

Manual

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Install and Uninstall

1. Operation Environment

Operation System:

Windows XP or Windows 7(32 bit/64 bit)

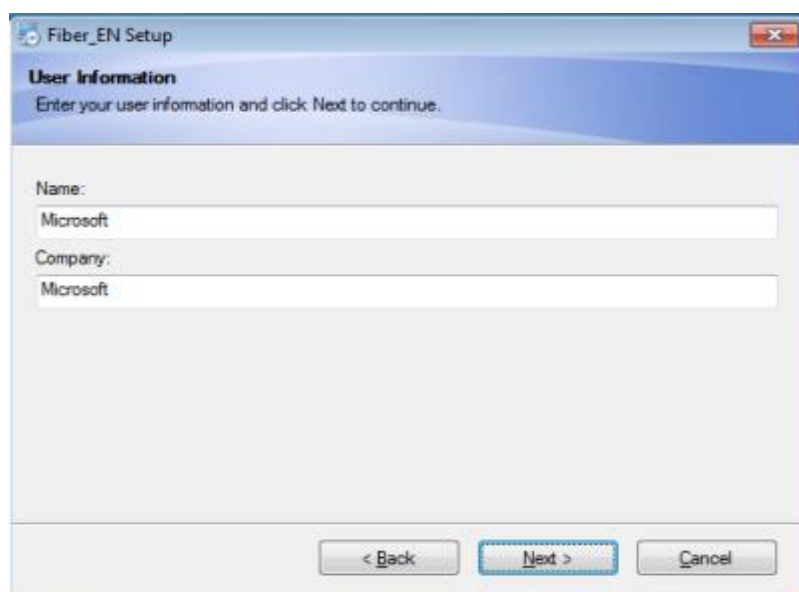
Programming Environment:

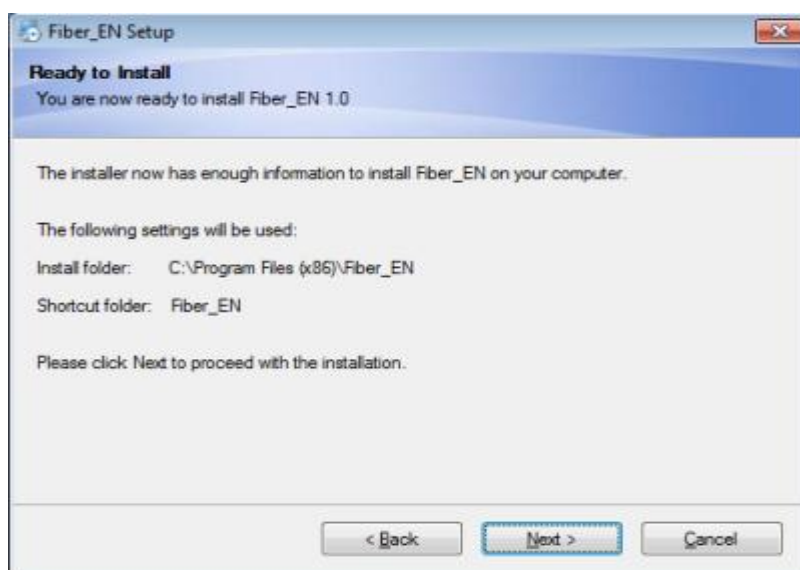
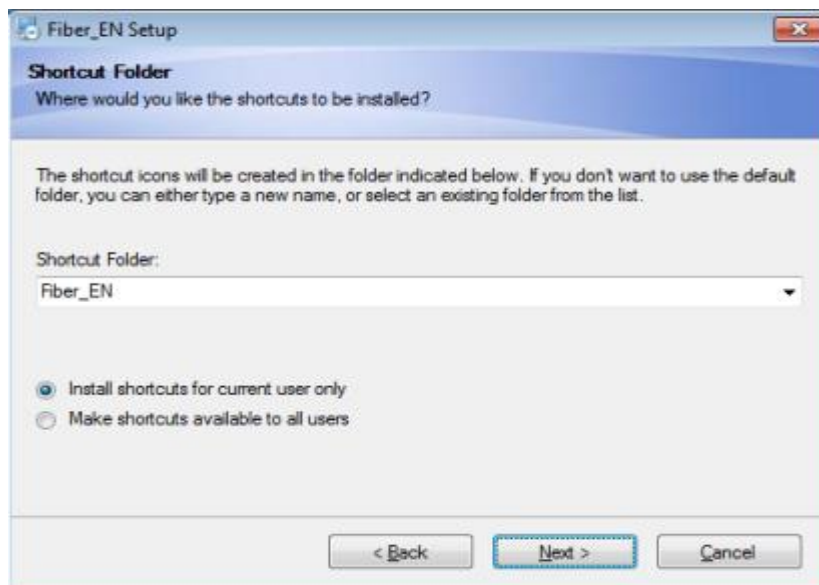
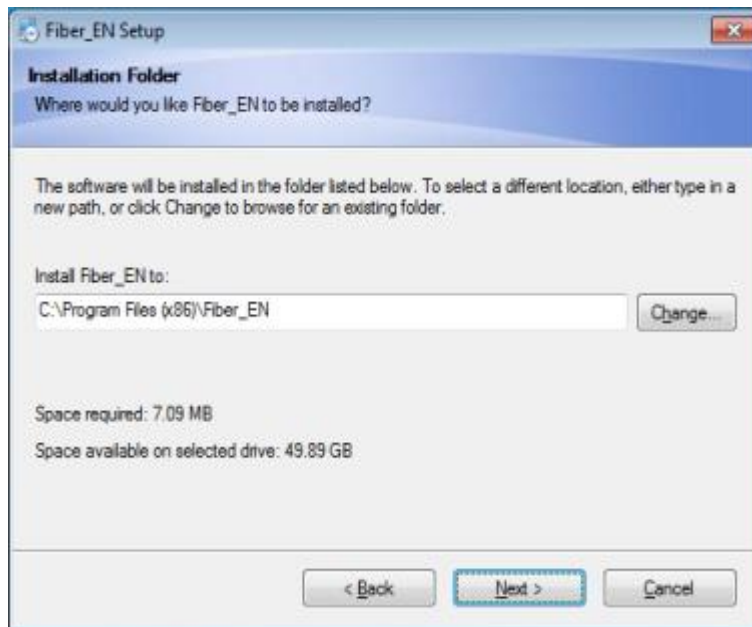
Microsoft .NET Framework 4

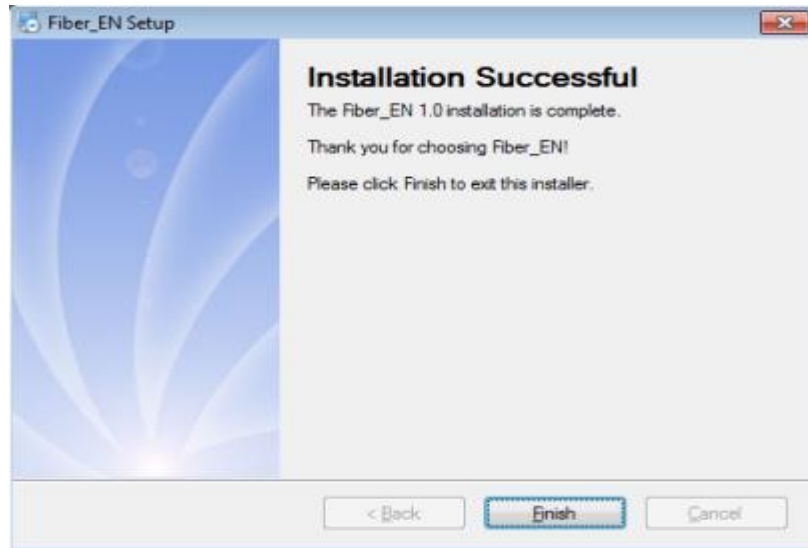
Note: Microsoft .NET Framework 4 Install Pack is available in file “dotNetFx40_Full_x86_x64.exe” in attached CD or download from Microsoft website

2. Install

Double click on the Fiber program Install Pack, the below screen will appear







3. Uninstall

There are two methods to uninstall the software if it has been installed.

- 1) Startup—Fiber—Uninstall Fiber
- 2) Startup—Control Panel—Add/Remove Programs—Choose Fiber—Click to delete

Start and Exit

1. Start

There are two methods to Start the software if it has been installed.

- 1) Desktop Shortcut
- 2) Startup—Programs—fiber—fiber.exe

2. Exit

- 1) File—Close
- 3) Click on the (X) in the upper right corner of your screen

Interface Layout

1. Menu

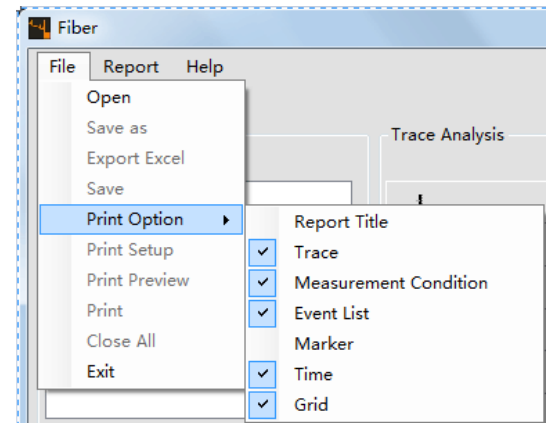
1) File

- a) Open
Open the trace file (*.sor), maximal six traces in one interface
- b) Save As
Save the edited trace as (*.sor) or (*.bmp) file
- c) Export Excel
Save the selected file as EXCEL file
- d) Save
Save the selected files
- e) Print Options
 - i. Report Title
 - 1. Input the info of the file to be printed
 - ii. Trace
 - 1. Choose ☒ to print Trace
 - iii. Measurement Condition
 - 1. Choose ☒ to print Measurement Condition
 - iv. Event List
 - 1. Choose ☒ to print Event List
 - v. Marker
 - 1. Choose ☒ to print Marker A or Marker B
 - vi. Time
 - 1. Choose ☒ to print Measurement Time
 - vii. Grid
 - 1. Choose ☒ to print Grid under trace
- f) Print Setup
- g) Print Preview
Preview the print effect of the selected file
- h) Print
Print the selected trace file
- i) Close All
Close all the working files
- j) Exit

2) Report

- a) Report
Open Report to batch print files

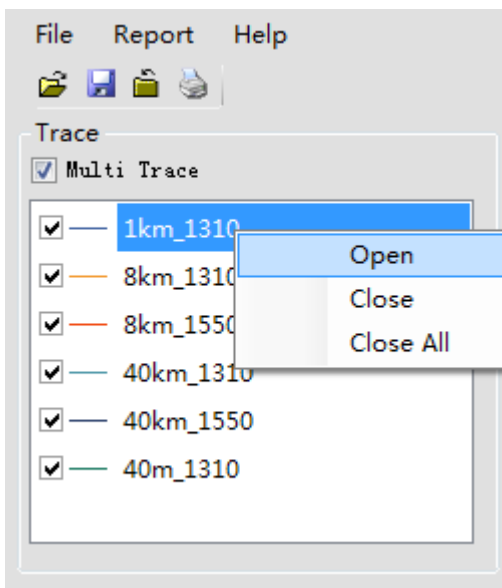
3) Help



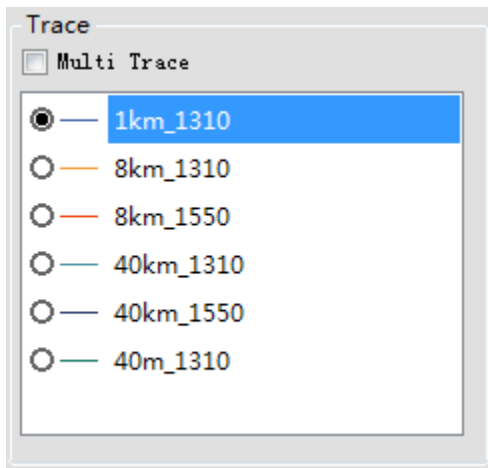
- a) Manual
Check the software manual
- b) Version
Check the software version

2. File List

- 1) Multi Trace
Present multiple traces in one interface
- 2) Selected Trace
 - a) Left click to select trace
The trace info like Measurement Condition, Marker, Event List will appear when the trace is selected, and Marker A and Marker B will be connected.
 - b) Right click to operate
 - i. Open: open new trace file
 - ii. Close: close the selected trace file
 - iii. Close All: close all the working files

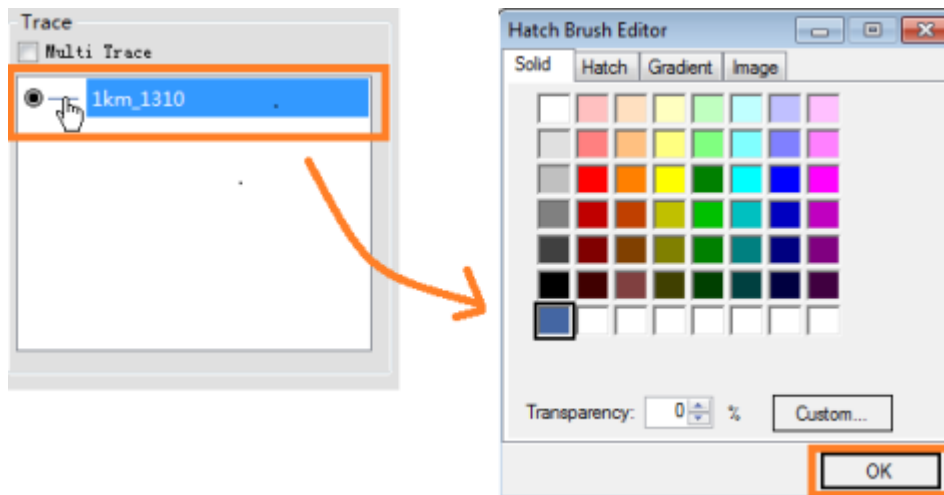


- 3) Non-Multi Trace
Present the selected one trace in the interface (click to select trace)



4) Change Trace Color

Double click (after a hand cursor appears) the file, the color box will pop up.



3. Measurement Condition

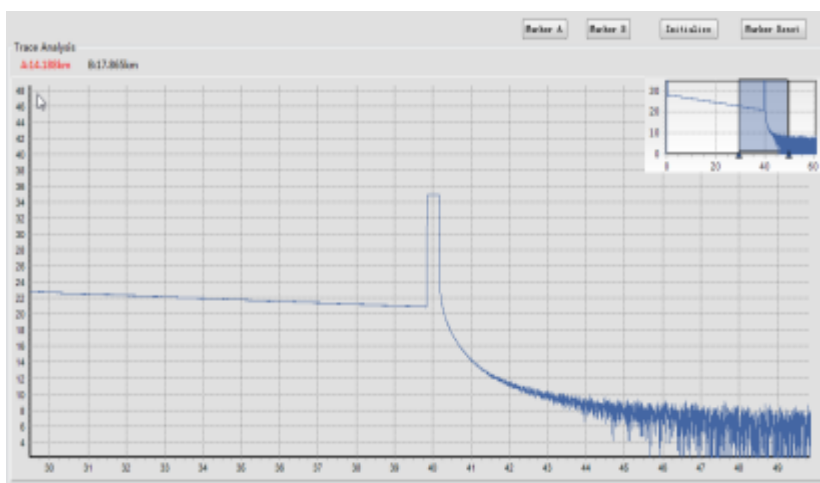
Measurement Condition	
Wavelength	1310nm
Pulse Width	25ns
Dist. Range	10km
Group Index	1.4677
Attenuation	0.3db
Average	15s
Backscatter	49.6
Reflectance	-63db
Fiber End	2db

4. Marker

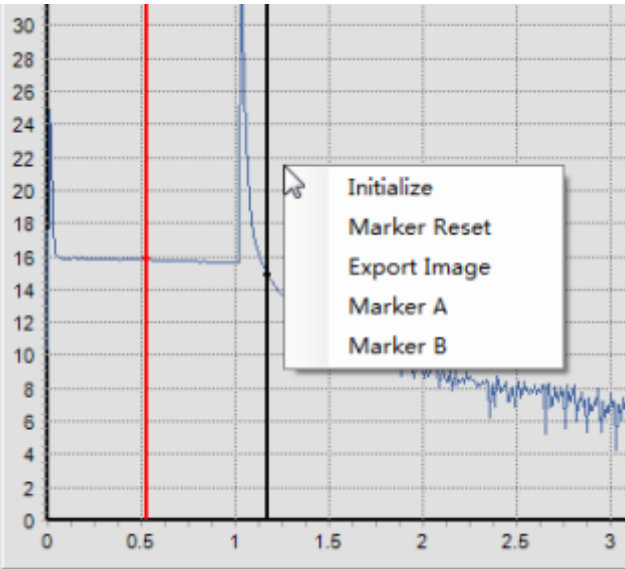
- 1) Distance: the distance between Marker A and Marker B
- 2) Loss: the difference between the Return Loss of Marker A and Marker B
- 3) Slope: The ratio of Loss and Distance between Marker A and Marker B

Marker	
Distance	3.676km
Loss	0.69db
Slope	0.1879db/km

5. Trace Analysis



- 1) Marker
The marker distance is displayed above the graph.
- 2) Buttons
 - a) Marker A: Set Marker A in the center of the graph
Marker B: Set Marker B in the center of the graph
 - b)
Initialize: Initialize the graph into 1:1 view
 - c)
Marker Reset: Reset Marker A and B at zero
- 3) Overall Trace
Display the overall trace (check [Trace Operation](#))
- 4) Right Click Shortcut Menu
Check [Trace Operation](#)



6. Event List

1) Listed Content

	Event No.	Event Type	Distance (km)	Splice Loss (dB)	Return Loss (dB)	Slope (dB/km)	Cumulative Loss (dB)
	1	Reflect	0.000	-0.062	-45.206	-, --	0.000
	2	M-Reflect	0.006	0.135	-45.206	-, --	-, --
	3	Reflect	1.019	-, --	-27.766	-, --	0.377
	4	End	1.048	0.000	-, --	-, --	-, --

2) Right Click Shortcut Menu

Right click on any event list, a shortcut menu will pop up. Please check Event Operation for relative actions, details in [Trace Operation](#).

	Event No.	Event Type	Distance (km)	Splice Loss (dB)	Return Loss (dB)	Slope (dB/km)	Cumulative Loss (dB)
	1	Reflect	0.000	-0.062	-45.206	-, --	0.000
	2	M-Reflect	0.006	0.135	-45.206	-, --	-, --
	3	Reflect	1.019	-, --	-27.766	-, --	0.377
	4	End	1.048	0.000	-, --	-, --	-, --

3) Mouse Operation

- a) Left Click
Select an event
- b) Right Click
Shortcut menu pops up
- c) Double Left Click
Locate MarkerA of the selected event in Trace Graph

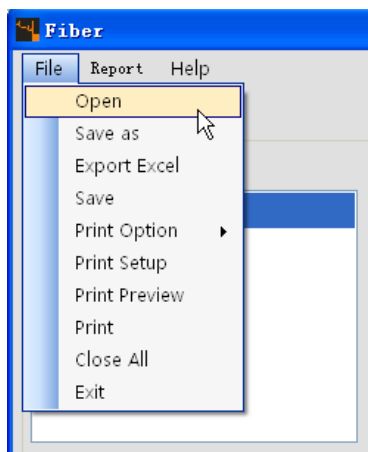
File Operation

1. Open

Maximal 6 traces are allowed to open in one interface

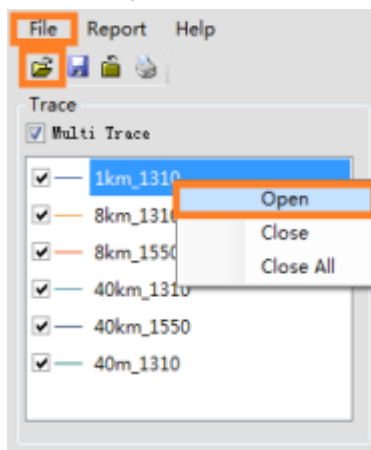
1)

File-Open

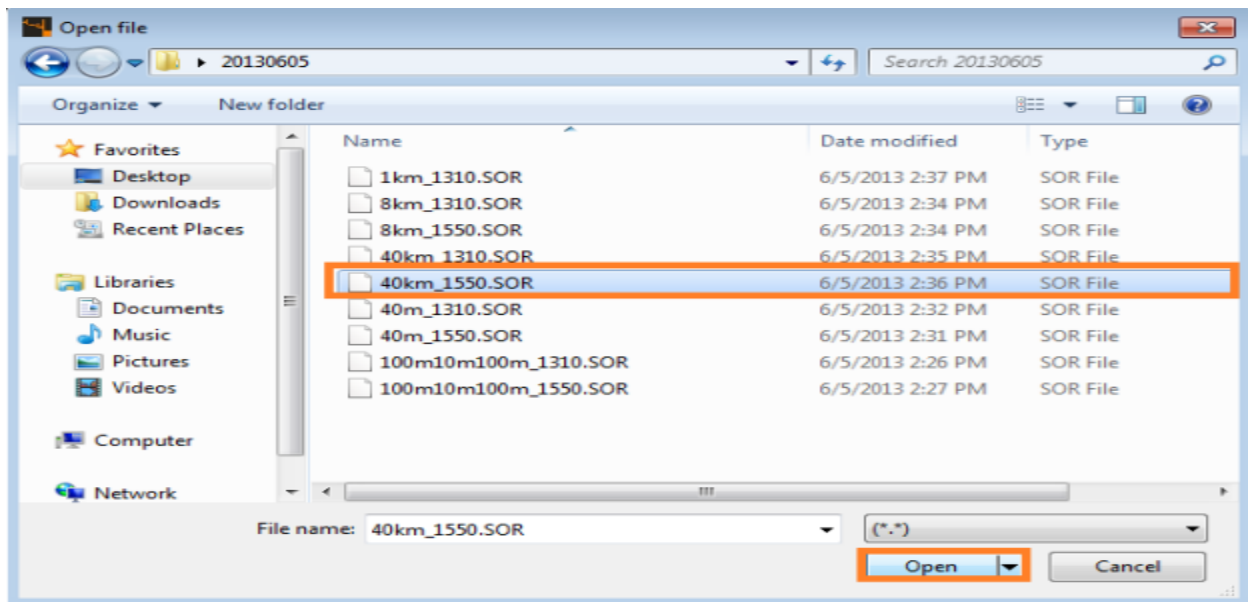


2)

Shortcut Open



3)



Menu-Open

2. Close

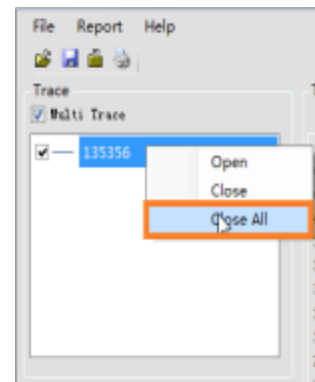
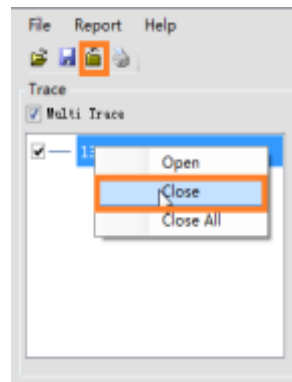
1) Close

- Right click on selected file, click on Close
- Click on Shortcut Close

2) Close All.

Close all working trace files

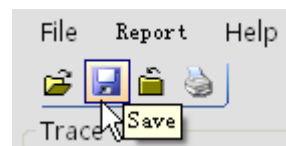
- File-Close All
- Right click on file-Close All



3. Save

Save the selected trace file

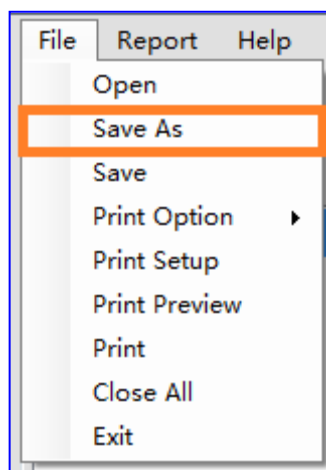
- File-Save
- Click on Shortcut Save

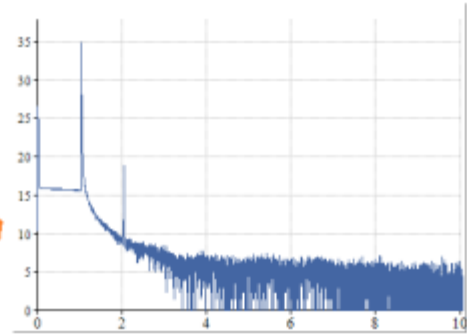
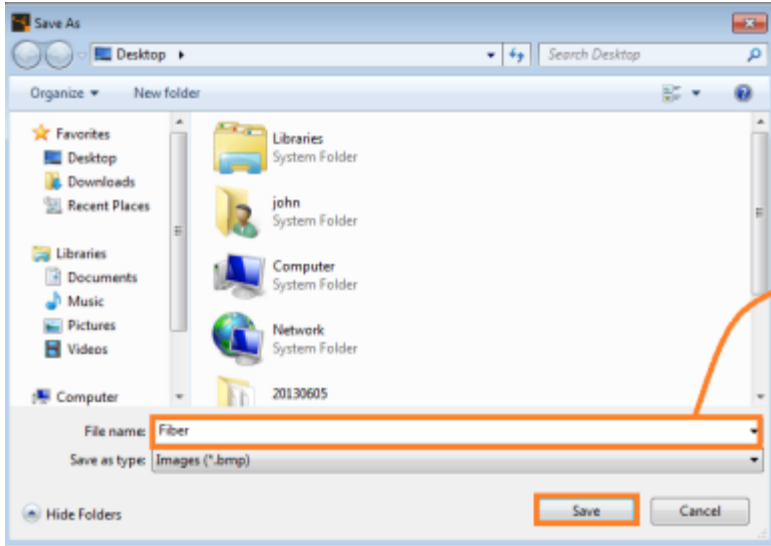


4. Save AS

Save the selected file as *.sor or *.bmp format.

- Sor
- Bmp





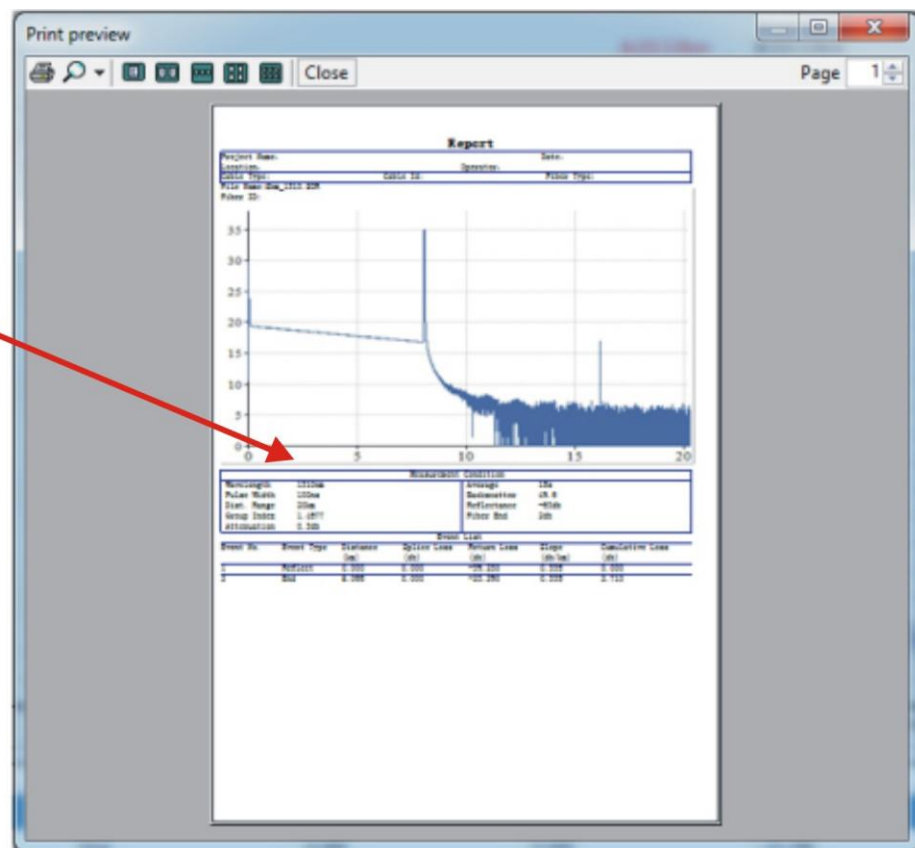
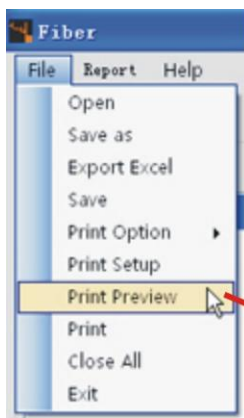
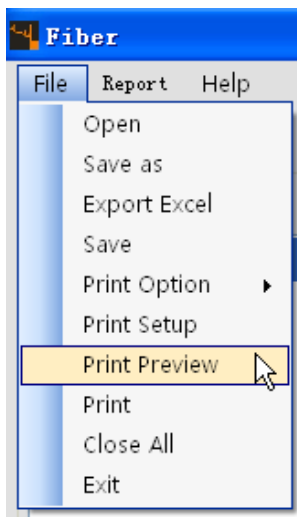
5. Print

Choose Report Title, Trace, Measurement Condition, Event List in Print Option after a trace file is selected for printing.

NOTE: In the print option, the Report Title including project name is editable. The Report Title will be print on the top of the report.

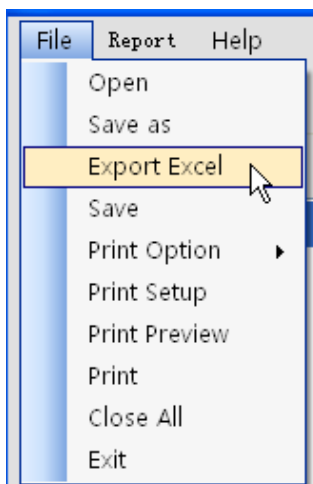
6. Print Preview

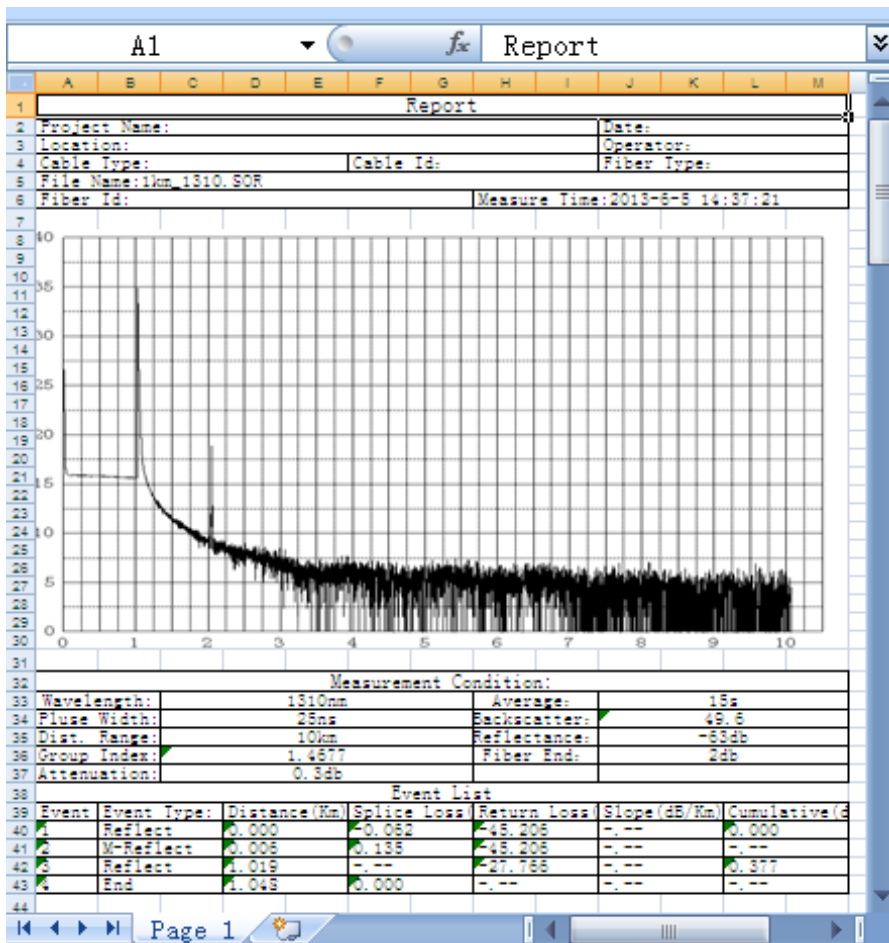
The print effect could be previewed after the file is selected.



7. Export EXCEL

Save the testing result as EXCEL format after the file is selected.



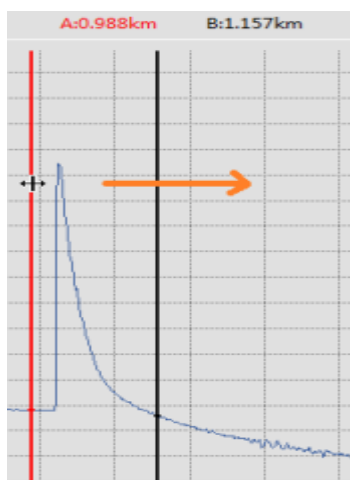


Trace Operation

1. Marker Operation

1) Move

Move the Mouse Cursor to the Marker, and the Arrow will changes into VSplitt cursor, left click and move the Marker



2) Locate

a)

Click on **Marker Reset** button, and locate Marker A and B at the 0 position

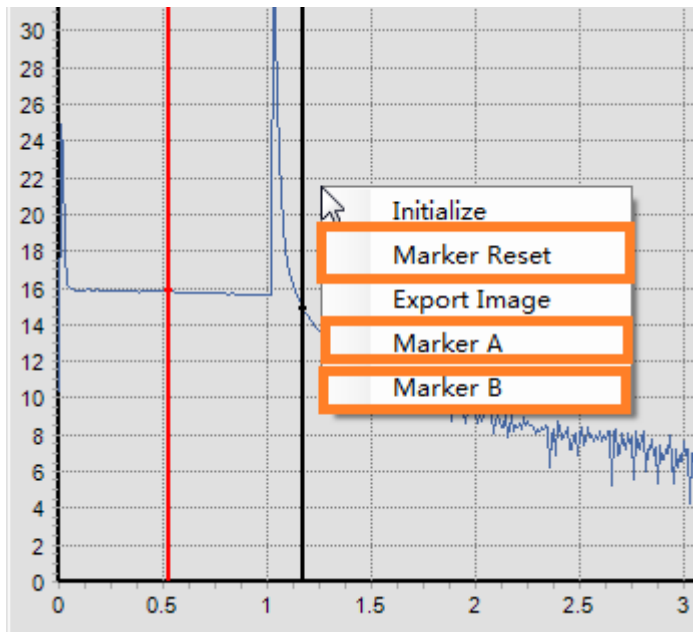
b)

Click on **Marker A** or **Marker B** to locate the marker in the center of the graph



c)

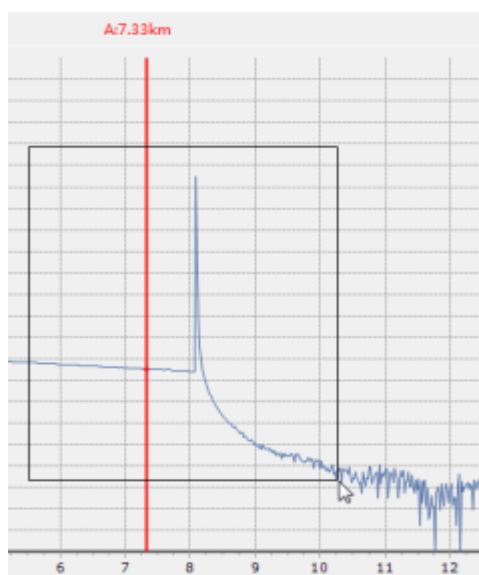
Right click on the trace graph, and then click on **Marker A**, **Marker B**, or **Marker Reset** in the Shortcut, the Marker A or B will move to the cursor position, or the 0 position.



2. Zoom-in and Resize

1) Zoom-in

To zoom in certain part in the trace graph, please long left click on the upper left corner of the target area and drag to the lower right corner, the selected square in the trace graph will be refreshed and zoomed in when mouse up.

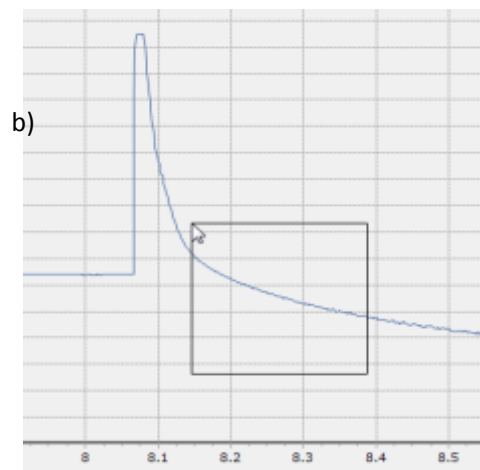


2) Resize

There are two methods to resize the graph:

a)

Click on any part of the graph and drag the cursor toward upper left, the graph will be resized when mouse up.

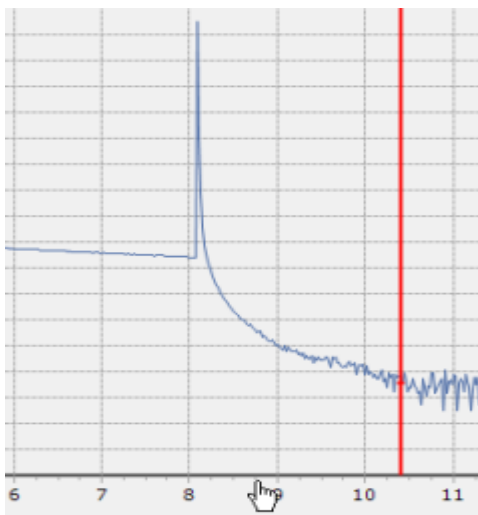


Click on Initialize button to resize the graph.



3. Horizontal Move

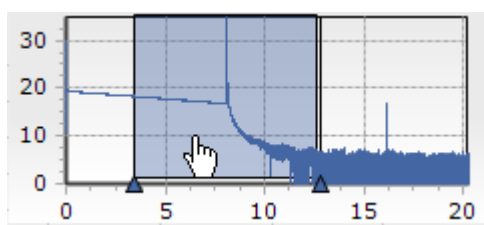
Locate the cursor on the horizontal axis, the arrow will become a hand, then left click and drag to move the graph horizontally.



4. Overall Trace

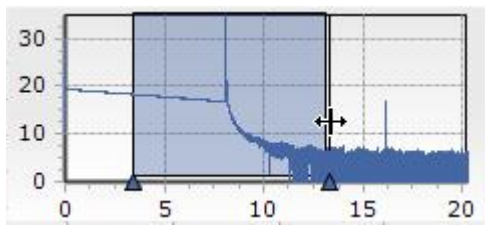
1) Horizontal Move

Place the cursor on the shallow in the display box, the arrow will become a hand, and then left click and drag to move the overall graph horizontally.



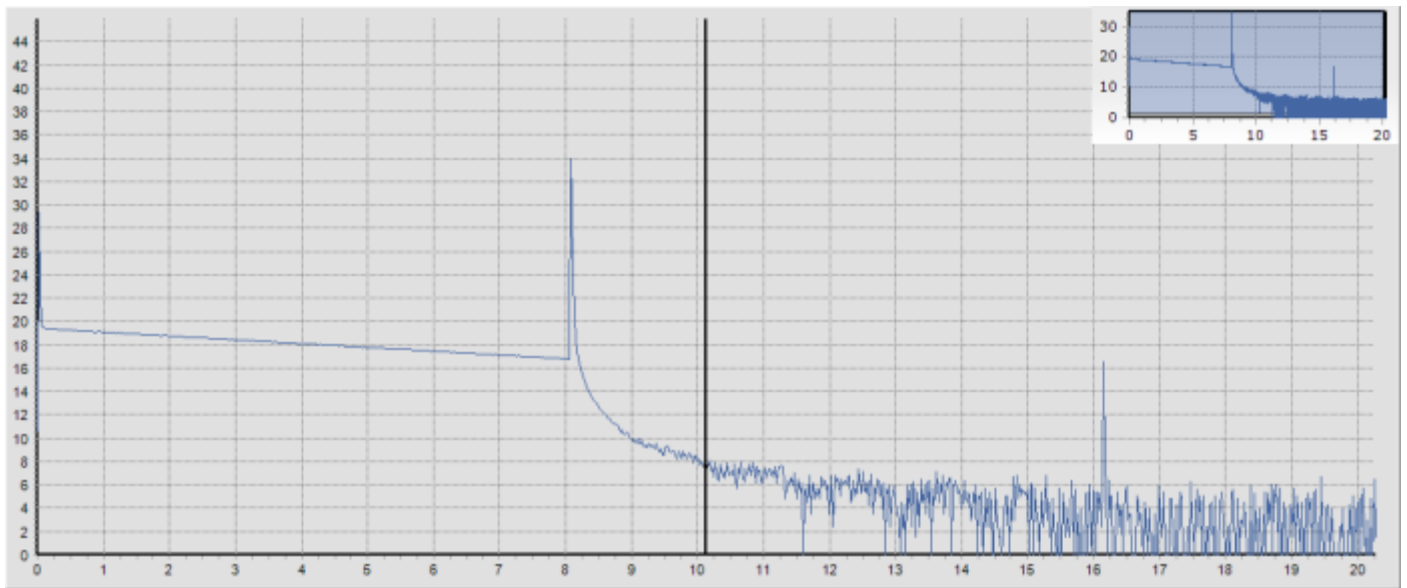
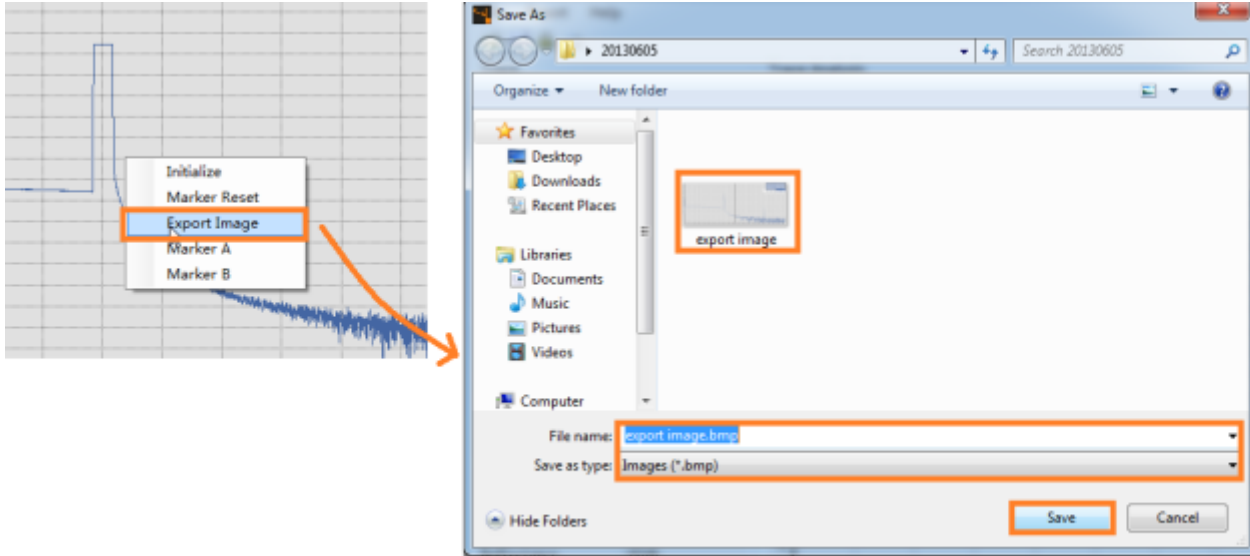
2) Horizontal Adjust

Place the cursor on the edge of the shallow in the display box, the arrow will become a VSlipt cursor, and then left click and drag horizontally to adjust the shallow.



5. Export Image

To save the zoomed graph or comparison graph, please export and save it in BMP format.



Event Operation

Right click on the event list, the below will appear:

	Event No.	Event Type	Distance (km)	Splice Loss (dB)	Return Loss (dB)	Slope (dB/km)	Cumulative Loss (dB)
▶	1	Reflect	0.000	-45.206	-45.206	--	0.000
	2	M-Reflect	0.006	-45.206	-45.206	--	--
	3	Reflect	1.019	-27.766	-27.766	--	0.377
	4	End	1.048	--	--	--	--

Event Delete
Event Insert
Event Edit
New Event

1. New Event

In the event list, right click to select New Event, a new event will be added at the end of the table. The Event Type and other parameters are editable in the pop-up dialog box. The default Distance is the Marker A position. Splice Loss, Return Loss, Slope, Cumulative loss could be edited.

Note: non-valid input will show error.

New Event

Event Type

Reflect

Distance

0.529

km

OK

Cancel

2. Event Insert

In the event list, right click to select Event Insert, a new event will be added before the selected event. The Event Type and other parameters are editable in the pop-up dialog box. The default Distance is the Marker A position. Splice Loss, Return Loss, Slope, Cumulative loss could be edited.

Note: non-valid input will show error.

Event Insert

Event Type

Reflect

Distance

0.529

km

OK

Cancel

3. Event Delete

Delete the selected event.

4. Event Edit

Right click on event to select Event Edit, the Event Type and other parameters will be editable.

	Event No.	Event Type	Distance (km)	Splice Loss (dB)	Return Loss (dB)	Slope (dB/km)	Cumulative Loss (dB)
▶	1	Reflect	0.000	1.3	-45.206	--	0.000
	2	M-Reflect	0.006	0.135	-45.206	--	--
	3	Reflect	1.019	--	-27.766	--	0.377
	4	End	1.048	0.000	--	--	--

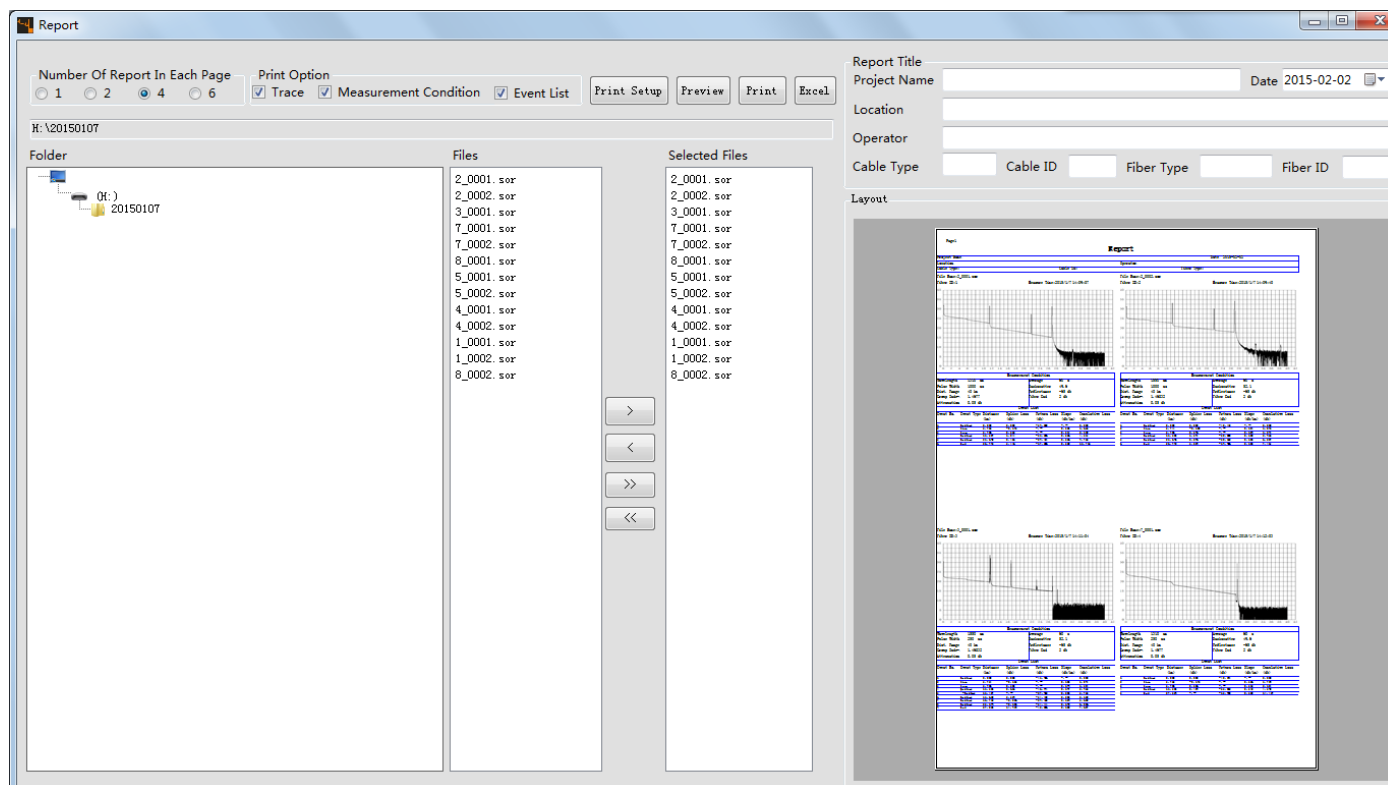
	Event No.	Event Type	Distance (km)	Splice Loss (dB)	Return Loss (dB)	Slope (dB/km)	Cumulative Loss (dB)
▶	1	Reflect	0.000	-45.206	-45.206	--	0.000
	2	M-Reflect	0.006	-45.206	-45.206	--	--
	3	Reflect	1.019	-27.766	-27.766	--	0.377
	4	End	1.048	--	--	--	--

Event Delete
Event Insert
Event Edit
New Event

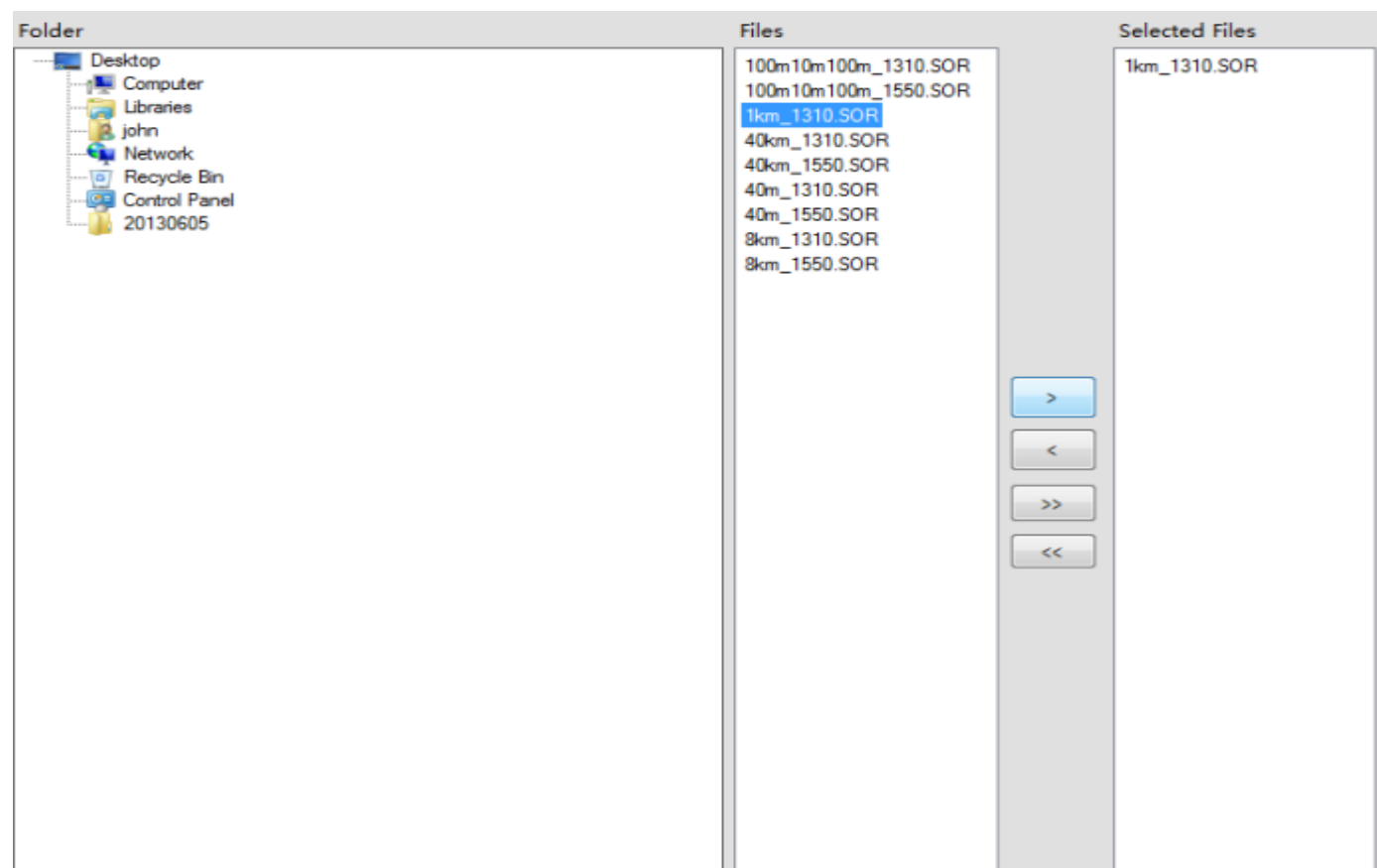
Report

Click on Report, the report window will open and batch-printing of reports is available.

1. Batch Print



2. Select File



3. Print Option and Layout

Number Of Report In Each Page

☐ 1 ☐ 2 ☒ 4 ☐ 6

Print Option

☒ Trace ☒ Measurement Condition ☒ Event List

4. Report Title

Report Title

Project Name

Date

2013-09-12

Location

Operator

Cable Type

Cable ID

Fiber Type

Fiber ID

5. Export to EXCEL

Number Of Report In Each Page

☐ 1 ☐ 2 ☒ 4 ☐ 6

Print Option

☒ Trace ☒ Measurement Condition ☒ Event List

Print Setup

Preview

Print

Excel