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Microwave Laboratory 320F, 357S

How to “Screen Dump”

These instructions are for **downloading the Network Analyzer** traces to the Dell computers.

NOTE: The computers in GB450 are **NOT** connected to the internet.

The Agilent 8712ET Vector Network Analyzers (VNA) are connected to the Dell computer via a LAN. There are two VNA's connected to each computer.

There are eight stations in GB450 marked 'A' through 'H', these correspond to the Groups 'A' through 'H' designated on the computers. GB450Comp1 is GroupA_B, GB450Comp2 is GroupC_D, GB450Comp3 is GroupE_F and GB450Comp4 is GroupG_H.

1. Logon to a computer as GroupA_B, GroupC_D, GroupE_F or GroupG_H. There is a temporary password posted on the computer screen.
2. Setup the trace on the VNA(s) that you wish to transfer.
3. Each group should start Microsoft Internet Explorer. There should be two Explorer windows open.
4. If you only require a screen capture type in the following in the address line of Explorer, 'http://VNA IP address. The IP address of the VNA you are using is written on top of the VNA.
5. A screen will come up showing the HP8712E Network Analyzer. Click on 'Get a current screen snapshot'. Click on 'File' then 'Save as' and save the file as a html file on the USB card.
6. After changing the display on the VNA, press 'refresh' to view the new screen on the PC.

These instructions are for **downloading the oscilloscope traces** to the Dell computers.

The Agilent DSO3202A oscilloscopes are connected to the Dell computer via a USB port. There are two oscilloscopes connected to each computer.

1. Click on the DSO3000 Icon.
2. A window will come up titled '3000 Series Scope Connect Software'.
3. Click on Tools on the top row Menu.
4. Click on Options.
5. Click on Communication Setting.
6. If you are in Groups A, C, E or G set USB device to 0.
7. Press OK.

8. For Groups B, D, F, or H, again click on the DSO3000 Icon.
9. A second window will come up titled '3000 Series Scope Connect Software'.
10. In the second window, click on Tools on the top row Menu.
11. Click on Options.
12. Click on Communication Setting.
13. Set USB device to 1.
14. Press OK.

At this point you should setup the waveforms on the oscilloscopes that you wish to save to the computer. When the waveforms are setup do the following;

1. In the appropriate '3000 Series Scope Connect Software' window (depending on the group you are in), click on Tools.
2. Click on 'Connect to Oscilloscope'.
3. This is done for each '3000 Series Scope Connect Software' window so that both scopes are connected to the computer.

At this point there should be a red 'RMT' in the top right hand corner of the oscilloscope.

Inside the '3000 Series Scope Connect Software' window there are three windows;

1. One shows a picture of the oscilloscope CRT (Waveform 0),
2. The second shows the trace parameters (Measurement 0),
3. The third shows a spreadsheet window (Data 0).

For this experiment the Measurement 0 window is not required and the spreadsheet window is not required. Remove these windows by clicking on 'X' in the top right hand corner of each window. To observe the current trace on the oscilloscope press 'Refresh' in the Waveform 0 window.

The window information can be downloaded to the computer by pressing 'Export' located in the top right-hand side of each window. The Waveform 0 window is saved as a .bmp file and the

Save each file to the USB Memory card.

In the bottom left hand side of the '3000 Series Scope Connect Software' window click on the 'Show Virtual Panel'. A window showing the front panel of the oscilloscope will appear. All oscilloscope functions can be controlled from this panel.

If you do not use the Virtual Panel you will have to disconnect the oscilloscope from the computer by pressing 'Tools' and then pressing 'Disconnect' each time you wish to adjust the oscilloscope.