

Agilent PN 8590-4

Creating Screen Titles and DLPs and Executing Remote Commands Using a PC Keyboard

Product Note

How to use an external editing keyboard with Agilent Technologies 8590 C/E/L-series spectrum analyzers

A PC keyboard can be connected to a standard 8590 C/E/L-series spectrum analyzer to give you added measurement and record-keeping conveniences.

Be sure the spectrum analyzer is turned off, then plug in a standard IBM PC-compatible 101-key keyboard to the socket provided on the rear panel of the spectrum analyzer.

Title screen displays

Do you need to add titles to your spectrum analyzer display? Press the ESC key on the keyboard and start typing a title on the screen (see Figure 1). Now the title can be saved with the trace in internal, or card memory, and printed to your analyzer's printer.

Run custom measurement routines in the spectrum analyzer

Is there a measurement routine that you would like to program into the spectrum analyzer and run at the press of an analyzer key? The external keyboard can be an editor for simple downloadable programs

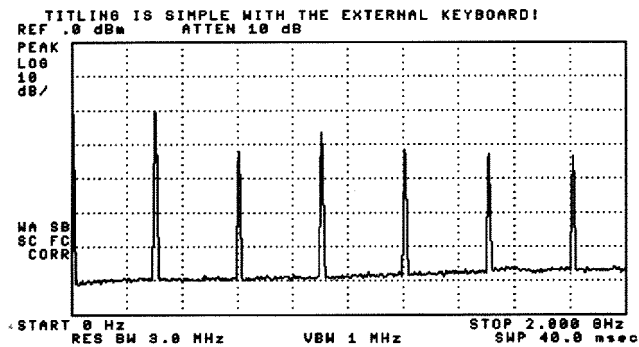


Figure 1. Keeping track of test data on a production line is easy when you use the keyboard to enter titles.

(DLPs), which use the language of the analyzer's internal computer. Simply press PAUSE on the keyboard, type in the command set, and save the KEY DEFINITION in the analyzer's internal memory. You can run your routine from the front-panel softkey at any time.

For example, in Figures 2 and 3, the routine centers the 1 MHz span at 300 MHz and takes a sweep.

Execute remote operation commands without a computer

You can try a sequence of remote operation commands without using a controller. Just press F8 on the external keyboard, type in the string

of GPIB remote programming commands (separated by semicolons), and press ENTER. All commands except those requiring computer-analyzer interaction, such as QUERY, can be executed with ease. In the example in Figure 4, the command string in the title area will be executed when the keyboard ENTER key is pressed.



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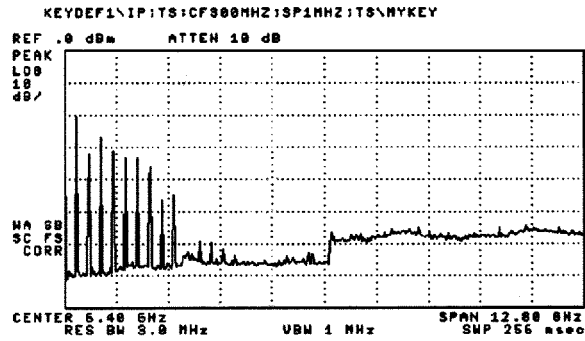


Figure 2. The internal DLP editor and the external keyboard let you store short measurement routines in the analyzer's computer.

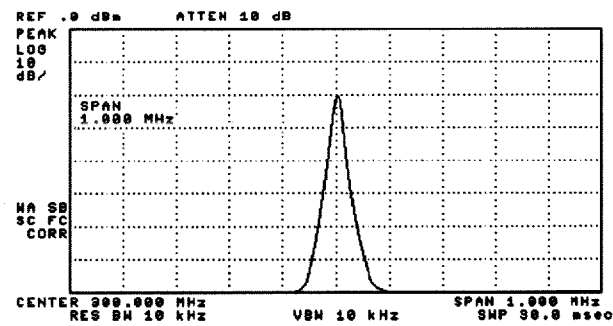


Figure 3. After you create a measurement routine, assign a key name. Here, the name MYKEY appears beside the softkey that will execute the routine.

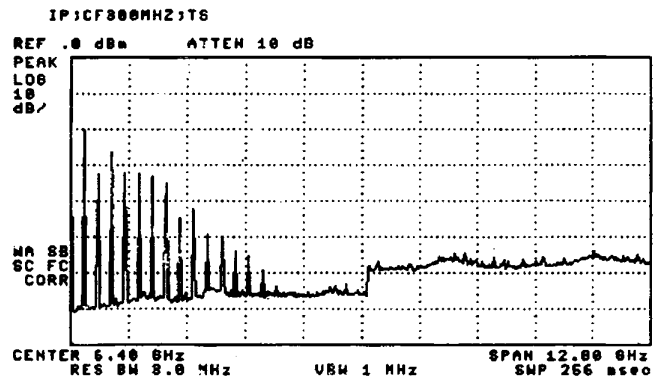


Figure 4. Type the string of remote commands and press the keyboard ENTER key to execute.

Ordering information:

Compatible spectrum analyzers

- 8590L
- 8591C
- 8591E
- 8592L
- 8693E
- 8594E
- 8594L
- 8595E
- 8596E

Compatible keyboards

A Vectra PC or IBM-compatible AT keyboard with DIN 5-pin connector may be used. The keyboard must be a non-auto-switching AT/XT type.

Keyboard template

A keyboard template (part number 5181-8207) is available to simplify all external keyboard operations.

Note: Detailed information on using the external keyboard can be found in the Programmer's Guide for your spectrum analyzer.

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