

HP**E8291A****TDMA Point-of-Service Test (PoST) Software****For HP 8920B Option 800/801 Mobile Station Test Set**

**An easy-to-use,
PC-based solution
for testing TDMA
dual-mode mobile
phones—at the
point of sale or
anywhere within
your service chain**

- Reduces the number of “no-trouble-found” phones
- Automates the testing of TDMA and AMPS mobile phones
- Verifies phone performance with just a few mouse clicks
- Provides point-and-click operation for nontechnical users and access to comprehensive measurement capabilities for test developers
- Analyzes and stores data for trend-analysis and customer-care applications

Satisfy Your Customers and Reduce Costs

If you sell or service TDMA mobile phones, you know the high cost of returns. When a customer brings a mobile phone back to your retail store or service center, you need an easy way to verify the phone's performance quickly.

The HP E8291A TDMA Point of Service Test (PoST) Software is a TDMA mobile phone service test solution that is based on industry standard specifications. The software automates the HP 8920B Option 800/801 mobile station test set for simple testing of TDMA PCS and dual-mode cellular phones.

Using the PoST software and a PC, your sales representatives or other test operators can easily and

quickly determine whether or not a customer's TDMA phone is faulty.

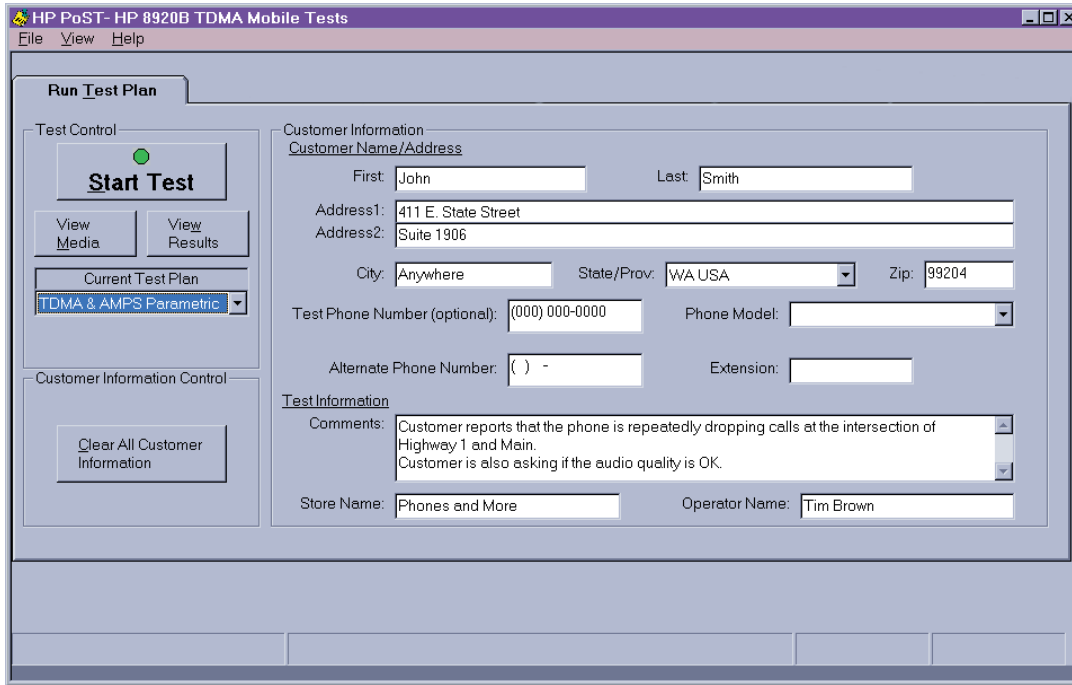
By testing on the spot, your organization will be able to respond quickly to customer problems. You will cut costs by handing out fewer replacement phones and by reducing the number of “no-trouble-found” phones that are sent back into the system for repair.

In addition, the combination of the HP E8291A TDMA PoST software and HP 8920B Option 800/801 mobile station test set provides a practical test solution for your quality and repair groups or your verification lab.

Simple Operation and Flexible Capabilities

The HP E8291A TDMA PoST software features two modes of operation: one that ensures ease of use for nontechnical users, and another that provides access to a rich development

environment—including the full set of measurement capabilities standard in the HP 8920B Option 800/801 test set—for test developers, technicians, and engineers.



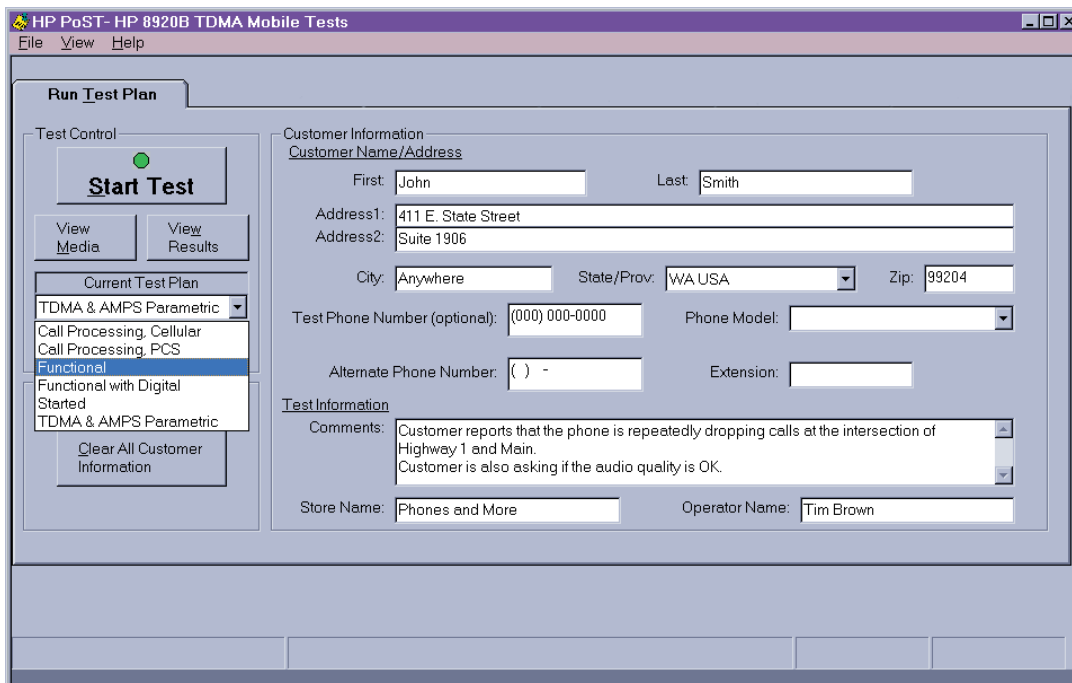
“Run Test Plan” screen

Operators easily enter the customer information and start testing the phone by clicking the “Start Test” button.

Automatic Testing Anyone Can Perform

In *operator* mode, the HP E8291A makes fast, accurate measurements of TDMA phones with minimal operator training. A test operator simply enters customer

information on the PC screen, selects a pre-configured test procedure from the test plan menu, and clicks an on-screen button to run the test.



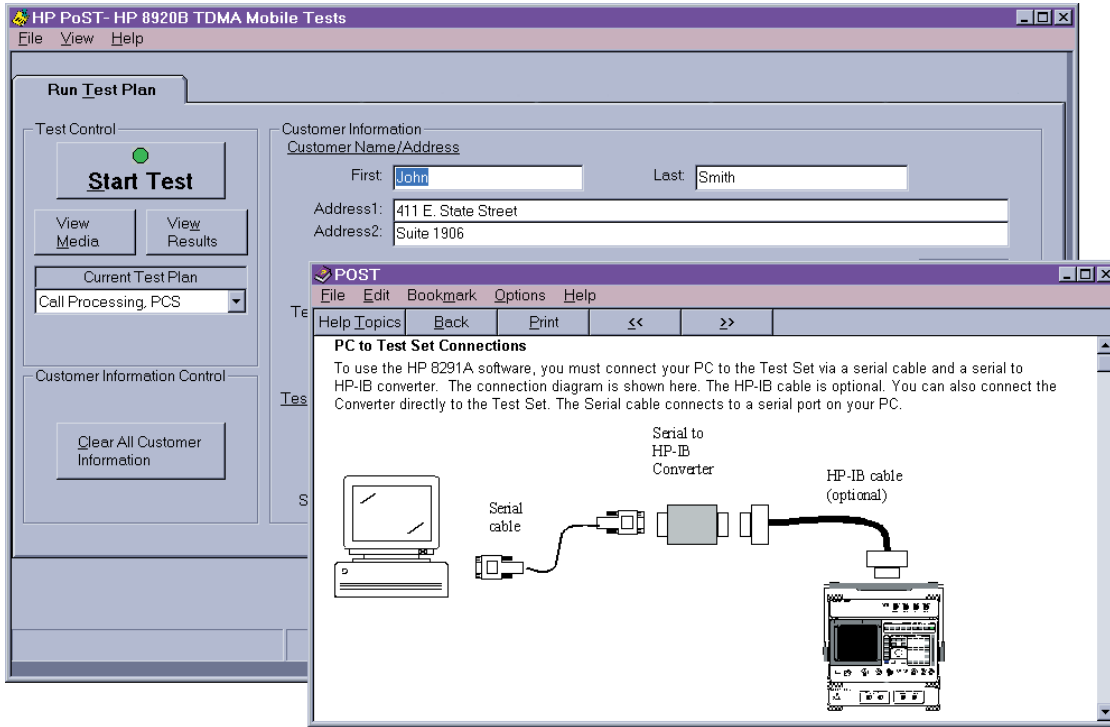
“Run Test Plan” screen with “Current Test Plan” menu open

The mouse-driven graphical user interface enables any operator to make fast, accurate measurements.

Help Menu Topics Such As: “PC to Test Set Connections”

A help menu with diagrams provides all the information the operator needs to run the tests. For example, the help menu provides simple instructions for connecting

the mobile phone and PC to the test set, what to do if the phone does not connect, and a checklist of items that the operator needs to know before testing.

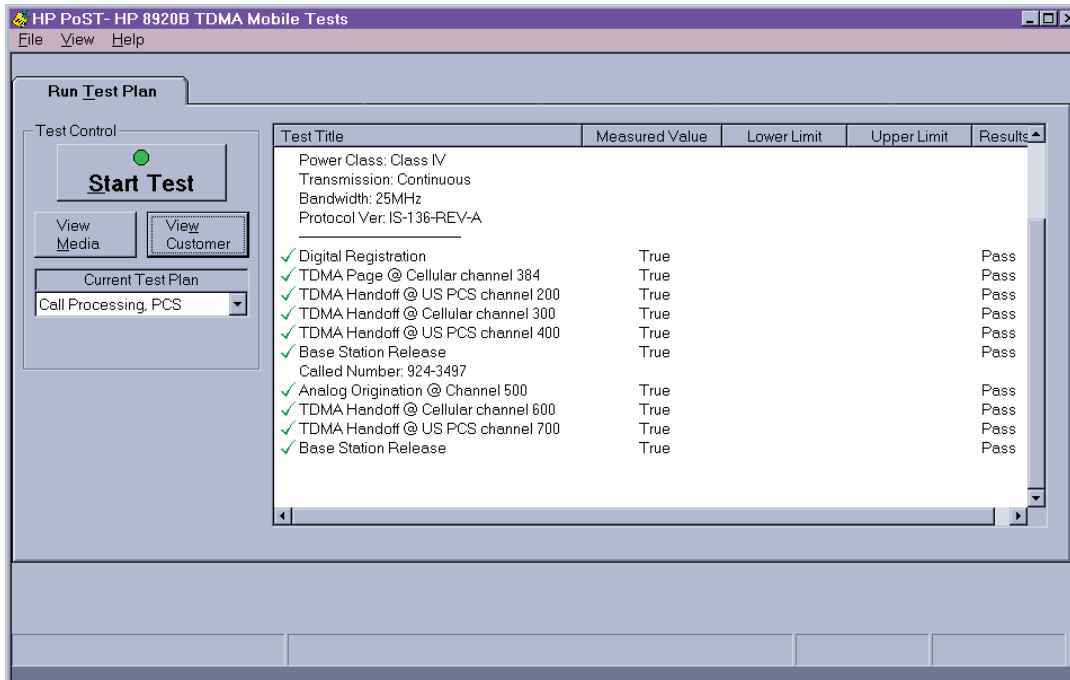


Help Menu: “PC to Test Set Connections”
Simple instructions and diagrams—such as these for connecting the test set, phone, and computer—are included in the software and available on-line.

Sample Test Results from “View Results” Button of “Run Test Plan” Tab

When a test has finished, the PoST software displays a pass or fail message and offers options for viewing the

test results, printing a summary or detailed report, and saving the test data to a file.

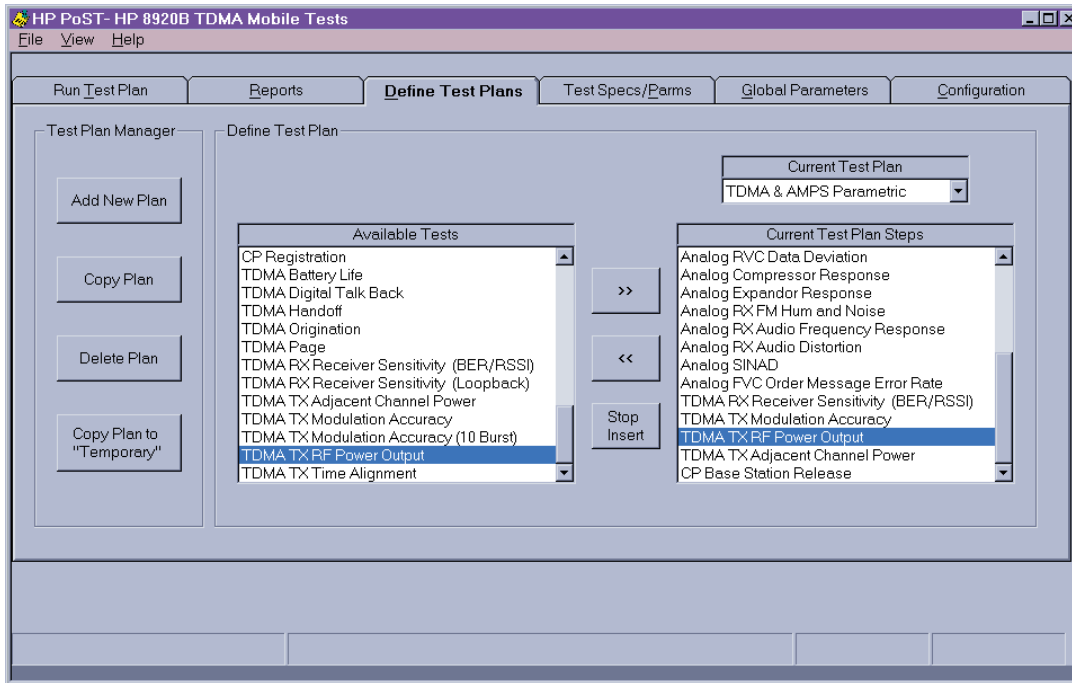


Sample test results from “View Results” button of “Run Test Plan” tab
Test results and summary information can be printed and saved to a file.

Access to a Powerful Development Environment

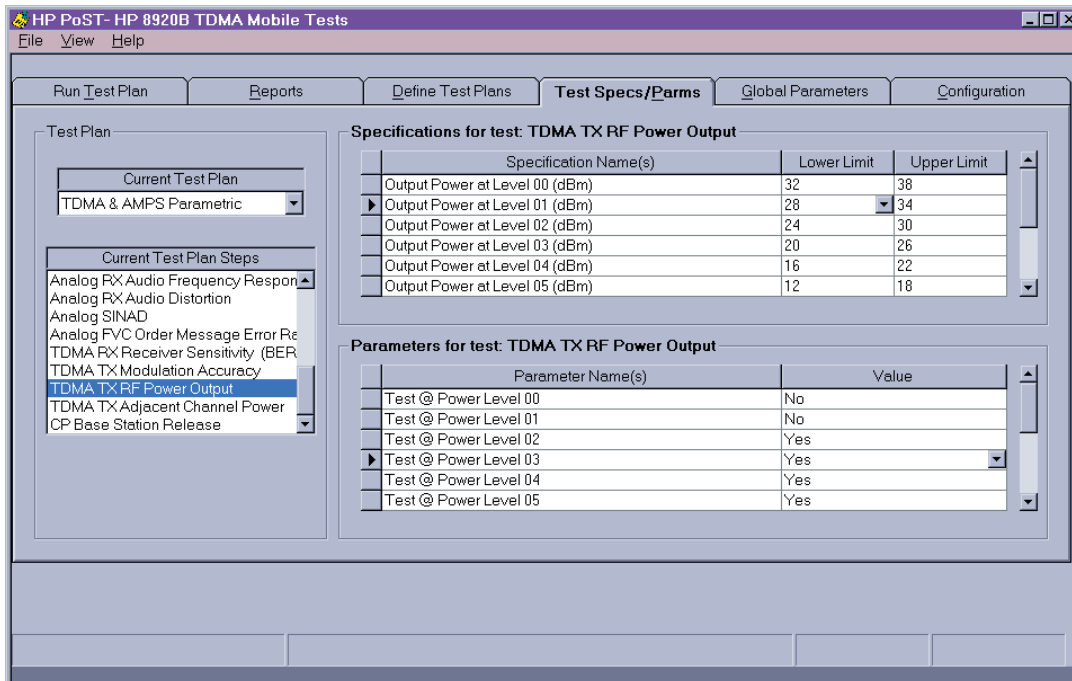
In the software's *development* mode, technical users can access the software's full set of capabilities to create tests for different models of TDMA phones.

Test configurations, test plans, test specifications, and measurement parameters can all be defined and customized with ease.



“Define Test Plans” screen

Point-and-click operation makes it easy to create new test plans or modify existing ones.

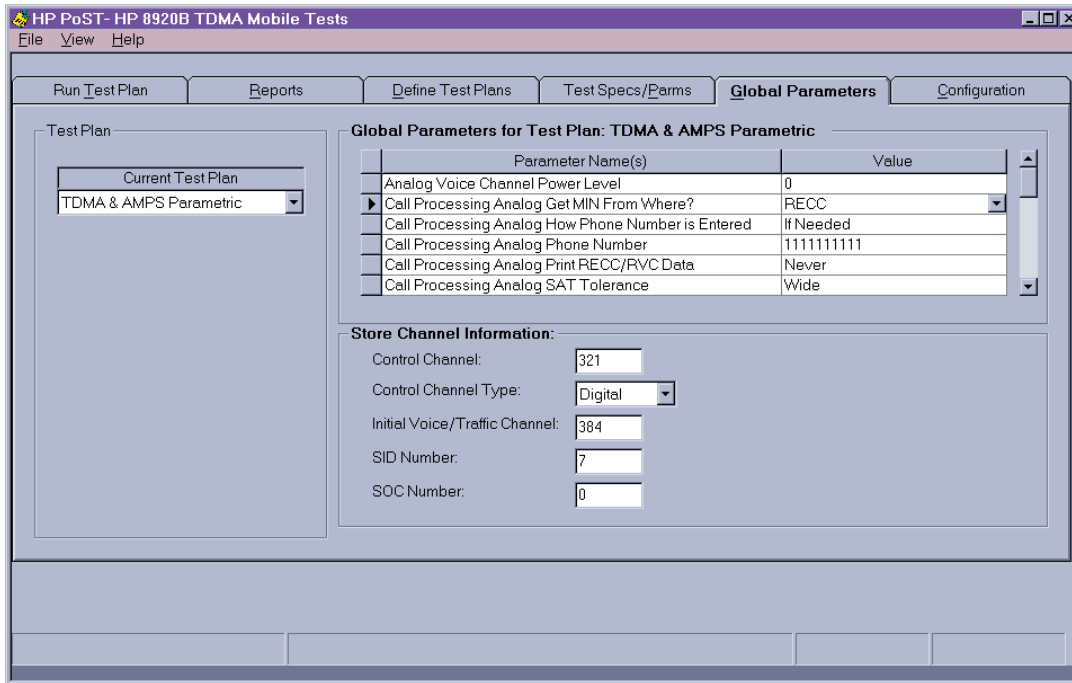


“Test Specs/Parms” screen, “TDMA TX RF Power Output” selected

The PoST software lets you define the test specifications and parameters for each step of a selected test plan. For example, to give you flexibility in testing you can run a RF output power test at a PCS frequency and then again at an analog frequency. For each case the software will use the appropriate specifications and parameters.

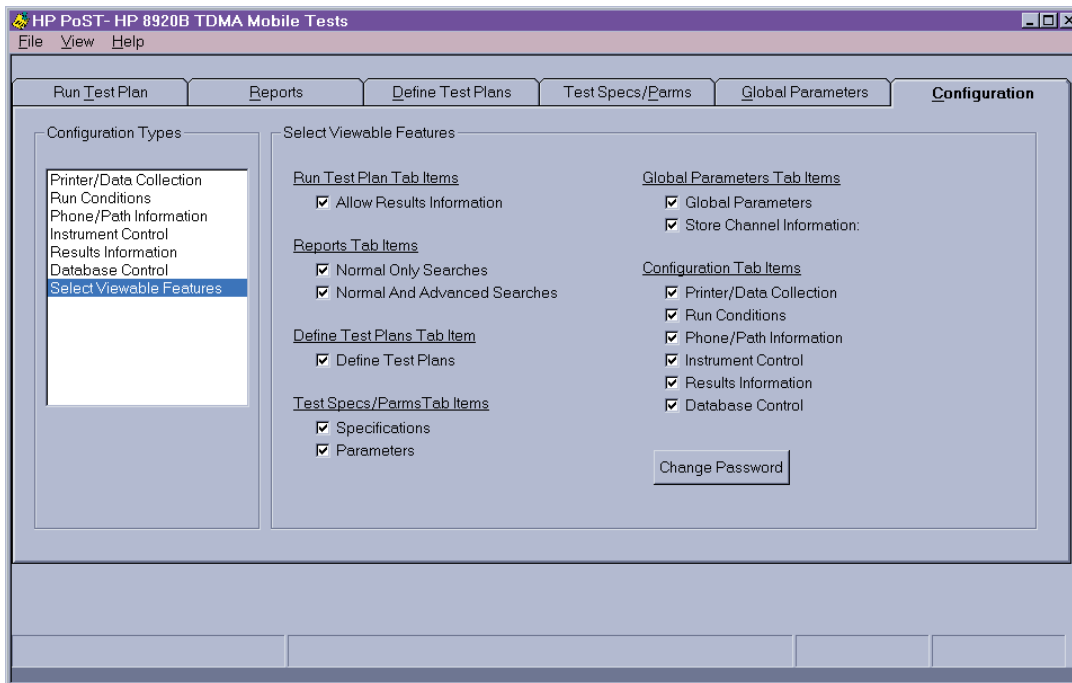
The development mode is password-protected to limit who has access to the test programming and instrument control.

Path loss and global parameters can be customized into your test plan to make accurate and repeatable measurements from one phone to the next.



“Global Parameters” screen selected

You can easily modify global parameters to customize a test plan for your phones.



“Configuration” screen with “Select Viewable Features” selected

Through the configuration screen, you can direct the operation of the PoST software by choosing the printer and data collection settings, the run conditions, phone and path information, instrument control settings, and which features can be viewed by all operators.

Data Analysis and Reporting

The detailed and accurate performance data collected by the PoST software, along with customer information, can be saved in popular PC database and spreadsheet formats for use in trend-analysis and customer-care applications.

For example, you can store test results at each of your retail stores; then periodically collect, merge, and analyze the data files from each location to

identify any recurring problems with a particular model of TDMA phone.

The PoST software includes a powerful, flexible search engine that allows you to search the database by multiple fields (such as phone type, failure mode, customer name, or location), and to export the search results to spreadsheets for further analysis.

HP PoST- HP 8920B TDMA Mobile Tests

File View Help

Run Test Plan Reports Define Test Plans Test Specs/Parms Global Parameters Configuration

Report Control

View Report

Report Type

Summary

Results

Search Type

Normal

Advanced

Clear All Criteria

Search Criteria

Customer Name/Address

First: John Last: Smith

Address 1: 411 E. State Street

Address 2: Suite 1906

City: Anywhere State/Prov: WA USA Zip: 99204

Test Phone Number

Area Code: 000 Prefix: 000 Suffix: 0000 Serial No.:

Test Information

Store: Phones and More Test Date: Passed:

Phone Type: Operator: Tim Brown Failed:

Phone Model: Test Plan: Test Aborted:

**“Reports” tab;
with “Normal”
and “Advanced”
search query
screens**

In addition to searching on the standard database fields, you can use the software’s advanced search capability to build your own query strings.

**“Normal” Search Type
query screen**

HP PoST- HP 8920B TDMA Mobile Tests

File View Help

Run Test Plan Reports Define Test Plans Test Specs/Parms Global Parameters Configuration

Report Control

View Report

Report Type

Summary

Results

Search Type

Normal

Advanced

Clear All Criteria

Advance Search Criteria

Available Query Information

Summary/Table	Constraints	Results Table
{Summary.TotalPass}	<	{TestResults.LowerLimit}
{Summary.Zip}	=	{TestResults.Measured}

Examples: {(Summary.TotalPass)}>5 AND {(Summary.TotalPass)}<10

Search Query Information

**“Advanced” Search Type
query screen**

Operating Systems

The HP E8291A PoST software runs on PCs with Microsoft® Windows® 95/98 or Windows® NT 4.0 operating systems.

Easy Connection to the Test Set

For easy connection between the HP 8920B Option 800/801 test set and your PC, the PoST software comes standard with a serial-to-GPIB adapter. The adapter plugs into the test set's GPIB connector and allows hookup to the PC using a standard serial cable (which is also included with the software).

There is no need to install and configure internal adapter cards in the test set or in your PC!

System Requirements

An IBM compatible PC with at least:

- 166 MHz Pentium processor
- Microsoft® Windows® NT 4.0 or Windows® 95/98
- 16 MB of RAM
- 20 MB of available hard disk space
- Available serial port

Minimum test set firmware revision:

- HP 8920B Option 800/801: B.06.00
- HP 83206A: AL 990422, Rx 970923

Ordering Information

HP E8291A PoST Software for dual-mode mobile phones on a CD-ROM; runs on a PC with Microsoft® Windows® 95/98 or Windows® NT 4.0, to control an HP 8920B Option 800/801 mobile station test set.

HP 8920B Mobile Station Test Set

Option 891 Adds HP E8291A PoST Software

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Tests that the Software Performs

TDMA Tests

CP Base Station Release
CP Registration
TDMA Handoff
TDMA Battery Life
TDMA Digital Talk Back
TDMA Origination
TDMA Page
TDMA RX Receiver Sensitivity
TDMA TX Modulation Accuracy
TDMA TX Adjacent Channel Power
TDMA TX RF Power Output
TDMA TX Time Alignment

Analog Tests

Analog Battery Life
Analog Compressor Response
Analog Current Drain
Analog DTMF Frequency Error
Analog Expander Response
Analog FVC Order Message Error Rate
Analog Handoff
Analog Hook Flash
Analog Origination
Analog Page
Analog RVC Data Deviation
Analog RX Audio Distortion
Analog RX Audio Frequency Response
Analog RX FM Hum and Noise
Analog RX Qualitative Audio
Analog SAT/DSAT
Analog Signaling Tone/DST
Analog SINAD
Analog TX Audio Distortion
Analog TX Audio Frequency Response
Analog TX FM Hum and Noise
Analog TX Frequency Error
Analog Modulation Deviation Limiting
Analog Qualitative Audio
Analog RF Power Output

Other Tests

Battery Life in Standby Mode
Change Channel For
Change Channel List
Change Global Parameters
Access to User DLL

**A demo version of the HP E8290A PoST
Software can be downloaded from:**

<ftp://tmo.hp.com/spk/>

For related product information visit our web site
at: **<http://www.hp.com/go/wireless>**

For more information about Hewlett-Packard test and measurement products, applications, services, and a current sales office listing, visit our web site at:

<http://www.tmo.hp.com>

You can also contact one of the following centers and ask for a test and measurement sales representative.

United States:

Hewlett-Packard Company
Test and Measurement Call Center
P.O. Box 4026
Englewood, CO 80155-4026
(tel) 1 800 452 4844

Canada:

Hewlett-Packard Canada Ltd.
5150 Spectrum Way
Mississauga, Ontario
L4W 5G1
(tel) 1 877 894 4414

Europe:

Hewlett-Packard Company
European Marketing Organisation
P.O. Box 999
1180 AZ Amstelveen
The Netherlands
(tel) (31 20) 547 9999

Japan:

Hewlett-Packard Japan Ltd.
Measurement Assistance Center
9-1, Takakura-Cho, Hachioji-Shi,
Tokyo 192-8510, Japan
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(fax) (81) 426 56 7840

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