

OTDR Trace Browser

OTDR Trace Administrative Tool

Ver. 1.00

The information in this document is subject to change without prior notice. Without the prior written permission of the company, any part of this publication is strictly prohibited by any means in any form to be reproduced, transmitted, transcribed, stored in a retrieval system or translated into other languages.

All the registered names and trademarks associated with this manual are the property of their respective holders.

Content

Chapter I: Description.....	3
Chapter II: Installation.....	3
Operating System.....	3
Installation Procedures.....	3
Chapter III: Running.....	3
Chapter IV: Opening and Closing OTDR Trace Files.....	4
Opening Trace Files on OTDR Device.....	4
Opening Trace Files on the Computer.....	6
Opening Multiple Trace Files.....	7
Closing Trace Files.....	8
Chapter V: Move a trace vertically.....	8
Chapter VI: Zoom-out and zoom-in of a trace.....	9
Zoom-in of a trace.....	9
Zoom-out of a trace.....	10
Chapter VII: Event Insertion Loss Analysis.....	10
Chapter VIII: Event Reflection Loss Analysis.....	11
Chapter IX: Edit an Event List.....	12
Add an Event.....	12
i. Add a Non-reflective Event.....	12
ii. Add a Reflective Event.....	12
Delete an Event.....	13
Modify an Event.....	14
Chapter X: Edit the Information in a Trace File.....	15
Chapter XI: Batch File Modification.....	16
Chapter XII: Trace print.....	17
Print preview and print.....	17
Batch print preview and batch print.....	18
Report Format Setup.....	20
Print Setup.....	20

Chapter I: Description

OTDR Trace Browser is a special tool to view, edit and print OTDR traces. The tool can open the OTDR trace files by the following methods:

- Method 1: after the OTDR is connected to the computer via USB interface, OTDR Trace Browser can directly open the OTDR trace files saved on the OTDR device.
- Method 2: you can connect the OTDR to the computer via USB interface and copy the trace files from the OTDR device to the computer; then you can open the trace files on the PC with the OTDR Trace Browser.

This document will guide you through the process of installation and running of the OTDR Trace Browser and describe how to browse the OTDR traces, how to zoom in or out the OTDR traces, how to operate trace benchmarks, how to modify the event table, and how to output the OTDR traces.

Chapter II: Installation

Operating System

Applicable operating systems: Windows2000/WindowsXP/Windows7

Installation Procedures

Perform the following procedures on the computer that OTDR Trace Browser will run:

1. Insert the CD accompanied with the instrument into your CD drive.
2. Click to run the installation program OTDR_Trace_Browser_Setup_5.02.exe and complete the installation operations step by step according to the instructions of the program.

Chapter III: Running

For Windows operation systems, click “start” -> “program” -> “OTDR Trace Browser” -> “OTDR_Trace_Browser.exe”, the OTDR Trace Browser will run and display a blank trace window as shown in the figure below:

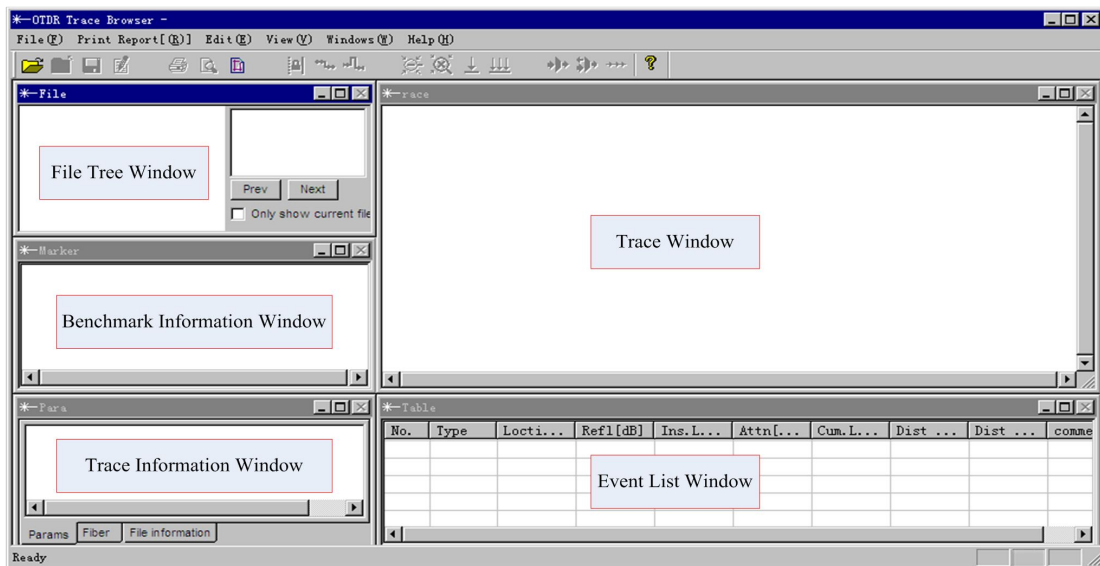


Figure 3-1 Blank Window on OTDR Trace Browser

Chapter IV: Opening and Closing OTDR Trace Files

OTDR Trace Browser can open trace files saved on the OTDR device or saved on the computer.

Opening Trace Files on OTDR Device

After the OTDR device is connected to the computer via USB interface, the computer will automatically find the OTDR device and the OTDR will be displayed as a disk “**OTDR**” in Windows Explorer as shown in the figure below:

Windows (C:)	Local Disk	97.6GB	72.2GB
Work (D:)	Local Disk	363GB	342GB
DVD RW Drive (E:)	CD Drive		
OTDR (G:)		128M	128M

Figure 4-1 OTDR is displayed as a disk in Windows Explorer

At the same time, the OTDR will pop up a window indicating USB connected to the computer, and the user can't operate the OTDR device any more by pressing any of the keys.

How to open the trace files on OTDR device:

- Connect the OTDR device to the computer via USB interface and OTDR will be displayed as a disk “**OTDR**” in Windows Explorer
- Run the OTDR Trace Browser tool
- Click submenu “Open” in Menu “File” or Button  in the toolbar to enter the dialog

box of opening a file

- Select “OTDR” disk and open it, the interface will display directory “data”
- Enter directory “data” and select the trace file to be opened, the system will automatically display the brief information and the thumbnail of the trace file. Please refer to the figure below:

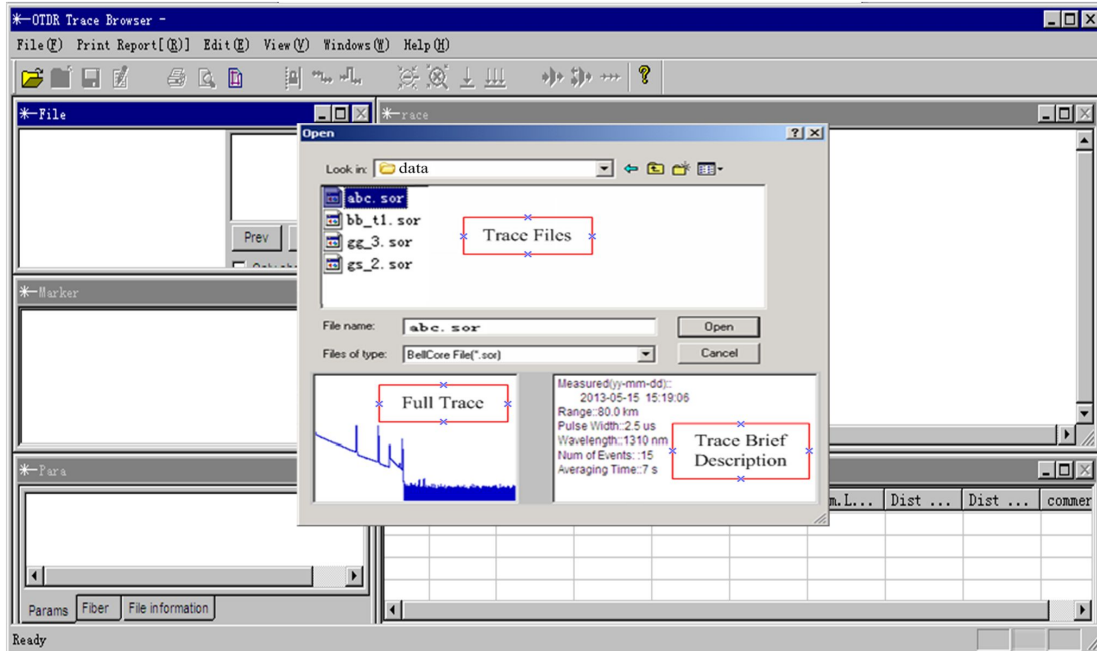


Figure 4-2 Select and Open a Trace File on the OTDR device

- Click Button “Open”, the trace will be displayed as shown in the figure below:

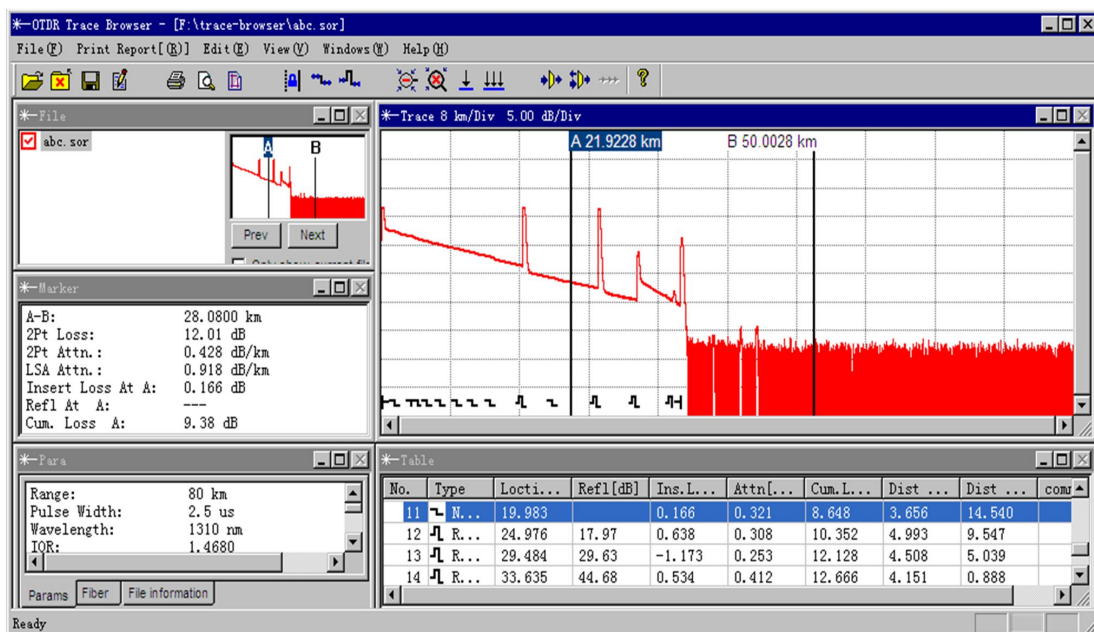


Figure 4-3 Open a Trace File

Opening Trace Files on the Computer

After the OTDR device is connected to the computer via USB interface, you can copy the trace files from the OTDR device to the computer.

How to copy the trace files from the OTDR device to the computer:

- Connect the OTDR device to the computer via USB interface and OTDR will be displayed as a disk “OTDR” in Windows Explorer
- Open the “OTDR” disk in Windows Explorer, and enter the directory “data”
- Select the trace files, right-click the selected files and select “copy”
- Enter the directory you want to save the trace files on the computer, for example “Trace”, and select “paste”, the trace files are copied from the OTDR device to the computer.

After the trace files are copied, you can open the traces from the computer.

How to open the trace files on the computer:

- Run the OTDR Trace Browser tool
- Click submenu “Open” in Menu “File” or Button  in the toolbar to enter the dialog box of opening a file
- Browse the computer and open the directory that you save the trace files, for example “Trace”
- Select the trace file to be opened, the system will display automatically the brief information and the thumbnail of the trace file. Please refer to the figure below:

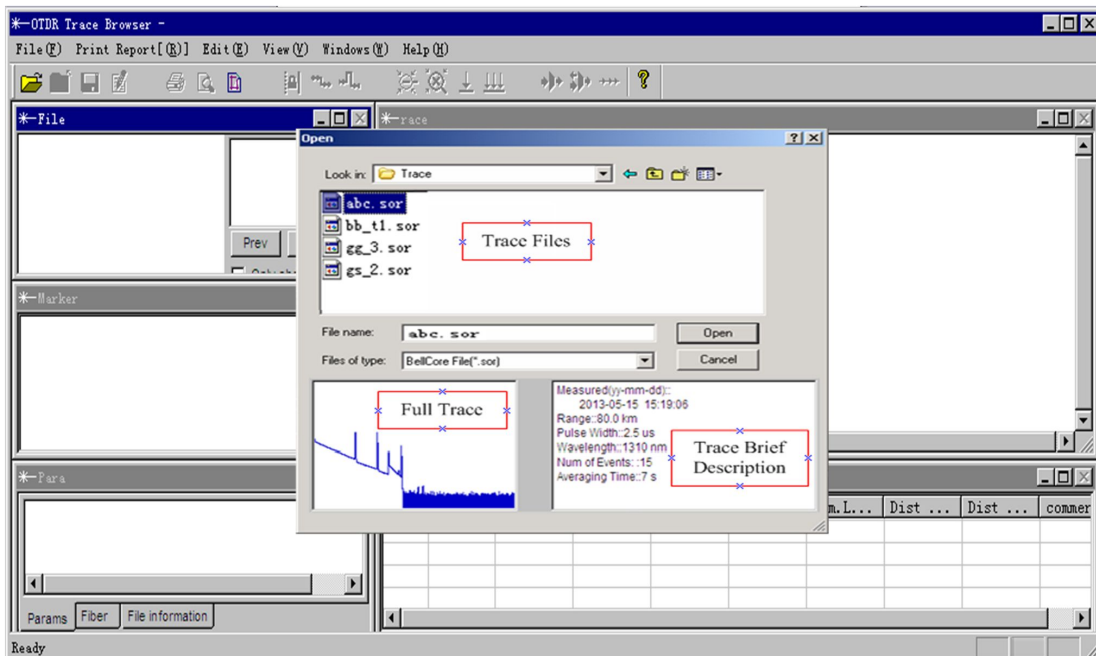


Figure 4-4 Select and Open a Trace File on the Computer

- Click Button “Open”, the trace will be displayed as shown in the figure below:

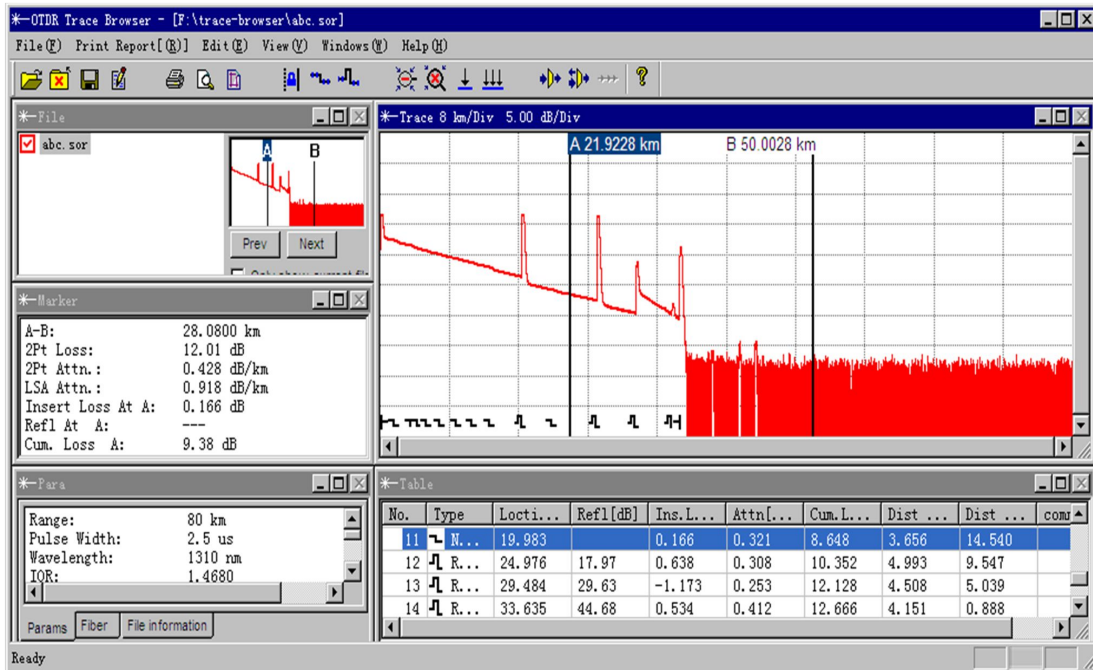


Figure 4-5 Open a Trace File

Opening Multiple Trace Files

Multiple trace files can be opened for operations of viewing and zoom-out in OTDR Trace Browser. Open another trace file in the above steps as shown in the figure below.

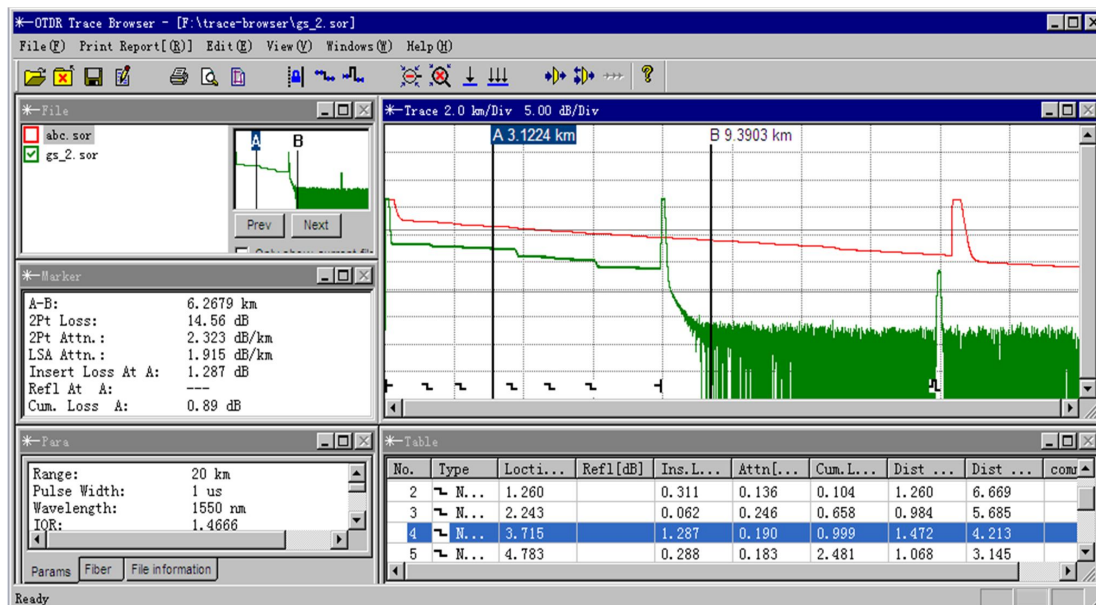


Figure 4-6 Open Multiple Trace Files

OTDR Trace Browser displays different traces in different colors. Select a trace to be operated in the file tree window and double-click it, the trace window will change colors

automatically to respond to the operation of the user, which indicates that the trace you selected has been the currently active trace. In the parameter window, the measurement parameters of the trace can be viewed by clicking Option page “**Params**”; The fiber chain information that the trace represents can be viewed by clicking Option page “**Fiber**”; The information on positions between benchmarks and relative information on losses can be viewed by clicking Option page “**Marker**”.

Closing Trace Files

In the OTDR Trace Browser interface, you can click submenu “Close Current File” in Menu “File” or Button  in the toolbar to close current trace file; or you can right-click the file tree window and select “Close” to close current trace file as shown in the figure below:

Refer to the following figure:

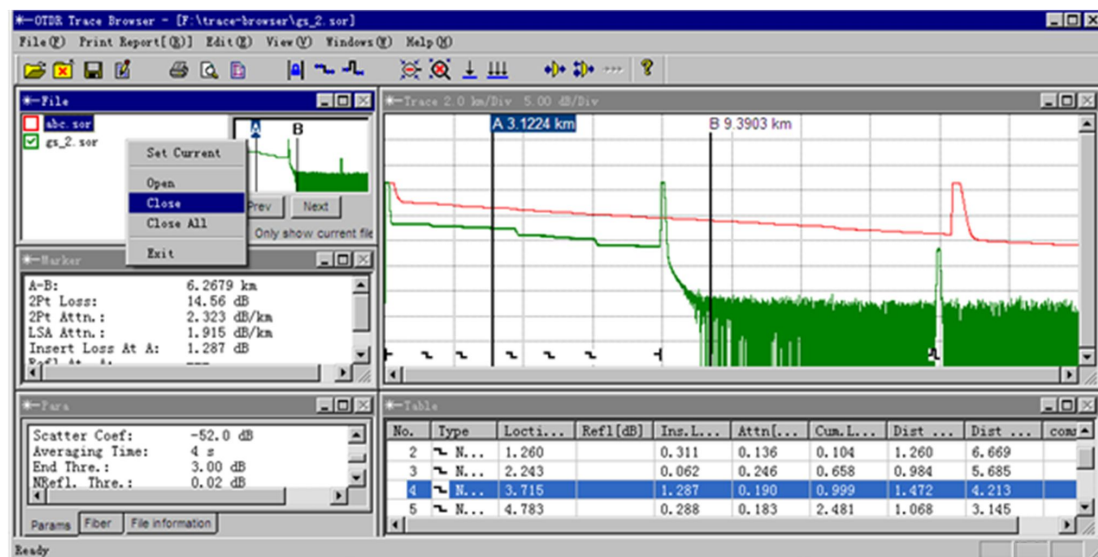


Figure 4-7 Close the Trace File(s)

If you want to close all opened trace files, you can click submenu “Close All Files” in Menu “File”. You can also right-click the file tree windows and select “Close All” to close all opened trace files.

Chapter V: Move a trace vertically

Press any point on the trace with the left key of the mouse and hold the key until a horizontal line appears in the trace window, which indicates that the trace is selected. Then move the mouse vertically (by holding the left key of the mouse), the trace will move up and down following the cursor until the left key is released.

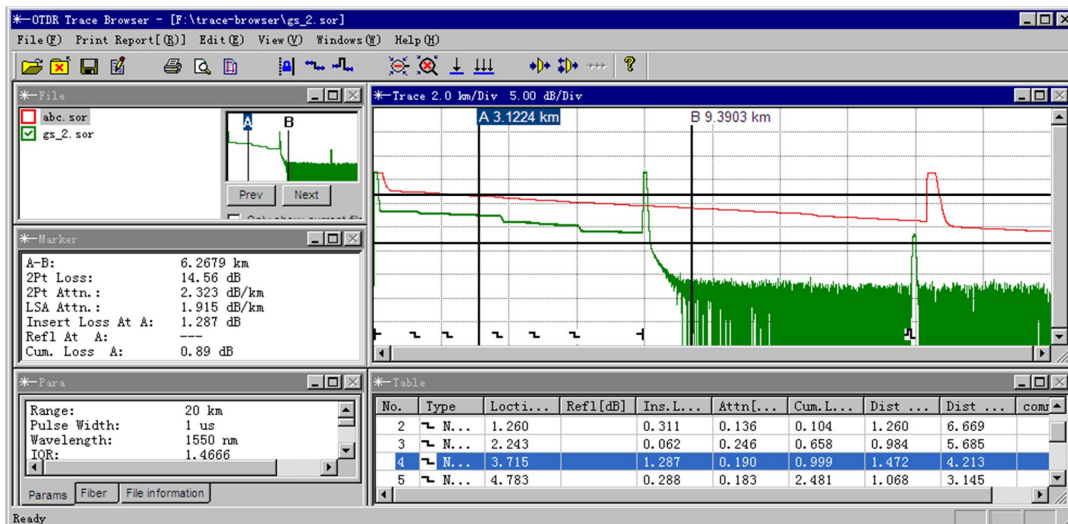


Figure 5-1 Move a Trace Vertically

Chapter VI: Zoom-out and zoom-in of a trace

Zoom-in of a trace

The trace is zoomed in OTDR Trace Browser via the drag box zoom-in function. The user presses the left key of the mouse in the trace window, drag a box on the trace part concerned with the mouse and then release the left key of the mouse, the zoomed-in trace part concerned by the user will be displayed in the trace window and the position of this part in the panoramic trace will be displayed in the trace panoramic window. The linkage function is achieved between the trace window and the trace panoramic window. Thus, when the user operates any window, the other window will automatically respond to the operation of the user and display the points concerned by the user as shown in the figure below:

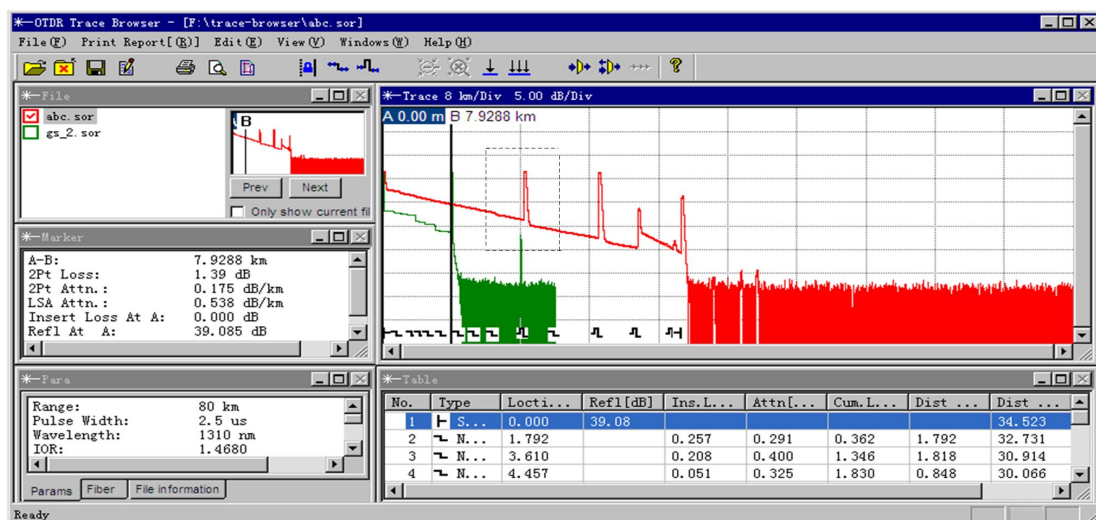


Figure 6-1 Drag a Box

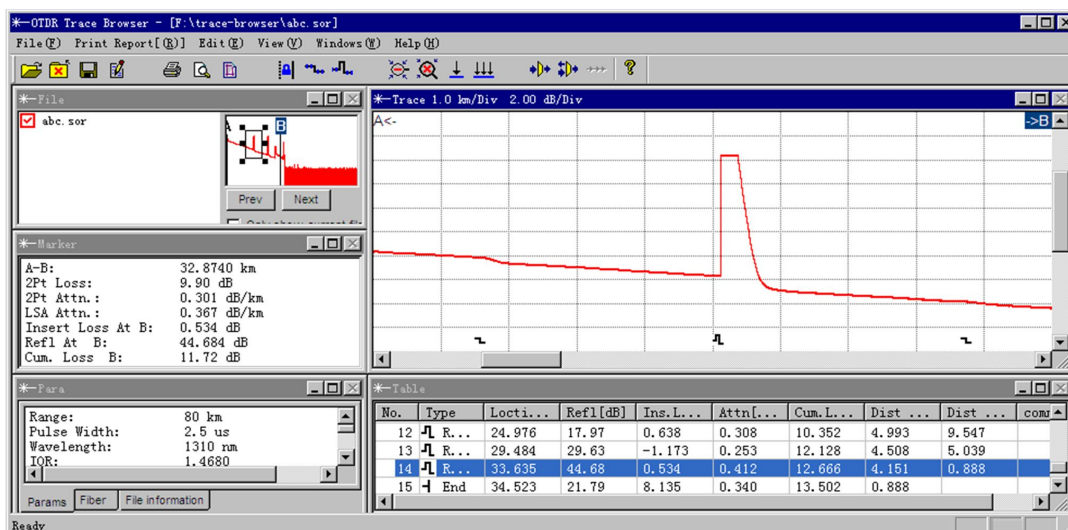


Figure 6-2 The Zoomed-in Trace Window

Zoom-out of a trace

Click Button  or  in the toolbar to zoom out the zoomed-in trace in the trace window.

Chapter VII: Event Insertion Loss Analysis

Click Button  in the toolbar, the system will enter the manual analysis interface on event insertion loss. First move A in the benchmark to the start of the event to be analyzed. Press Point A with the left key of the mouse to drag it leftwards as possible until it reaches the end of the former event and then release the left key of the mouse; press Point B with the left key of the mouse to drag it rightwards as possible until it reaches the start of the current event and then release the left key of the mouse; press Point C with the left key of the mouse to drag it leftwards as possible until it reaches the end of the current event and then release the left key of the mouse and press Point D with the left key of the mouse to drag it rightwards as possible until it reaches the start of the next event and then release the left key of the mouse. The value corresponding to "Insertion loss at A:" in the marker window is the insertion loss of the event at A in the benchmark.

Note: When the signal/noise ratio of the trace is bad, the event insertion loss obtained via the manual analysis is relatively correct.

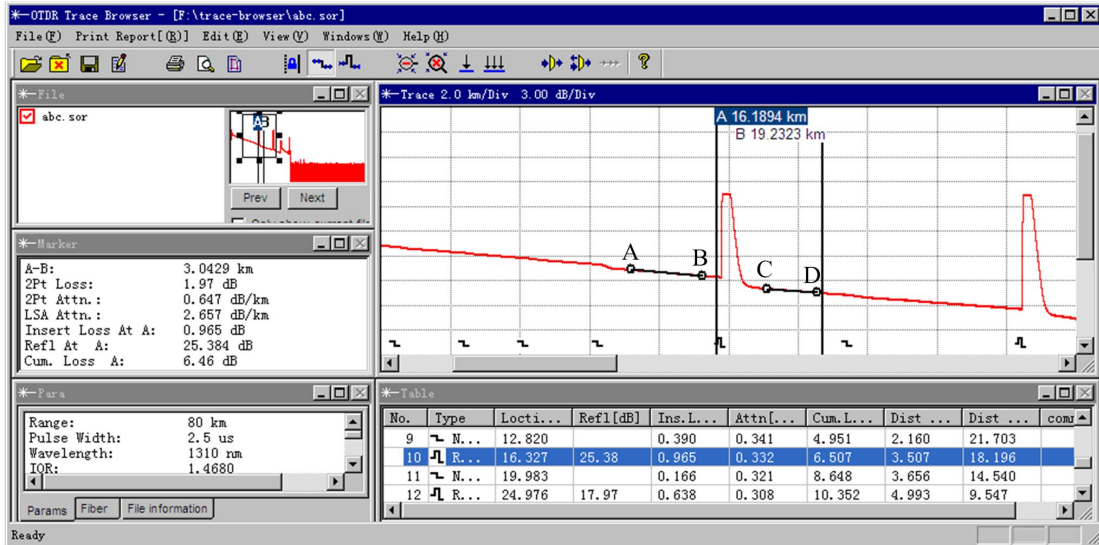


Figure 7-1 Insertion Loss Analysis

Chapter VIII: Event Reflection Loss Analysis

Click Button  in the toolbar, the system will enter the manual analysis interface on event reflection losses. First move A in the benchmark to the left of the reflection event to be analyzed currently and close to it. Press Point A with the left key of the mouse to drag it leftwards as possible until it reaches the end of the former event and then release the left key of the mouse; press Point B with the left key of the mouse to drag it rightwards as possible until it reaches A in the benchmark and then release the left key of the mouse and press Point C with the left key of the mouse to move it to the peak of the reflection event and then release the left key of the mouse. The value corresponding to “Reflection at A:” in the marker window is the reflection loss of the reflection event at A in the benchmark.

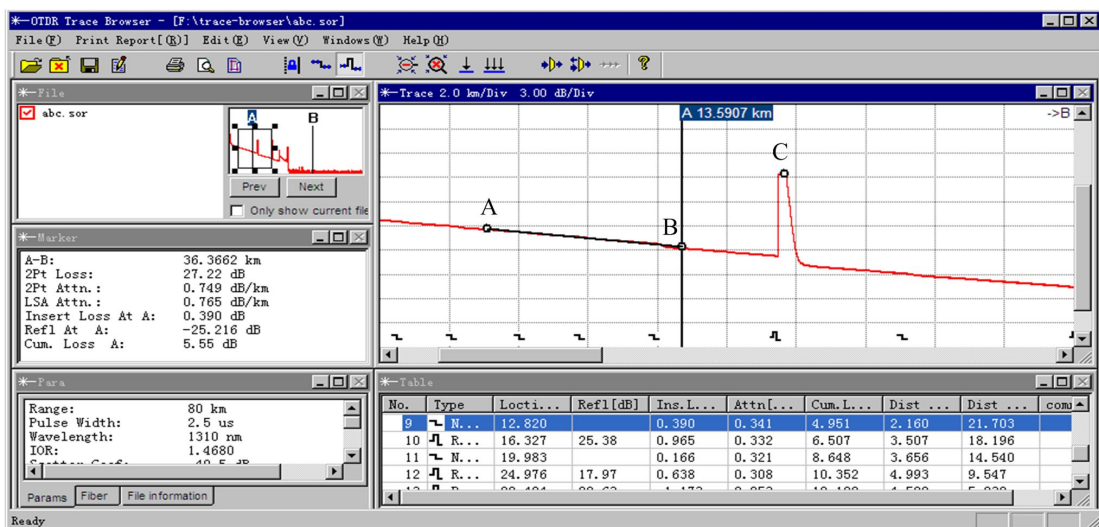


Figure 8-1 Reflection Loss Analysis

Chapter IX: Edit an Event List

Add an Event

i. Add a Non-reflective Event

Click Button  in the toolbar to add a new non-reflection event in the event list as shown in the figure below. First, move Benchmark A to the position where an event will be added. Then move point A leftwards as much as possible to the end of the former event. Move point B to the start of the added event, and move point C to the end of the added event. Last, move point D rightwards as much as possible to the start of the next event. Click Button “Finish” to close the addition of the non-reflection event and a new event will be added in the corresponding position in the event list.

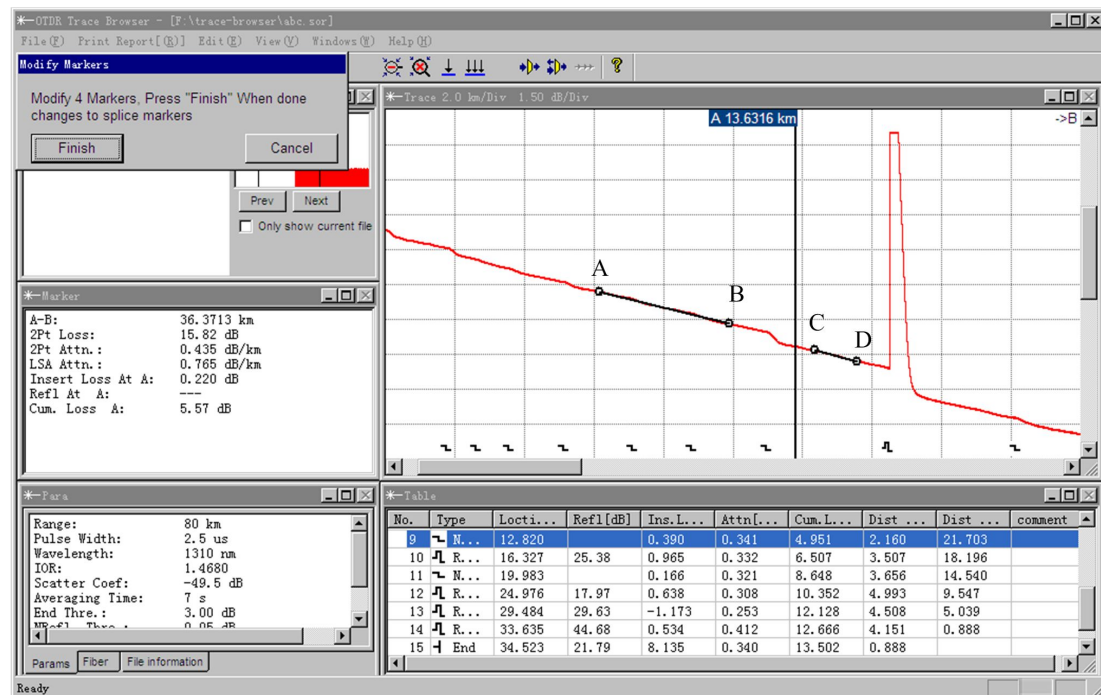


Figure 9-1 Add a Non-reflective Event

ii. Add a Reflective Event

Click Button  in the toolbar to add a new reflection event in the event list as shown in the figure below. First, move Benchmark A to the position where an event will be added. Then move point A leftwards as much as possible to the end of the former event, and point B to the start of the current event. Then move point C to the peak of the current reflection event and click Button “Next” according to the instruction of the system to set the four-level identification setting.

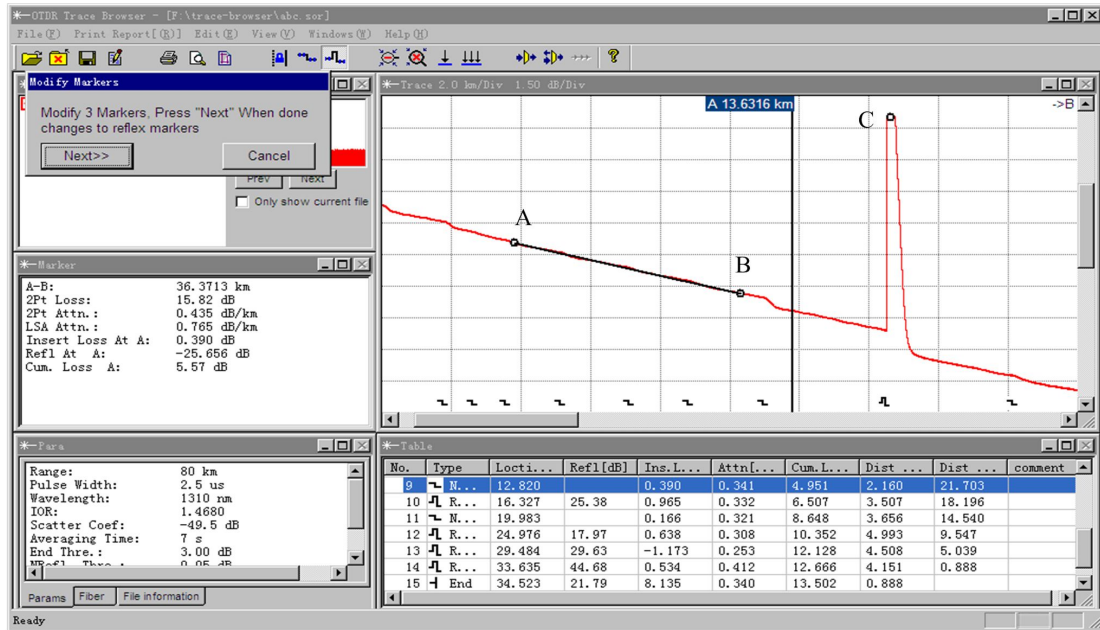


Figure 9-2 Add a Reflective Event

The four-level identification setting is shown in the figure below. Move point A leftwards as much as possible until it reaches the end of the former event, and point B to the start of the current reflection event. Then move point C to the end of the current reflection event and point D rightwards as much as possible until it reaches the start of the next event. Then click Button “Finish” according to the instruction of the system and a new reflection event will be added in the event list.

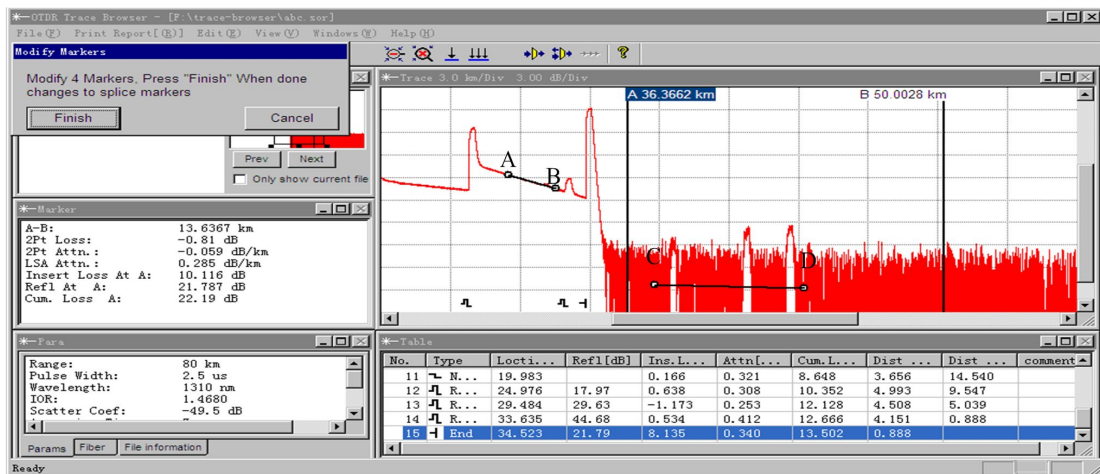


Figure 9-3 Four Level Identification Setting

Delete an Event

An event can be deleted in the following steps as shown in the figure below: select an event in the event list to be deleted, click the right key to pop up a floating menu and select “Delete Event”.

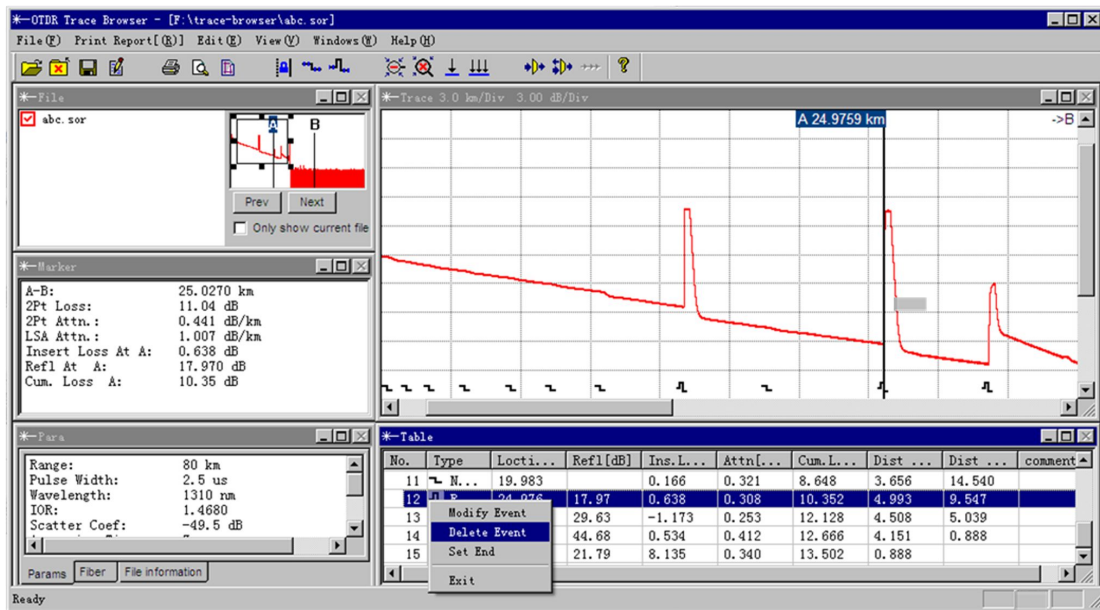


Figure 9-4 Delete an Event

Modify an Event

Select an event in the event list to be modified, click the right key to pop up a floating menu and select “Modify Event” as shown in the figure below.

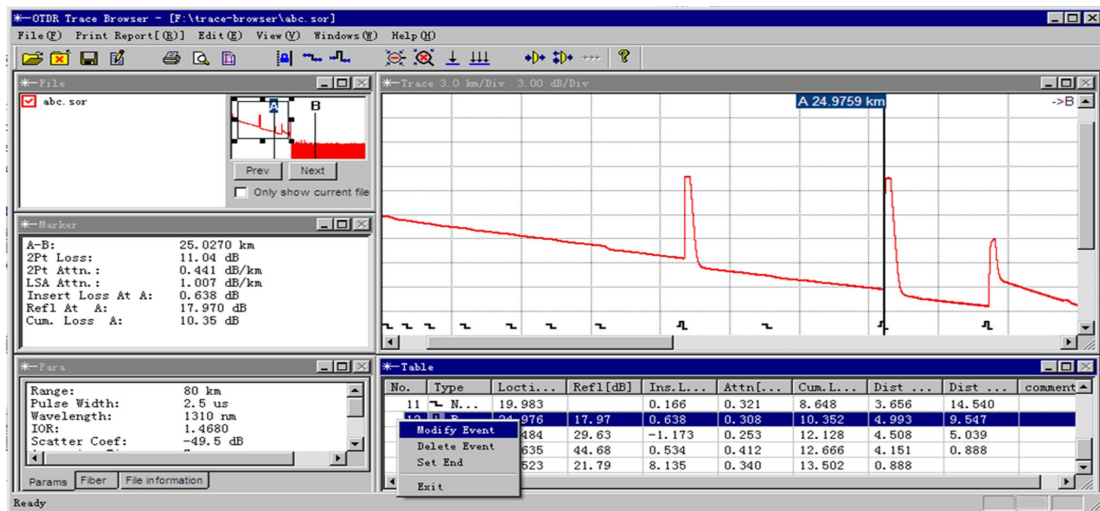


Figure 9-5 Modify an Event

Please refer to “Add a non-reflective event” for procedures of modification of attenuation events and refer to “Add a reflective event” for those of reflection events.

Chapter X: Edit the Information in a Trace File

The information in a trace file is the description of the measured fiber that the trace represents, including cable No., fiber No., fiber type, measurement personnel as well as starting and ending positions of the measured fiber that the trace represents.

Click submenu “Edit file information” in Menu “Edit” or Button  in the toolbar, the system will enter the interface of editing the trace information as shown in the figure below:

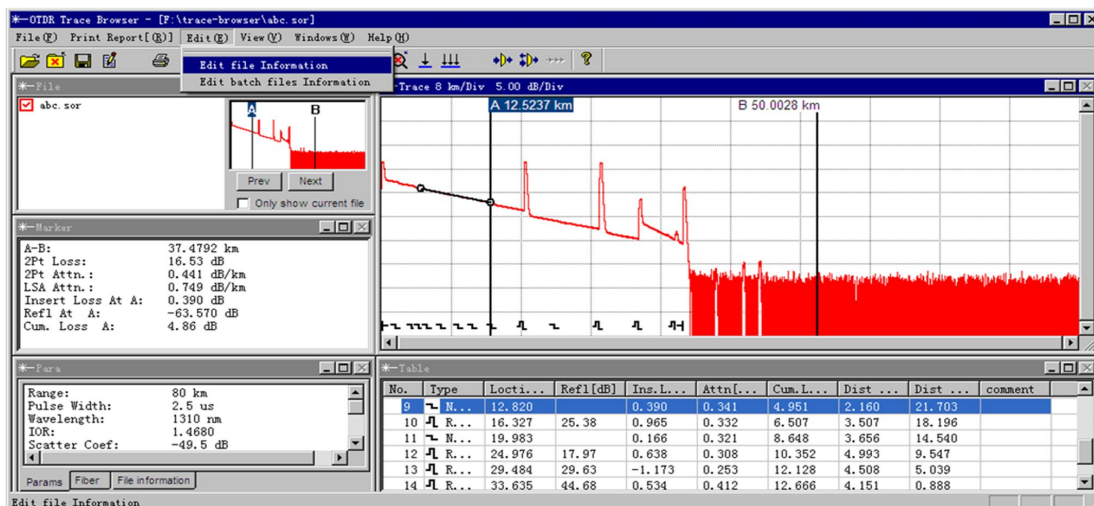


Figure 10-1 “Edit file information” Menu

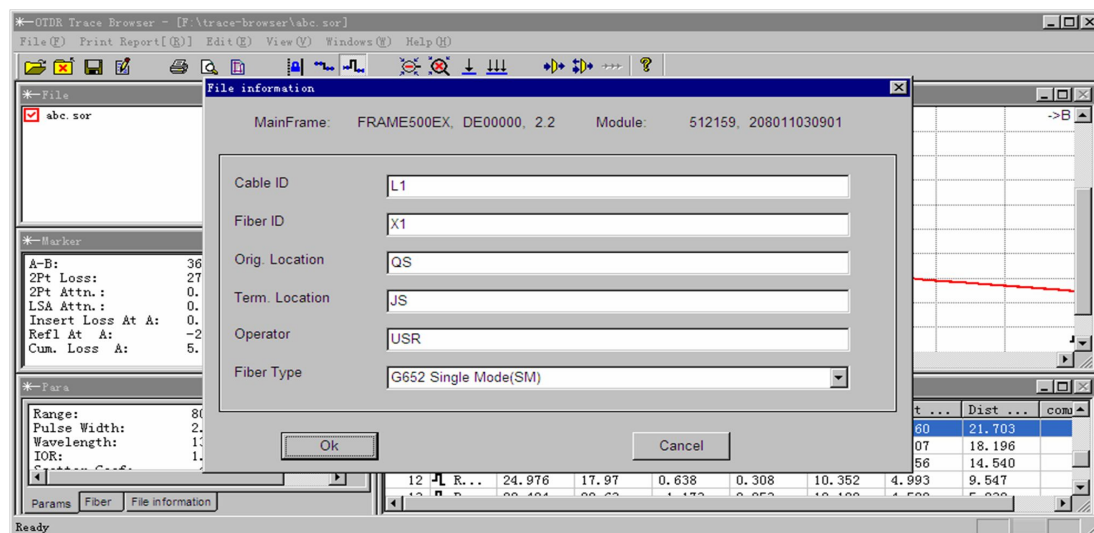


Figure 10-2 Edit information in a Trace File

After editing completed, click Button “Enter” to exit and click submenu “Save” in Menu “File” or Button  in the toolbar to save the new file information.

Chapter XI: Batch File Modification

With the function of batch file modification, the user is allowed to edit the file information of multiple trace files simultaneously. Select submenu “Edit batch file information” in Menu “Edit” as shown in the figure below to select multiple files.

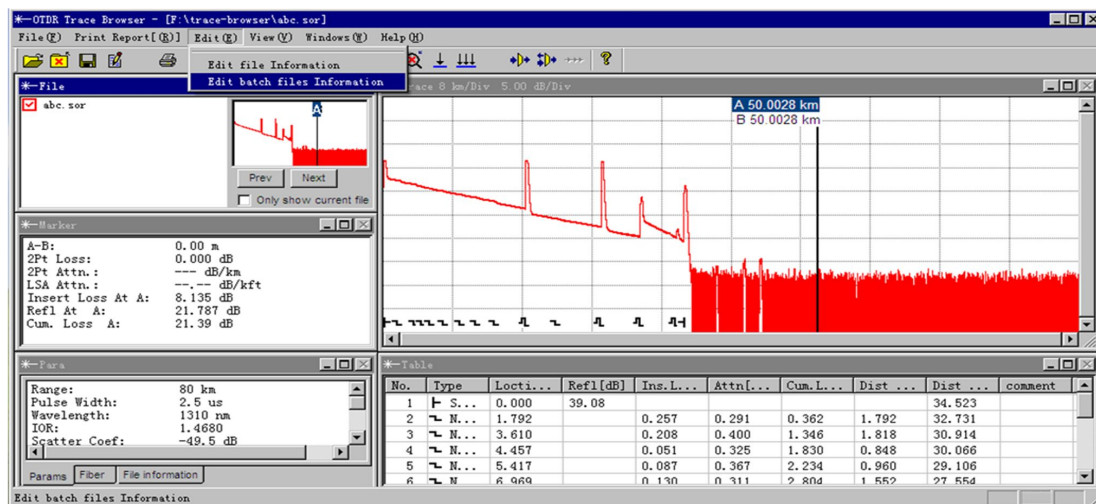


Figure 11-1 Batch File Modification

Edit of the file information is shown in the figure below.

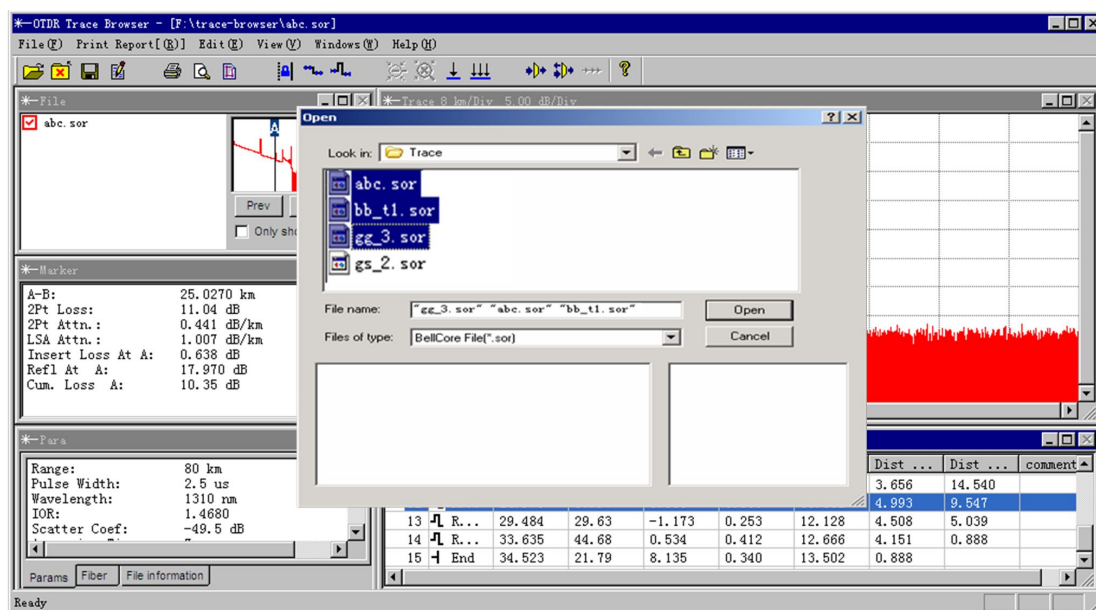


Figure 11-2 Select Batch Trace Files for Modification

Press “Open” and enter the interface of editing the trace information for multiple files as shown in the figure below:

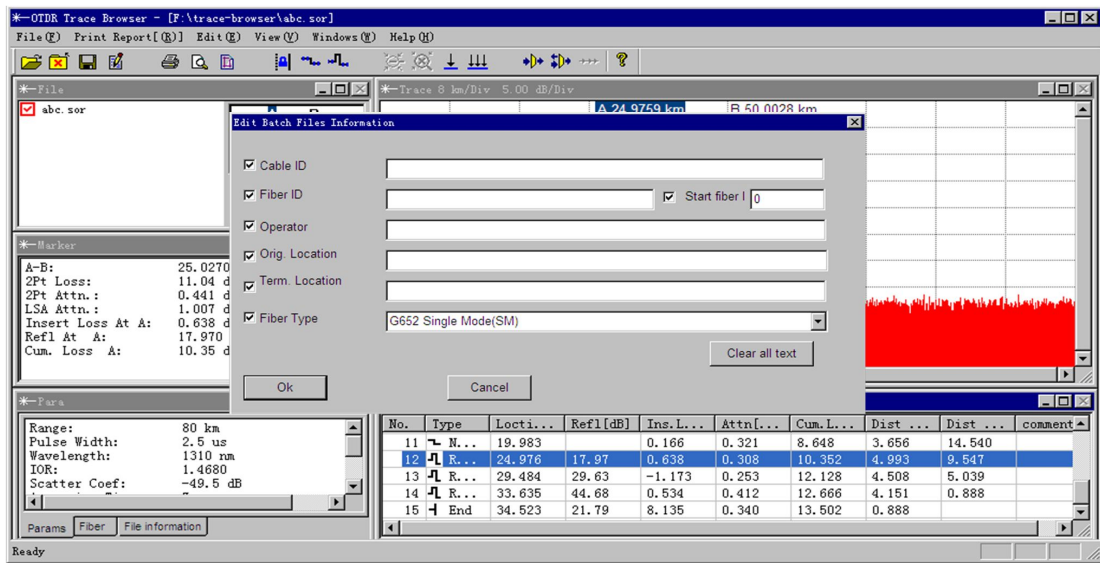


Figure 11-3 Edit the Information for Multiple Trace Files

Chapter XII: Trace print

Print preview and print

Select submenus “Print preview” and “Print” in Menu “Print Report” to perform the print preview and print for the currently activated trace file.

The output format of print preview is shown in the figure below.

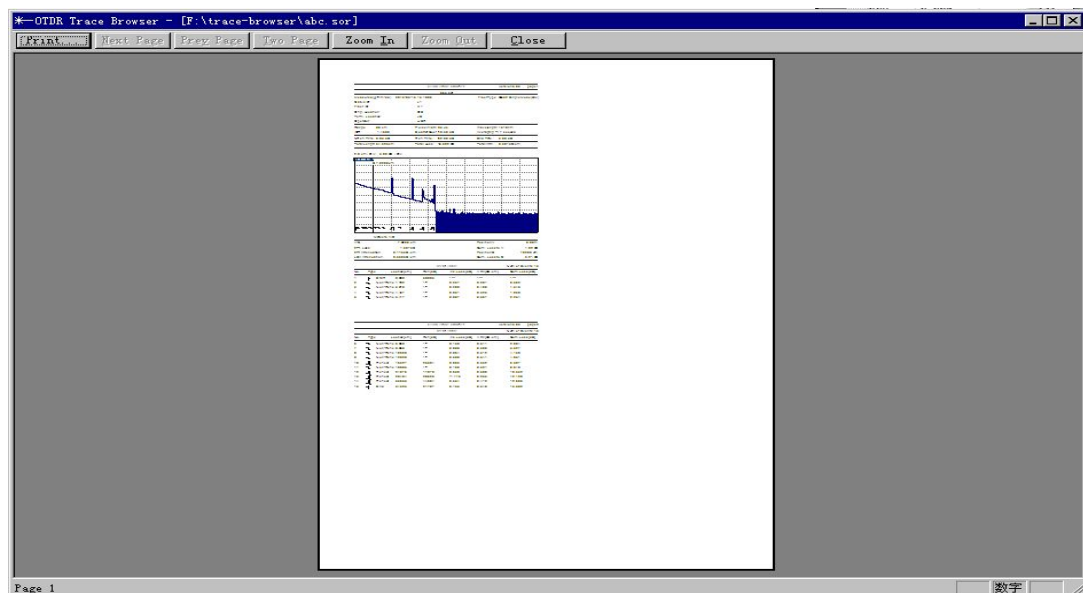


Figure 12-1 Print Preview of a Trace File

Clicking Button “Print” will enter the print setup interface:

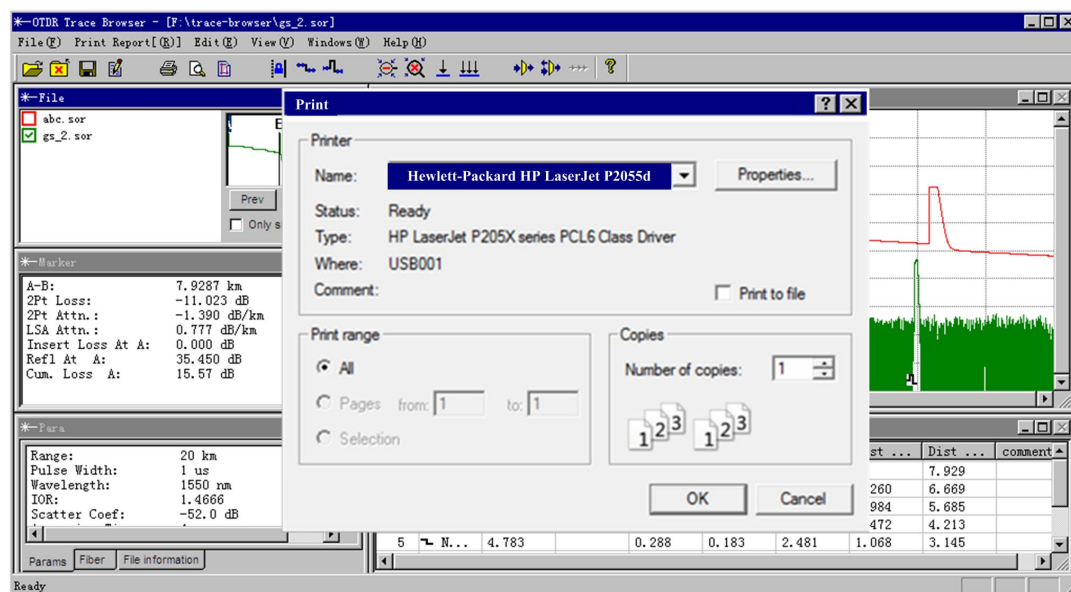


Figure 12-2 Print Setup

Clicking Button “OK” will output the selected trace report to the printer.

Note: Multiple files can be opened simultaneously in OTDR Trace Browser while print preview and print are only applicable to the currently activated trace file.

Batch print preview and batch print

Multiple files can be previewed and printed simultaneously by selecting submenu “Batch file print preview” and “Batch file print” in Menu “Print Report”. The batch files can be multiple files either opened via OTDR Trace Browser or be selected in the system. Selection of the source files is shown in the figure below:

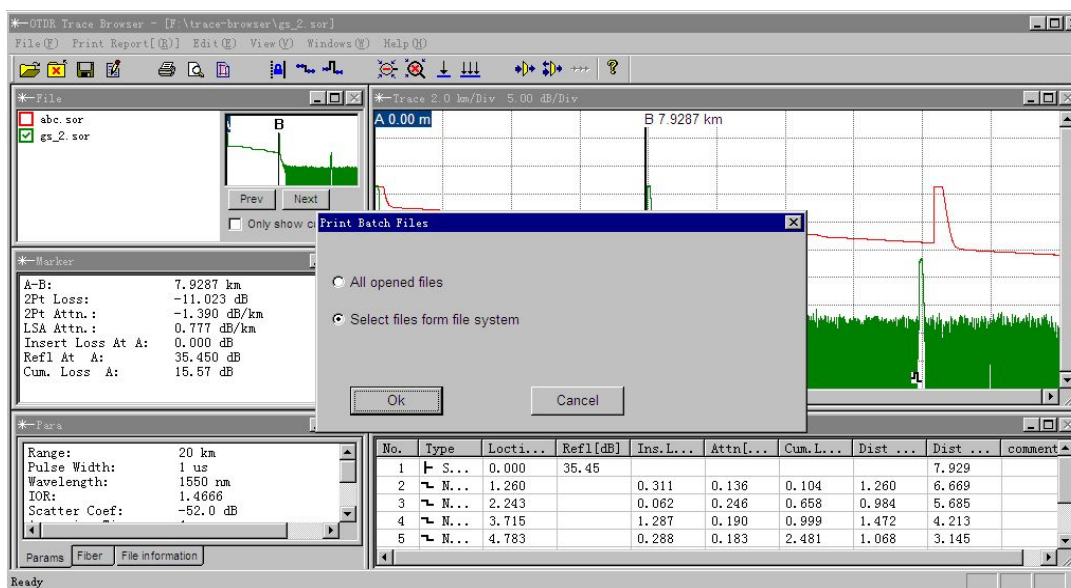


Figure 12-3 Batch Print Preview and Batch Print

The user can select multiple files in the disc simultaneously and then preview and print them as shown in the figure below.

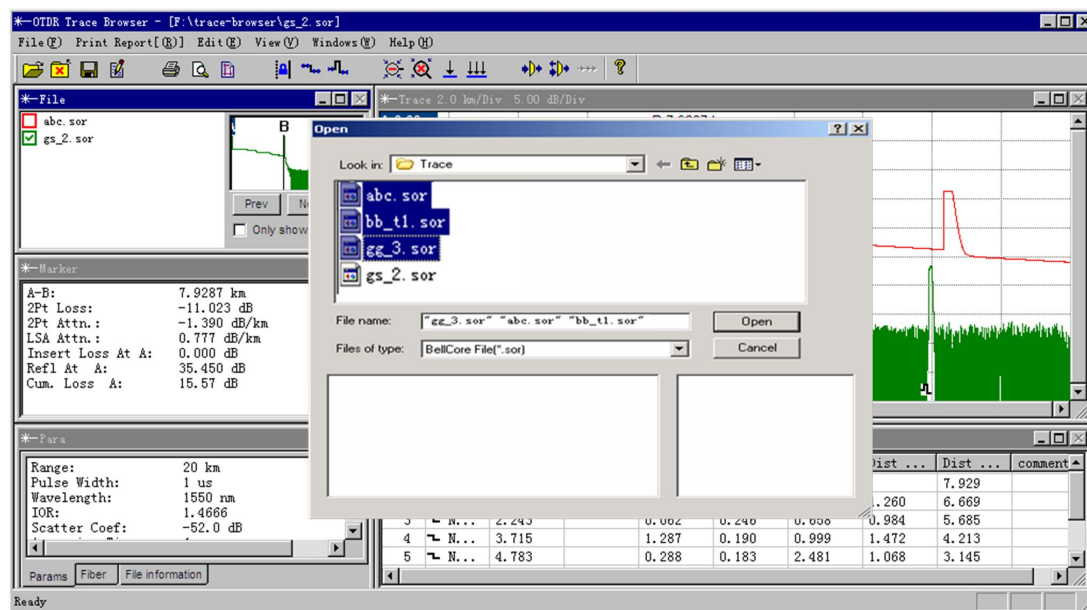


Figure 12-4 Select Source Files in the System

The output format of batch print preview is shown in the figure below.

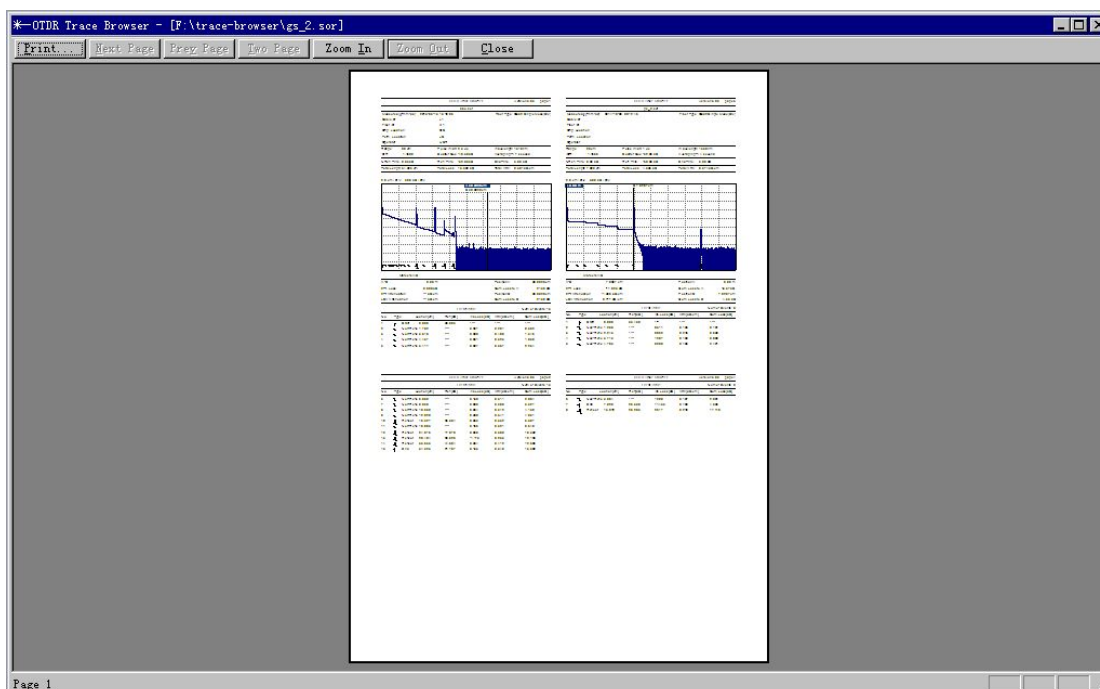


Figure 12-5 Batch Print Preview

Clicking Button “Print” will enter the print setup interface (Figure 12-2). Then clicking Button “OK” will output the selected trace report to the printer.

Report Format Setup

Selecting submenu “Report format setup” in Menu “Print Report” can setup the report format:

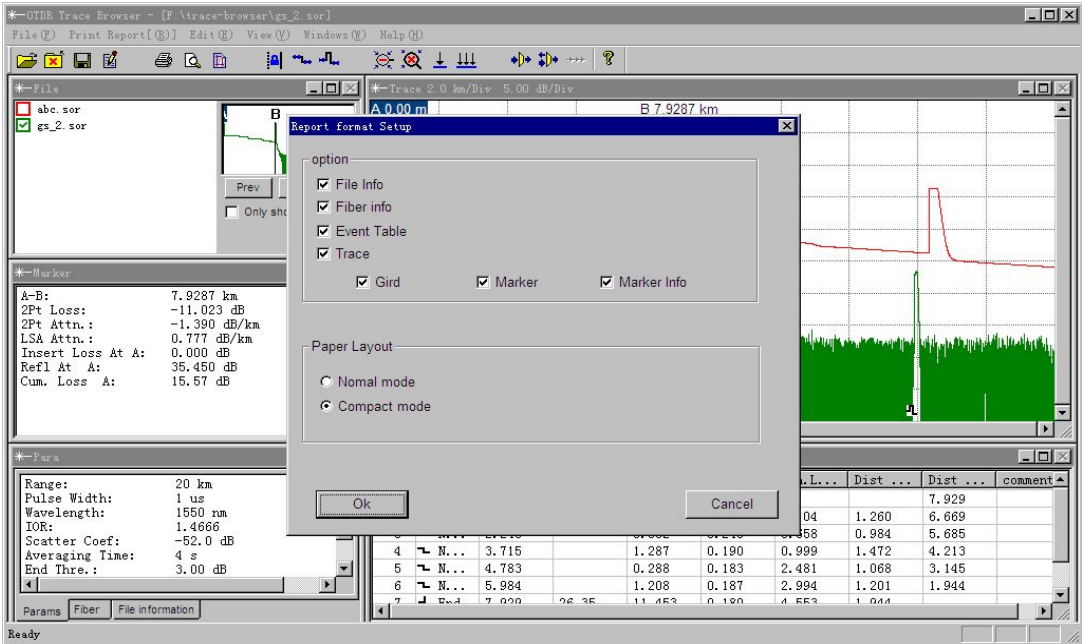


Figure 12-6 Report Format Setup

Print Setup

Select submenu “Printer setup” in Menu “Print Report” can setup the printer:

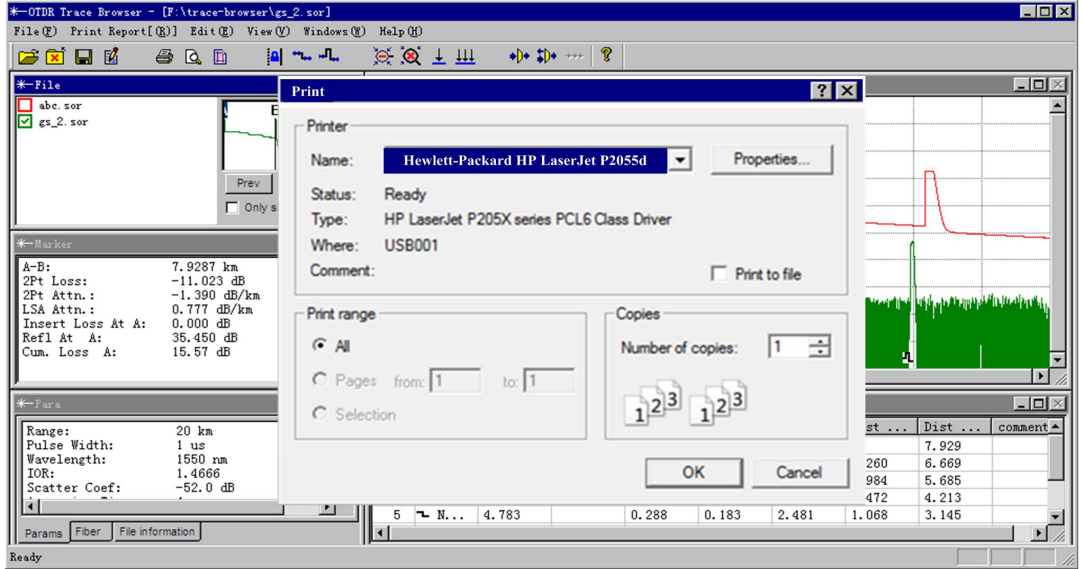


Figure 12-7 Print Setup

Clicking Button “OK” will output the trace report to the selected printer.