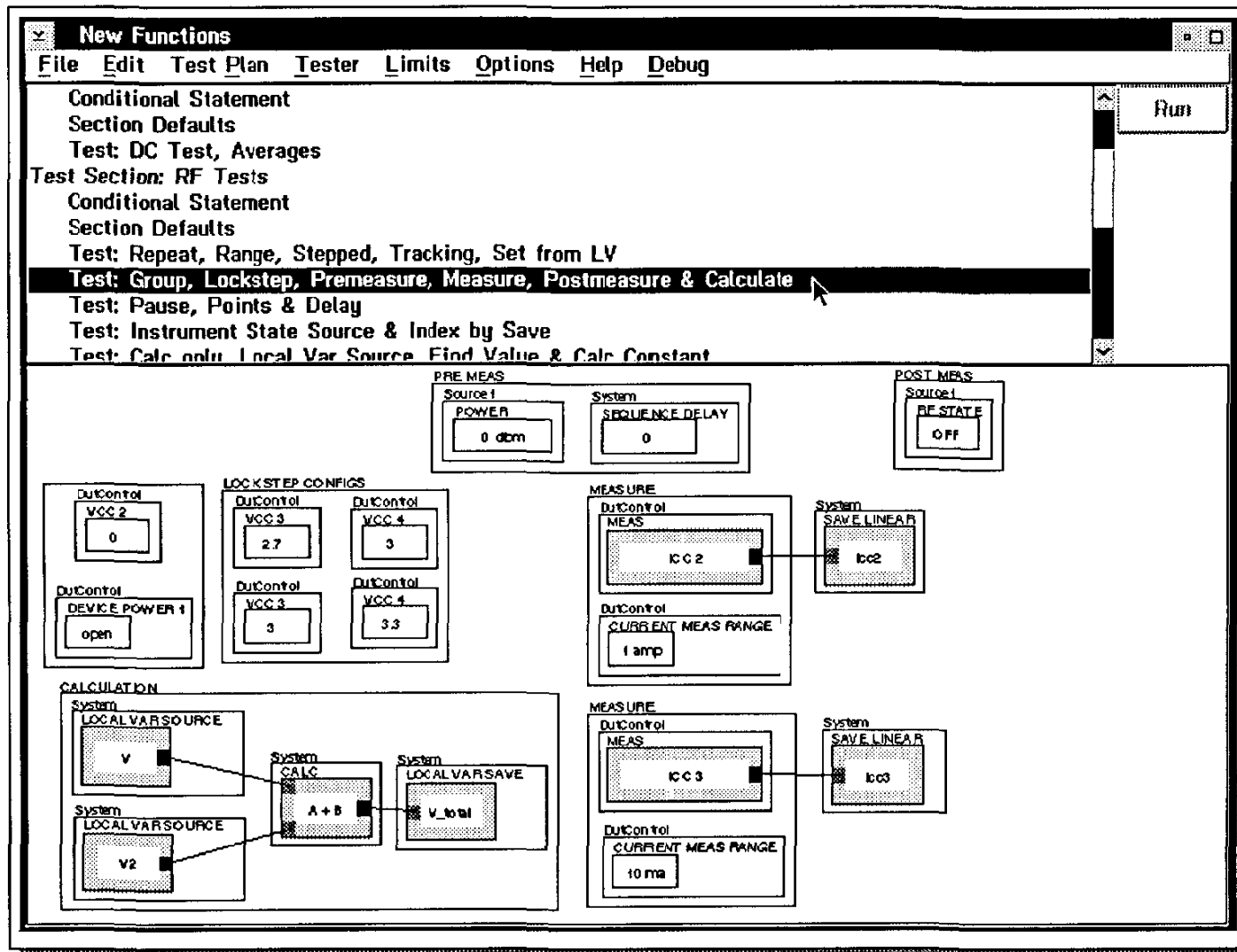
System LOCAL VAR SAVE
V2

INSTR STATE SOURCE
Vcc1

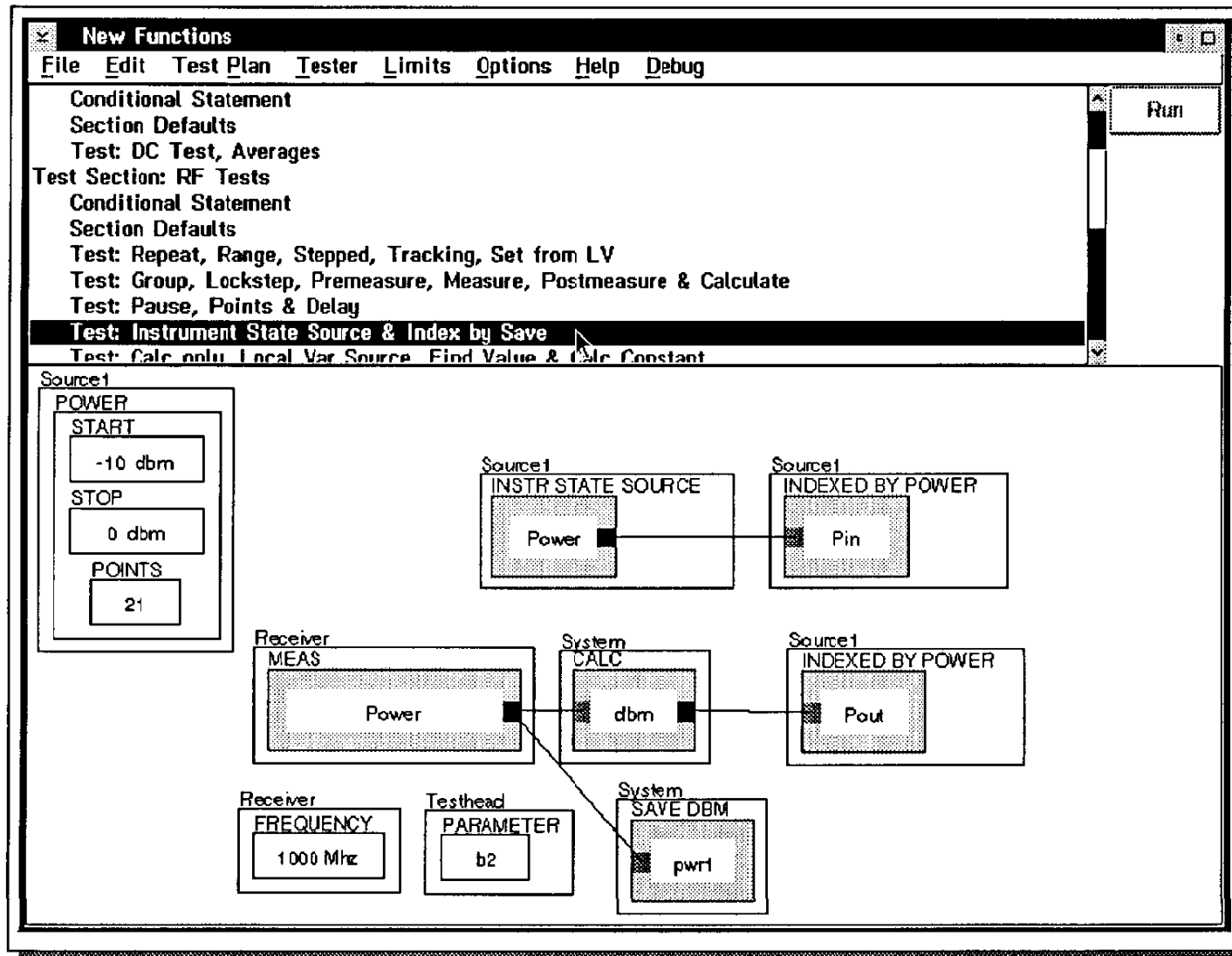
Pre Measure

Delete
Group
Post Measure
Lock Step
Measure
Calculate

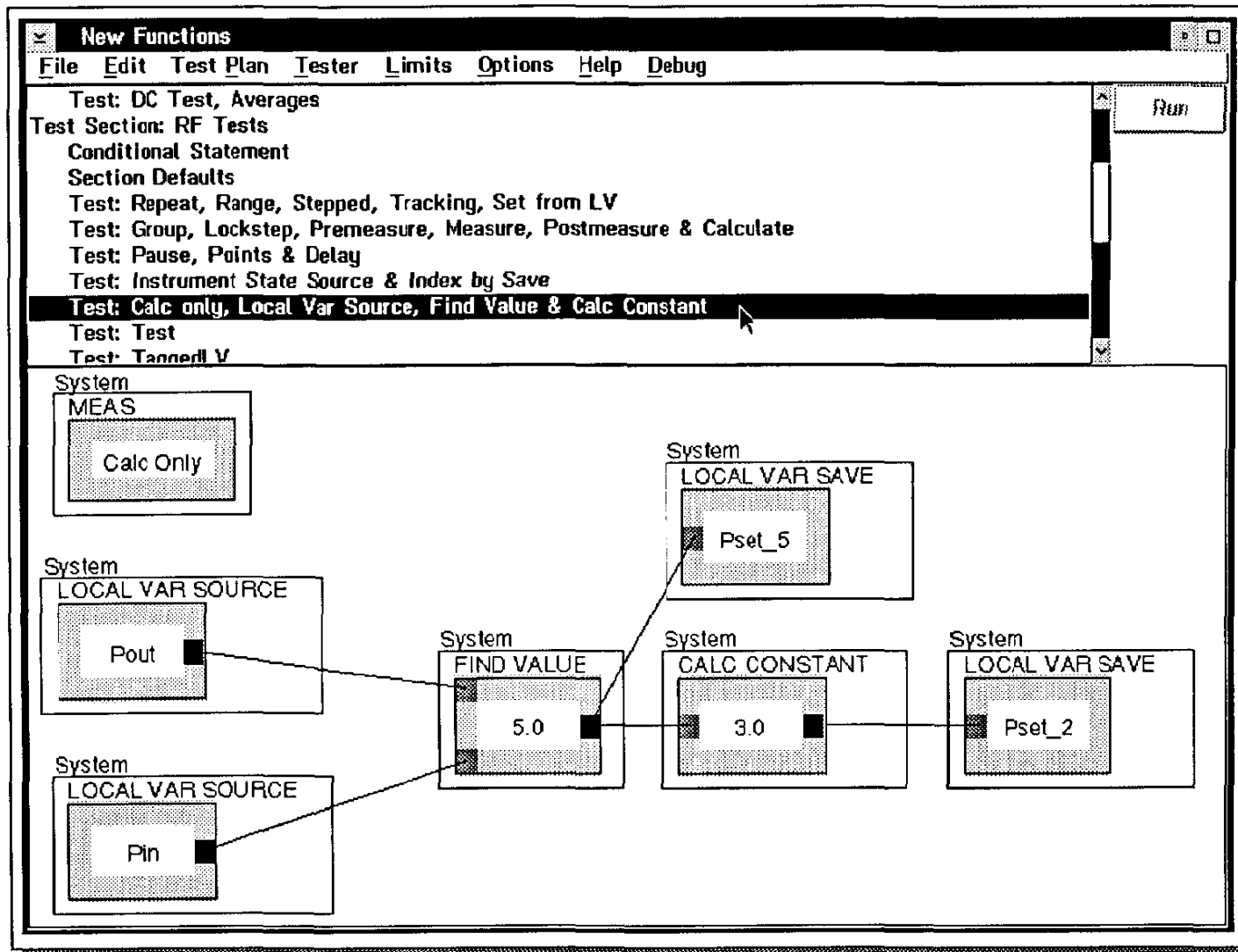
Group, Lockstep, Premeasure, Measure, Postmeasure & Calculate



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



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



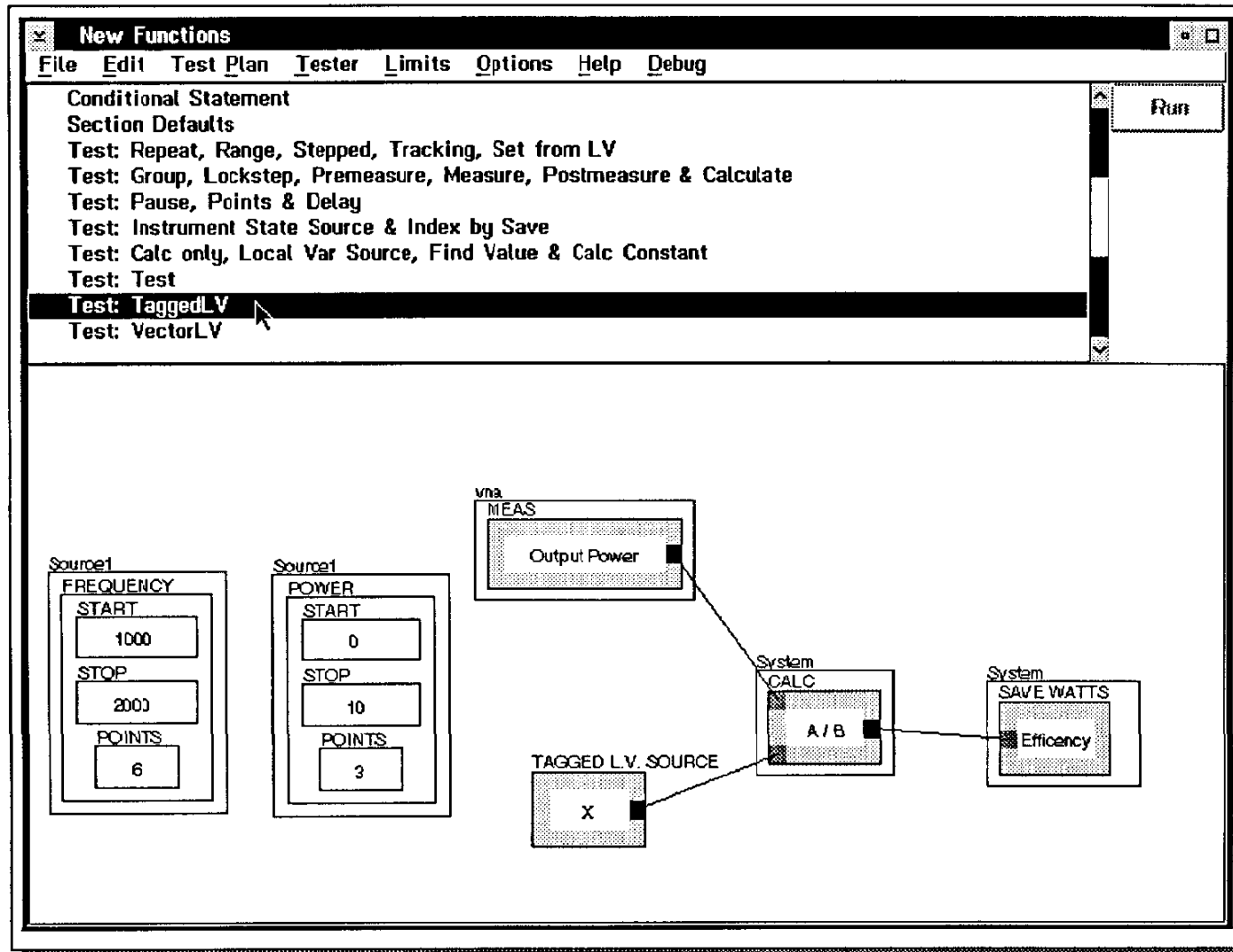
Tagged Local Variables & Tagged LV Save

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

The screenshot displays a software window titled "New Functions" with a menu bar containing "File", "Edit", "Test Plan", "Tester", "Limits", "Options", "Help", and "Debug". A scrollable list of test functions is shown, with "Test: VectorLV" selected and highlighted. A "Run" button is visible on the right side of the list.

Below the list is a block diagram illustrating the configuration of a test plan. The diagram includes the following components and connections:

- Source1**: A block containing three sub-sections: "FREQUENCY" with a "START" field set to 1000, a "STOP" field set to 2000, and "POINTS" set to 6.
- vna**: A block containing a "MEAS" section with an "Output Power" field.
- VECTOR L.V. SOURCE**: A block containing a field labeled "X".
- System CALC**: A block containing a field with the expression "[a + b avg]".
- System SAVE WATTS**: A block containing a field labeled "Avg_Eff".

Connections in the diagram: A line connects the "Output Power" field in the vna block to the "System CALC" block. Another line connects the "X" field in the VECTOR L.V. SOURCE block to the "System CALC" block. A final line connects the "System CALC" block to the "Avg_Eff" field in the System SAVE WATTS block.

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

DutControl POWER V 1: 0, POWER I 1: 0.1, POWER V 2: 0, POWER I 2: 0.2

DutControl VCC 3: 2.7, VCC 4: 0

DutControl DEVICE POWER 1: Vcc 3, DEVICE POWER 2: gnd

System PAUSE: 100, System AVERAGES: 20

Receiver IE GAIN: 20

Source 1 RF STATE: ON, FREQUENCY: 888.5 Mhz, POWER: 15 dbm

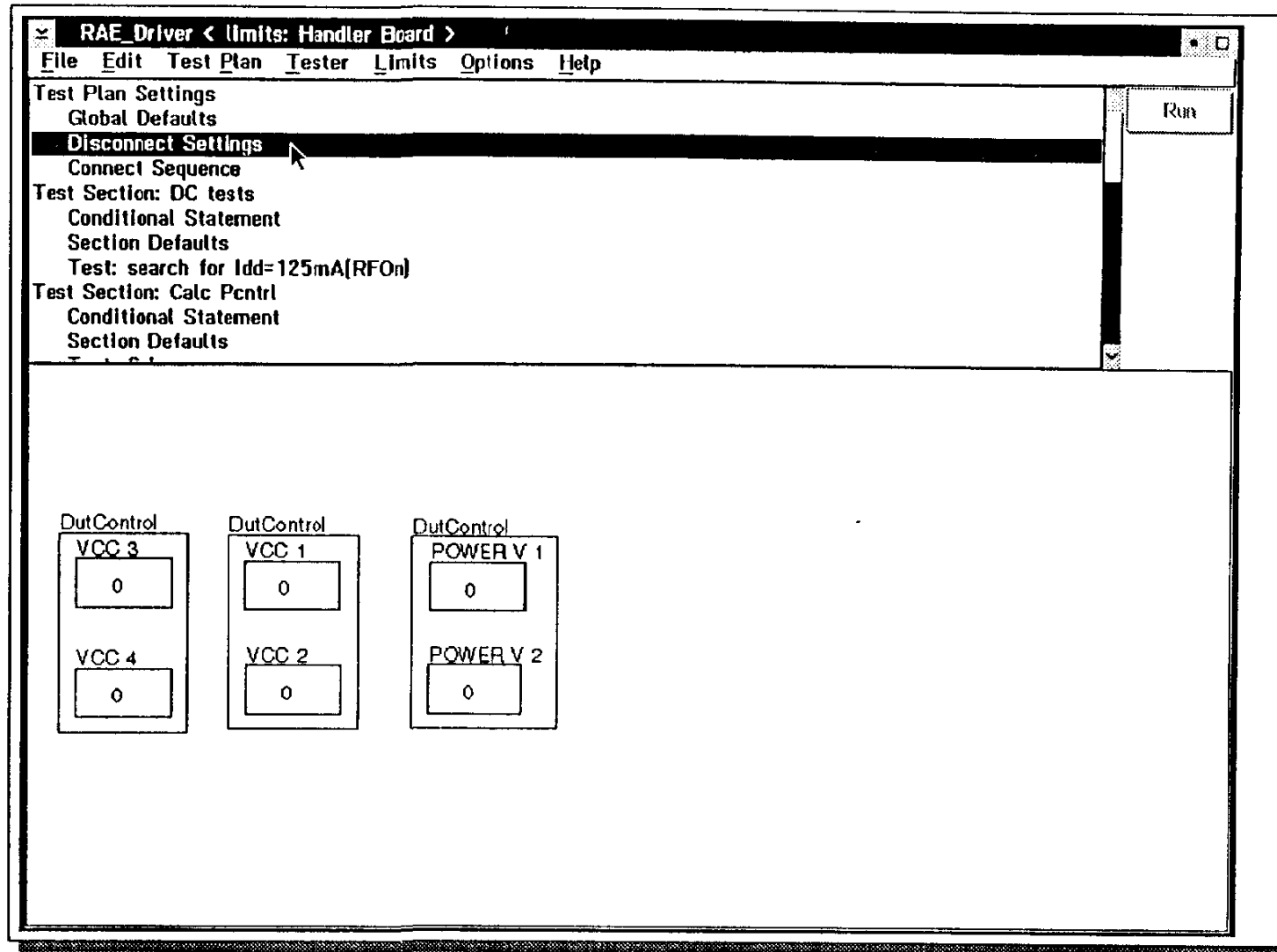
Src 12 Output SOURCE 1 ATTN: 10db, SOURCE 1 AMP: OFF, SOURCE OUTPUT MODE: Sources

Testhead INPUT PORT: RF 3, OUTPUT PORT: RF 6

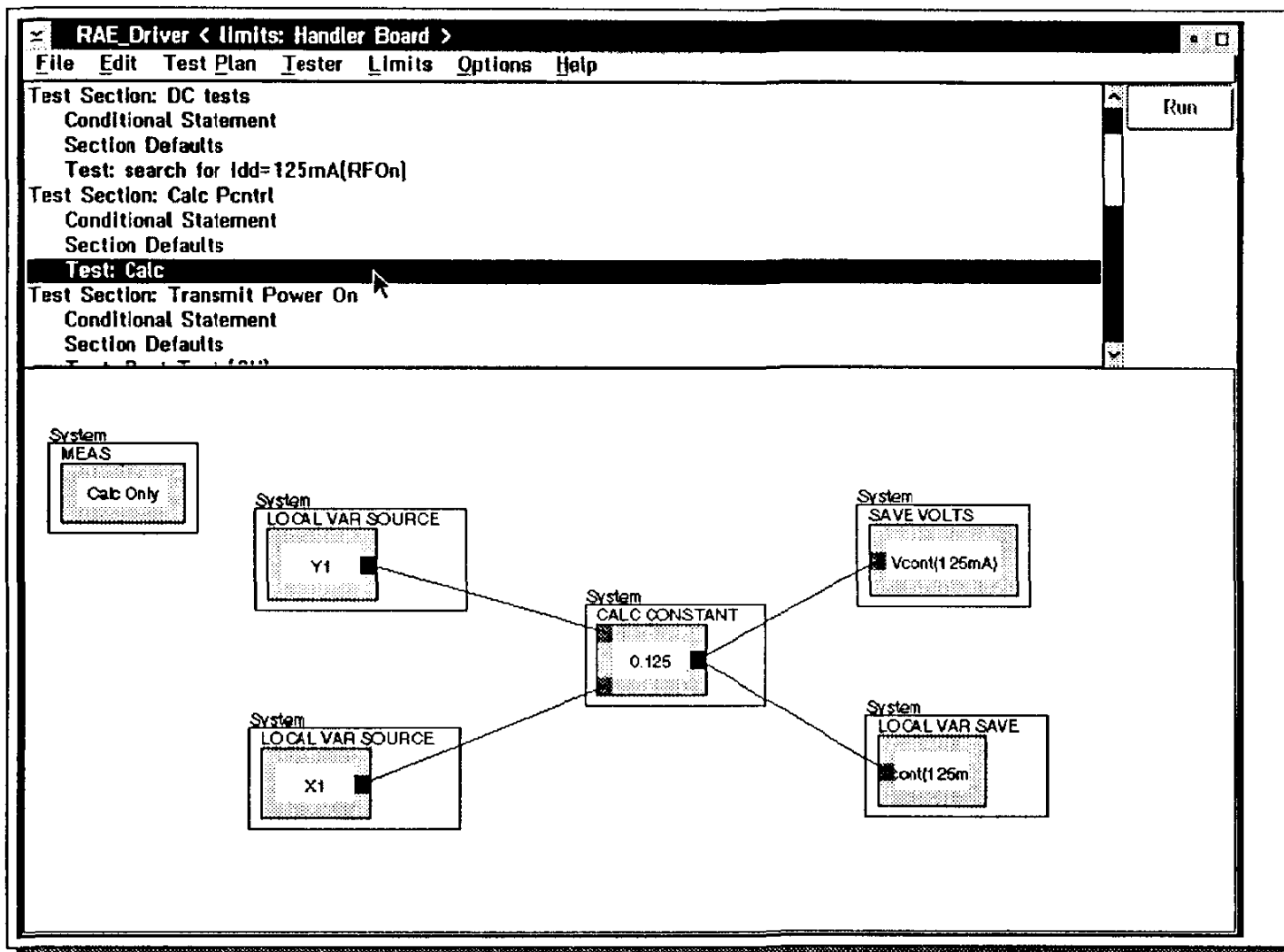
Testhead RF 3: src1-noise, Testhead RF 6: Hi power receive

Testhead REC ATTENUATION: 40db

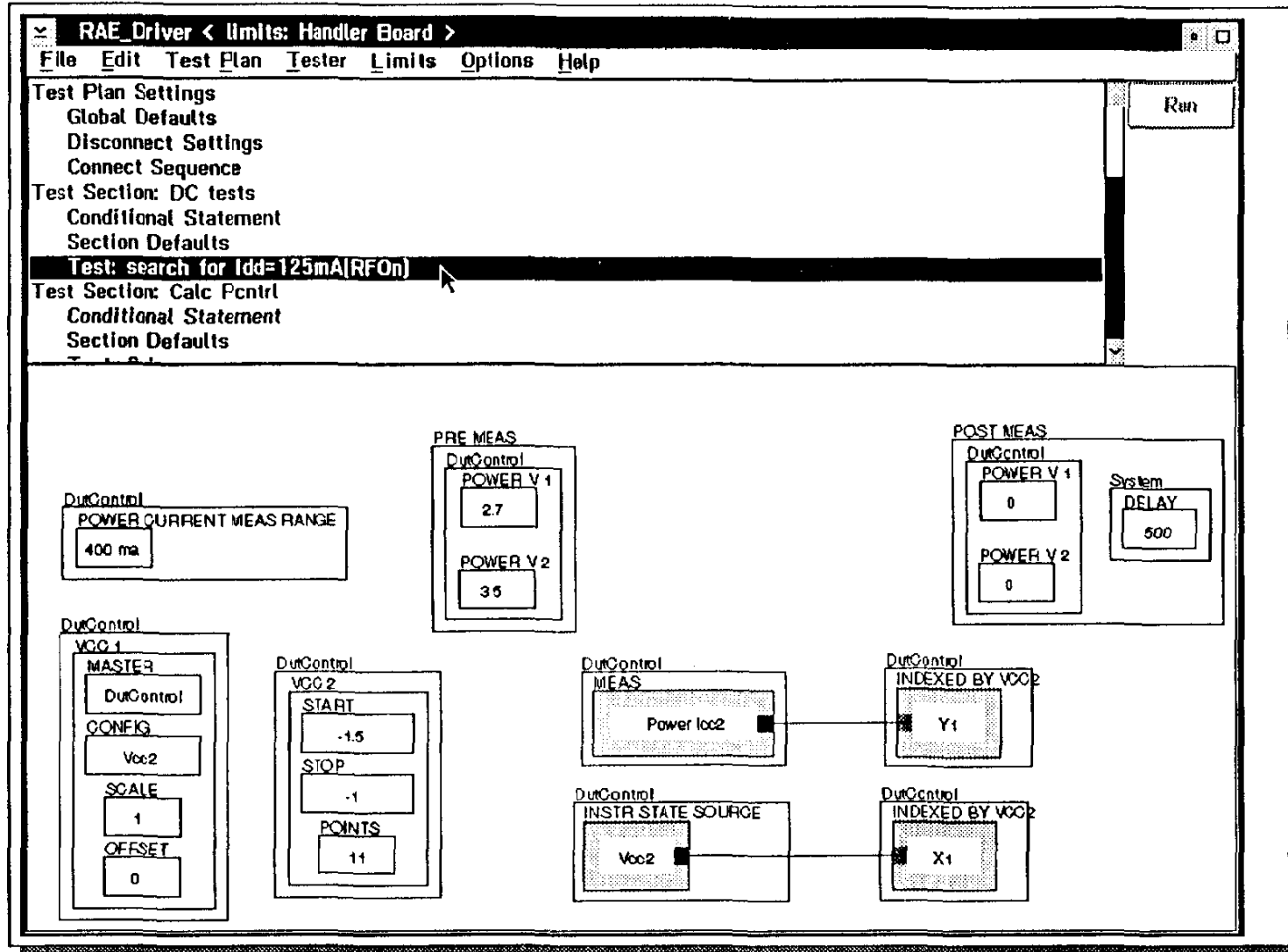
REA Driver Test Plan - Disconnect Settings



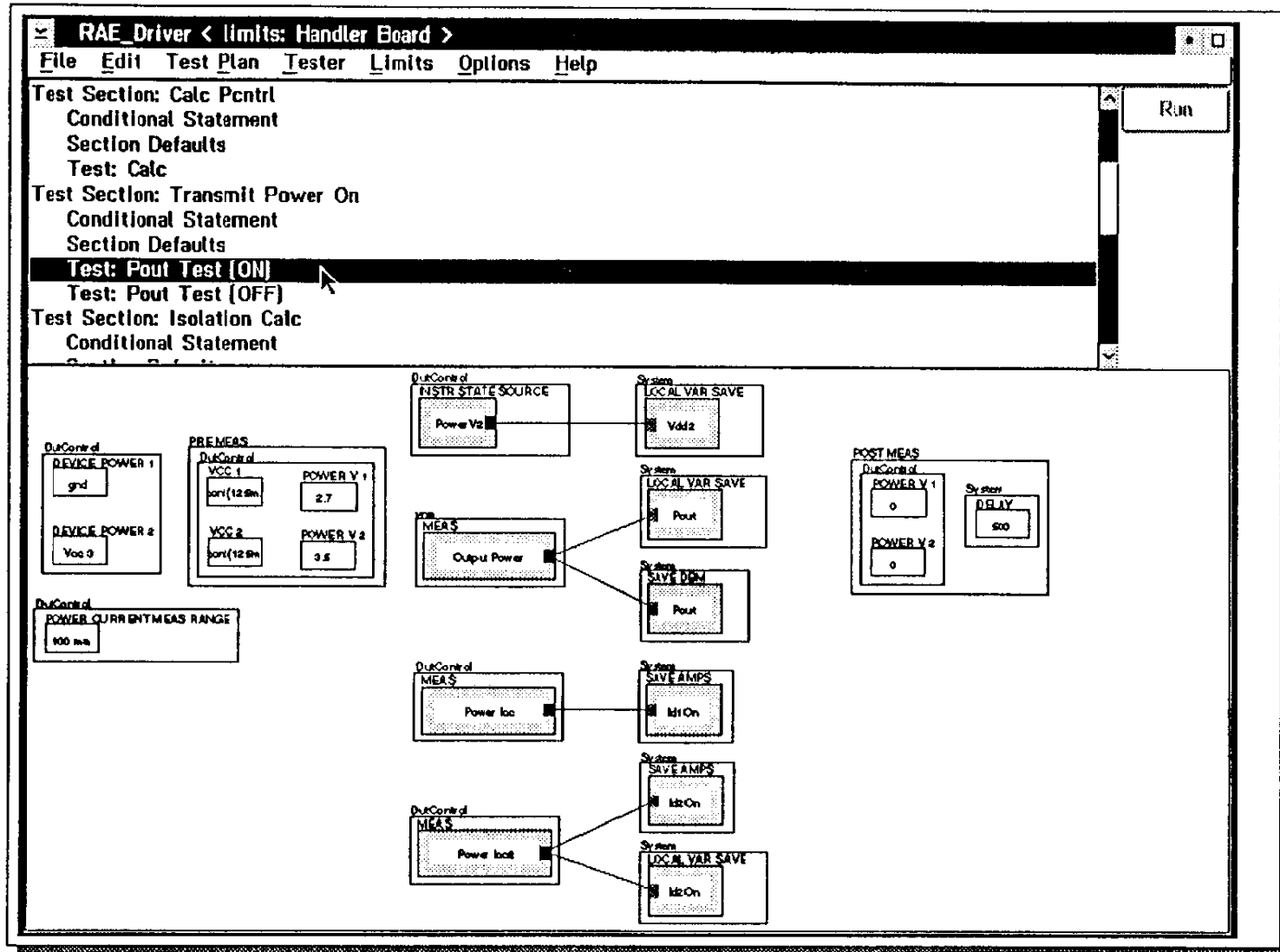
REA Driver Test Plan - Calculate Control Voltage (Vcont(125mA))



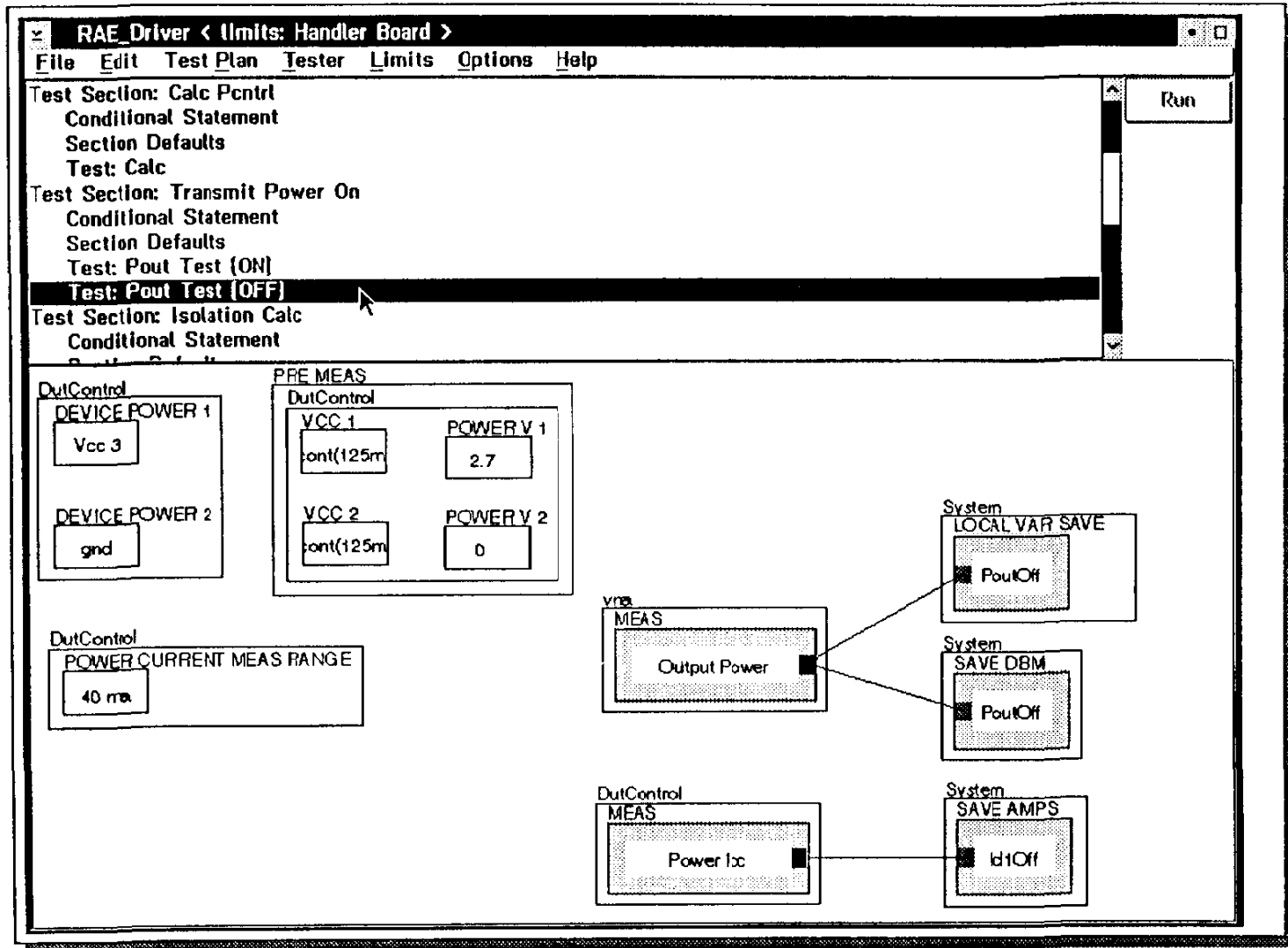
REA Driver Test Plan - Test: Search for Idd = 125 mA (RF On)



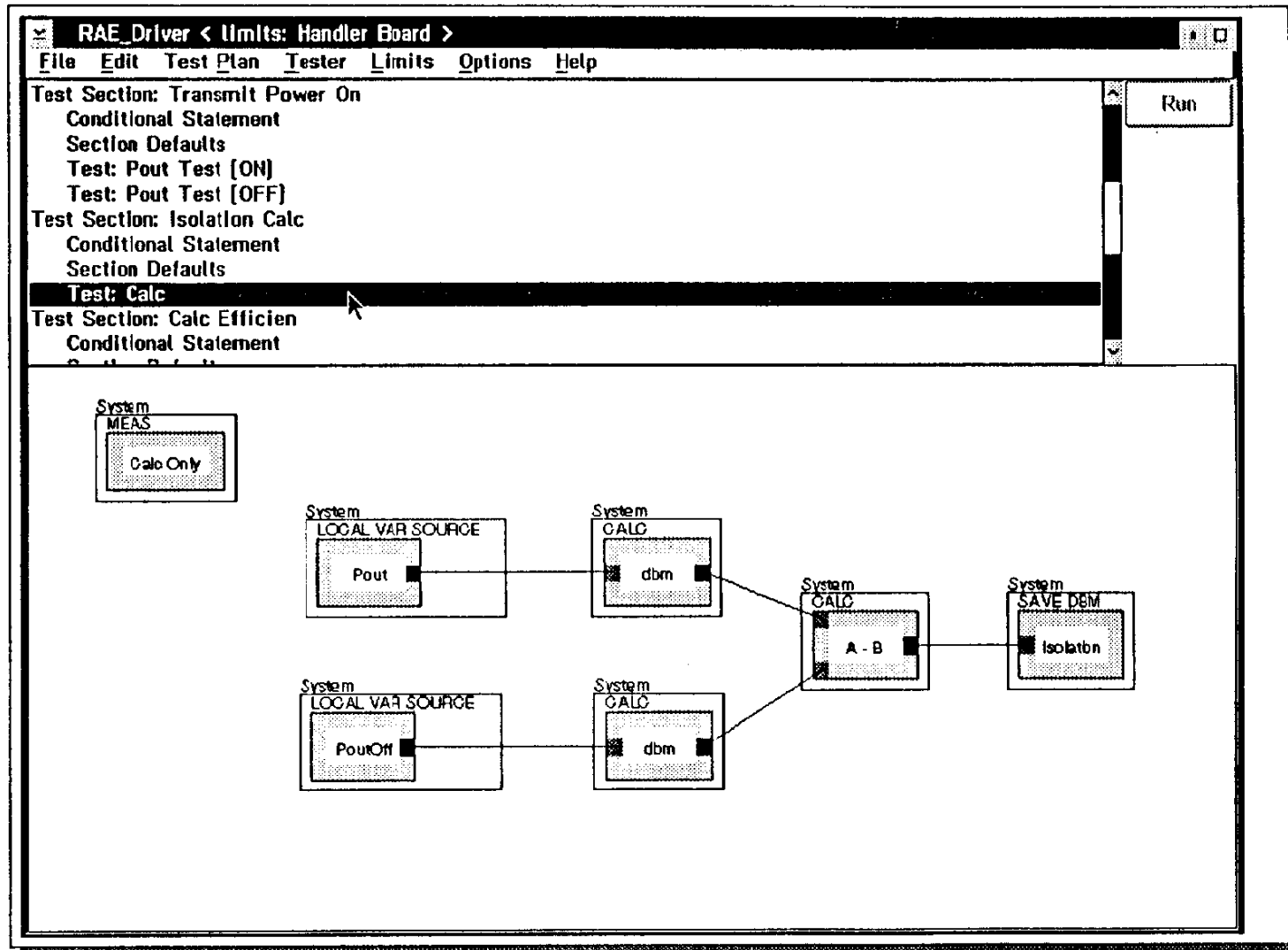
REA Driver Test Plan - Test Panel: Pout Test (ON)



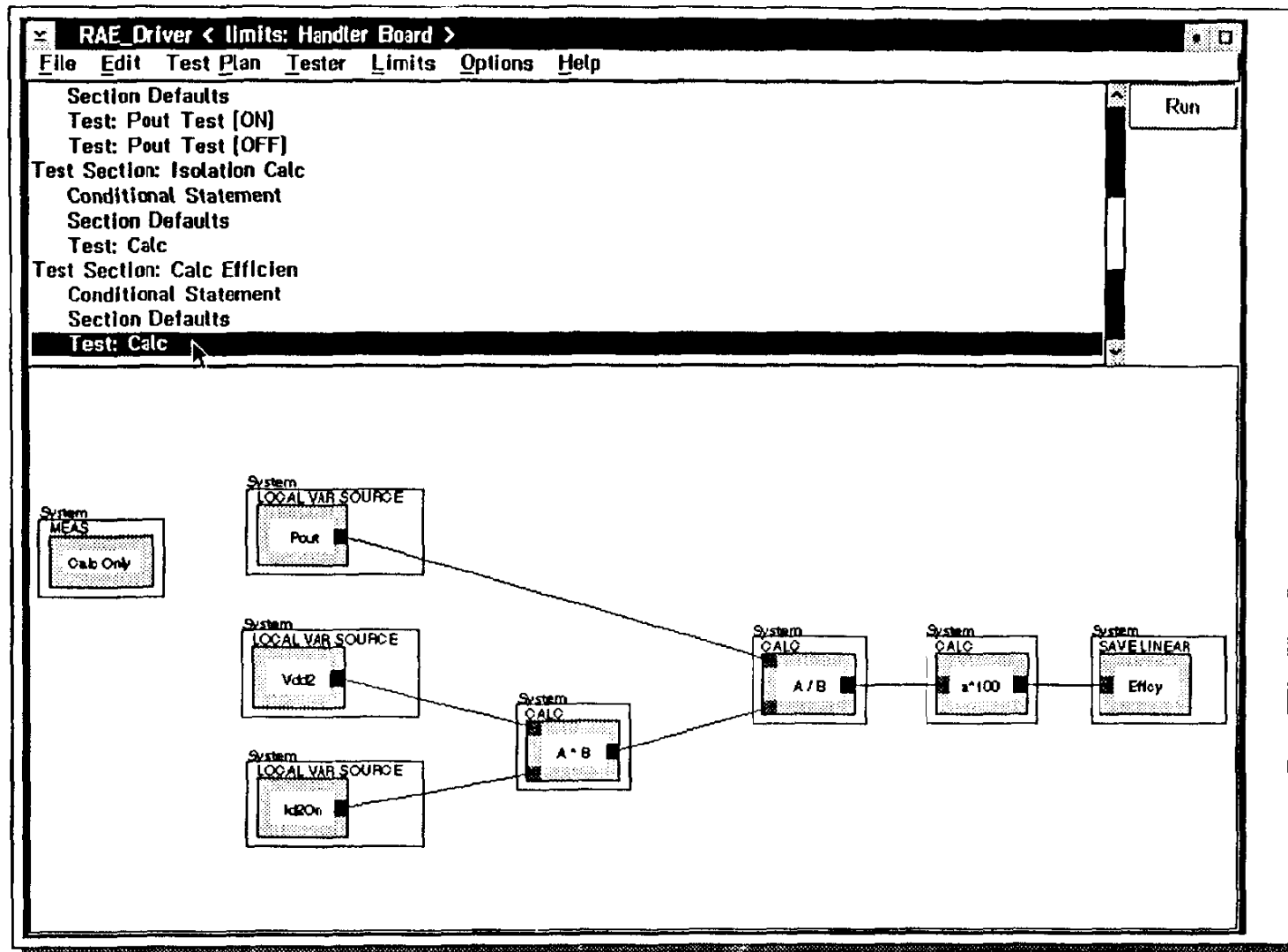
REA Driver Test Plan - Test Panel: Pout Test (OFF)



REA Driver Test Plan - Test Panel: Calculating Isolation



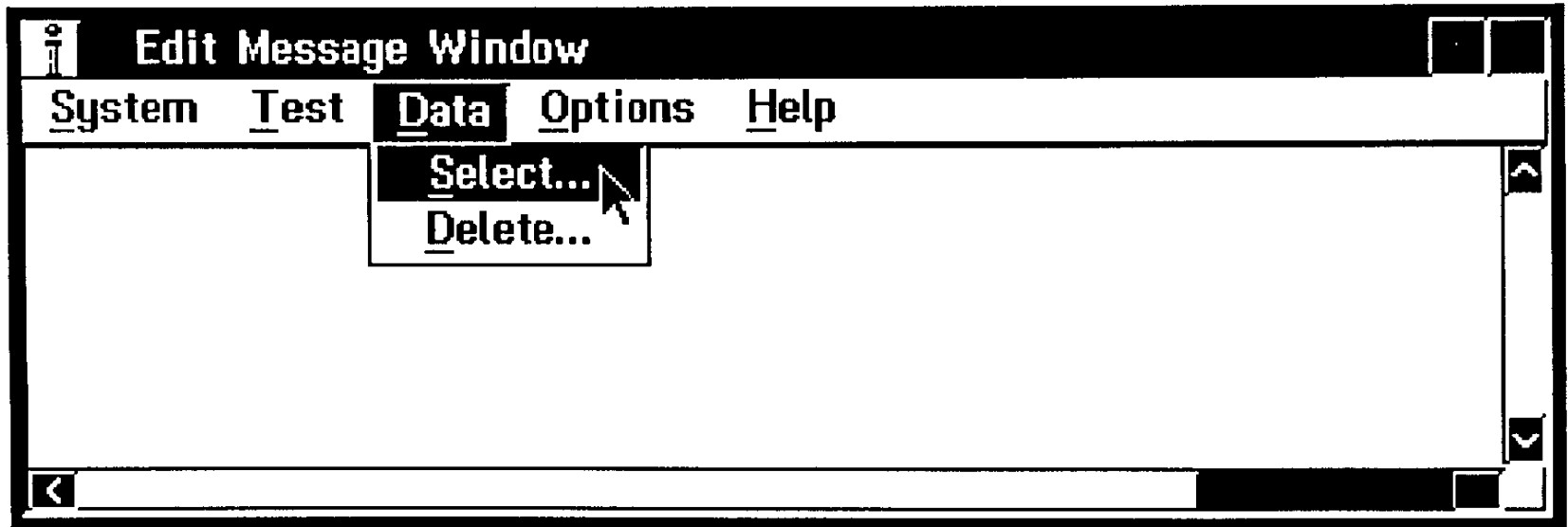
REA Driver Test Plan - Calculating Efficiency



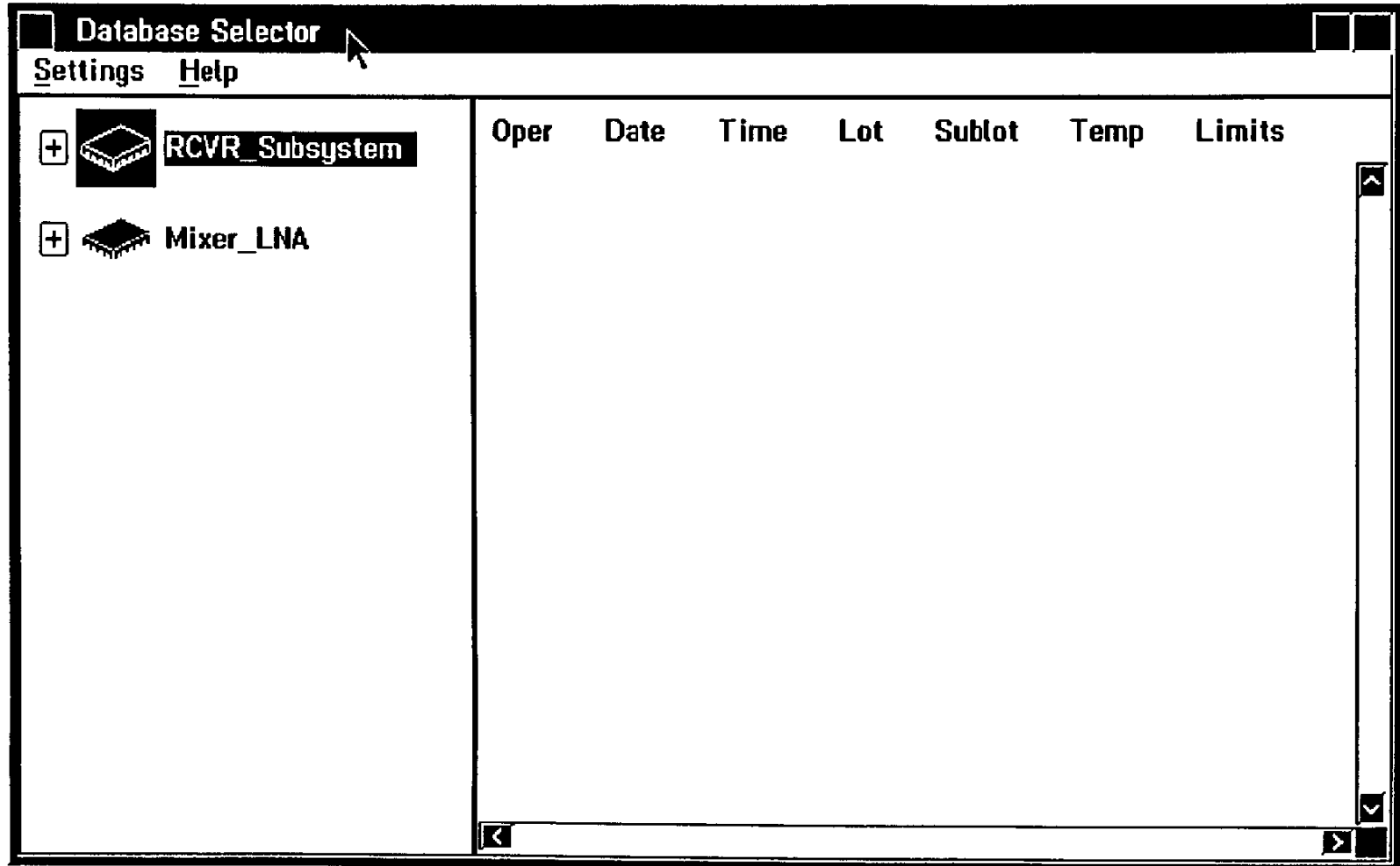
Local SQL Data Base Tools



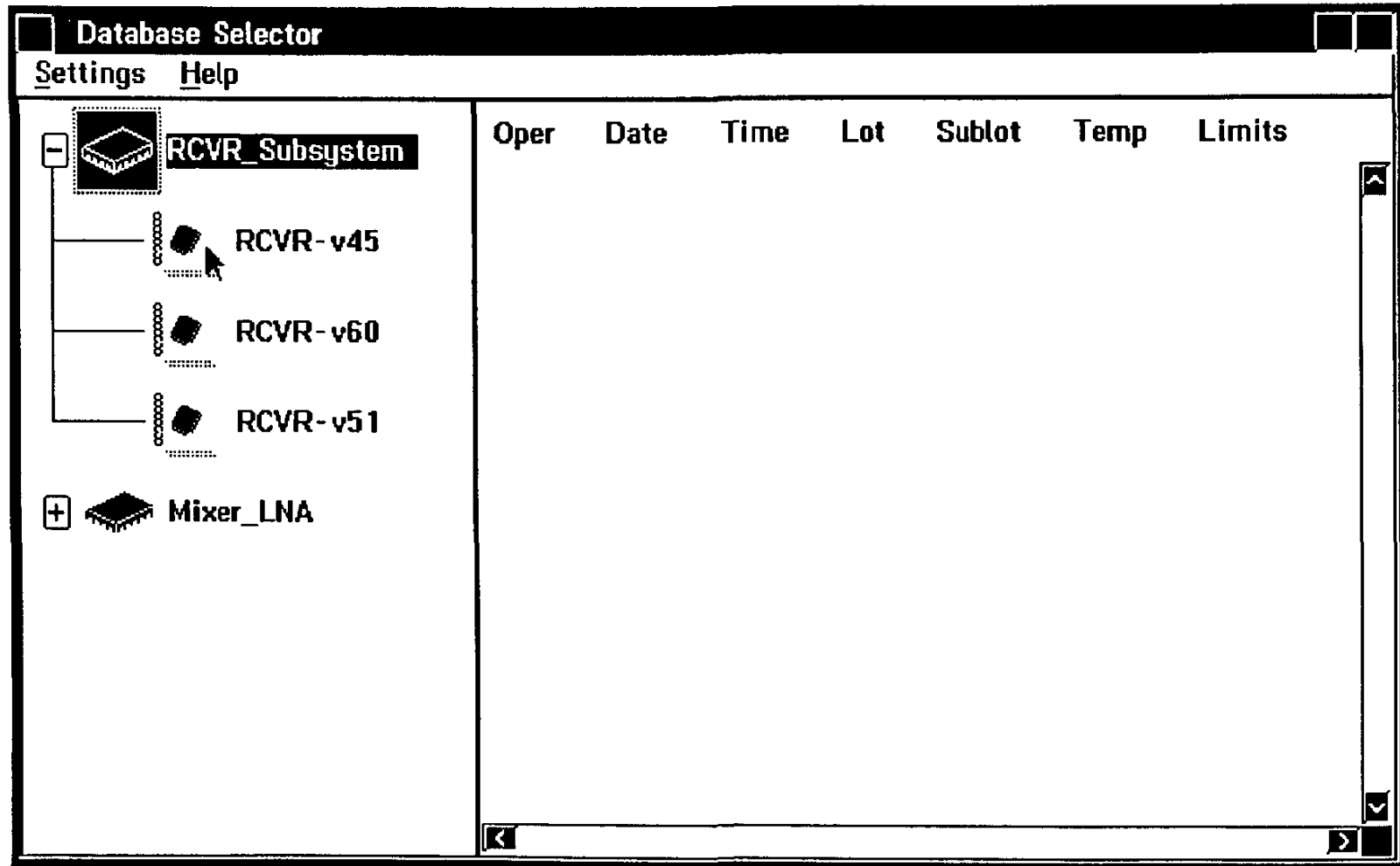
Opening the Data Base Selector Window



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:

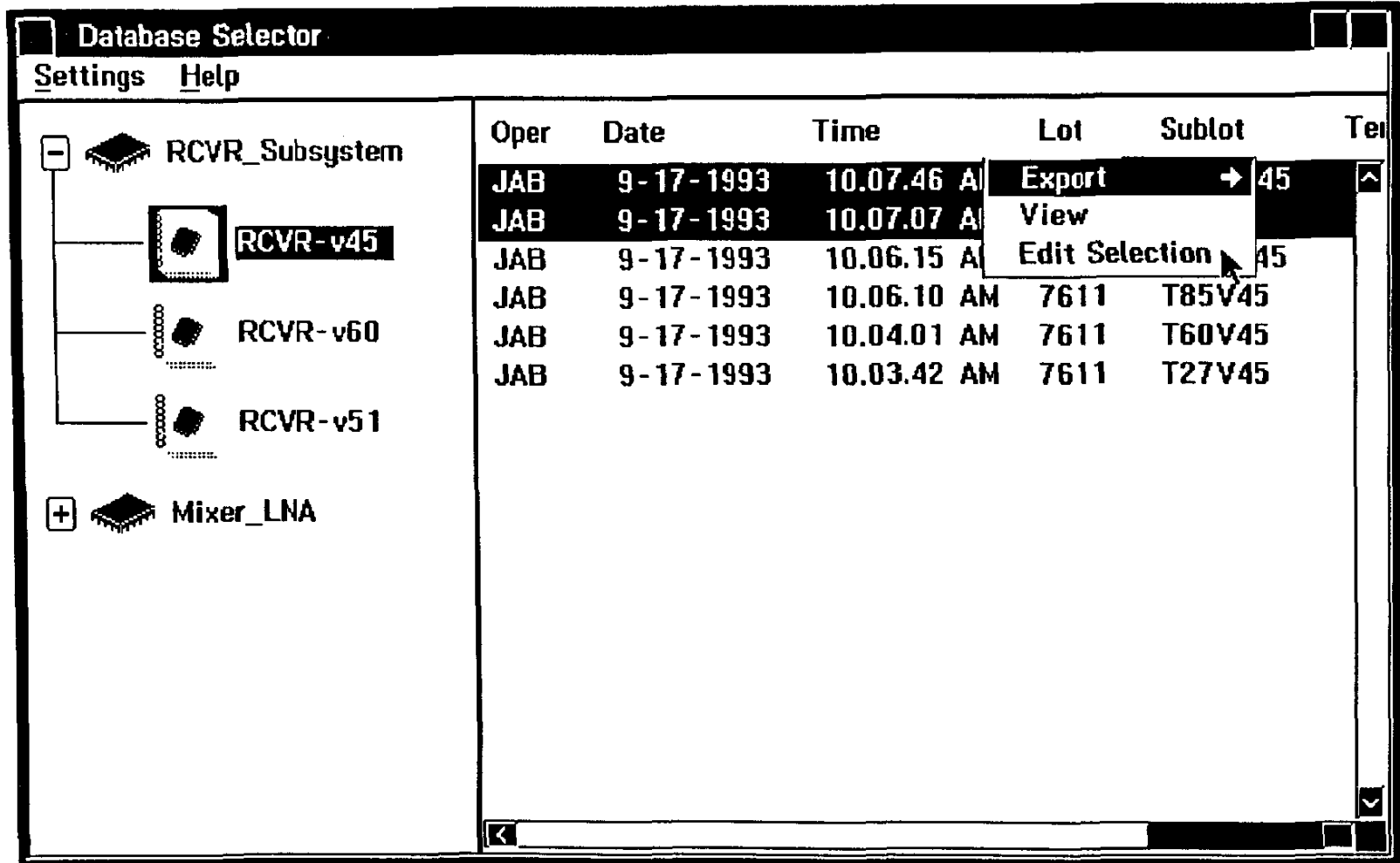
- RCVR_Subsystem
 - RCVR-v45 (highlighted)
 - RCVR-v60
 - RCVR-v51
- Mixer_LNA (with a plus sign icon)

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

.....



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

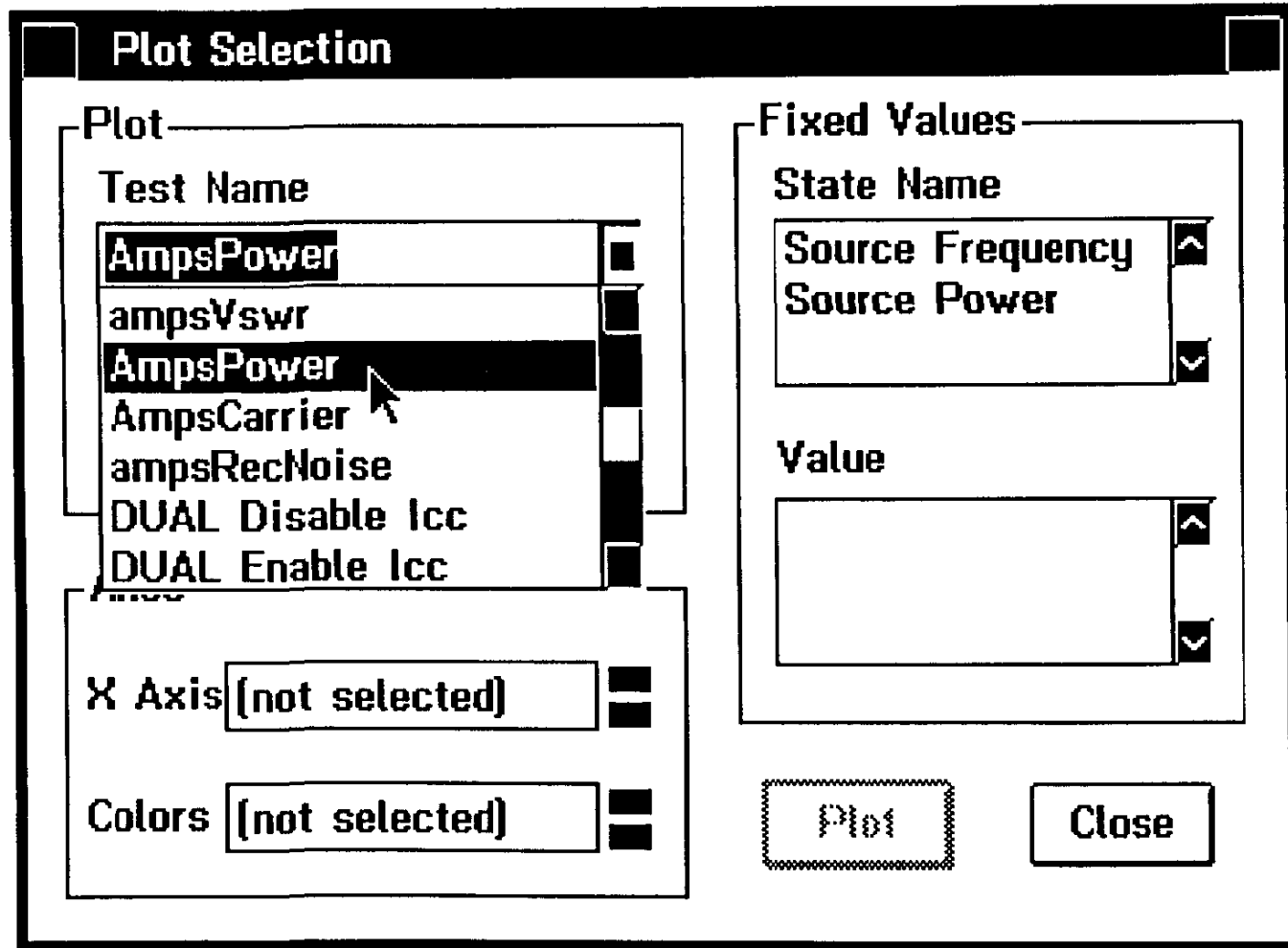
Viewing the Lot(s) & Sublot(s) Selected

The screenshot shows the 'Database Selector' application window. On the left is a tree view with a minus sign icon and the following items: RCVR_Subsystem (with a chip icon), RCVR-v45 (with a chip icon), RCVR-v60 (with a chip icon), RCVR-v51 (with a chip icon), and Mixer_LNA (with a plus sign and chip icon). On the right is a table with columns: Oper, Date, Time, Lot, Sublot, and Tel. The table contains five rows of data. A context menu is open over the first two rows, with 'View' selected.

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

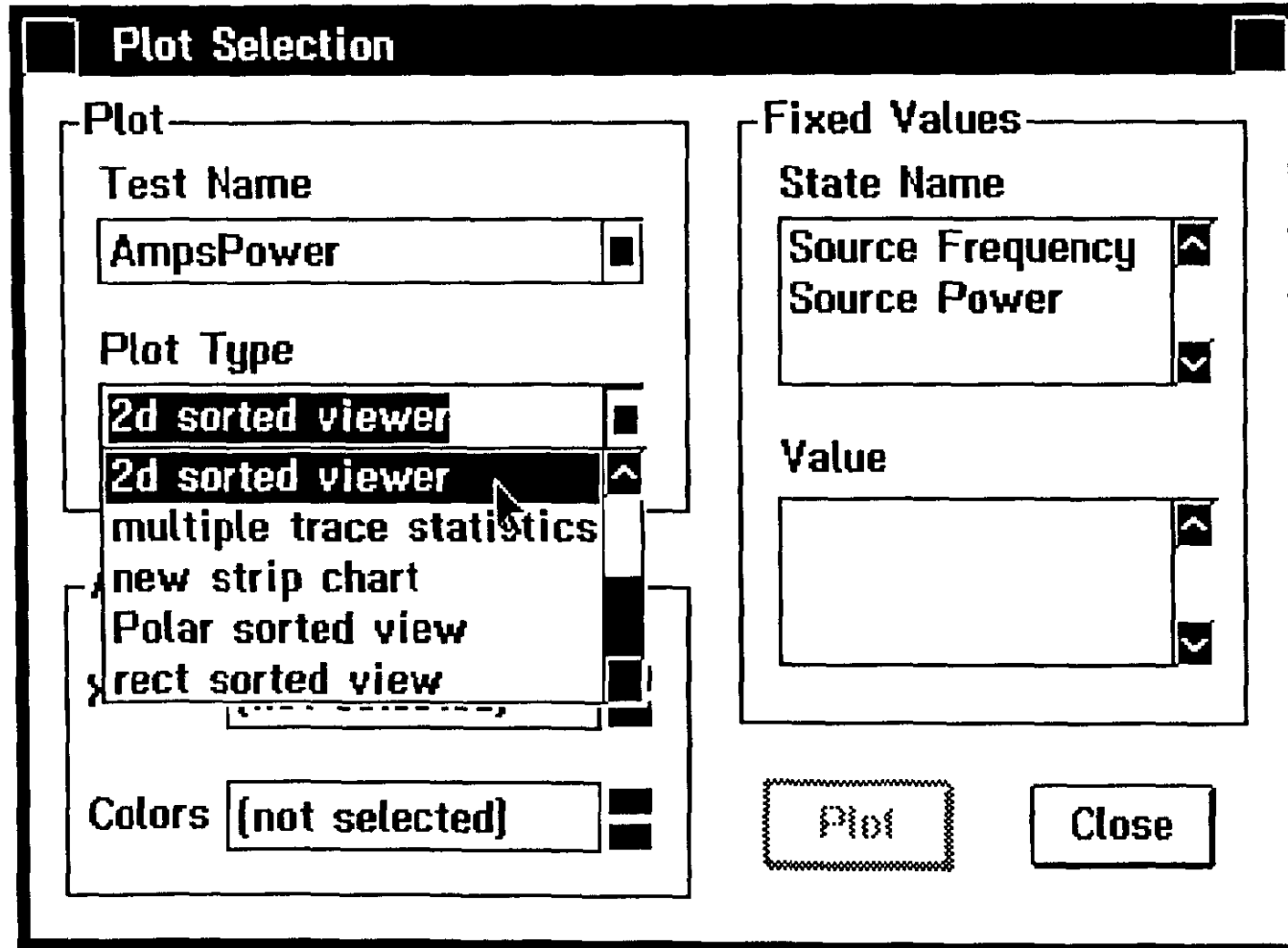
Selecting the Test Name (Data Save Name)

.....



Selecting the Plot Type (Data Viewer)

.....



Selecting the X Axis & Colors Parameters

.....

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

Detailed description: The image shows a graphical user interface window titled "Plot Selection". The window is divided into several sections. On the left, there is a "Plot" section with two dropdown menus: "Test Name" (set to "AmpsPower") and "Plot Type" (set to "2d sorted viewer"). Below this is an "Axes" section with two more dropdown menus: "X Axis" (set to "Source Frequency") and "Colors" (set to "Source Power"). On the right side, there is a "Fixed Values" section with two empty dropdown menus labeled "State Name" and "Value". At the bottom right of the window are two buttons: "Plot" and "Close".

Opening the Data Viewer

.....

Plot Selection

Plot

Test Name
AmpsPower

Plot Type
2d sorted viewer

Axes

X Axis Source Frequency

Colors Source Power

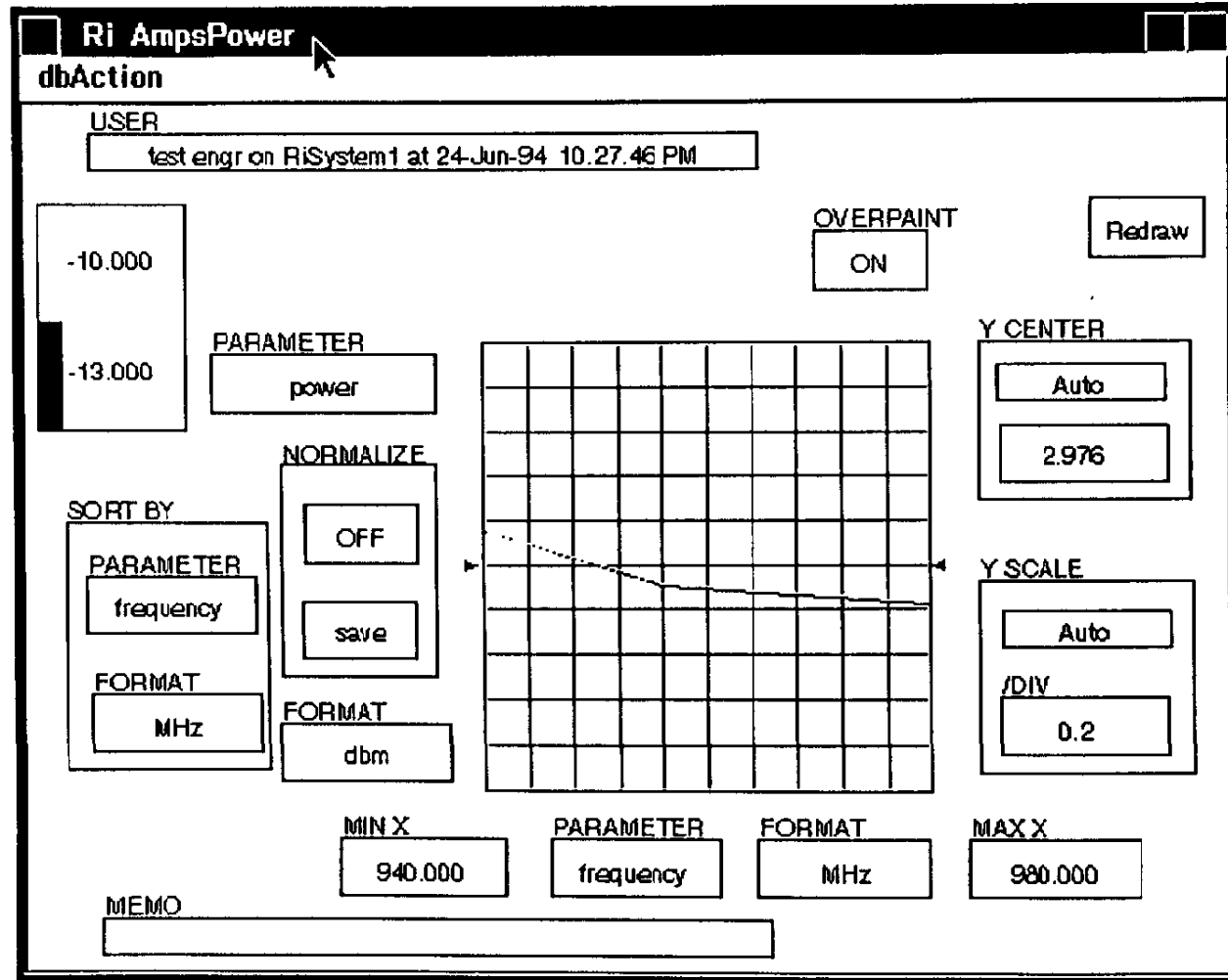
Fixed Values

State Name

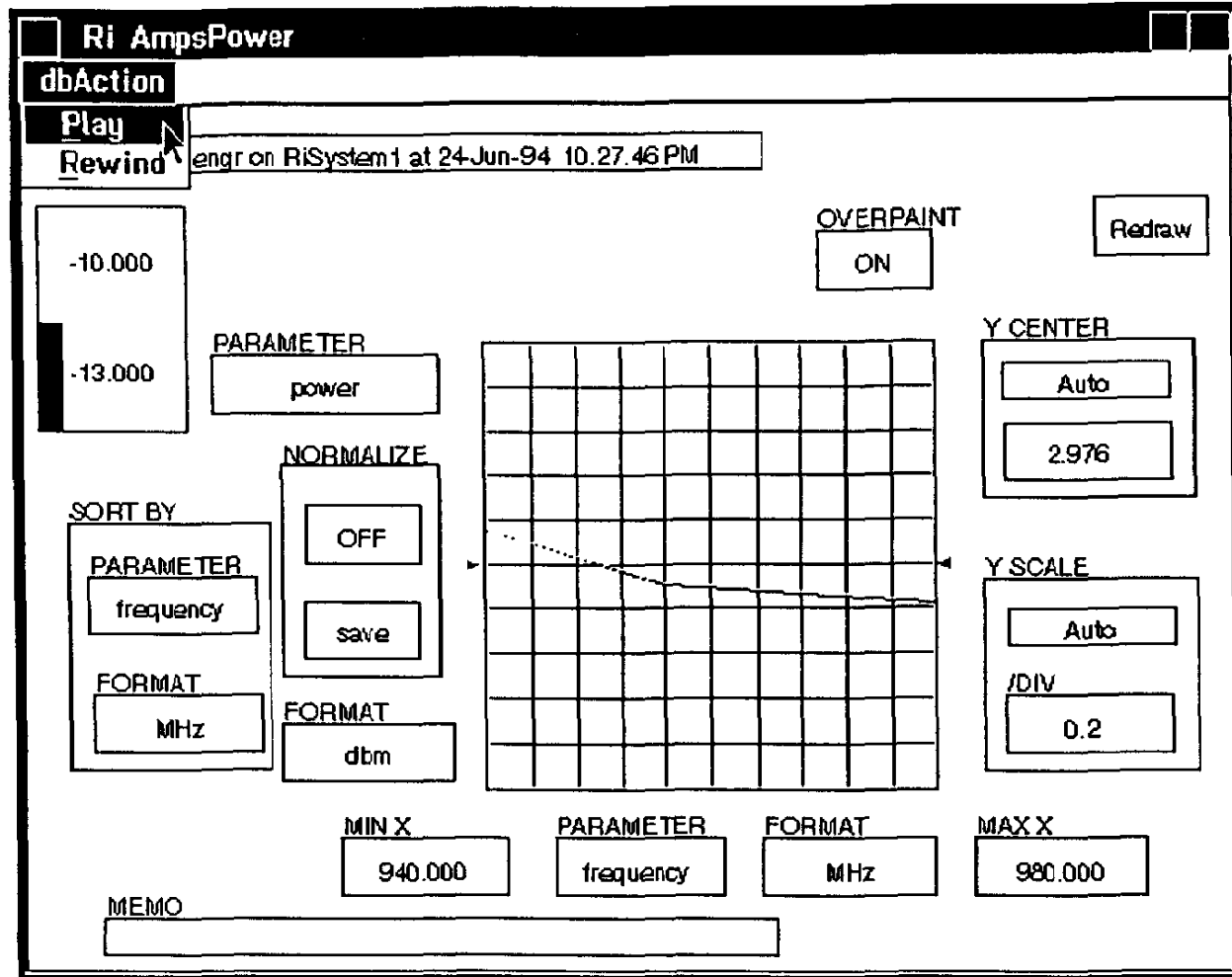
Value

Plot Close

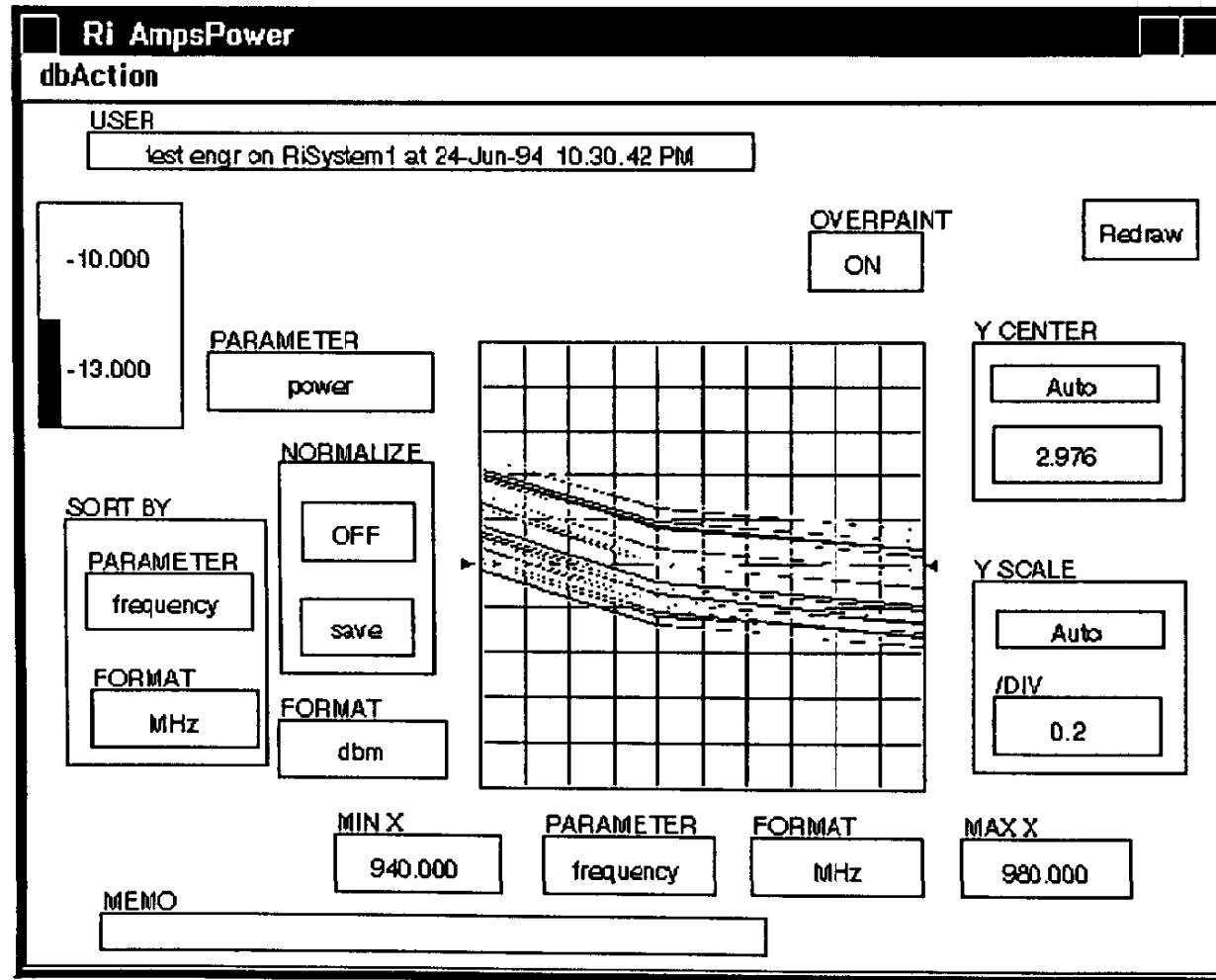
Viewing the Data



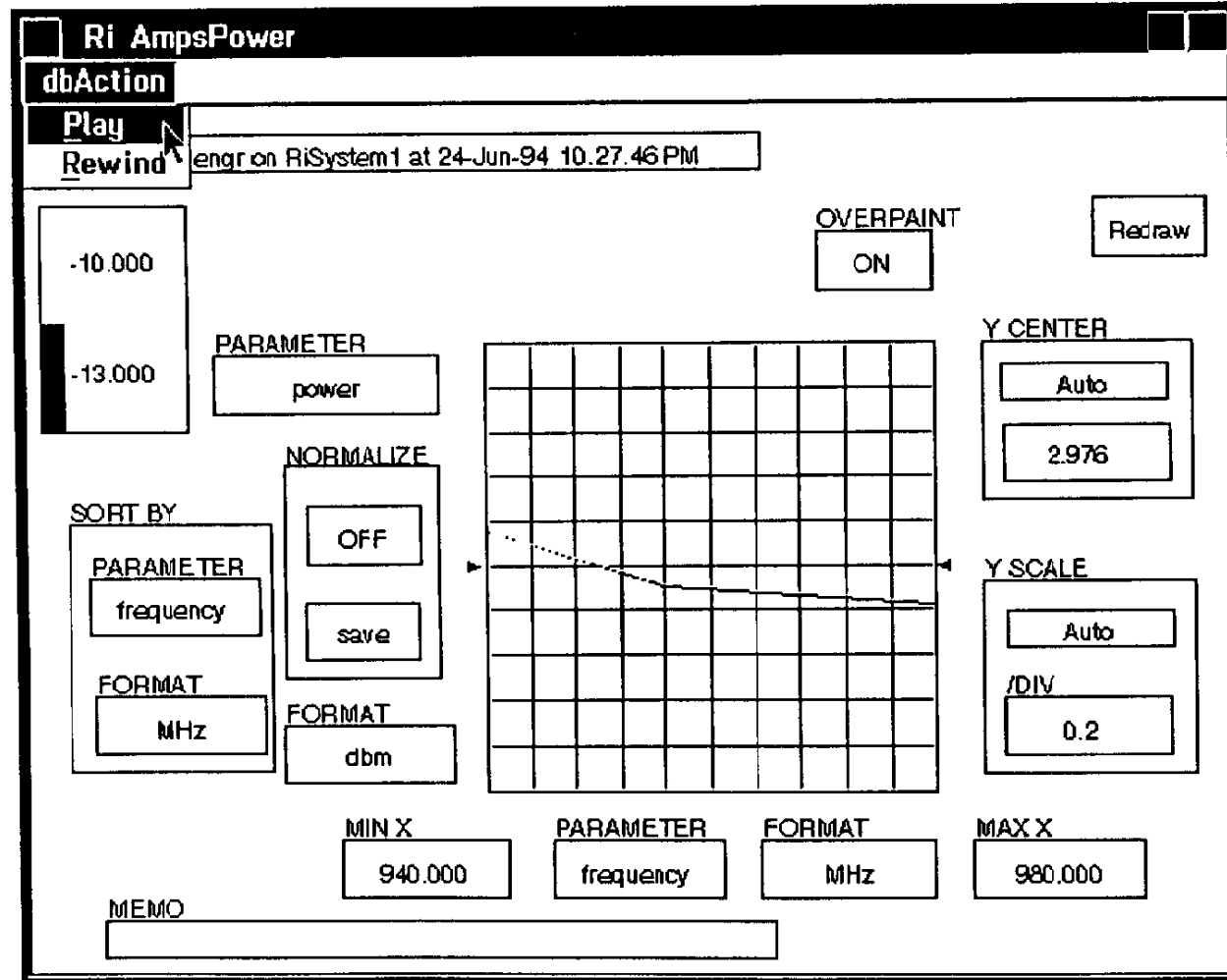
Read the Data from Data Base



Displaying the Data for the Devices Selected

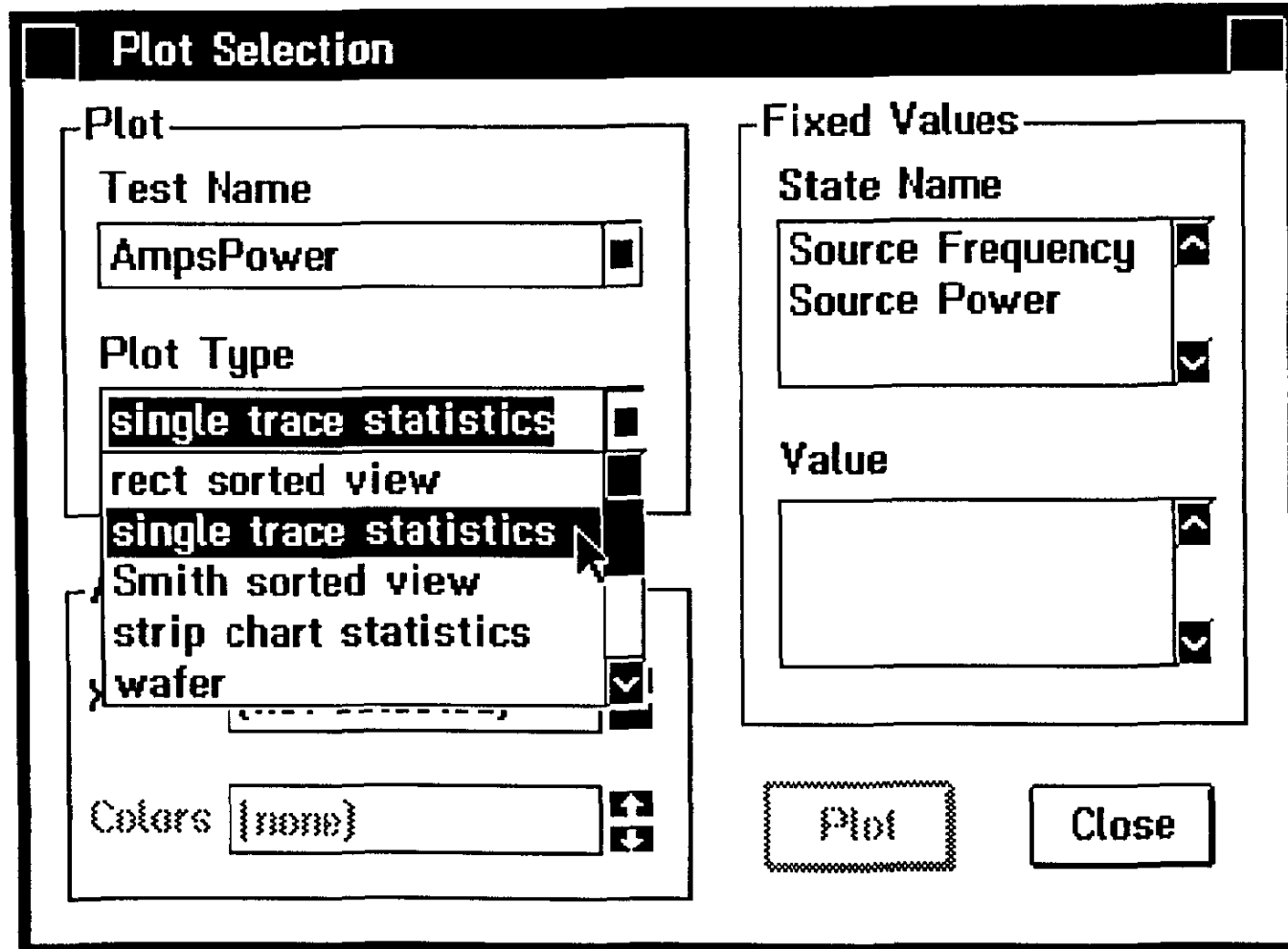


Read the Data from Data Base



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)

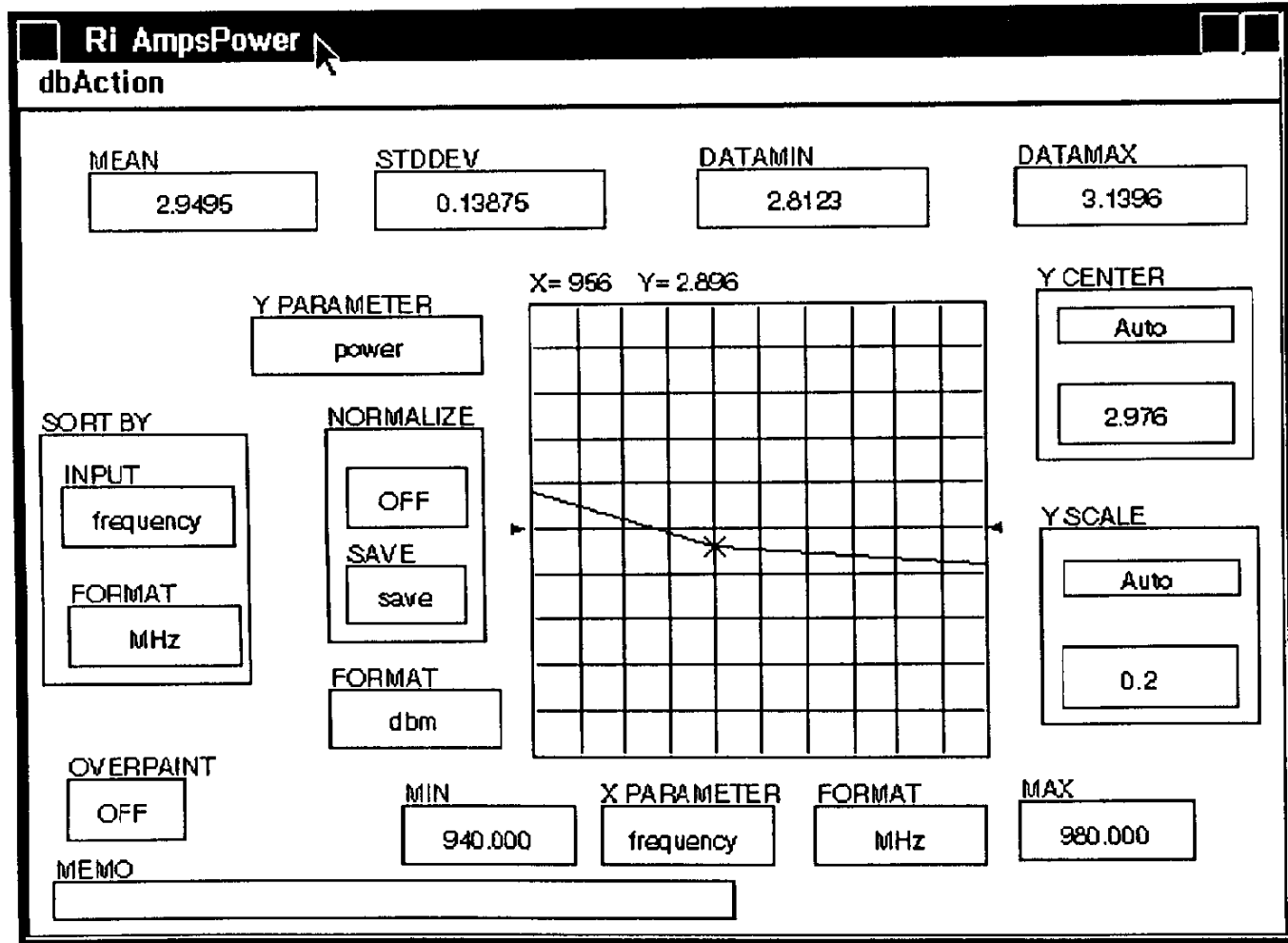
Fixed Values

State Name
Source Power

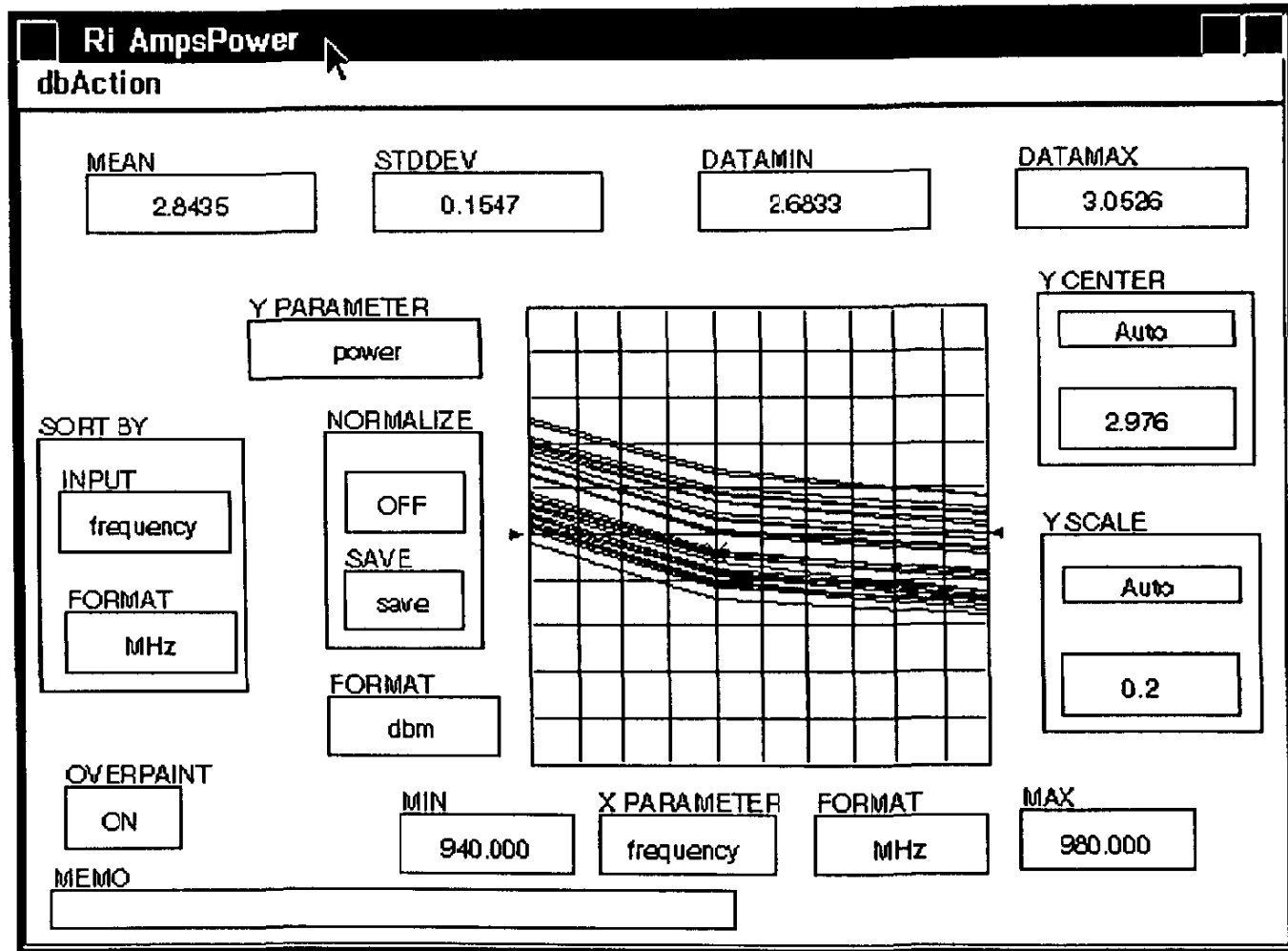
Value
- 13.0
- 10.0

Plot Close

Viewing the 1st Set of Data Selected

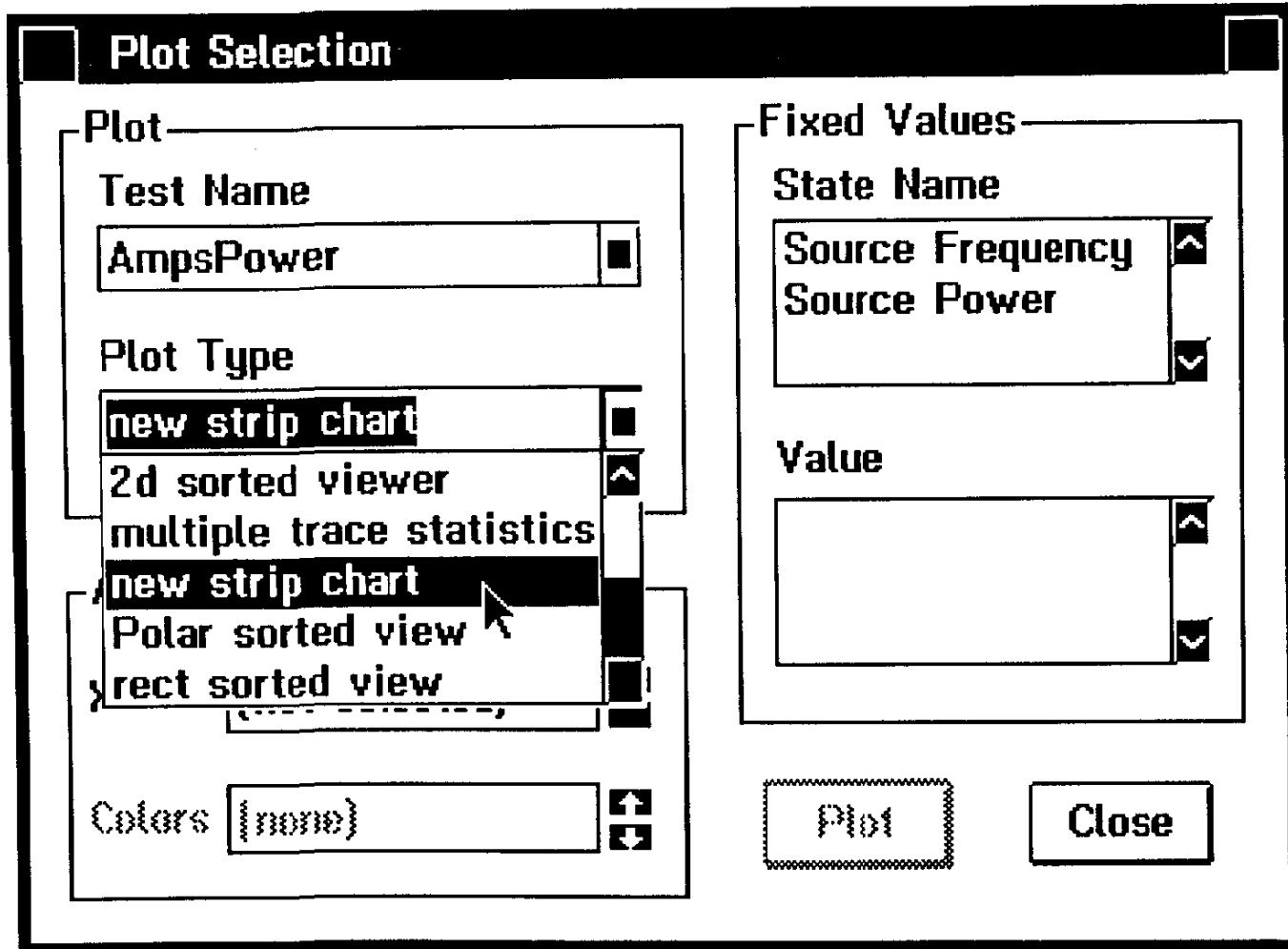


Displaying all of the Data Selected



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)

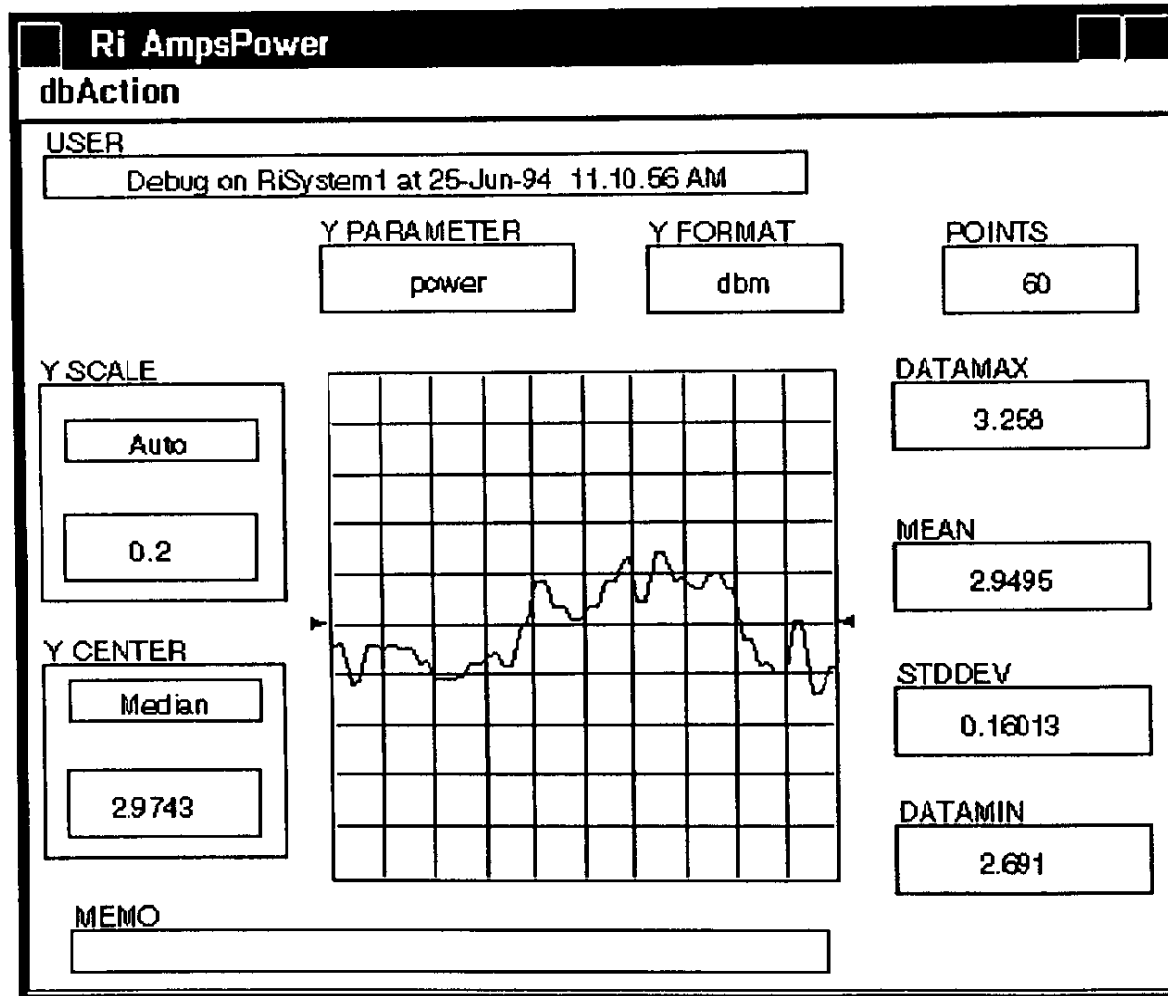
Fixed Values

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 entries: 'RCVR-v45', 'RCVR-v60', and 'RCVR-v51' (all with a minus sign icon), and 'Mixer_LNA' (with a plus sign icon).

The main area displays a table with the following data:

Oper	Date	Export	Details	pt	Te
JAB	9-17-1993	View	Statistics	5V45	
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 table, showing options: 'Export' (with a right arrow), 'View', and 'Edit Selection'. The 'Details' option is selected, and its sub-menu is visible, containing 'Statistics' and 'DLIST file'.

Data Worksheet

	1.1.1.1 Sleep ICC	1.2.1.1 Standby ICC	1.3.1.1.1 LoBuffer Frqncy: 900.0, P	1.3.1.1.2 LoBuffer Frqncy: 900.0, P	1.3.1.2.1 LoBuffer Frqncy: 970.0, P	1.3.1.2.2 LoBuffer Frqncy: 970.0, P	1.3.1.3.1 LoBuffer 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

	1.21.1	1.3.1.1.1	1.3.1.1.2	1.3.1.21	1.3.1.22	1.3.1.31
	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

Database Selector

Settings Help

[-] RCVR_Subsystem

- RCVR-v45
- RCVR-v60
- RCVR-v51

[+] Mixer_LNA

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

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

Database Selector

Settings Help

Exclude retests

Group lot names system

-  RCVR-v45
-  RCVR-v60
-  RCVR-v51
-  Mixer_LNA

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	10.06.15 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 a software window titled "Database Selector". It has a menu bar with "Settings" and "Help". A dropdown menu is open under "Settings", showing "Exclude retests" (checked) and "Group lot names" (selected). The main area is split into two panes. The left pane shows a tree view with a root node "system" containing three sub-nodes: "RCVR-v45", "RCVR-v60", and "RCVR-v51", each with a chip icon. Below these is a node "Mixer_LNA" with a plus sign and a chip icon. The right pane is 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	

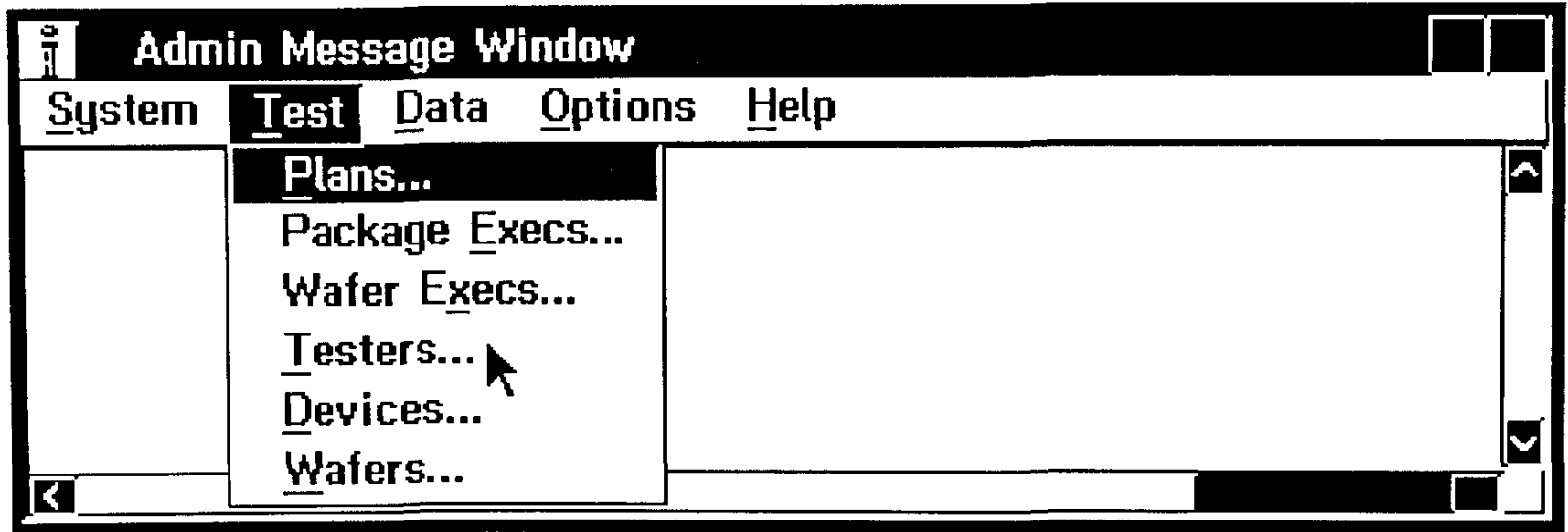


Managing Testers

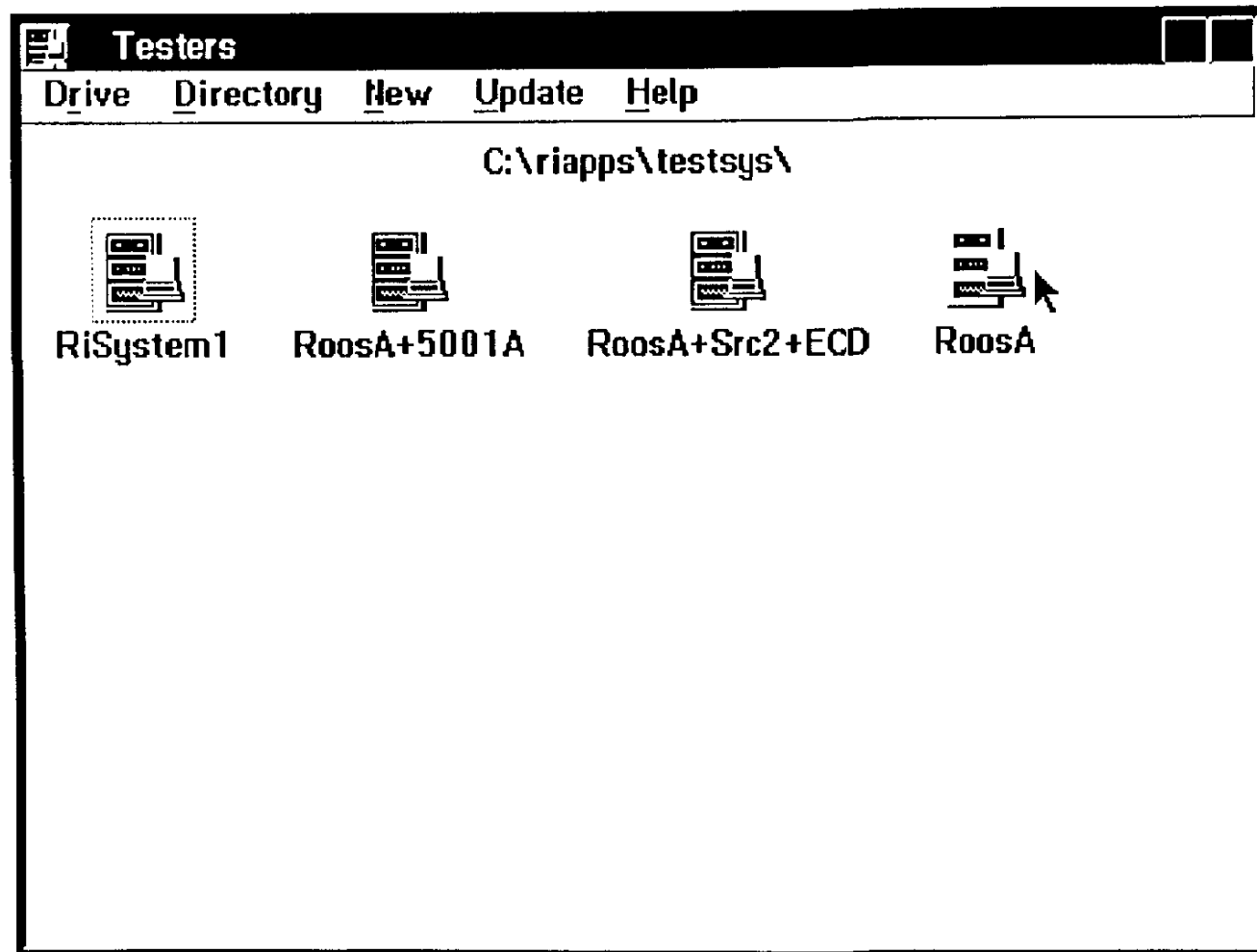
- **Active and Edit Testers**
- **Edit Tester Functions: Activate, View, Copy or Delete**
- **Active Tester Function: Configuring the Instrumentation**
- **Active Tester Function: Inspecting Calibration Data**
- **Active Tester Function: Setting Idle States**
- **Active Tester Function: Manual Control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

Opening the Testers Container Window

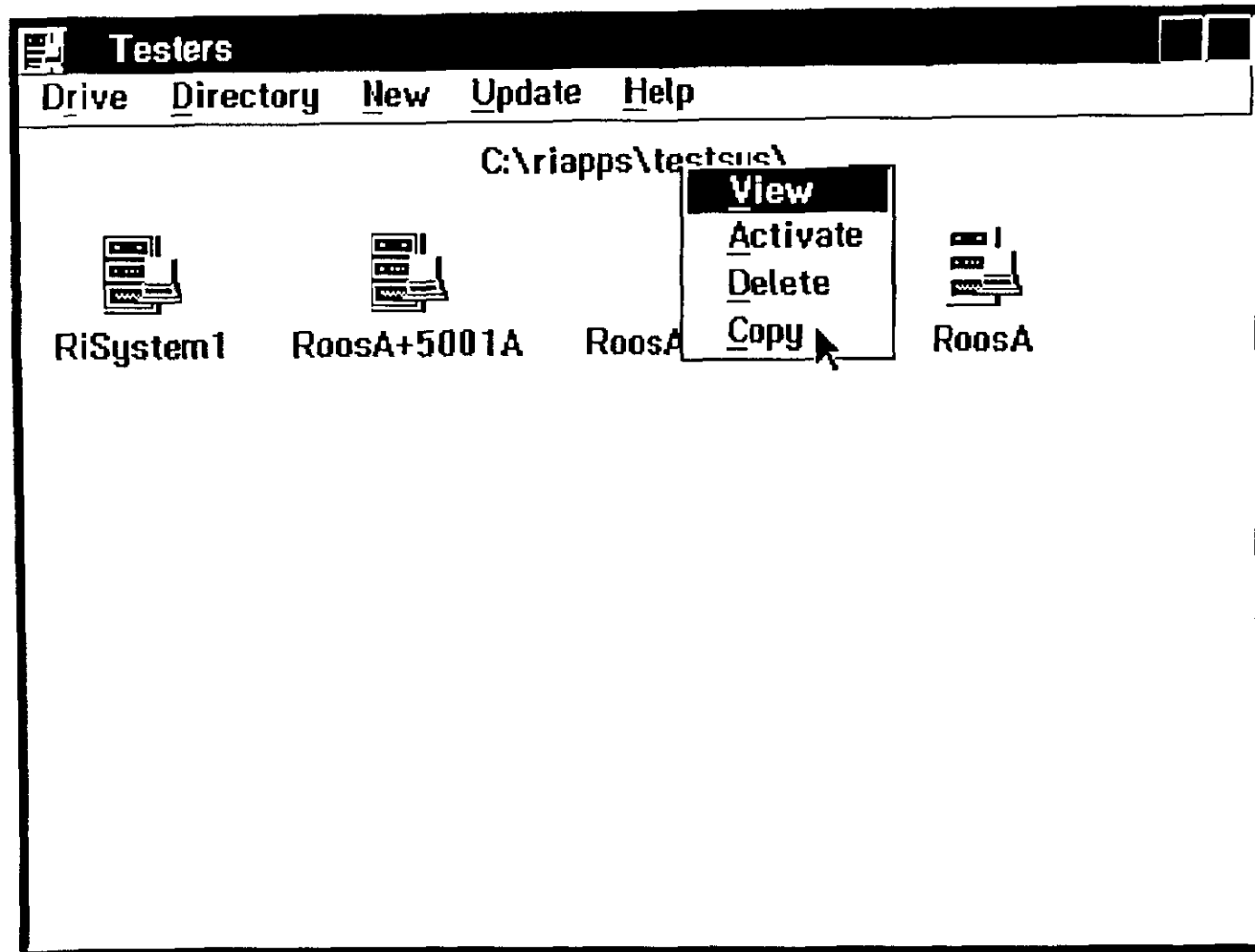
.....



Active vs Edit Testers

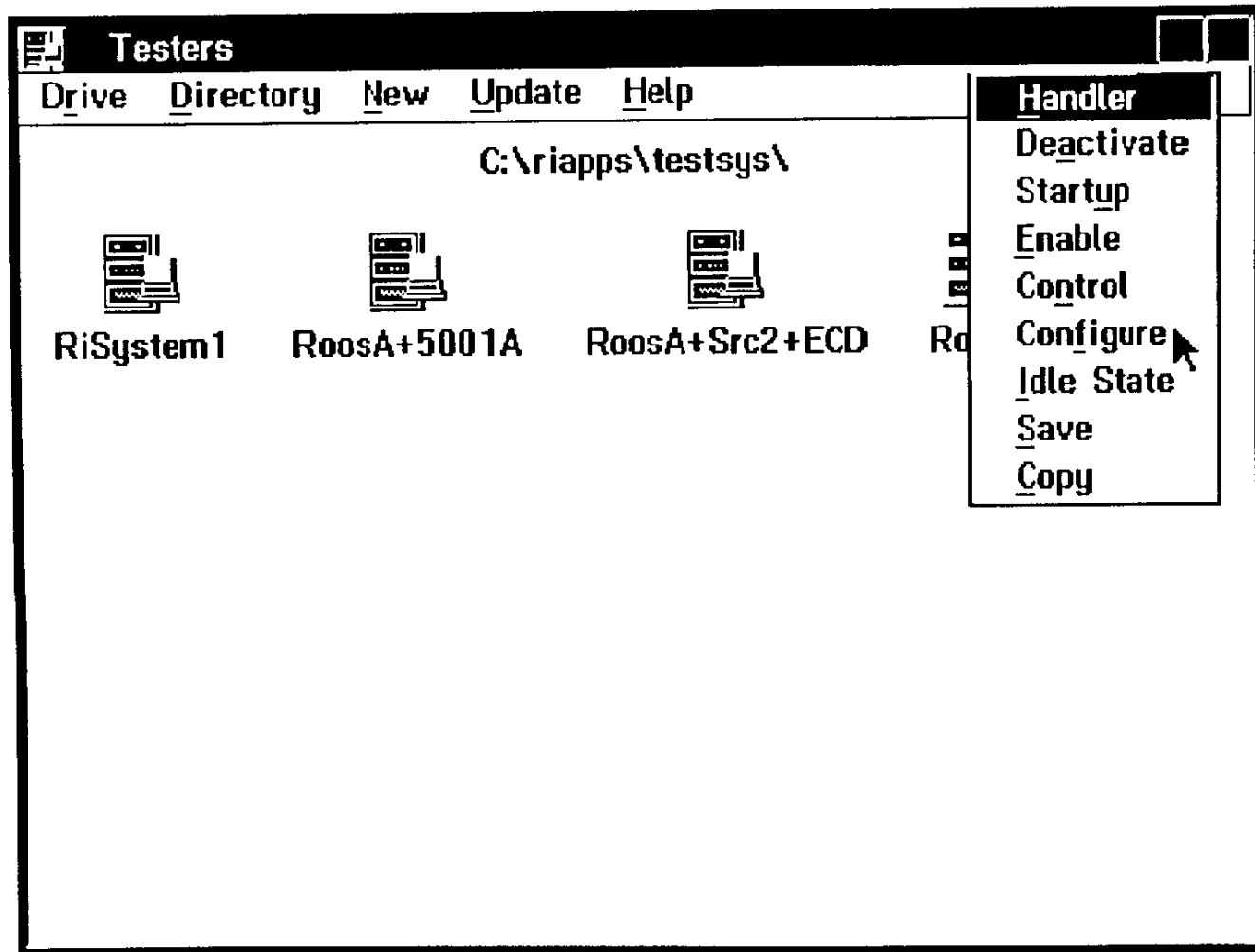


Edit Testers: Activate, View, Copy & Delete



Active Tester Functions: Configure

.....



Tester Configuration Window

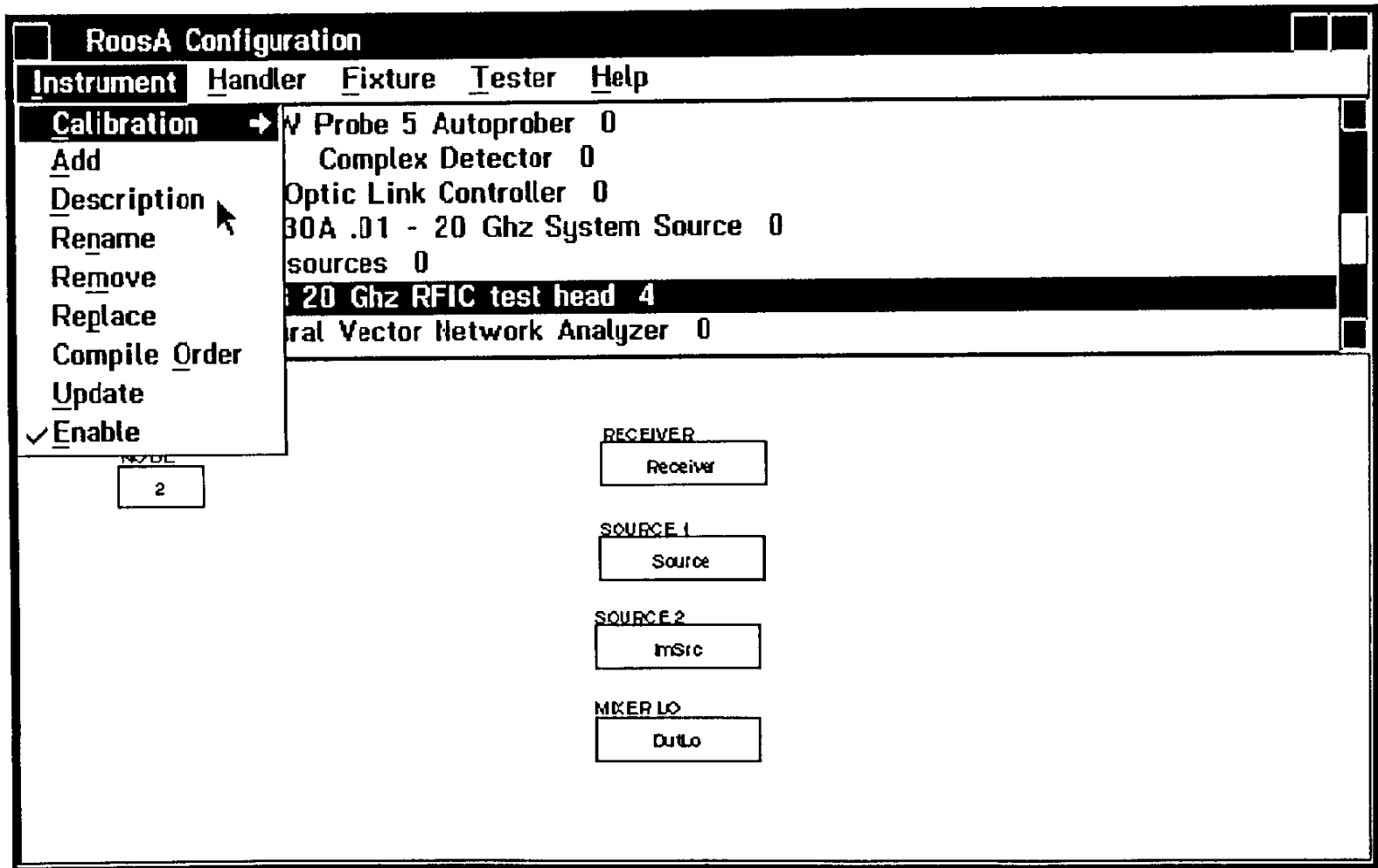
The screenshot shows a window titled "RoosA Configuration" with a menu bar containing "Instrument", "Handler", "Fixture", "Tester", and "Help". The main area lists several instrument configurations:

- 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

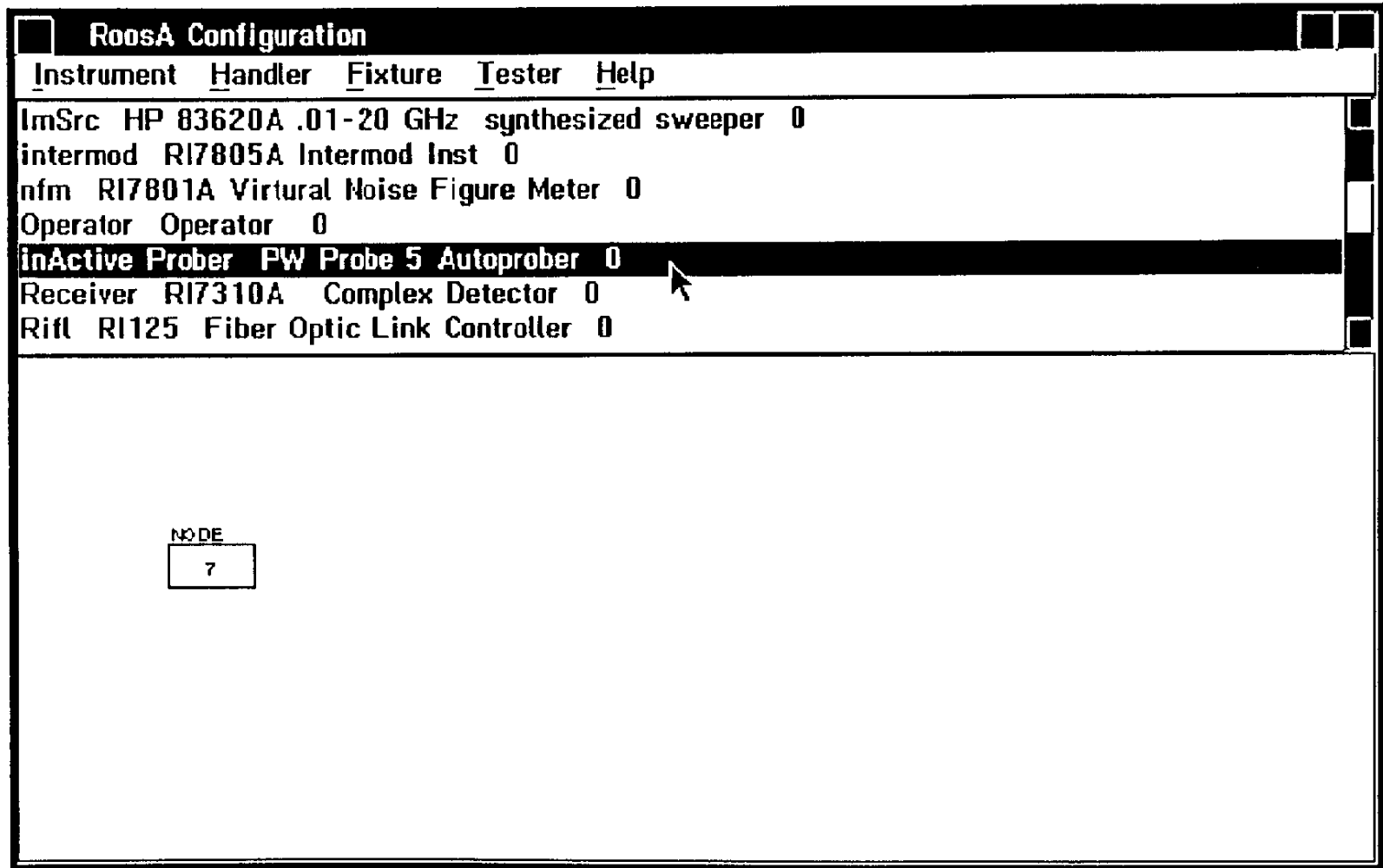
Below the list is a block diagram with the following components:

- NODE**: A box containing the number "2".
- RECEIVER**: A box containing the text "Receiver".
- SOURCE 1**: A box containing the text "Source".
- SOURCE 2**: A box containing the text "InSrc".
- MKER LO**: A box containing the text "DutLo".

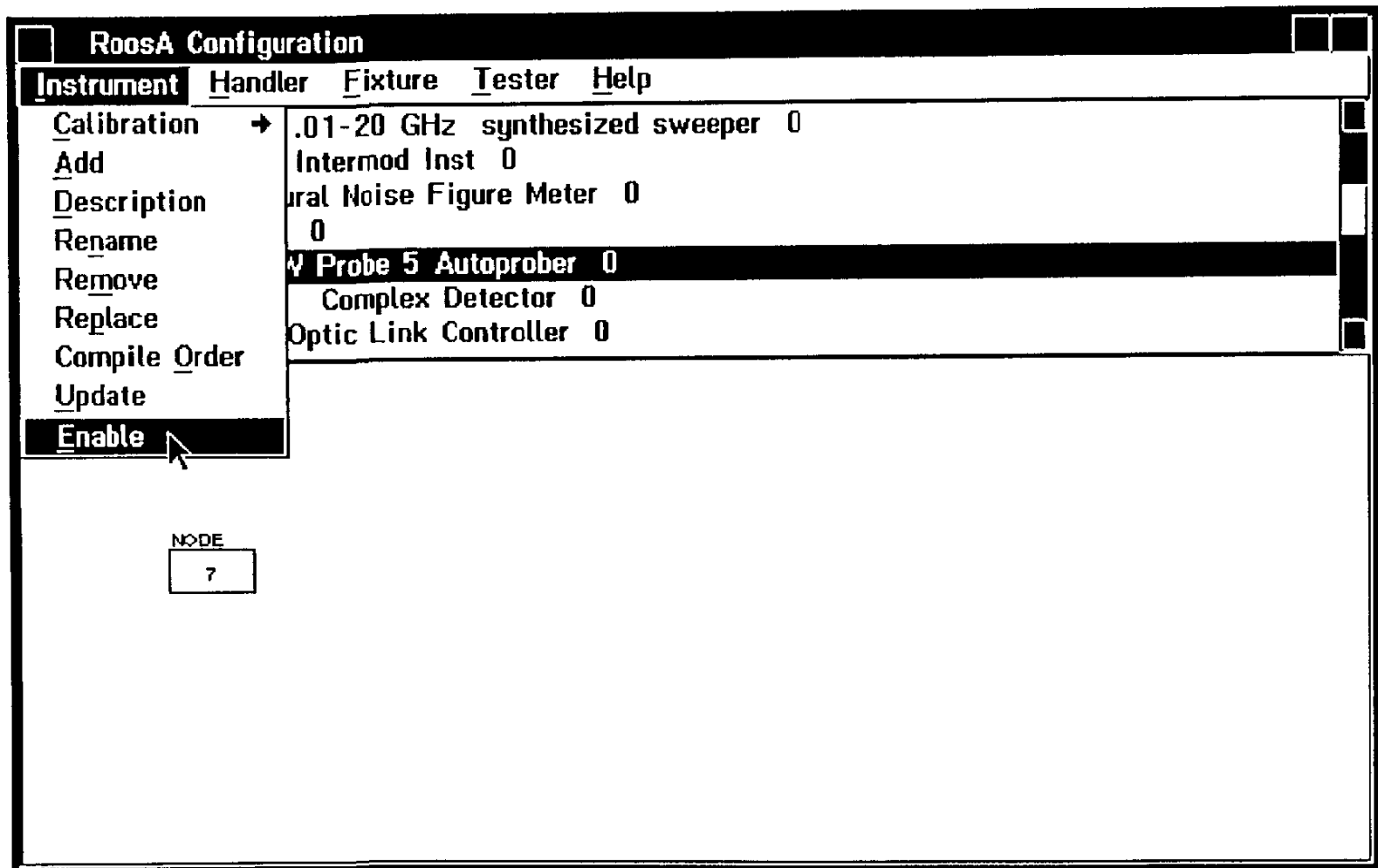
Configuring the Tester's Instrumentation



Activating an Instrument

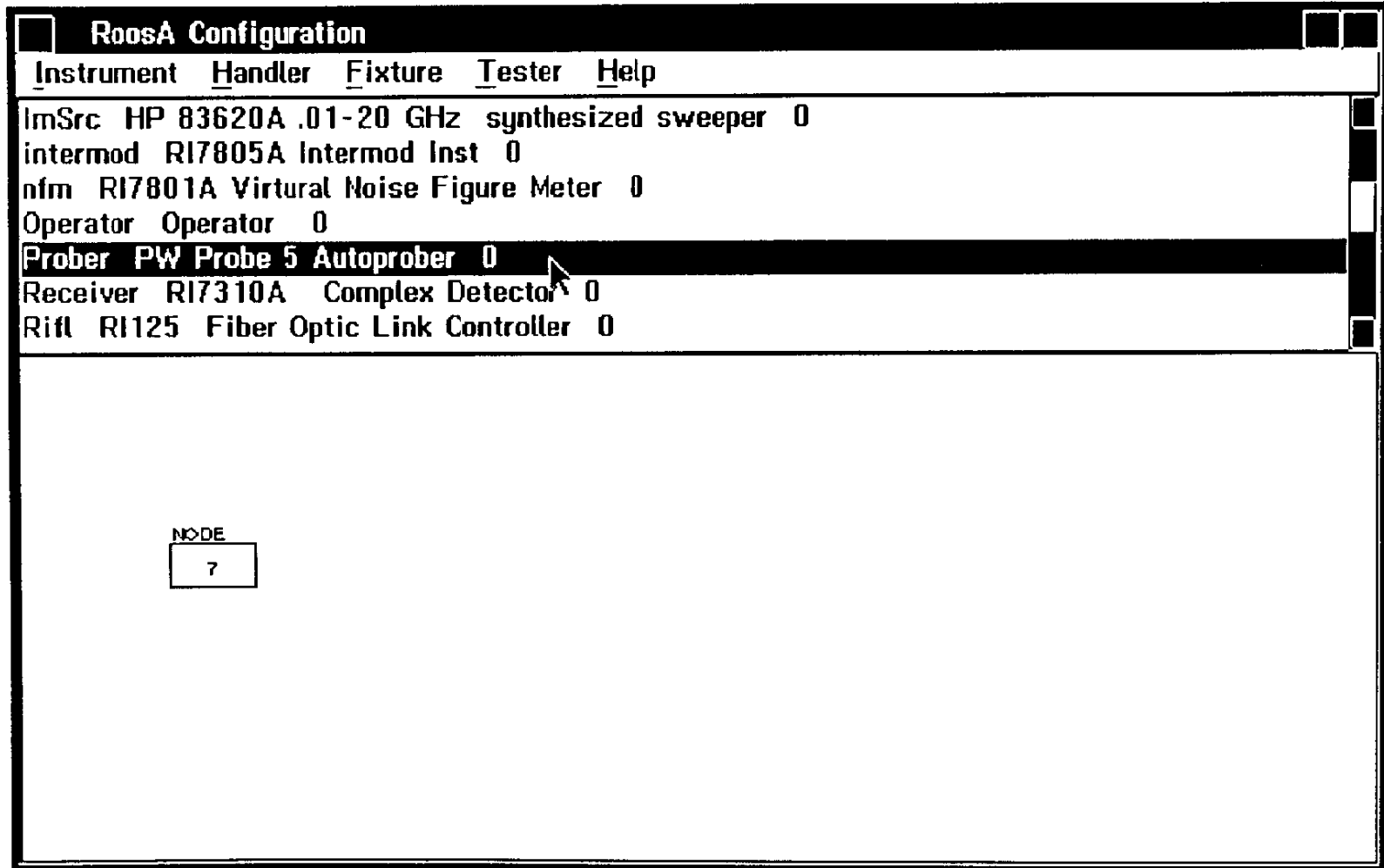


Activating an Instrument (Continued)

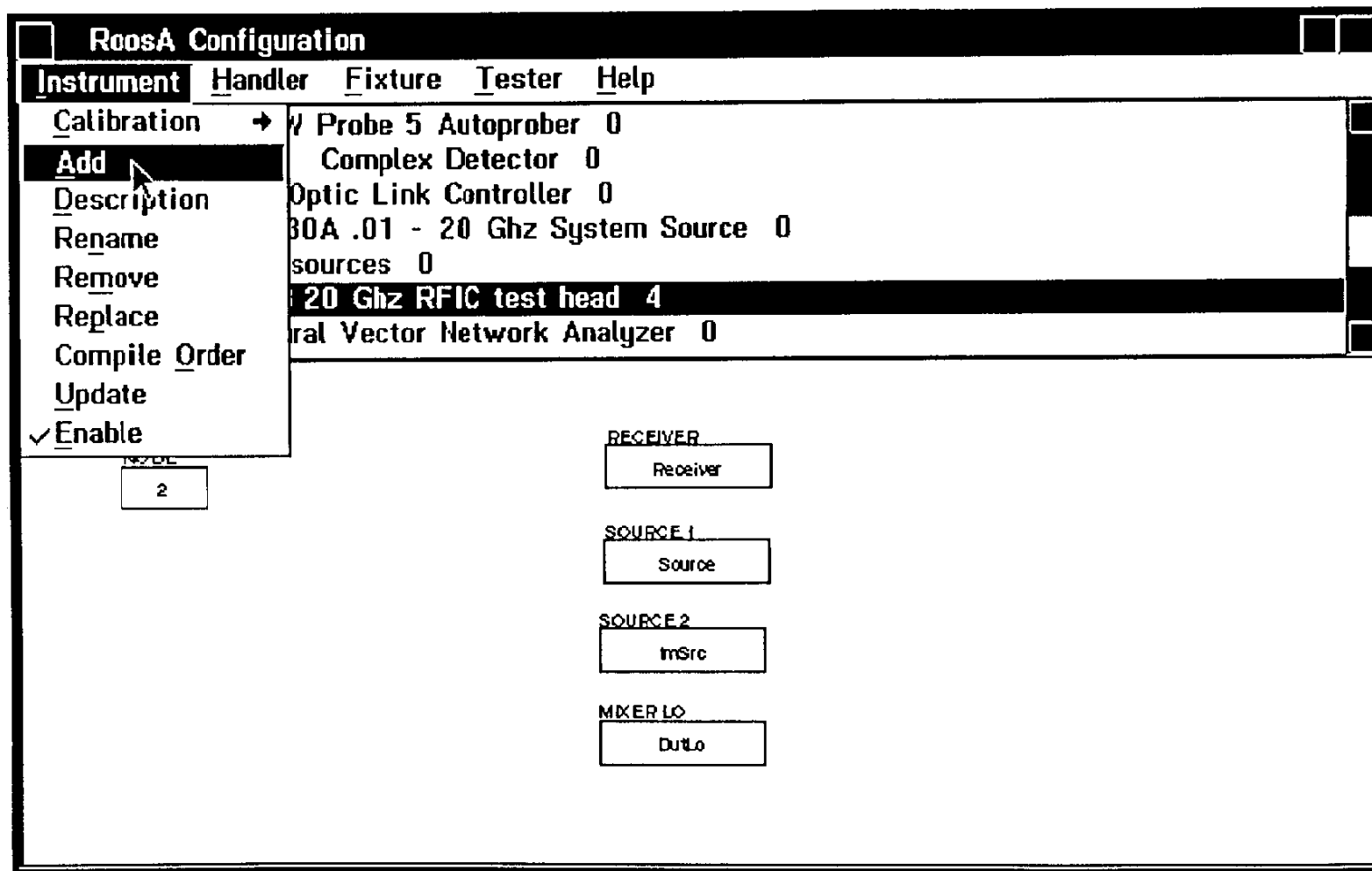


Activating an Instrument (Continued)

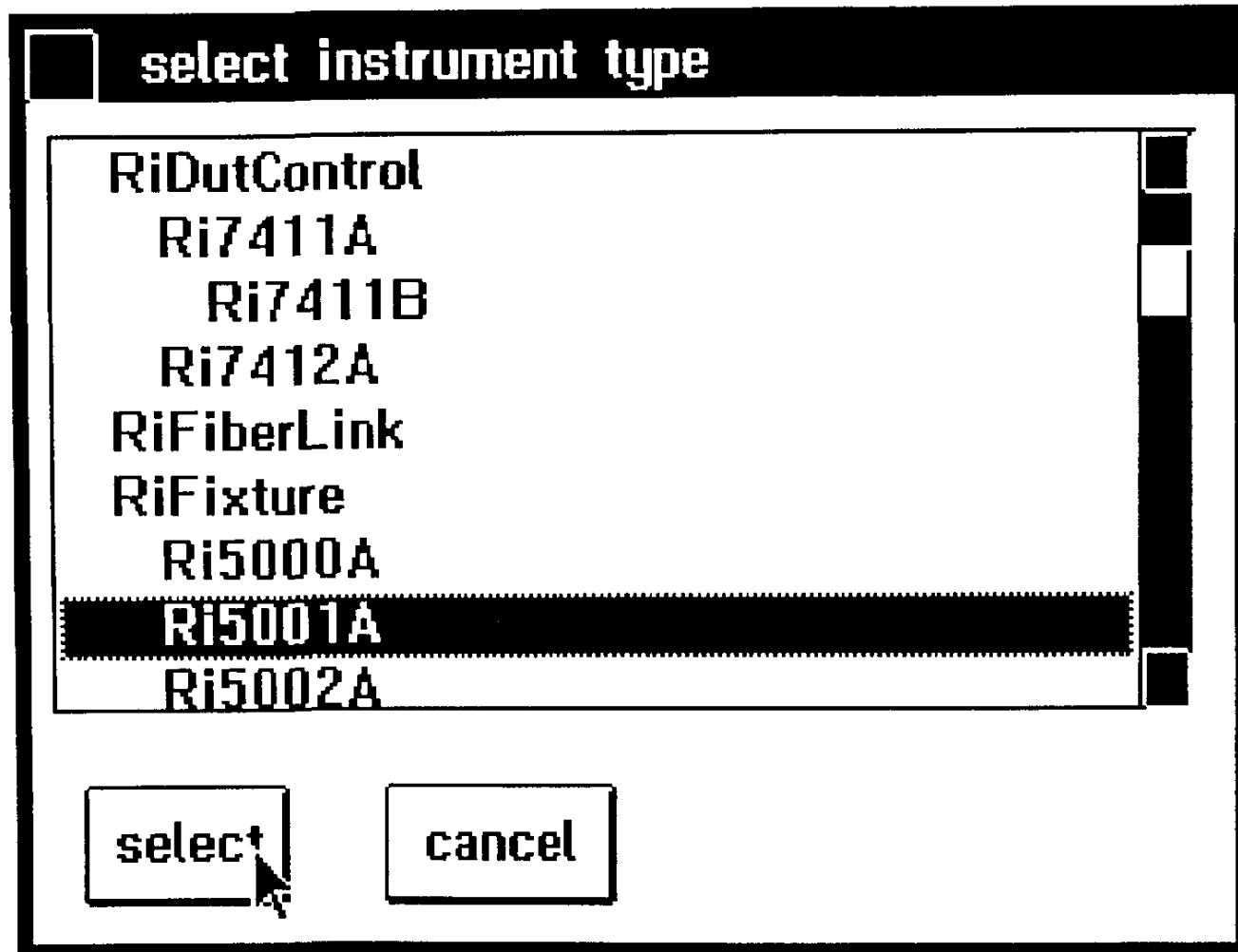
.....



Adding a New Instrument

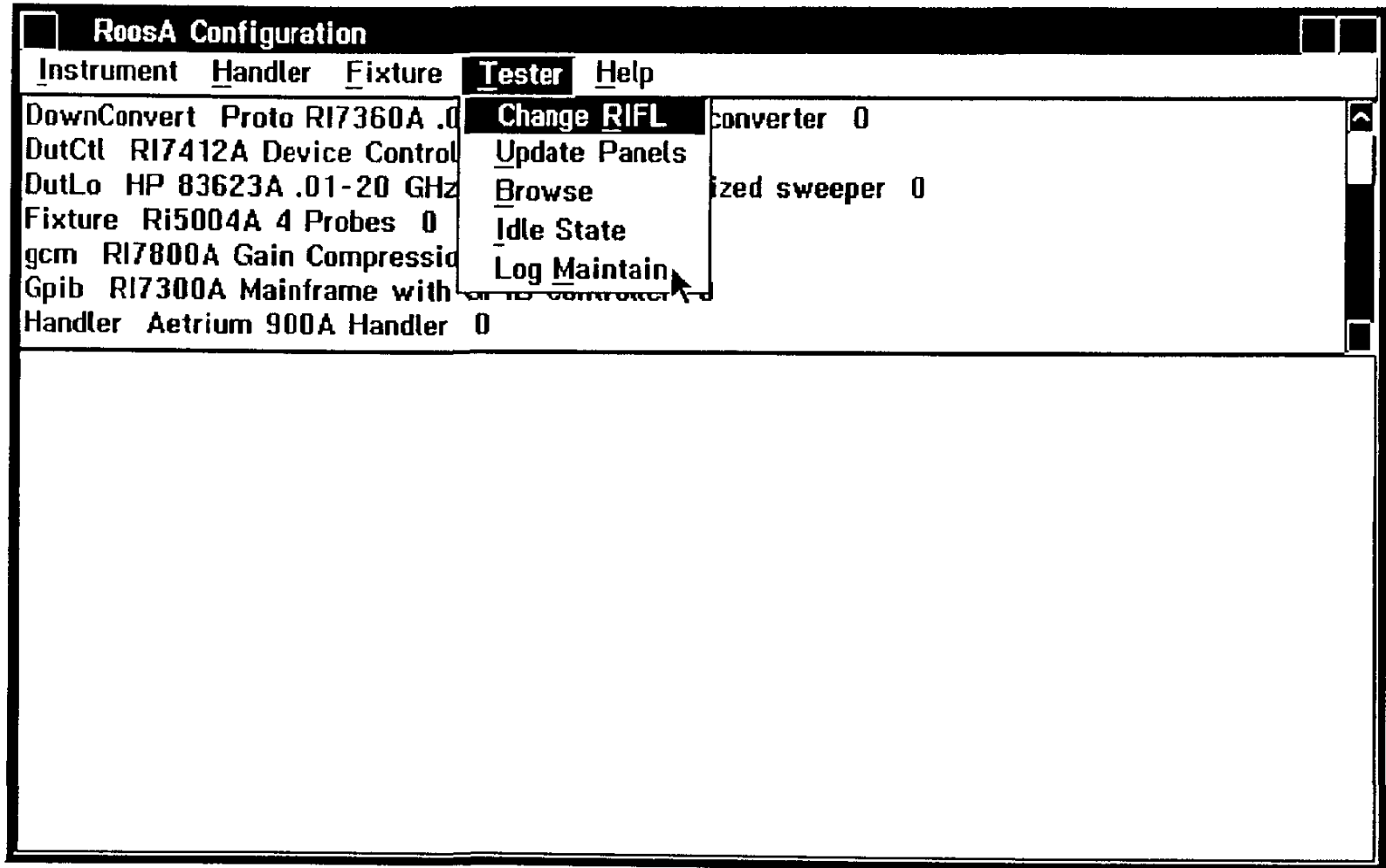


Adding a New Instrument (Continued)



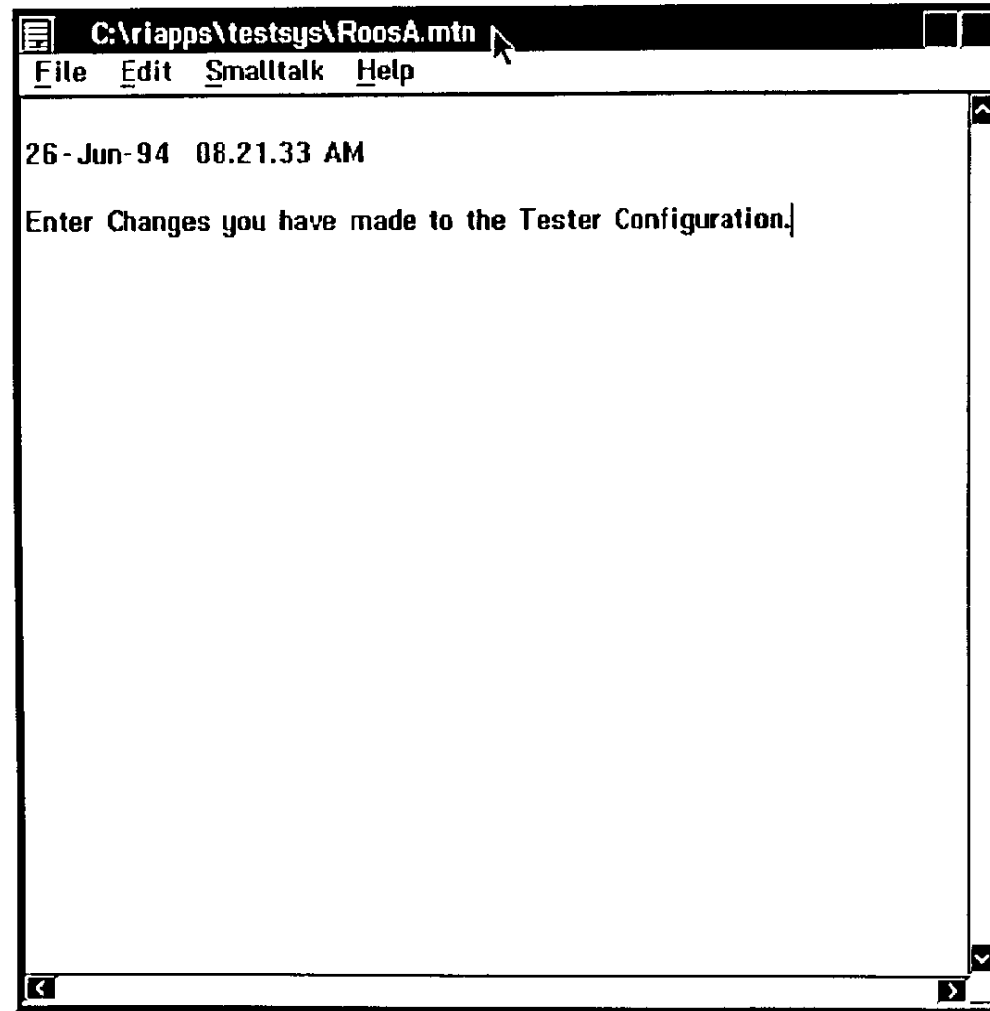
Opening Maintenance Log Window

.....

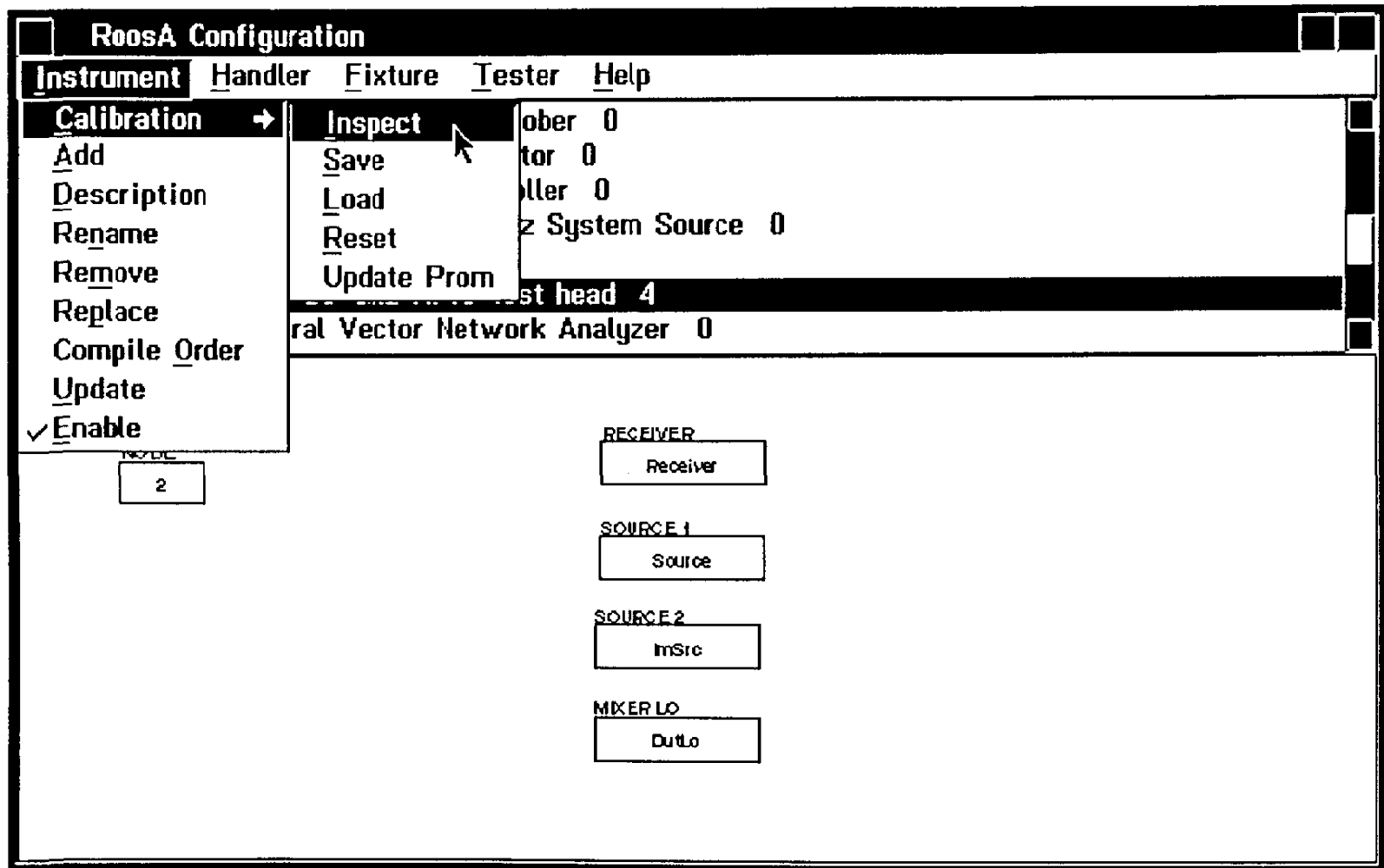


Maintenance Log Window

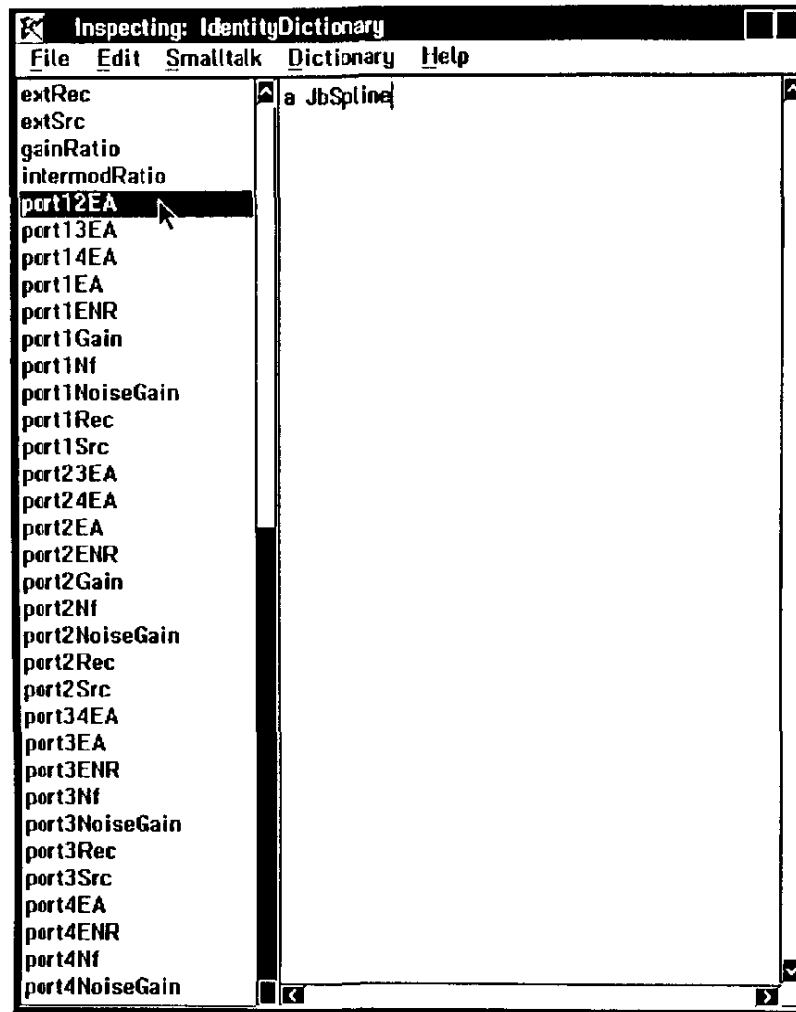
.....



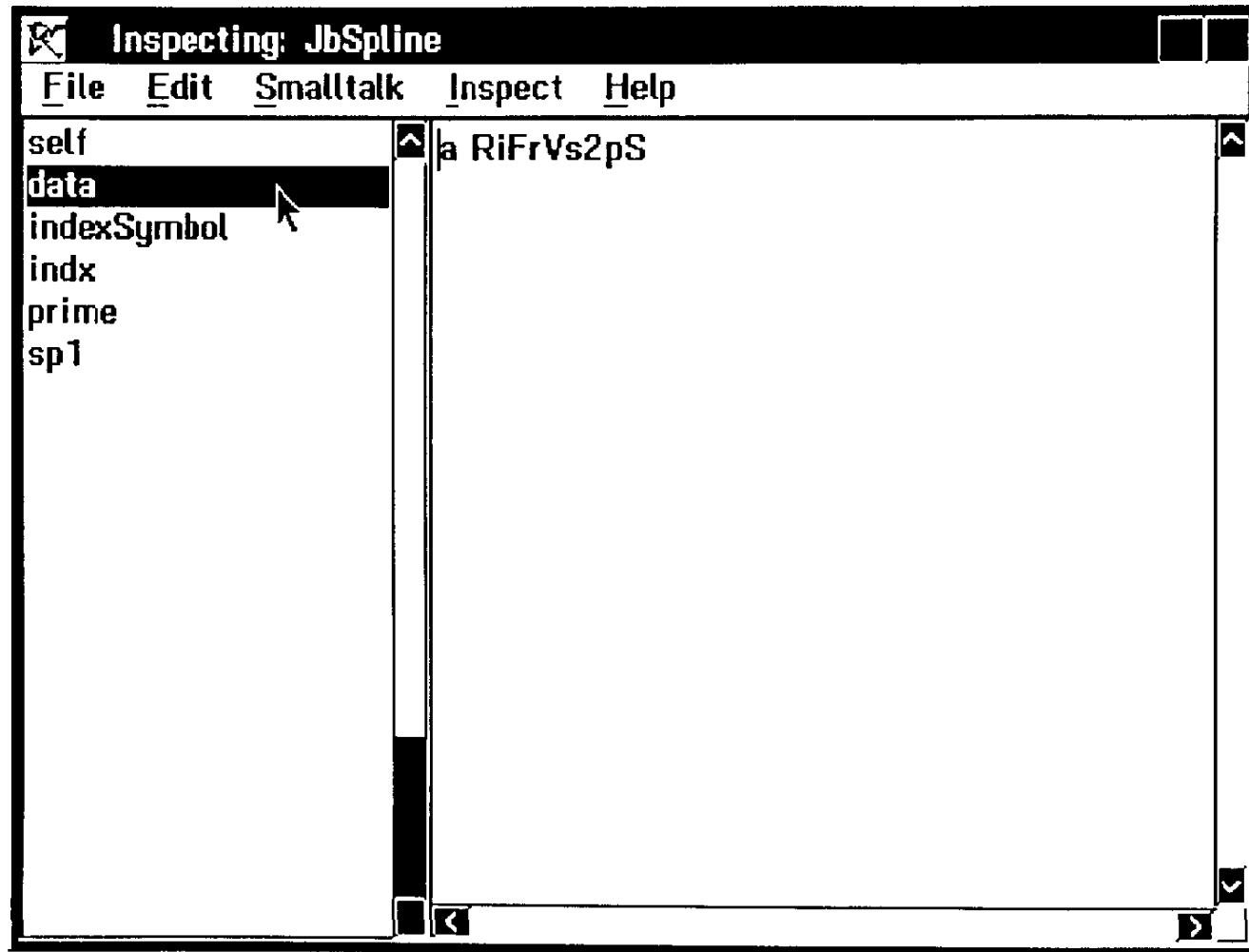
Inspecting Calibration Data



Inspecting Calibration Data (Continued)

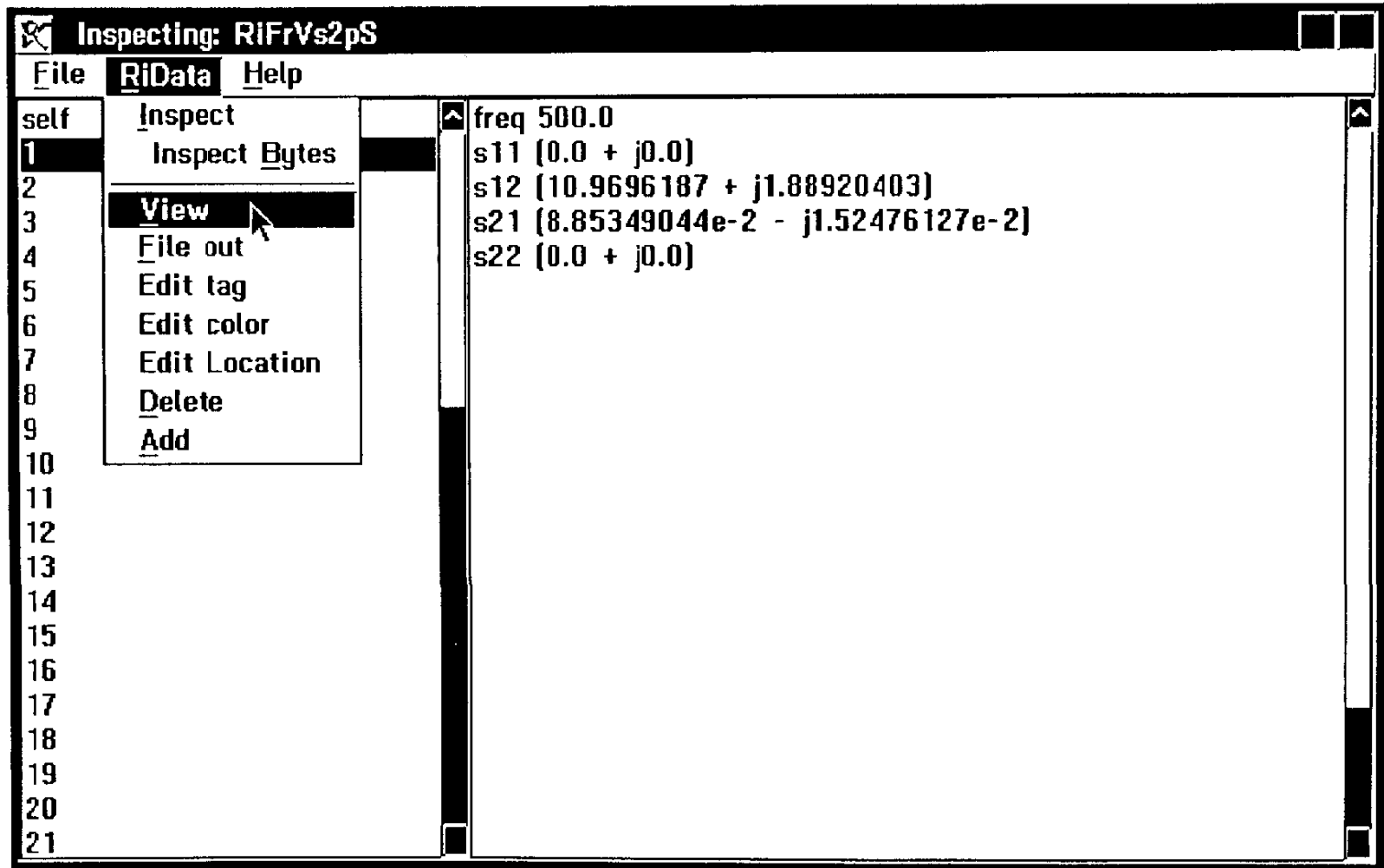


Inspecting Calibration Data (Continued)

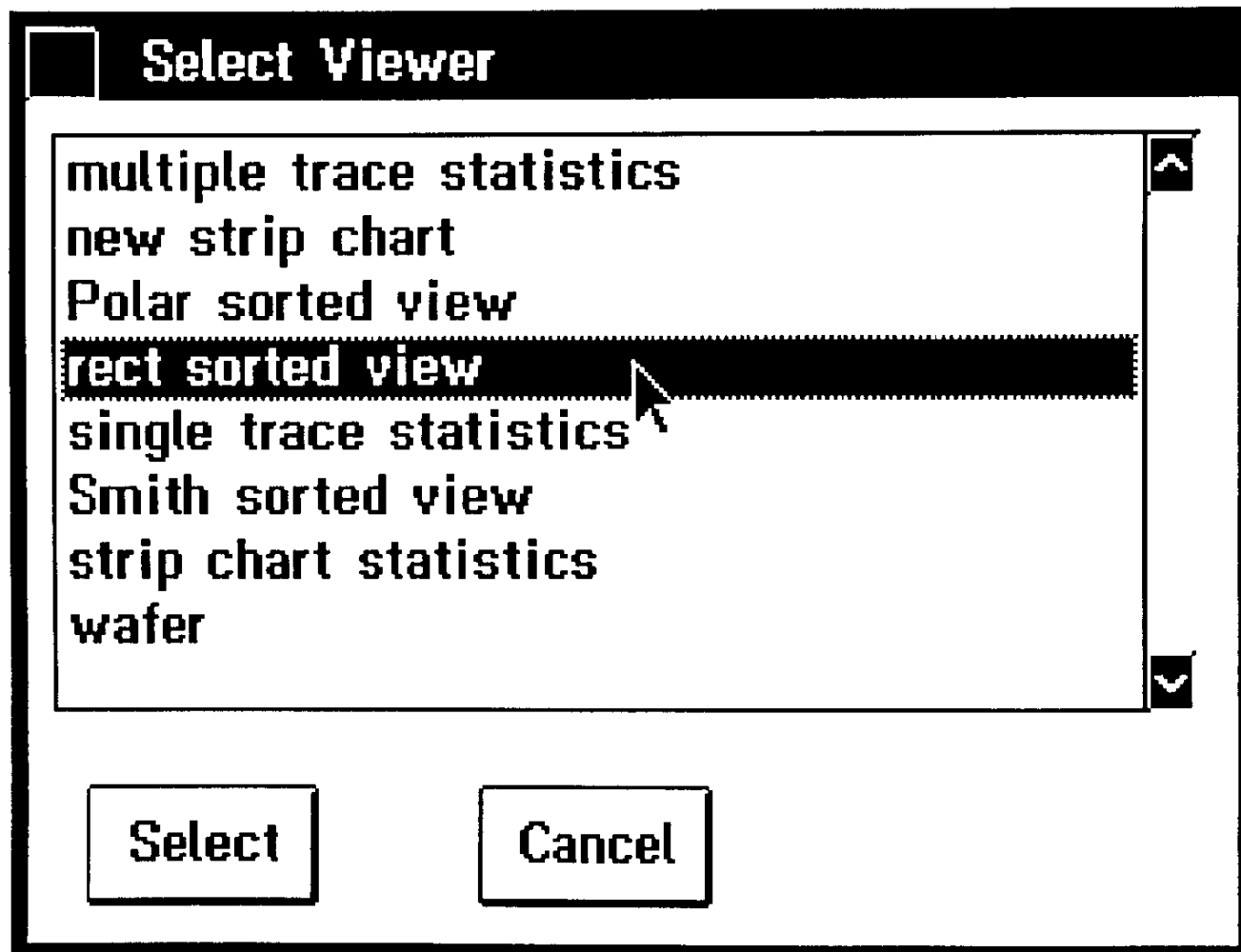


Inspecting Calibration Data (Continued)

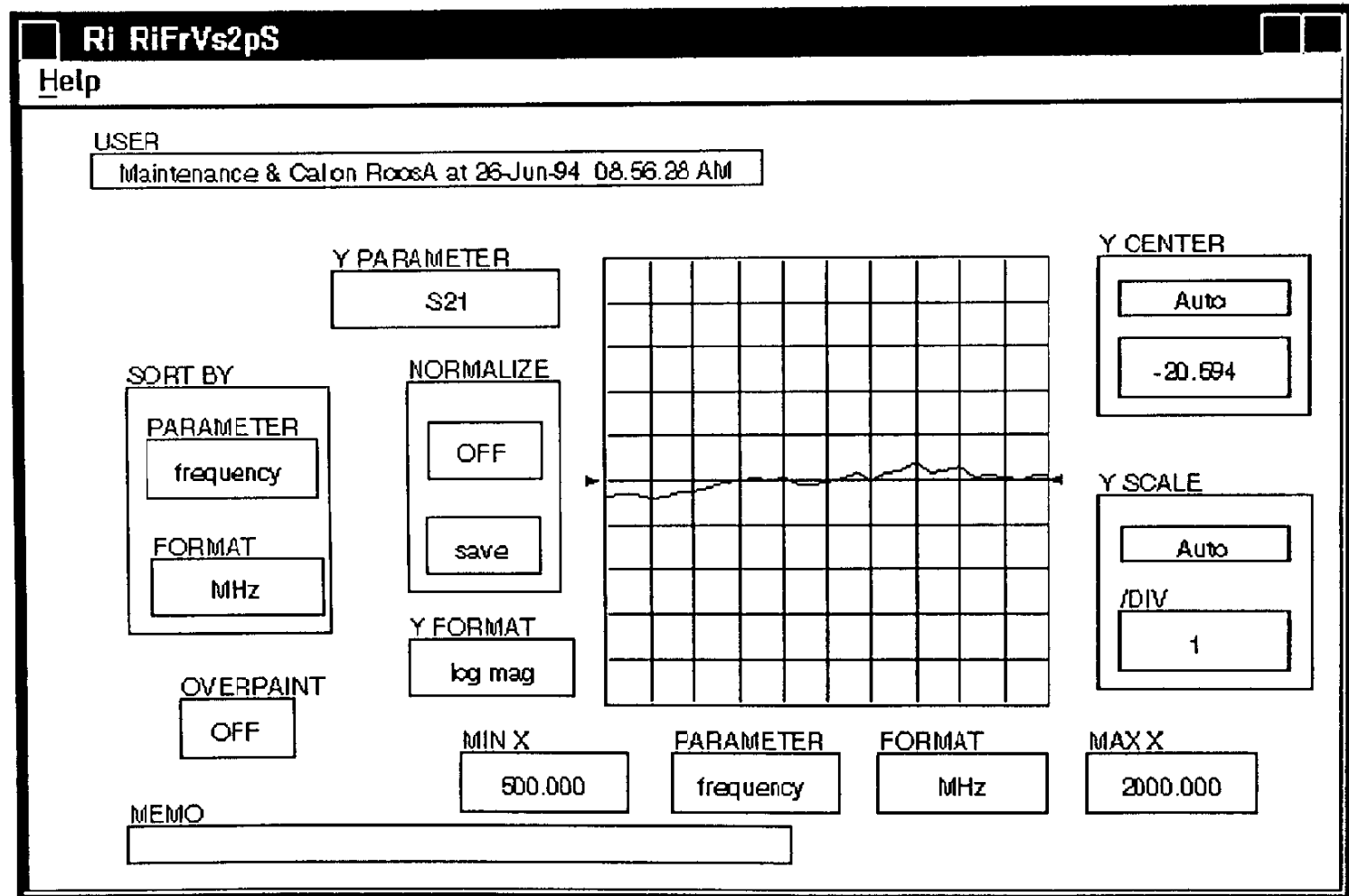
.....



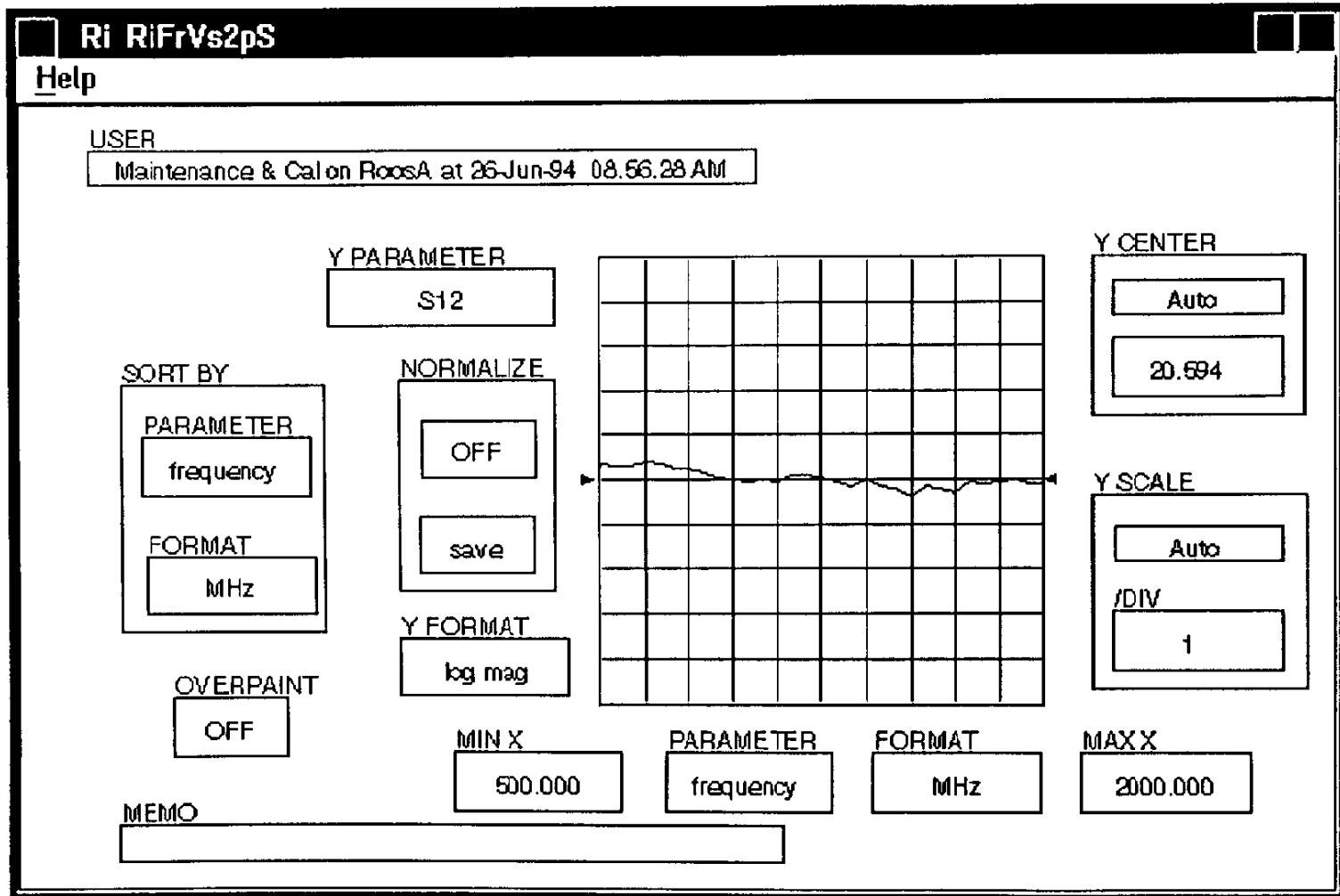
Selecting a Viewer for the Cal Data Selected



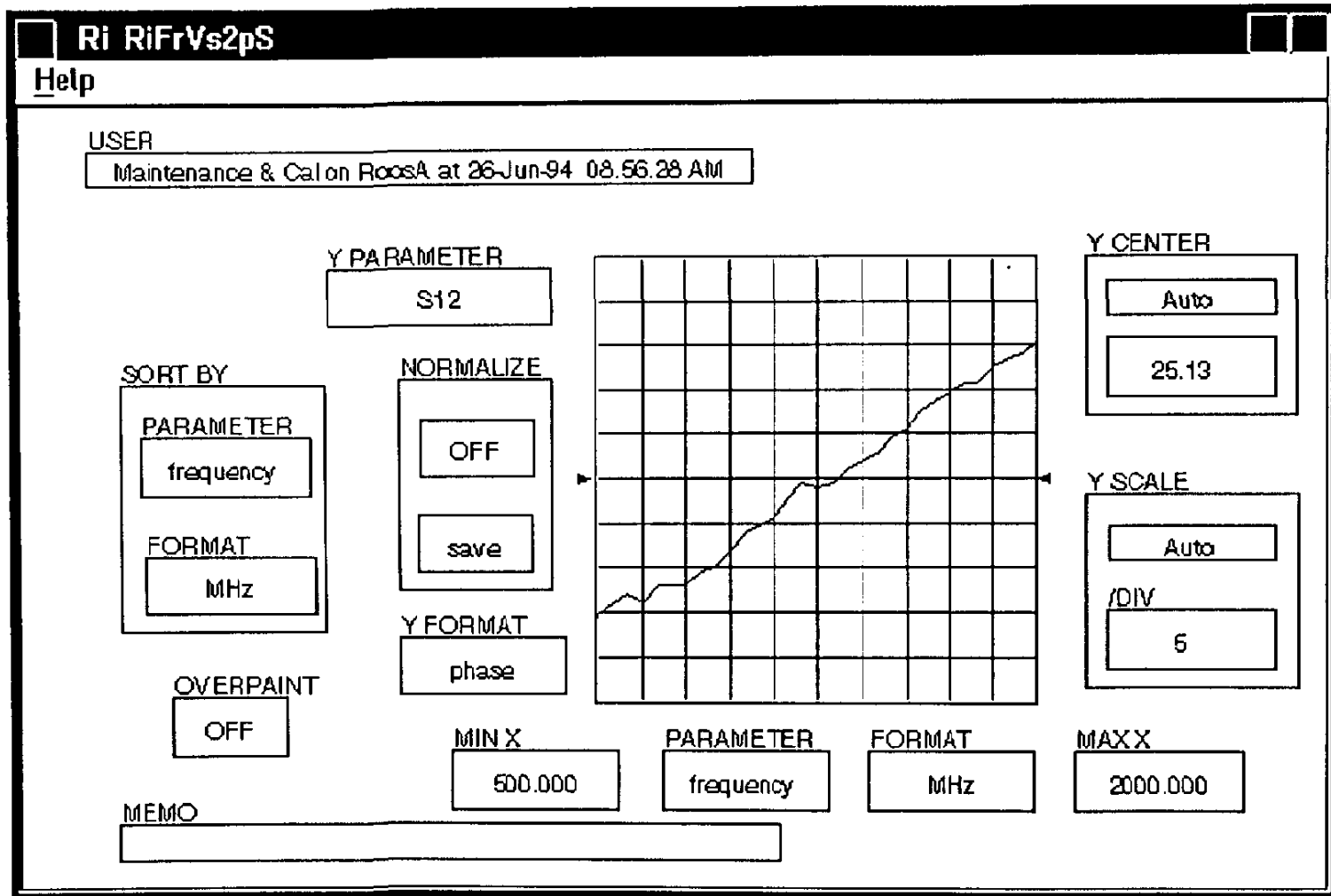
S21 Cal Data for Test Head port I2EA



S12 Cal Data for Test Head Port I2EA

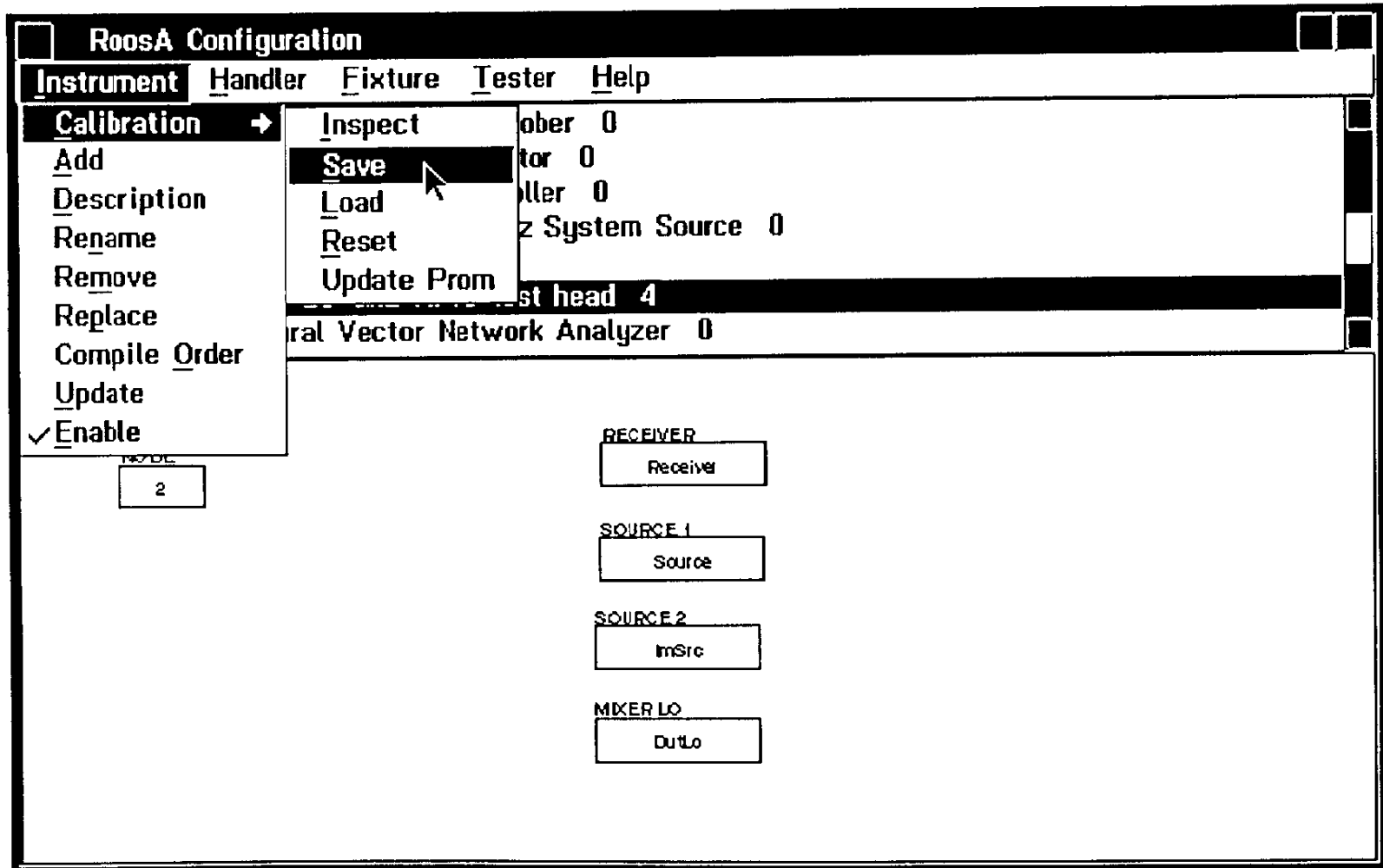


S12 Cal Data for Port12EA - Phase

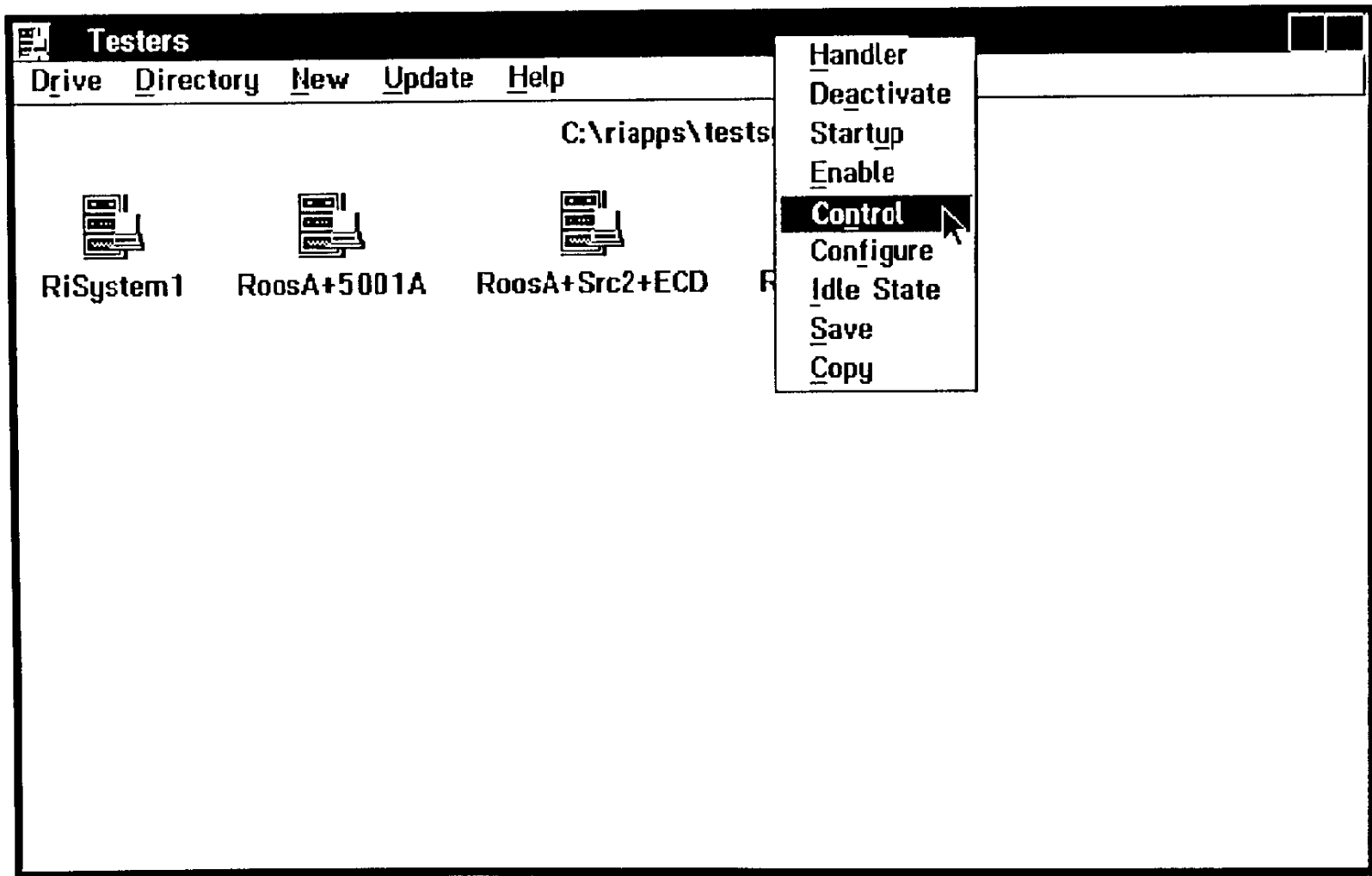


Other Instrument Calibration Functions

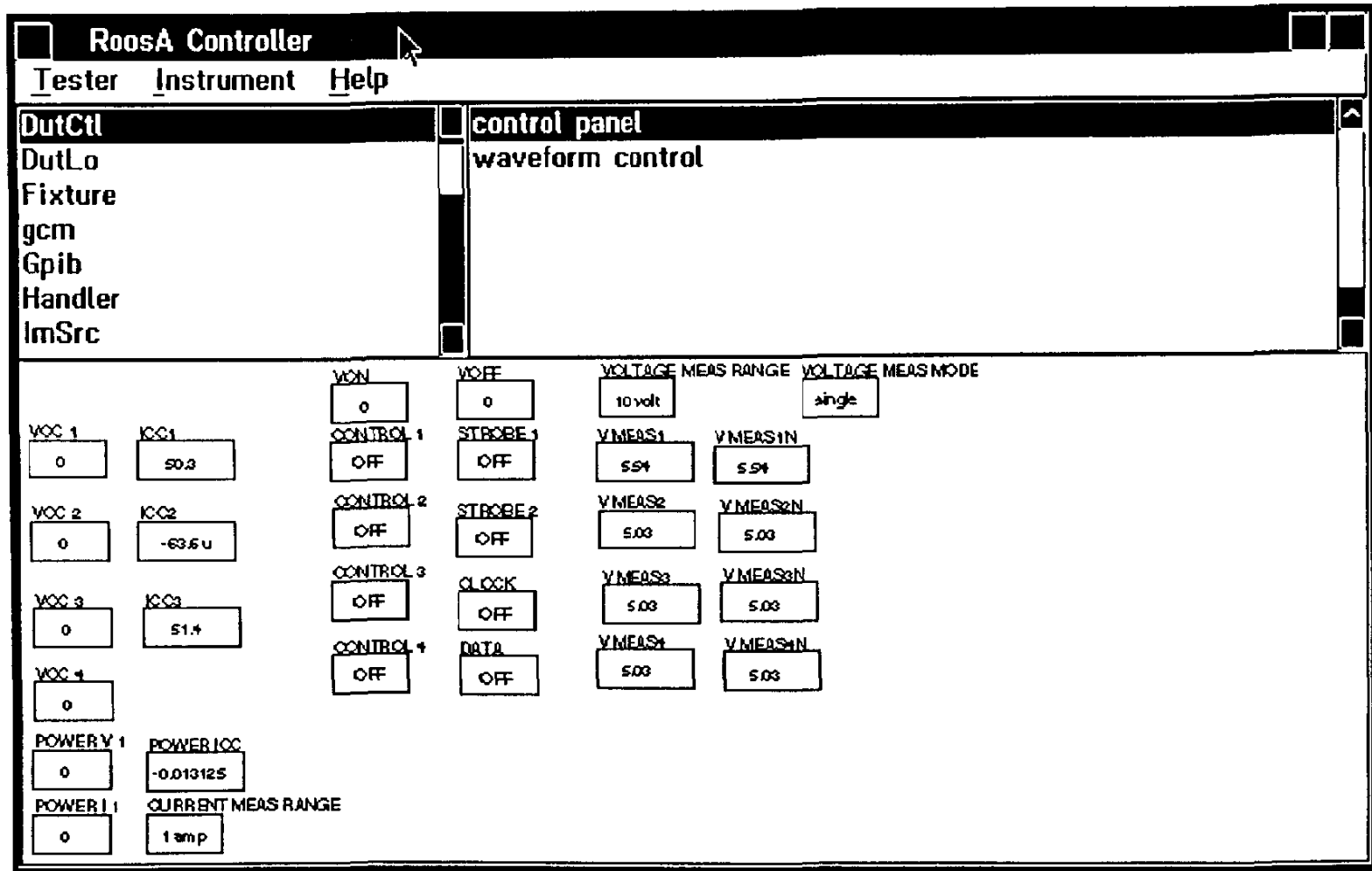
.....



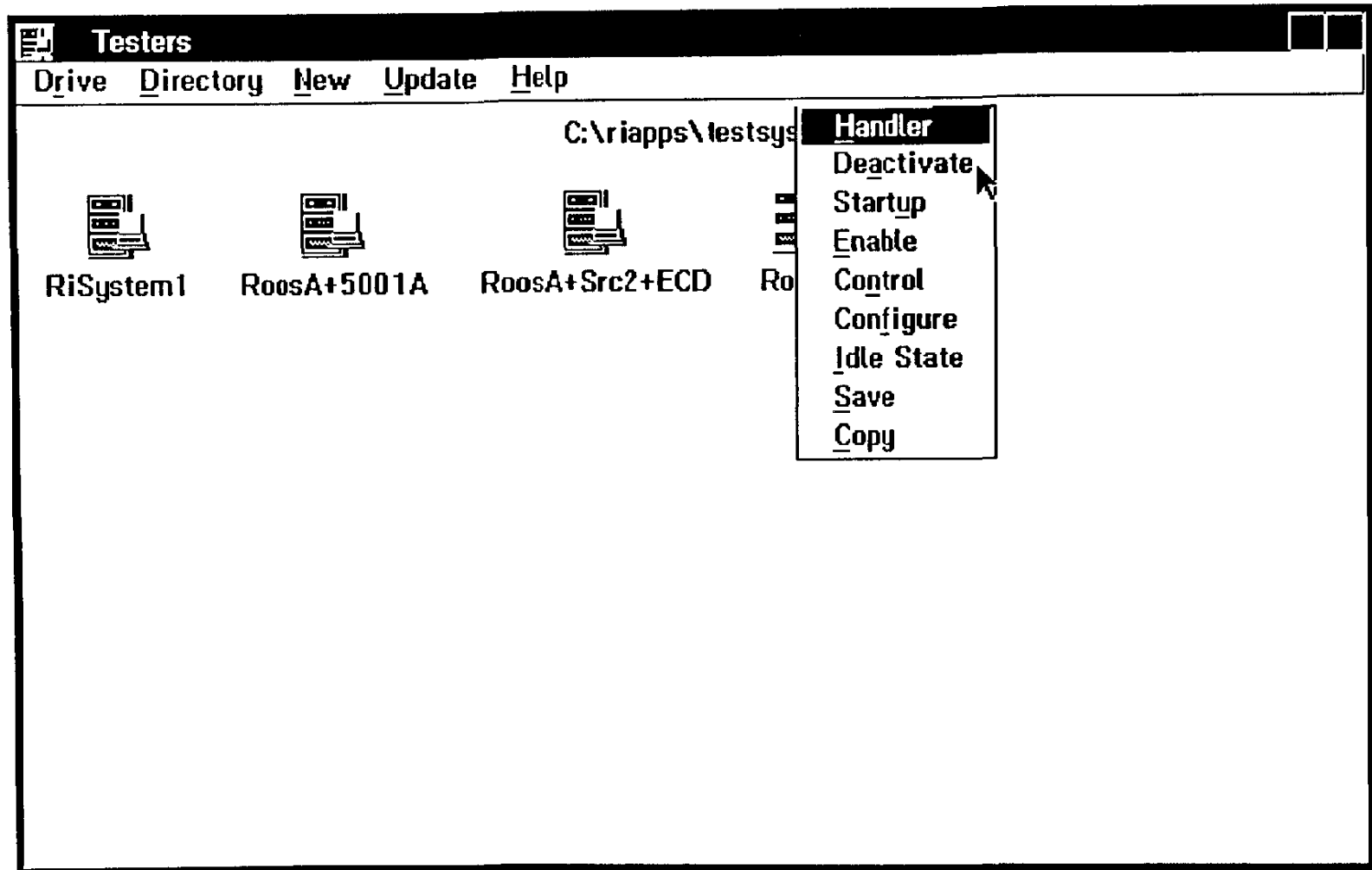
Active Tester Function: Control



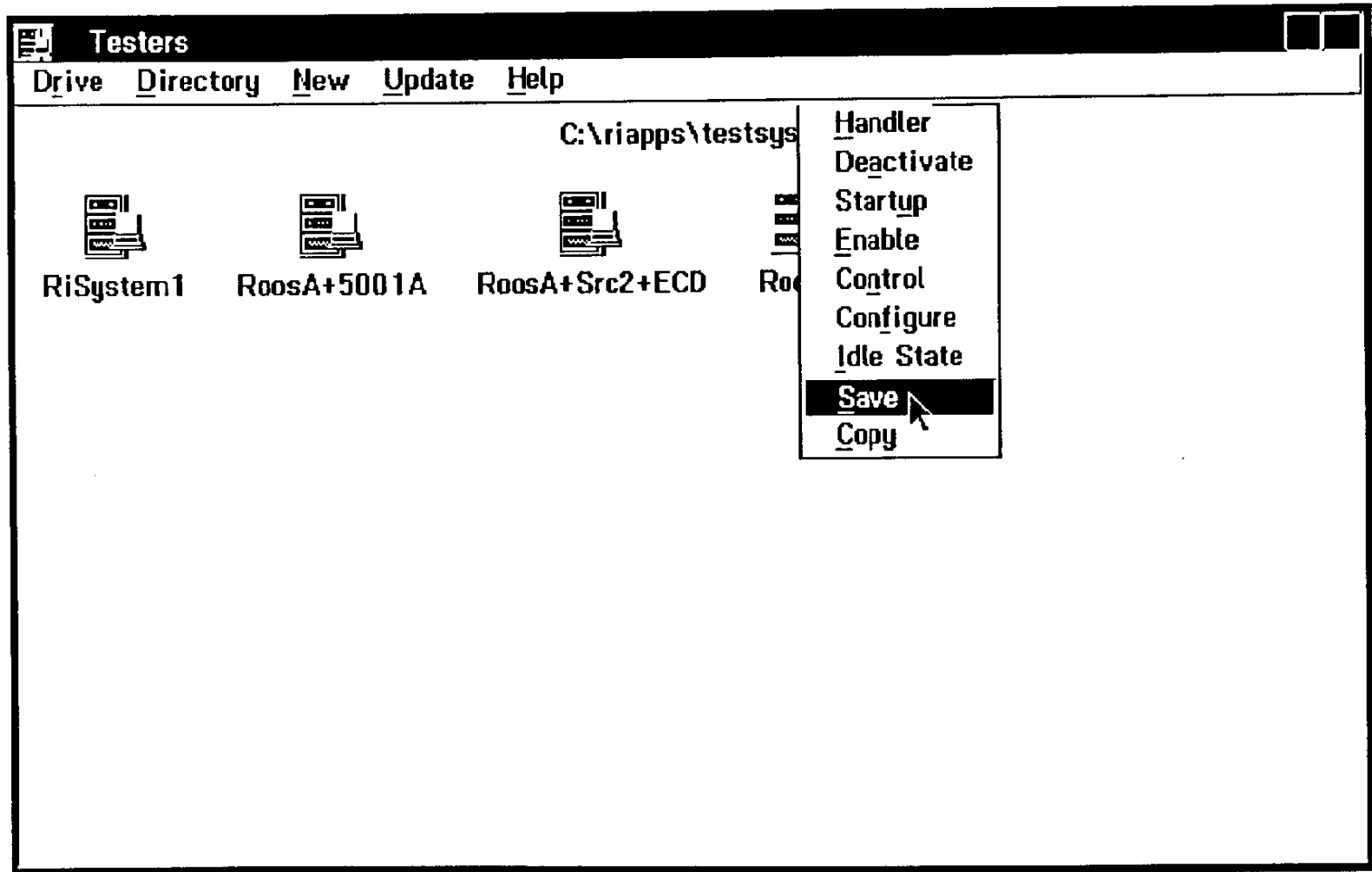
Tester Manual Control Window - RoosA



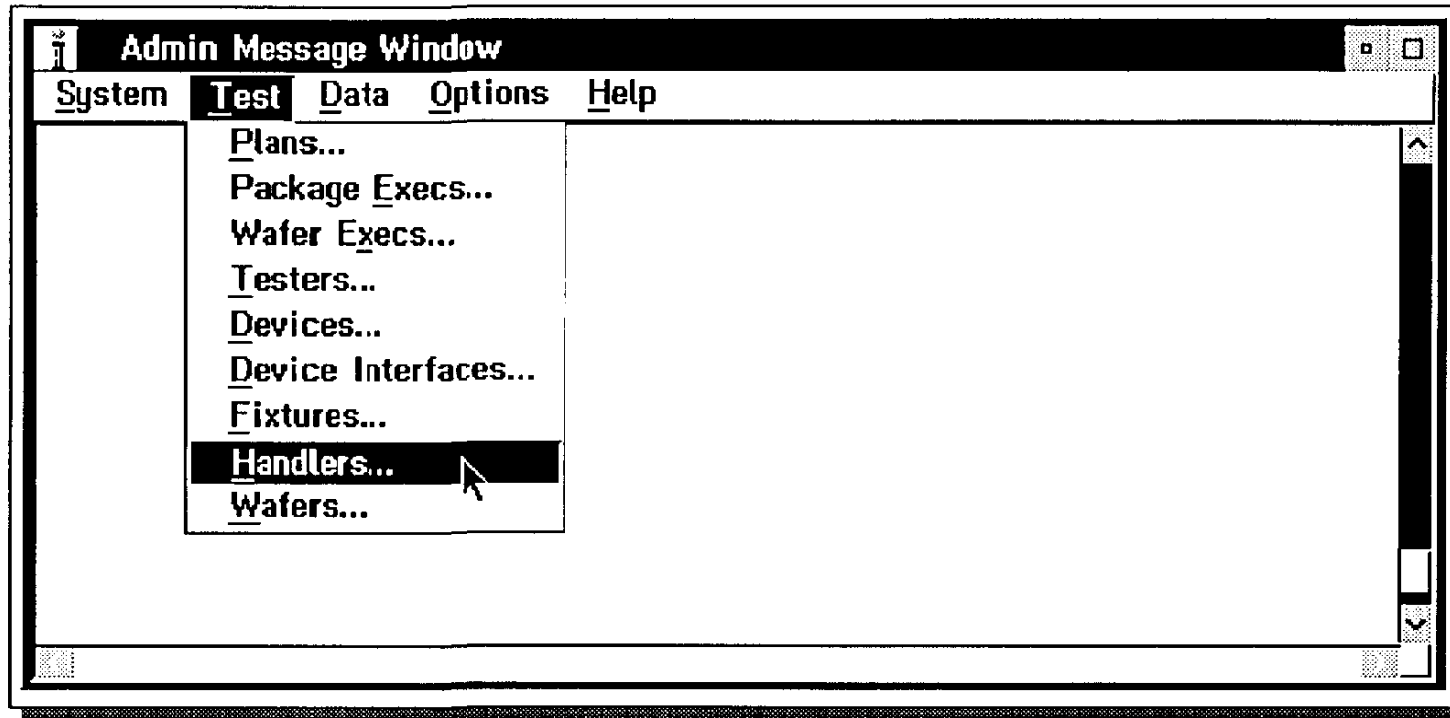
Other Active Tester Functions



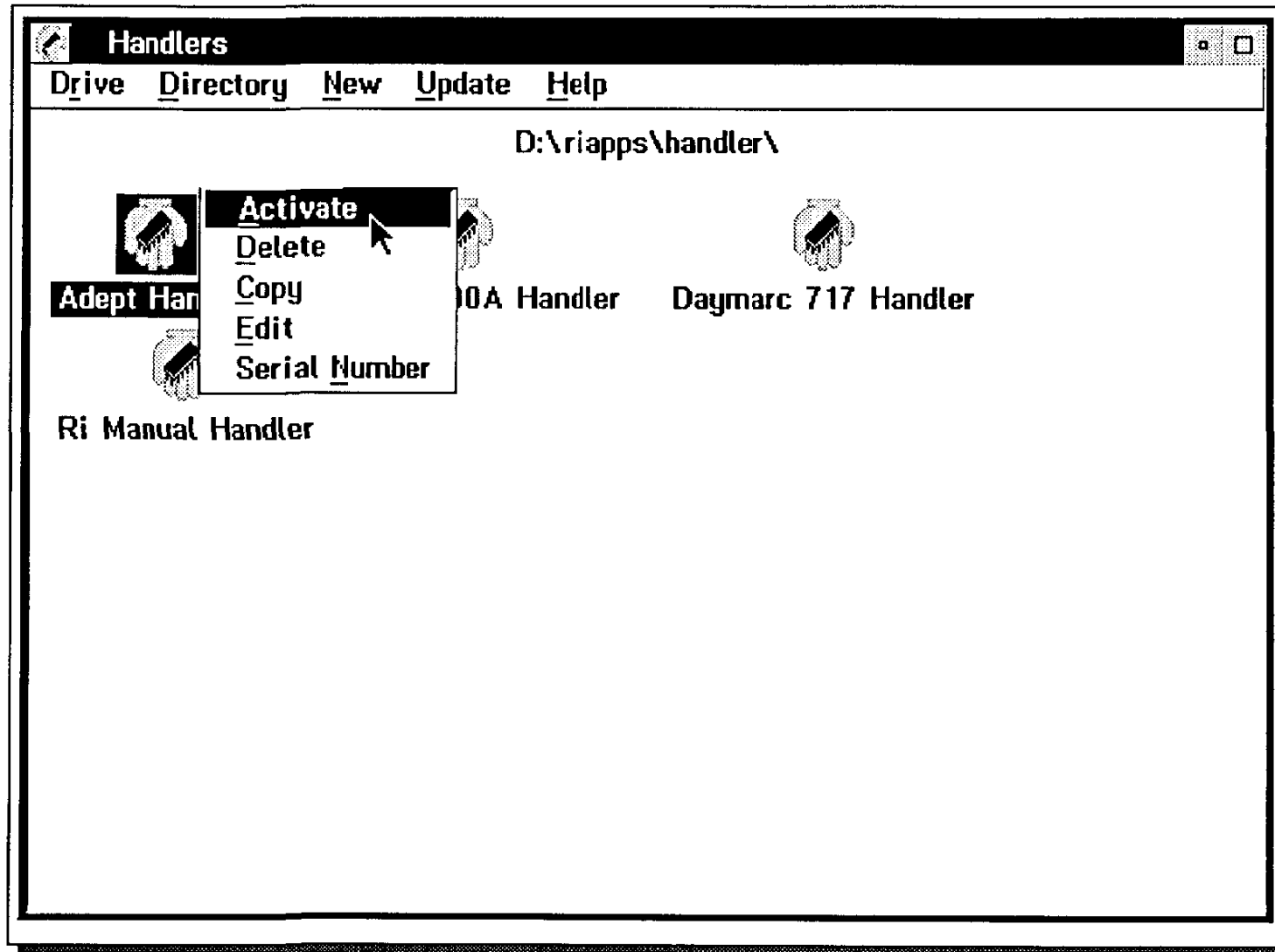
Changes are Only Permanent when Saved!!



Opening the Handler Container Window



Handler Container Window Functions

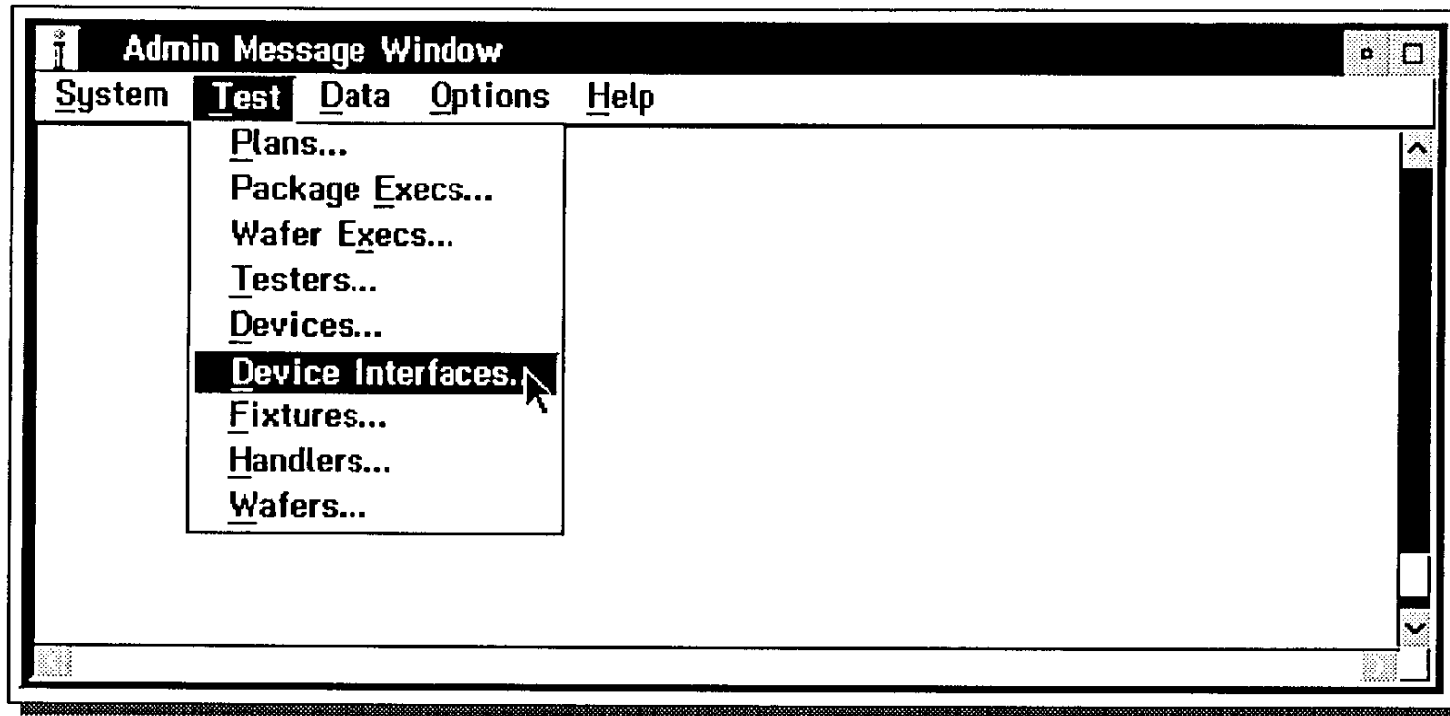


Defining the Handler Options

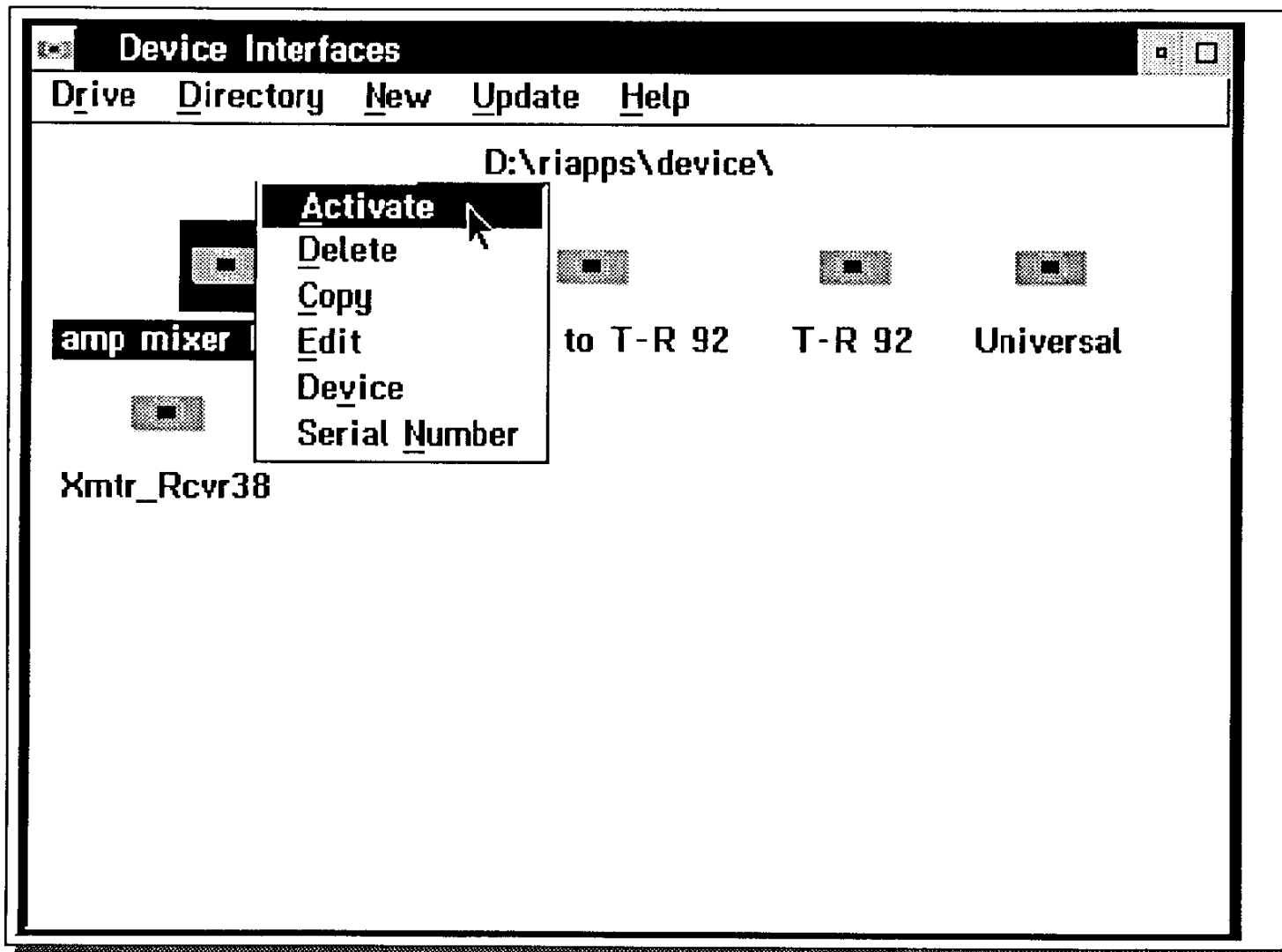
Handler Options			
Category	Bin		
Standard Pass	1	↑ ↓	Minimum Delay (ms) 0
Premium Pass	1	↑ ↓	Maximum Wait (s) 15
Standard Fail	2	↑ ↓	
Continuity Fail	2	↑ ↓	
Special Fail 1	2	↑ ↓	
Special Fail 2	2	↑ ↓	
Special Fail 3	2	↑ ↓	
Special Fail 4	2	↑ ↓	
Special Fail 5	2	↑ ↓	
Special Fail 6	2	↑ ↓	
Retest	3	↑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

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

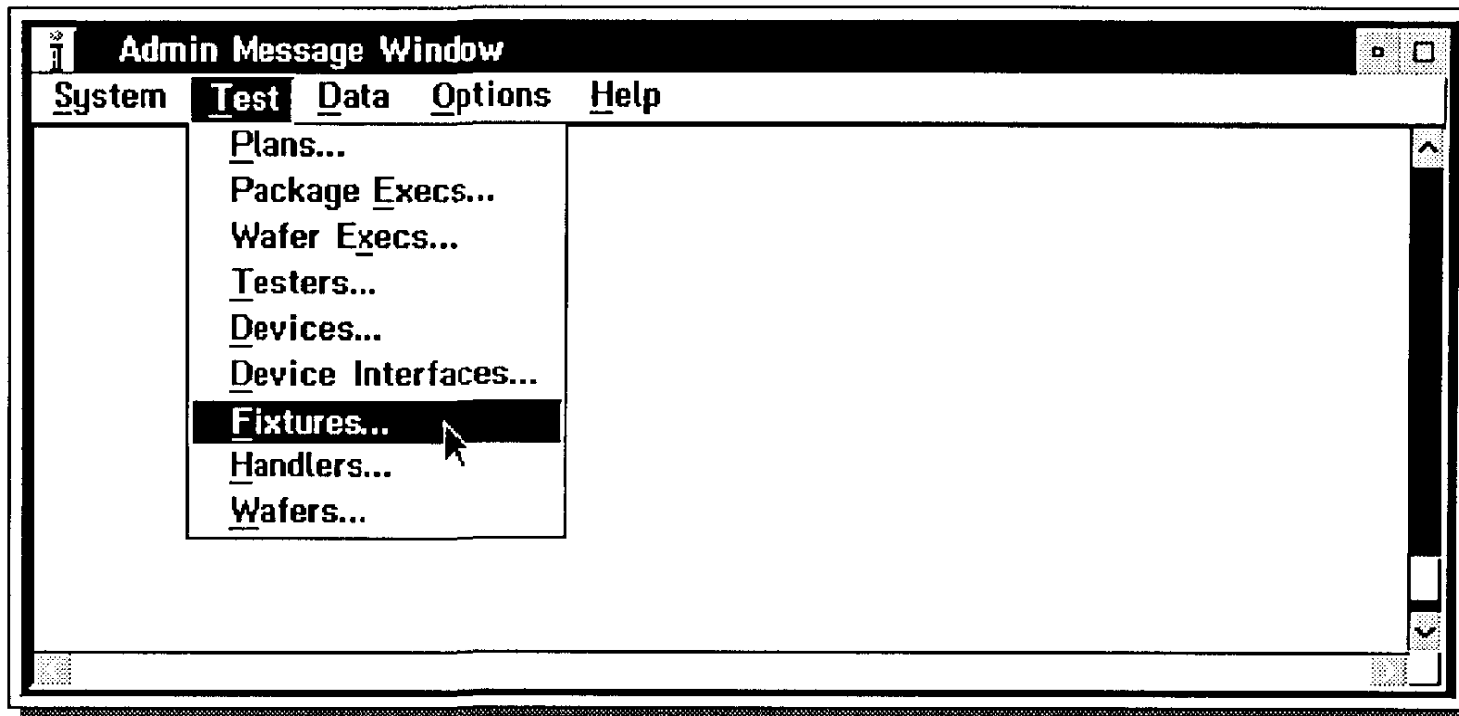
Device Pin >> Fixture Connection

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

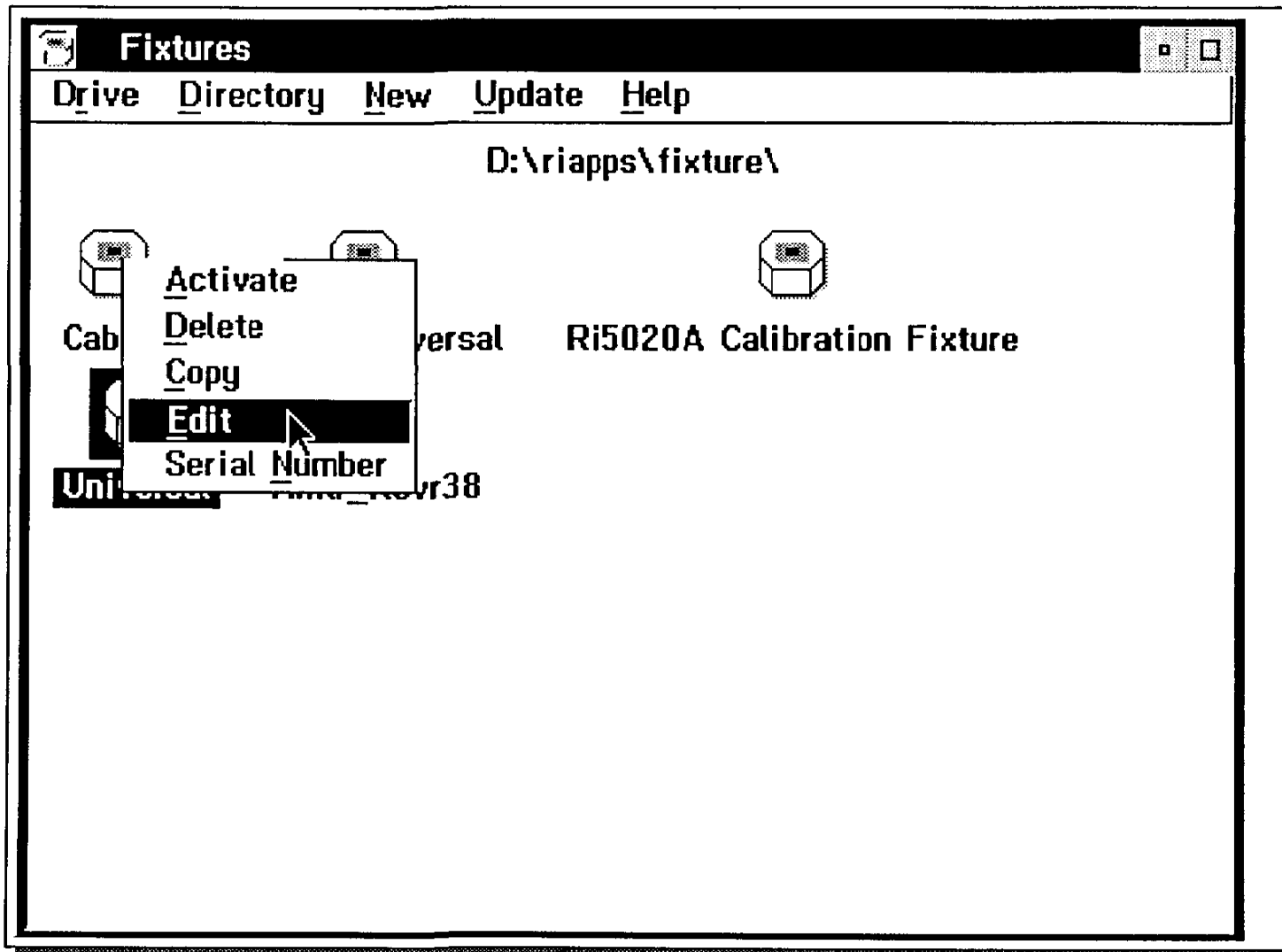
Fixture Connection

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: