

IV-4 Management

Information Network Settings Wireless Settings **Management** Advanced Operation Mode

(Configurable for AP Mode only)

IV-4-1 Admin

You can change the password used to login to the browser-based configuration interface here. It is advised to do so for security purposes.

 ***If you change the administrator password, please make a note of the new password. In the event that you forget this password and are***

unable to login to the browser based configuration interface, see 0

Account to Manage This Device

Administrator Name	admin		
Administrator Password		(4-32Characters)	
		(Confirm)	

Apply

Account to Manage This Device	
Administrator Name	Set the access point’s administrator name. This is used to log in to the browser based configuration interface and must be between 4-16 alphanumeric characters (case sensitive).
Administrator Password	Set the access point’s administrator password. This is used to log in to the browser based configuration interface and must be between 4-32 alphanumeric characters (case sensitive).

Press “Apply” to apply the configuration.

Advanced Settings	
Product Name	AP801F02F1968A
HTTP Port	80 (80, 1024-65535)
HTTPS Port	443 (443, 1024-65535)
Management Protocol	☒ HTTP ☒ HTTPS ☒ TELNET ☐ SSH ☒ SNMP
Login Timeout	5 (mins)
SNMP Version	v1/v2c
SNMP Get Community	public
SNMP Set Community	private
SNMP V3 Name	admin
SNMP V3 Password	
SNMP Trap	Disabled
SNMP Trap Community	public
SNMP Trap Manager	
Apply	

Advanced Settings	
Product Name	Edit the product name according to your preference consisting of 1-32 alphanumeric characters. This name is used for reference purposes.
Management Protocol	Check/uncheck the boxes to enable/disable specified management interfaces (see below). When SNMP is enabled, complete the SNMP fields below.
SNMP Version	Select SNMP version appropriate for your SNMP manager.
SNMP Get Community	Enter an SNMP Get Community name for verification with the SNMP manager for SNMP-GET requests.
SNMP Set Community	Enter an SNMP Set Community name for verification with the SNMP manager for SNMP-SET requests.
SNMP Trap	Enable or disable SNMP Trap to notify SNMP manager of network errors.
SNMP Trap	Enter an SNMP Trap Community name for verification with

Community	the SNMP manager for SNMP-TRAP requests.
SNMP Trap Manager	Specify the IP address or sever name (2-128 alphanumeric characters) of the SNMP manager.

HTTP

Internet browser HTTP protocol management interface

TELNET

Client terminal with telnet protocol management interface

SNMP

Simple Network Management Protocol. SNMPv1, v2 & v3 protocol supported. SNMPv2 can be used with community based authentication. SNMPv3 uses user-based security model (USM) architecture.

Press “Apply” to apply the configuration.

IV-4-2 Date and Time

Configure the date and time settings of the access point here. The date and time of the device can be configured manually or can be synchronized with a time server.

Date and Time Settings

Local Time

▼

Year

Jan

▼

Month

1

▼

Day

0

▼

Hours

00

▼

Minutes

00

▼

Seconds

Acquire Current Time from Your PC

NTP Time Server

Use NTP

☐ Enable

Auto Daylight Saving

☒ Enable

Server Name

User-Defined ▼

Update Interval

24 (Hours)

Time Zone

(GMT+08:00) Taipei, Taiwan ▼

Apply

Cancel

Date and Time Settings	
Local Time	Set the access point’s date and time manually using the drop down menus.
Acquire Current Time from your PC	Click “Acquire Current Time from Your PC” to enter the required values automatically according to your computer’s current time and date.

NTP Time Server	
Use NTP	The access point also supports NTP (Network Time Protocol) for automatic time and date setup.
Server Name	Enter the host name or IP address of the time server if you wish.
Update Interval	Specify a frequency (in hours) for the access point to update/synchronize with the NTP server.

Time Zone	
Time Zone	Select the time zone of your country/region. If your country/region is not listed, please select another country/region whose time zone is the same as yours.

Press “Apply” to apply the configuration, or “Cancel” to forfeit the changes.

IV-4-3 Syslog Server

The system log can be sent to a server.

The image shows two configuration windows. The top window, titled "Syslog Server Settings", has a "Transfer Logs" section with a checkbox labeled "Enable Syslog Server" and an adjacent text input field. The bottom window, titled "Syslog E-mail Settings", contains several fields: "E-mail Logs" with a checkbox, "E-mail Subject", "SMTP Server Address", "SMTP Server Port", "Sender E-mail", "Receiver E-mail", and "Authentication" with a dropdown menu currently set to "Disable". Both windows have "Apply" and "Cancel" buttons at the bottom right.

Syslog Server Settings	
Transfer Logs	Check the box to enable the use of a syslog server. Enter a host name, domain or IP address for the server, consisting of up to 128 alphanumeric characters.

Syslog E-mail Settings	
E-mail Logs	Check the box to enable/disable e-mail logs.
E-mail Subject	Specify the subject line of log emails.
SMTP Server Address	Specify the SMTP server address used to send log emails.
SMTP Server Port	Specify the SMTP server port used to send log emails.
Sender E-mail	Specify the sender email address.
Receiver E-mail	Specify the email to receive log emails.
Authentication	Disable or select authentication type: SSL or TLS. When using SSL or TLS, enter the username and password.

Press “Apply” to apply the configuration, or “Cancel” to forfeit the changes.

IV-4-4 Ping Test

The access point includes a built-in ping test function. Ping is a computer network administration utility used to test whether a particular host is reachable across an IP network and to measure the round-trip time for sent messages.

Ping Test

Destination Address

Execute

Result

Destination Address	Enter the address of the host.
Execute	Click “Execute” to ping the host.

IV-4-5 I'm Here

The access point features a built-in buzzer which can sound on command using the “I’m Here” page. This is useful for network administrators and engineers working in complex network environments to locate the access point.

I'm Here

Duration of Sound

Duration of Sound

10

(1-300 seconds)

Sound Buzzer



The buzzer is loud!

Duration of Sound	Set the duration for which the buzzer will sound when the “Sound Buzzer” button is clicked.
Sound Buzzer	Activate the buzzer sound for a duration specified above.

IV-5 Advanced

Information

Network Settings

Wireless Settings

Management

Advanced

Operation Mode

IV-5-1 LED Settings

The access point’s LEDs can be manually enabled or disabled according to your preference.

LED Settings

Power LED	☒ On ☐ Off
2.4GHz LED	☒ On ☐ Off
5GHz LED	☒ On ☐ Off
Diag LED	☒ On ☐ Off

Apply

Cancel

Power LED	Select on or off.
2.4GHz LED	Select on or off.
5GHz LED	Select on or off.
Diag LED	Select on or off.

IV-5-2 Update Firmware

The “Firmware” page allows you to update the firmware of the system. Updated firmware versions often offer increased performance and security, as well as bug fixes. Download the latest firmware from the Edimax website.

Firmware Location

Update firmware from

☒ Auto
☐ a file on your PC

Auto Update Firmware

Current Firmware Version0.11.0

Server Firmware Version

Check



Do not switch off or disconnect the access point during a firmware upgrade, as this could damage the device.

Firmware Location: Auto	
Current Firmware Version	Displays current firmware version.
Server Firmware Version	Displays available firmware version on the server.
Status	Displays availability of firmware.
Check	Click to check available firmware version.

Auto Update Firmware

Current Firmware Version0.11.0

Server Firmware Version

StatusNo Internet Connection / No Firmware Matched

Check

Firmware Location: a file on your PC	
Firmware Update File	Click “Choose File” to select firmware from your PC.
Update	Click to update the firmware.

Update Firmware from PC

Firmware Update File

Choose File

No file chosen

Update

IV-5-3 Save / Restore Settings

The device's "Save / Restore Settings" page enables you to save / backup the device's current settings as a file to your local computer, and restore the device to previously saved settings.

Save/Restore Method

[Using Device](#) ☒ Using your PC

Save Settings to PC

[Save Settings](#) ☐ Encrypt the configuration file with a password.

Restore Settings from PC

[Restore Settings](#) No file chosen
☐ Open file with password.

Save Settings to PC

Save Settings

Encryption: If you wish to encrypt the configuration file with a password, check the "Encrypt the configuration file with a password" box and enter a password. Click "Save" to save current settings. A new window will open to allow you to specify a location to save to.

Restore Settings from PC

Restore Settings

Click the "Choose File" button to find a previously saved settings file on your computer. If your settings file is encrypted with a password, check the "Open file with password" box and enter the password in the following field. Click "Restore" to replace your current settings.

IV-5-4 Factory Default

If the access point malfunctions or is not responding, rebooting the device (IV-5-5 Reboot) maybe an option to consider. If rebooting does not work, try resetting the device back to its factory default settings. You can reset the access point back to its default settings using this feature if the reset button is not readily accessible.

This will restore all settings to factory defaults.

Factory Default

Factory Default	Click “Factory Default” to restore settings to the factory default. A pop-up window will appear and ask you to confirm.
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After resetting to factory defaults, please wait for the access point to reset and restart.

IV-5-5

Reboot

If the access point malfunctions or is not responding, rebooting the device may be an option to consider. You can reboot the access point remotely using this feature.

This will reboot the product. Your settings will not be changed. Click "Reboot" to reboot the product now.

Reboot

Reboot	Click “Reboot” to reboot the device. A countdown will indicate the progress of the reboot.
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IV-6 Operation Mode



The access point can function in five different modes. Set the operation mode of the access point here.

1. AP Mode: The device acts as a standalone access point
2. Repeater Mode: The device acts as a wireless repeater (also called wireless range extender) that takes an existing signal from a wireless router or wireless access point and rebroadcasts it to create a second network.
3. Managed AP Mode: The device acts as a slave AP within an AP array.
4. Client Bridge Mode: The device is now a client bridge. The client bridge receives wireless signal and provides it to devices connected to the bridge (via Ethernet cable).

Operation Mode	
Operation Mode	AP Mode ▼

Wireless Mode	
2.4GHz Mode	Access Point ▼
5GHz Mode	Access Point ▼

Apply Cancel

- AP Mode ▼
- AP Mode
 - Repeater Mode
 - Managed AP mode
 - Client Bridge Mode



In Managed AP mode some functions of the access point will be disabled in this user interface and must be set using Edimax Pro NMS on the AP Controller.

Press “Apply” to apply the configuration, or “Cancel” to forfeit the changes.

V Appendix

V-1 Configuring your IP address

The access point uses the default IP address **192.168.2.2**. In order to access the browser based configuration interface, you need to modify the IP address of your computer to be in the same IP address subnet e.g. **192.168.2.x (x = 3 – 254)**.

The procedure for modifying your IP address varies across different operating systems; please follow the guide appropriate for your operating system.

In the following examples we use the IP address **192.168.2.10** though you can use any IP address in the range **192.168.2.x (x = 3 – 254)**.



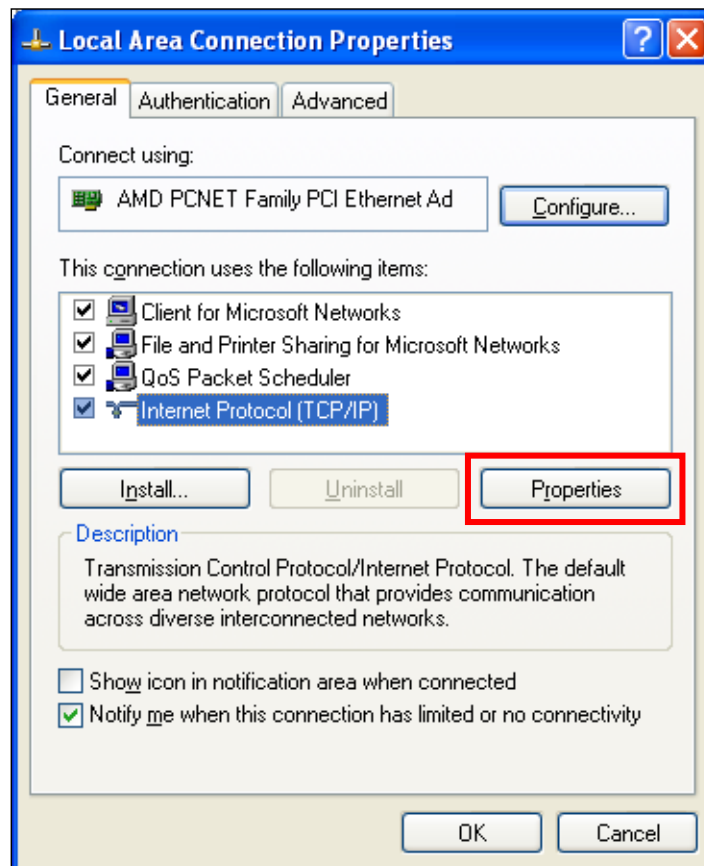
If you've changed the AP Controller's IP address, or if your gateway/router uses a DHCP server, make sure you enter the correct IP address. Refer to your gateway/router's settings. Your computer's IP address must be in the same subnet as the AP Controller.



If using a DHCP server on the network, it is advised to use your DHCP server's settings to assign the AP Controller a static IP address.

V-1-1 Windows XP

1. Click the “Start” button (it should be located in the lower-left corner of your computer) → “Control Panel” → “Network and Internet Connections” → “Network Connections” → “Local Area Connection”. The “Local Area Connection Properties” window will appear, select “Internet Protocol (TCP / IP)”, and click “Properties”.

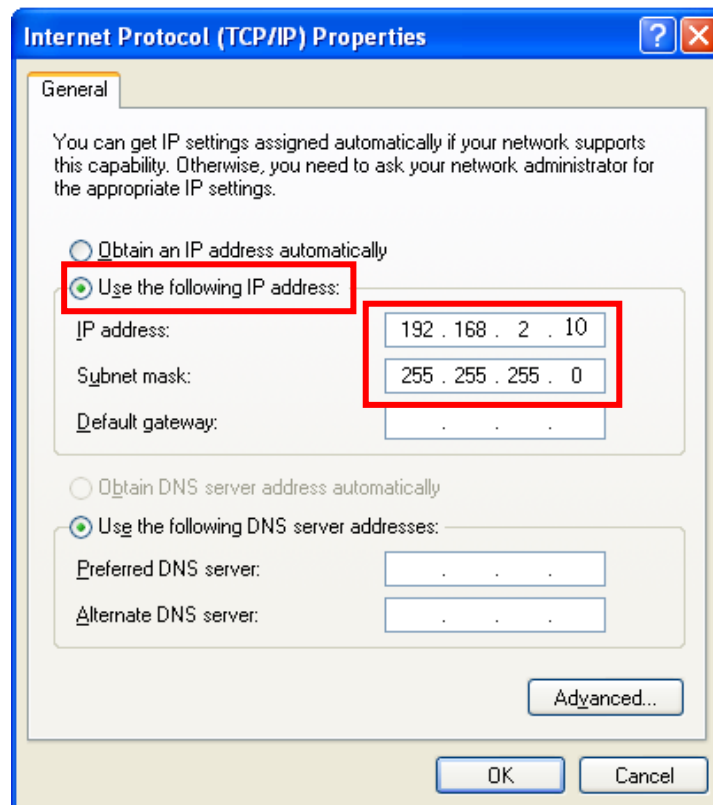


2. Select “Use the following IP address”, then input the following values:

IP address: 192.168.2.10

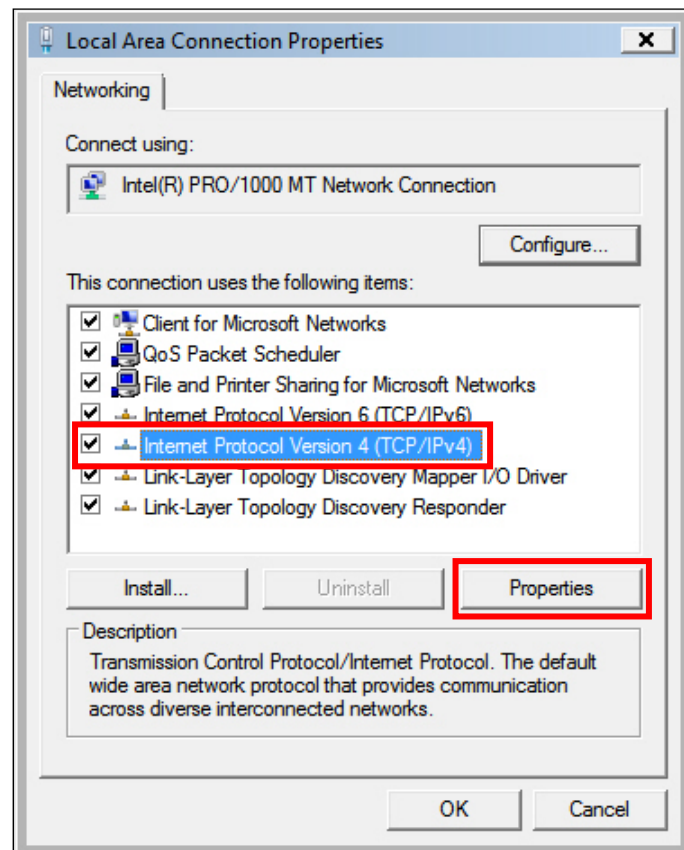
Subnet Mask: 255.255.255.0

Click ‘OK’ when finished.



V-1-2 Windows Vista

1. Click the “Start” button (it should be located in the lower-left corner of your computer) → “Control Panel” → “View Network Status and Tasks” → “Manage Network Connections” → “Local Area Network” → “Properties”. The “Local Area Connection Properties” window will appear, select “Internet Protocol Version 4 (TCP / IPv4)”, and then click “Properties”.

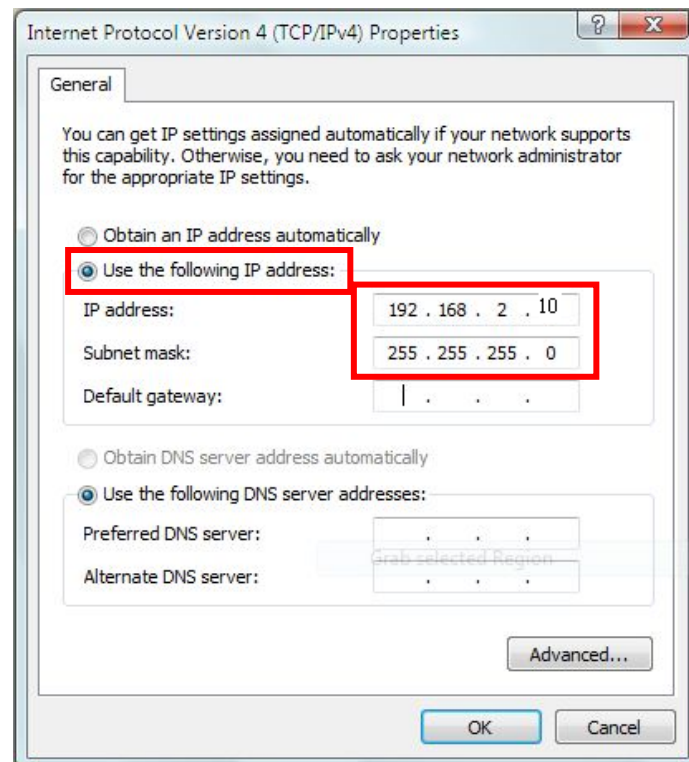


2. Select “Use the following IP address”, then input the following values:

IP address: 192.168.2.10

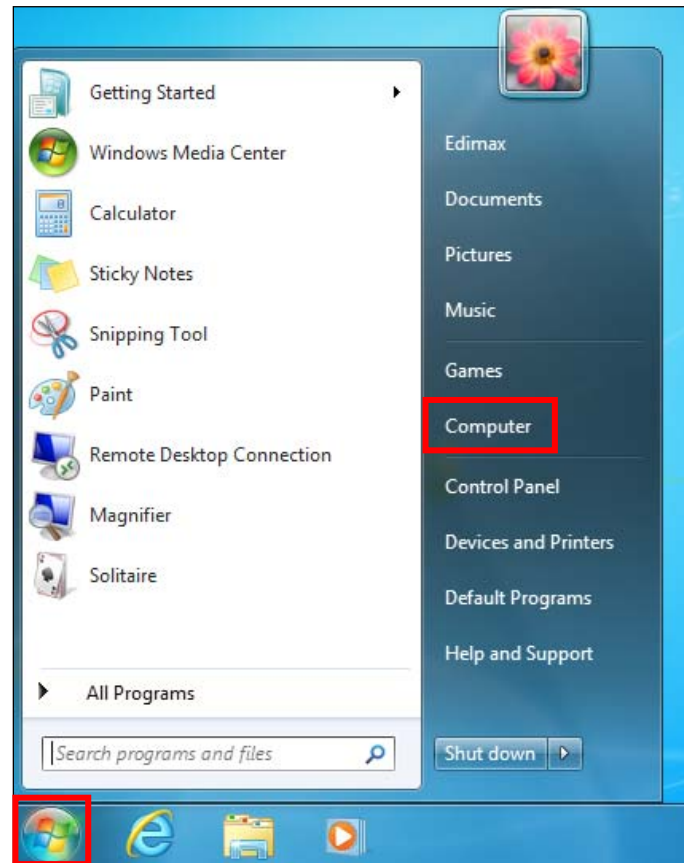
Subnet Mask: 255.255.255.0

Click ‘OK’ when finished.

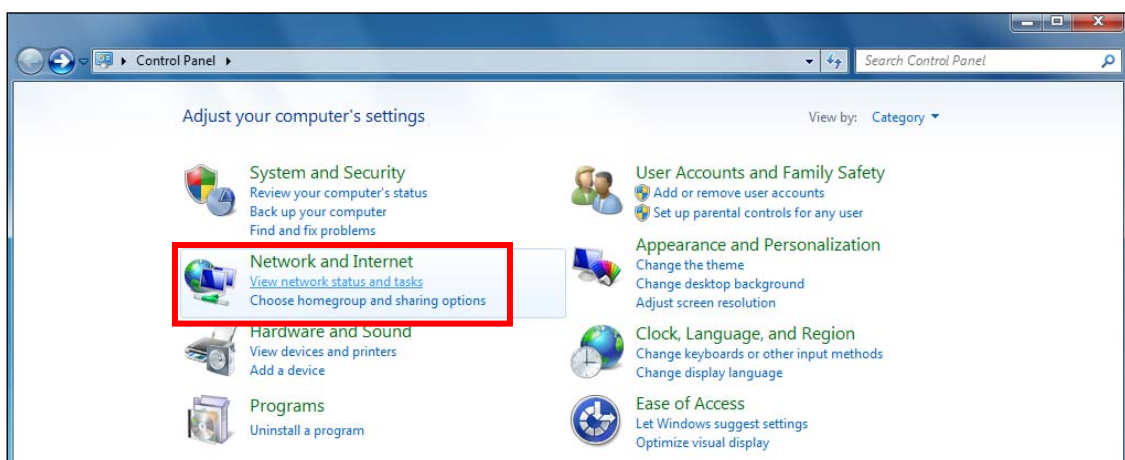


V-1-3 Windows 7

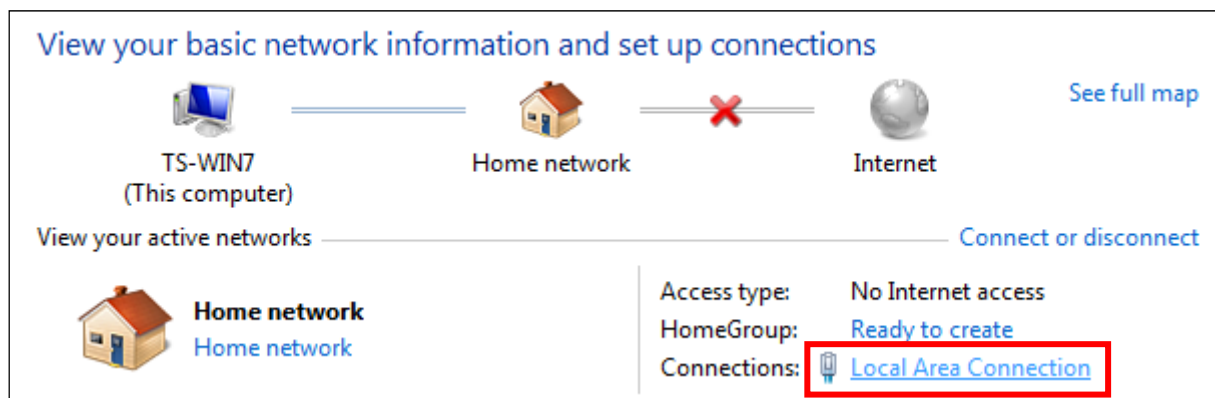
1. Click the “Start” button (it should be located in the lower-left corner of your computer), then click “Control Panel”.



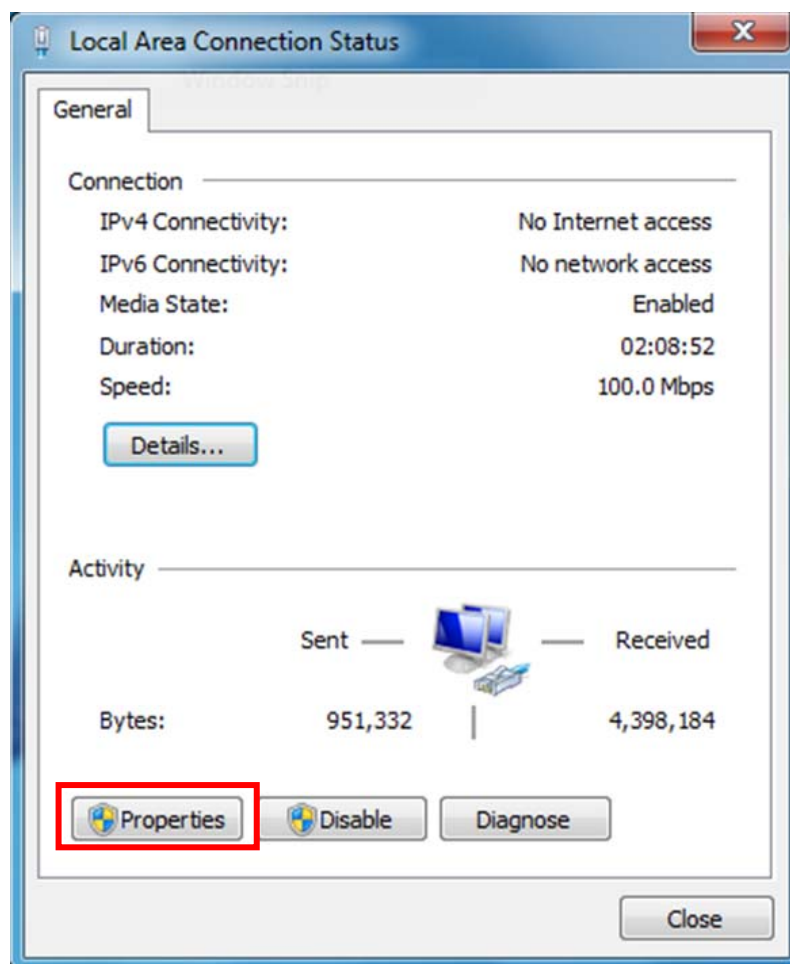
2. Under “Network and Internet” click “View network status and tasks”.



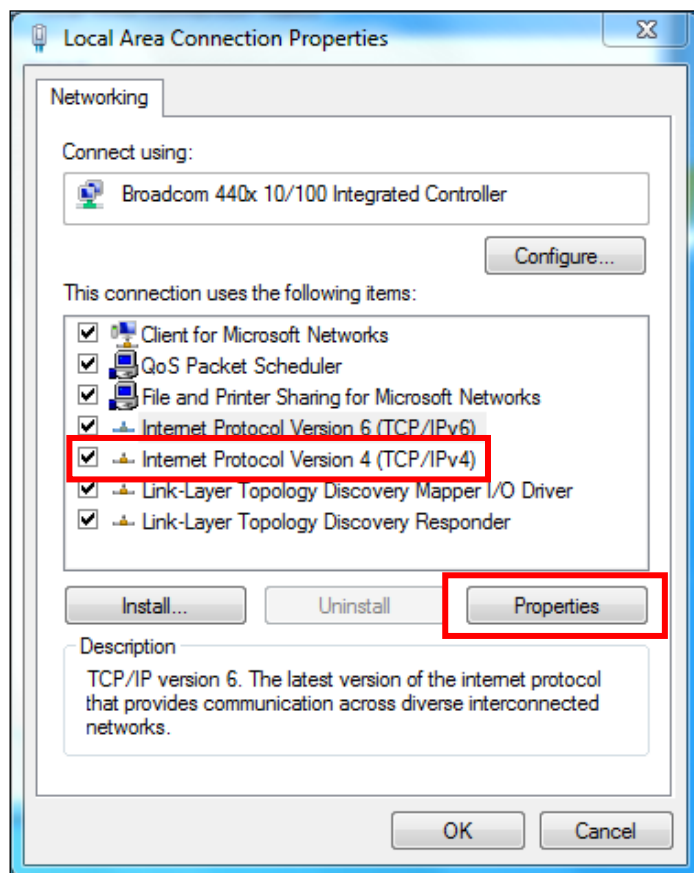
3. Click “Local Area Connection”.



4. Click “Properties”.



5. Select “Internet Protocol Version 4 (TCP/IPv4)” and then click “Properties”.

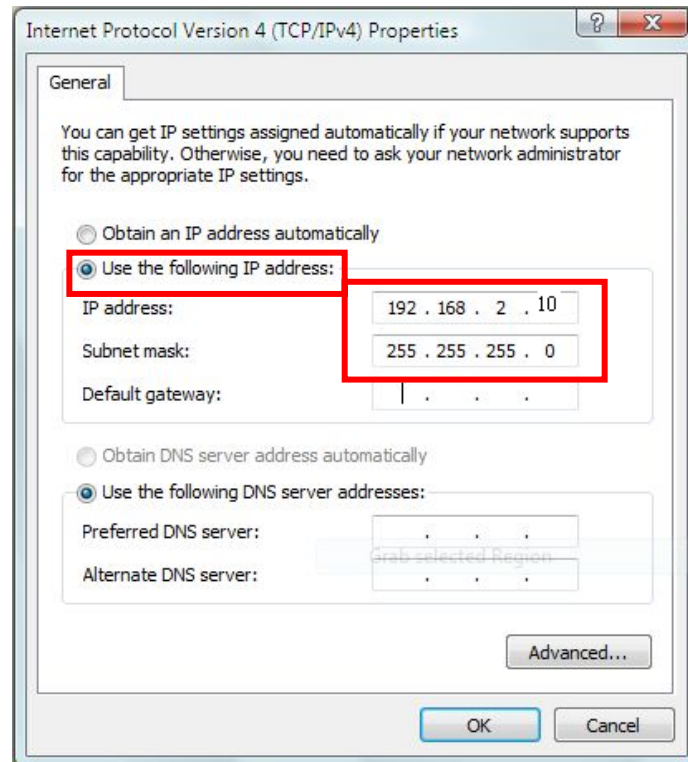


6. Select “Use the following IP address”, then input the following values:

IP address: 192.168.2.10

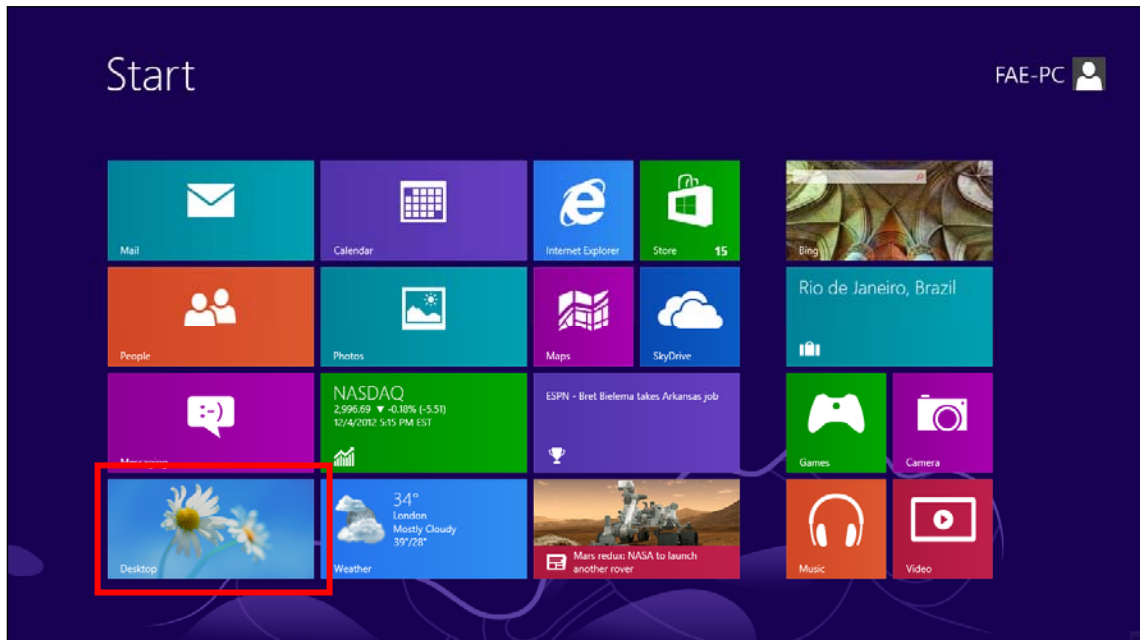
Subnet Mask: 255.255.255.0

Click ‘OK’ when finished.

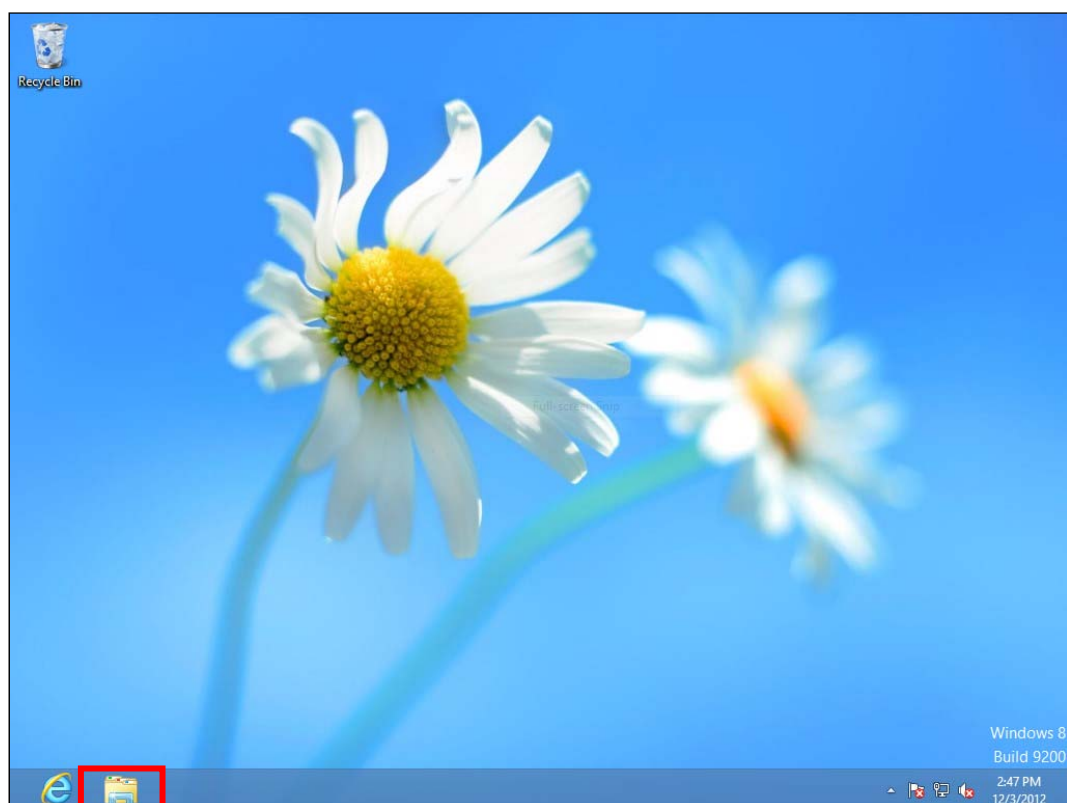


V-1-4 Windows 8

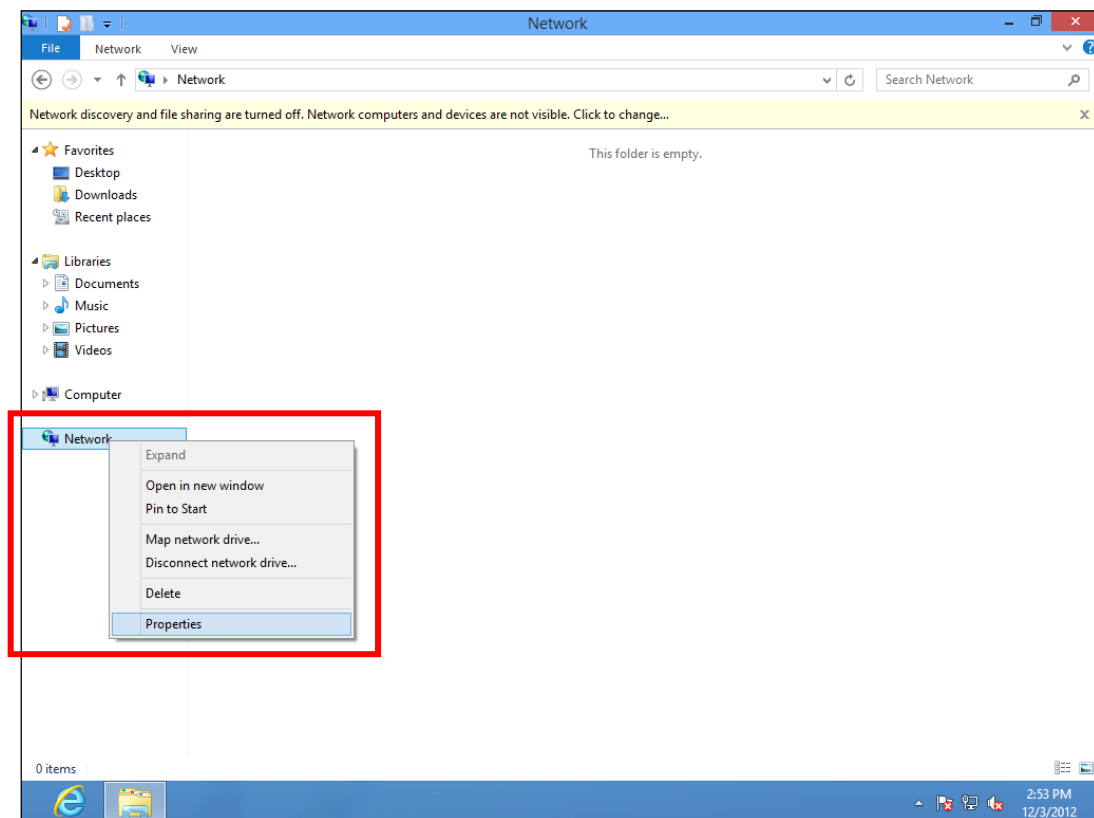
1. From the Windows 8 Start screen, switch to desktop mode by clicking the “Desktop” box.



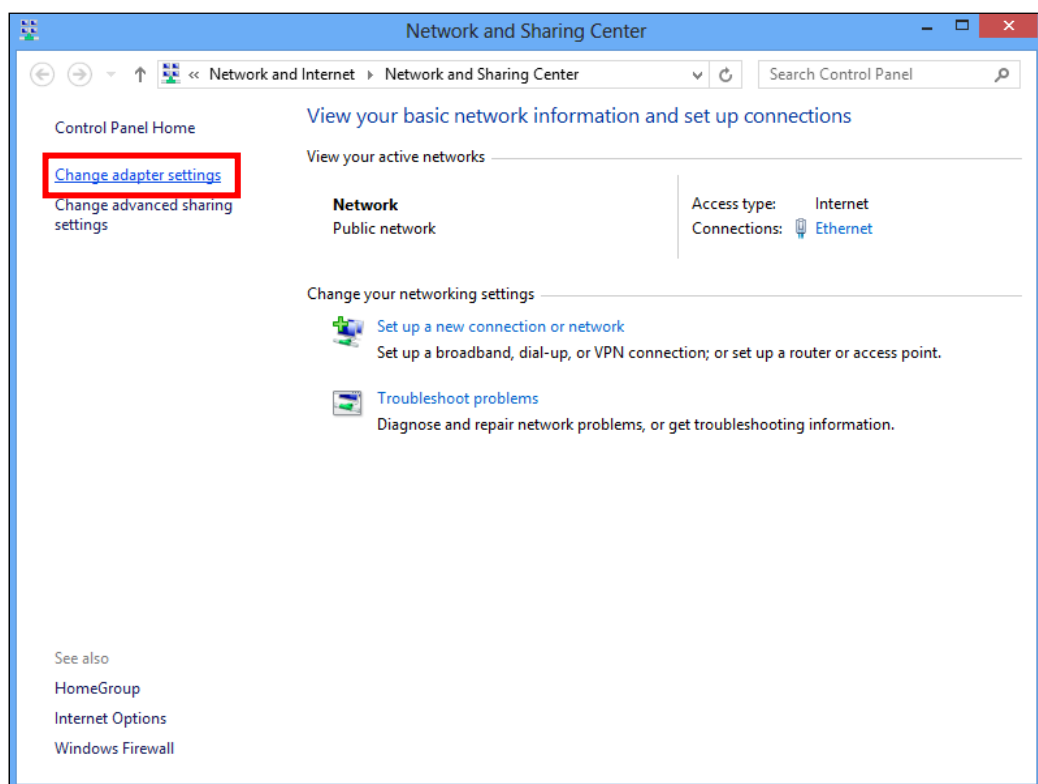
2. In desktop mode, click the File Explorer icon in the bottom left of the screen, as shown below.



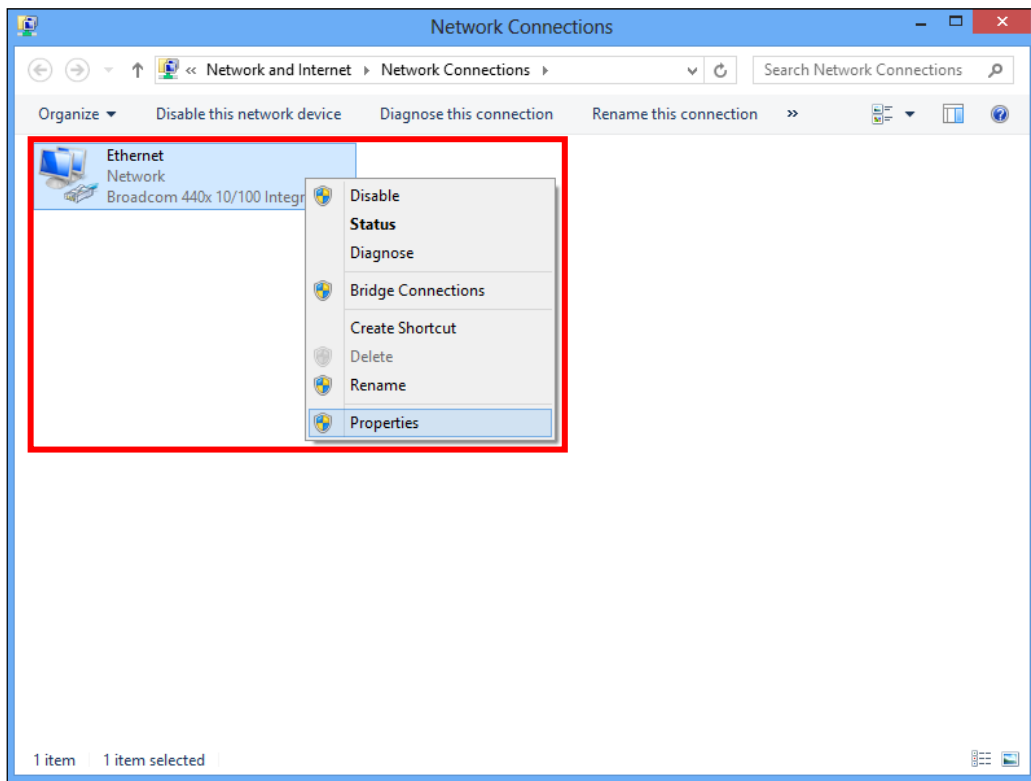
3. Right click “Network” and select “Properties”.



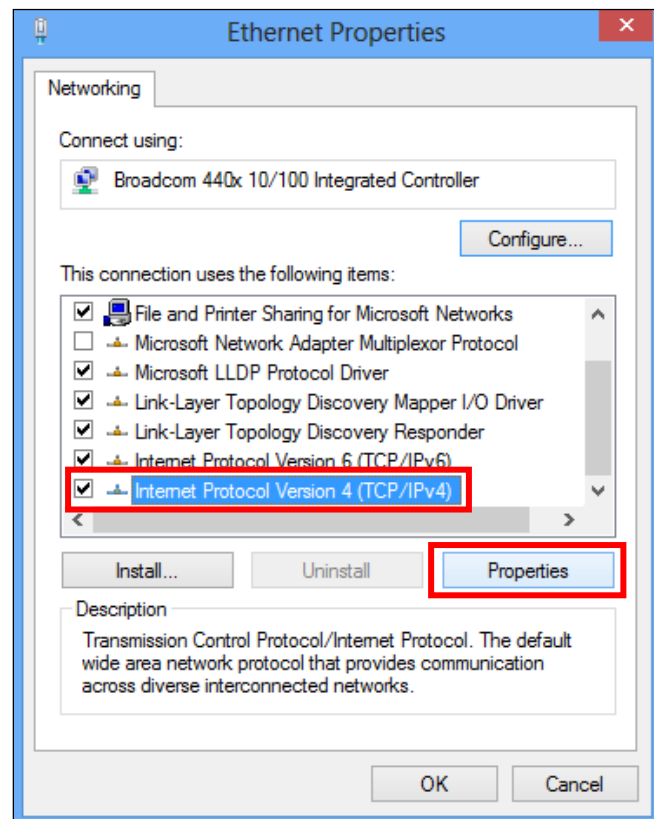
4. In the window that opens, select “Change adapter settings” from the left side.



5. Right click the connection and select “Properties”.



6. Select “Internet Protocol Version 4 (TCP/IPv4)” and then click “Properties”.

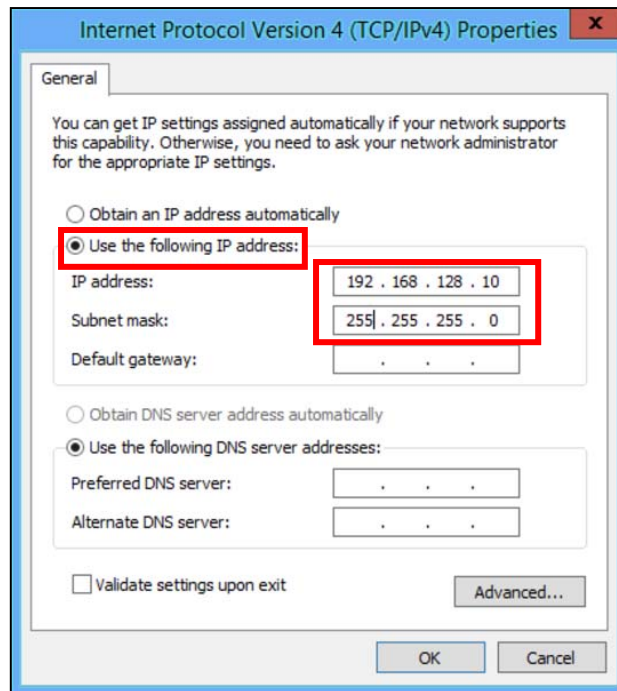


7. Select “Use the following IP address”, then input the following values:

IP address: 192.168.2.10

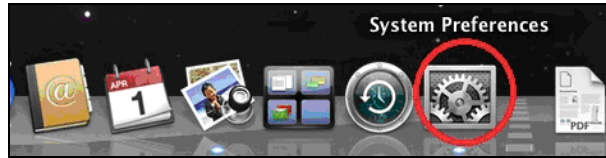
Subnet Mask: 255.255.255.0

Click ‘OK’ when finished.



V-1-5 Mac

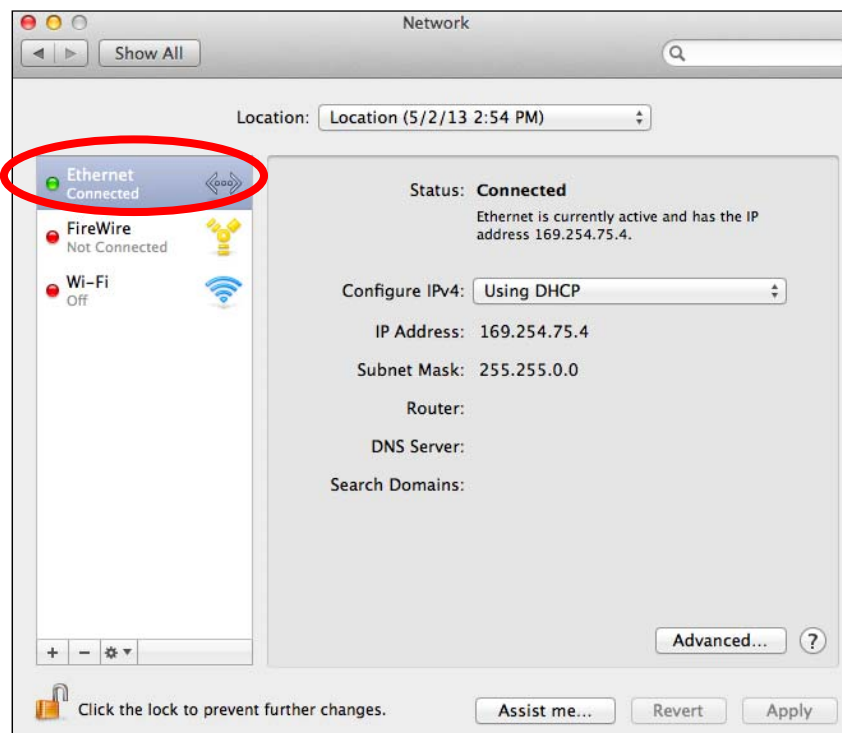
1. Have your Macintosh computer operate as usual, and click on “System Preferences”



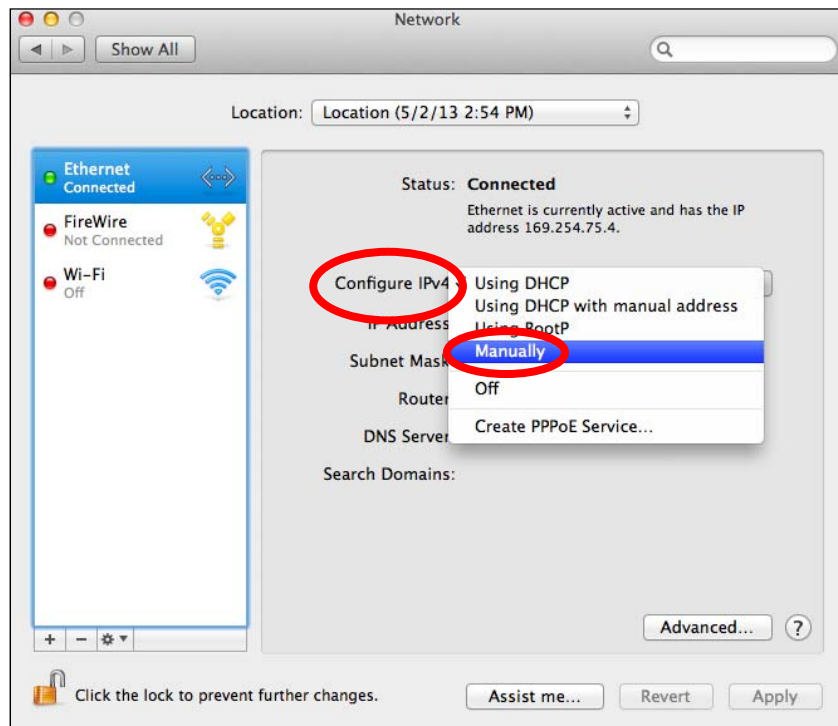
2. In System Preferences, click on “Network”.



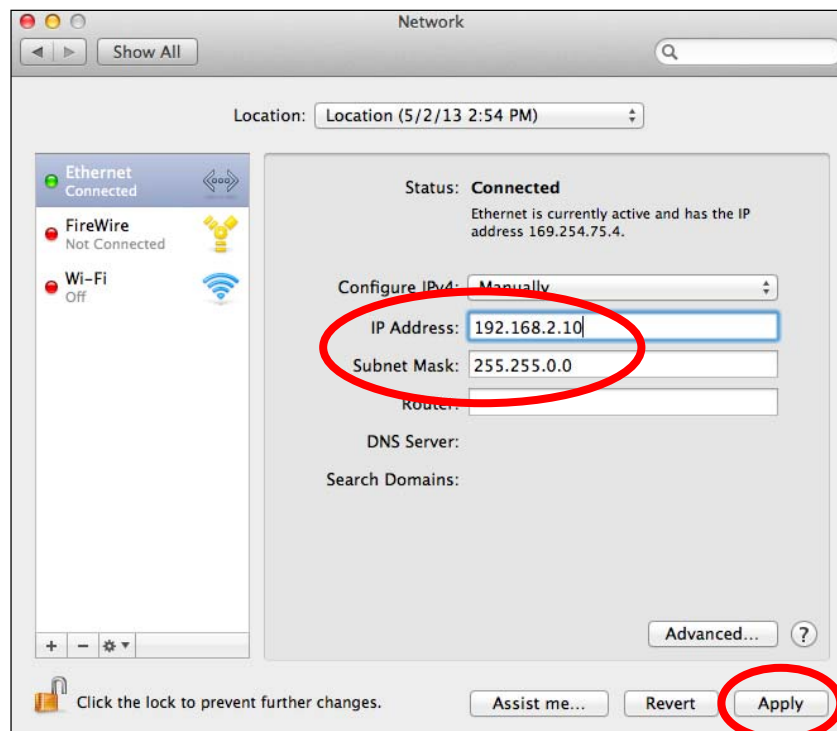
3. Click on “Ethernet” in the left panel.



4. Open the drop-down menu labeled “Configure IPv4” and select “Manually”.



5. Enter the IP address 192.168.2.10 and subnet mask 255.255.255.0. Click on “Apply” to save the changes.



V-2 Setting AP via ManageEngine MibBrowser with SNMPv3 - Example

V-2-1 Setting in Web

1. The length of the password needs to be equal or greater than 8.
2. SNMP Version: V3

The screenshot displays the ManageEngine MibBrowser web interface. The top navigation bar includes tabs for Information, Network Settings, Wireless Settings, Management (selected), Advanced, and Operation Mode. The left sidebar shows the Management menu with options: Admin (selected), Date and Time, Syslog Server, Ping Test, and I'm Here.

The main content area is divided into two sections:

- Admin**: This section is titled "Account to Manage This Device". It contains fields for "Administrator Name" (set to "admin") and "Administrator Password" (masked with dots). A red box highlights the password fields, which are labeled "(1-32 Characters)" and "(Confirm)". An "Apply" button is located below these fields.
- Advanced Settings**: This section contains various configuration options. A red box highlights the "SNMP Version" dropdown menu, which is currently set to "v3". Other settings include:
 - Product Name: AP74DA3803B620
 - HTTP Port: 80 (range: 80, 1024-65535)
 - HTTPS Port: 443 (range: 443, 1024-65535)
 - Management Protocol: Checkboxes for HTTP, HTTPS, TELNET, SSH, and SNMP (all checked).
 - Login Timeout: 30 (mins)
 - SNMP Get Community: public
 - SNMP Set Community: private
 - SNMP V3 Name: admin
 - SNMP V3 Password: masked with dots
 - SNMP Trap: Disabled
 - SNMP Trap Community: public
 - SNMP Trap Manager: (empty field)

An "Apply" button is located at the bottom of the Advanced Settings section.

V-2-2 Setting Rule

If you want to set Basic Wireless Setting via SNMP, the related variables need to be set together. Please refer to the file

Edimax-7476HPC_private_MIB_20150715_v1.1, for setting Radio or SSID.

Example: Basic Wireless Settings	Settings
snmpset STRING 192.168.2.2 1.3.6.1.4.1.3822.2000.1.3.3 i 2	Auto Channel Disable
snmpset STRING 192.168.2.2 1.3.6.1.4.1.3822.2000.1.2.3 i 3	11b/g/n: band
snmpset STRING 192.168.2.2 1.3.6.1.4.1.3822.2000.1.4.3 i 7	7: channel
snmpset STRING 192.168.2.2 1.3.6.1.4.1.3822.2000.1.6.3 i 1	20M: Bandwidth
snmpset STRING 192.168.2.2 1.3.6.1.4.1.3822.2000.1.7.3 i 5	all: basic rate

STRING: -v3 -l noAuthNoPriv -u admin -a MD5 -x DES

Reference: Radio Related page of

Edimax-7476HPC_private_MIB_20150715_v1.1

V-2-3 Setting in ManageEngine MibBrowser

1. Set the version of SNMP



Figure 1 Step 1:Edit → Settings

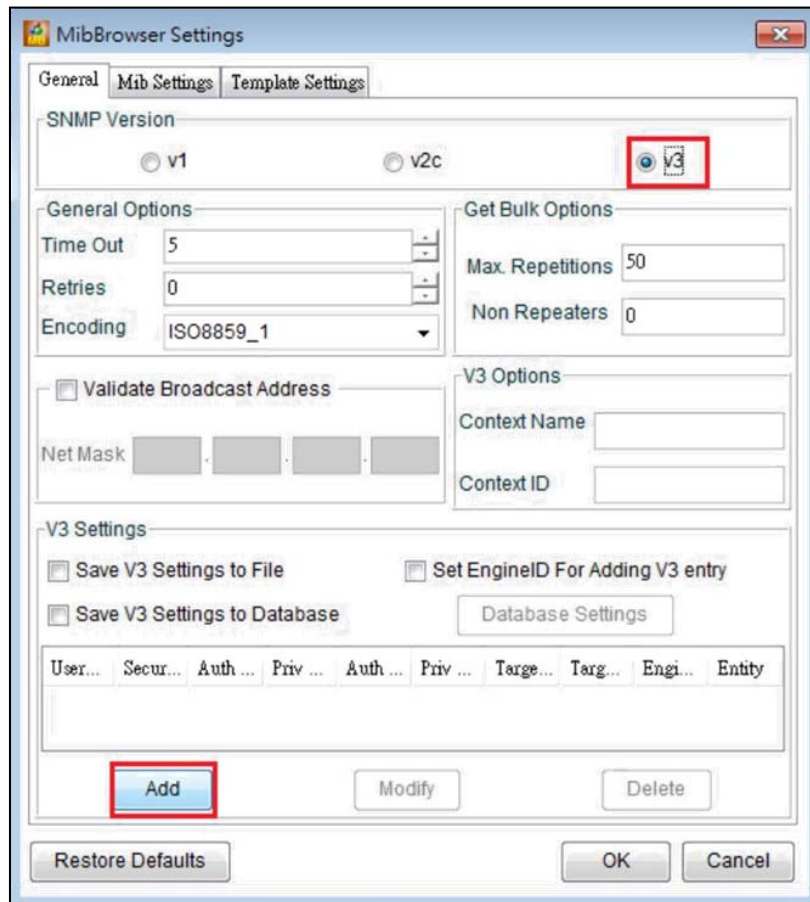


Figure 2 Step 2: Check v3 and click Add

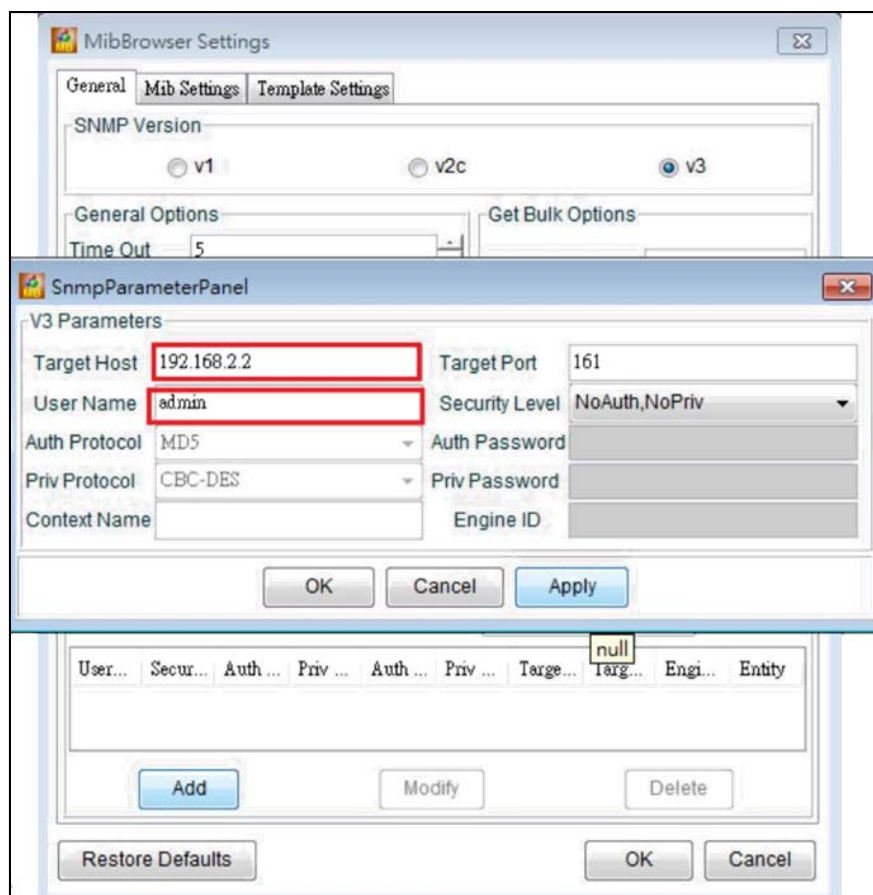


Figure 3 Step 3: Enter AP's IP and Administrator Name (User Name)

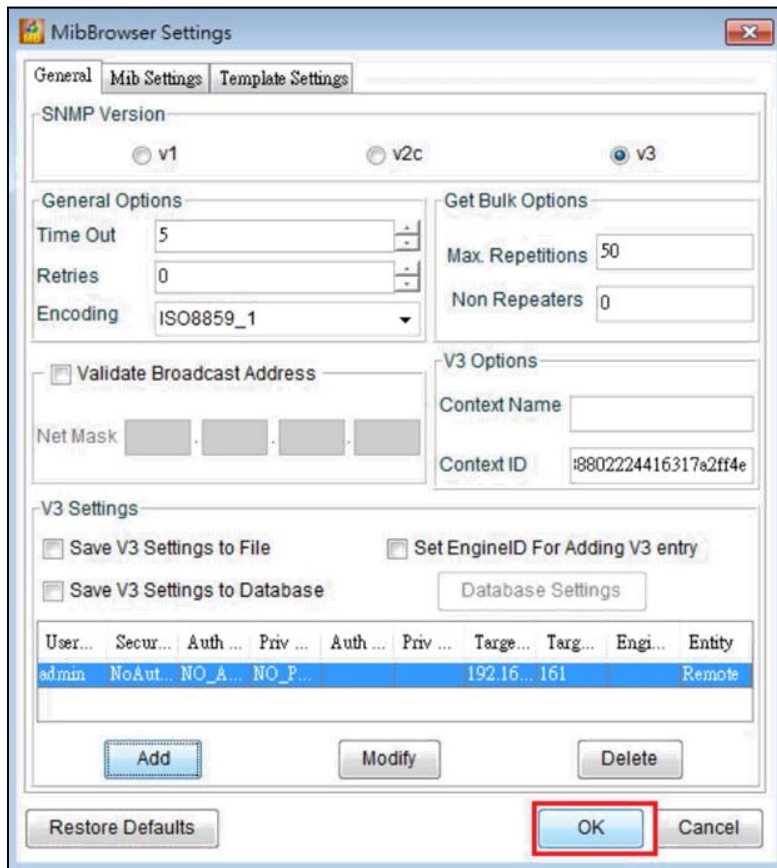


Figure 4 Step 4: Click OK

2. Load MIB Module

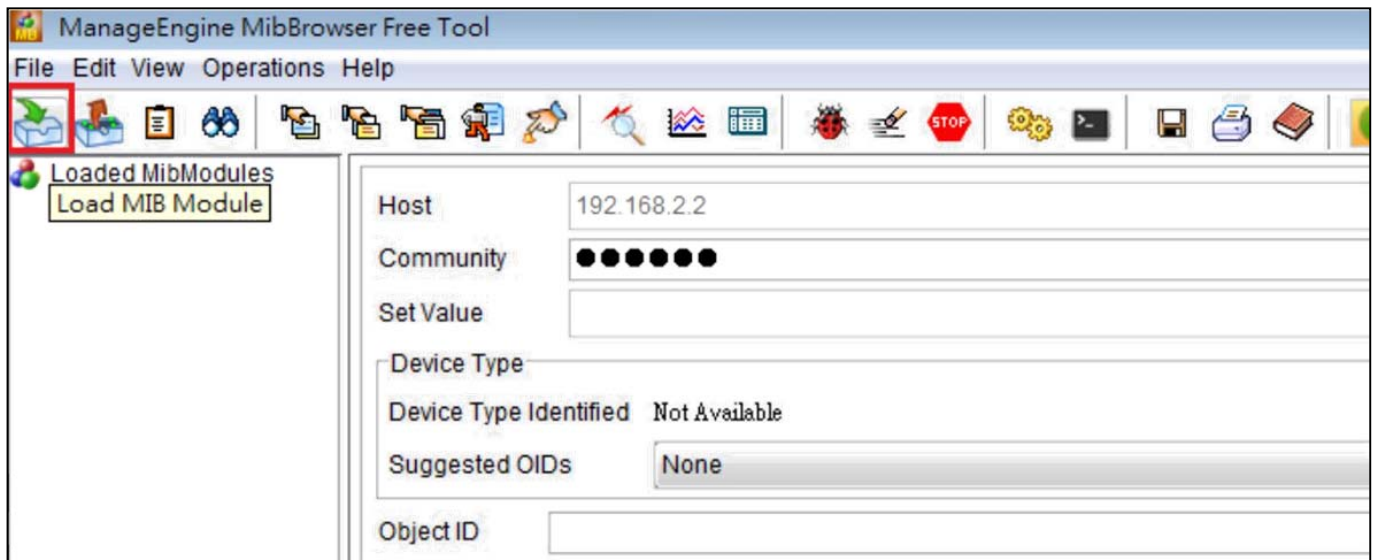


Figure 5 Click Load MIB Module and choose the file, *edimax_20150728.txt* (MIB file)

3. Add variables

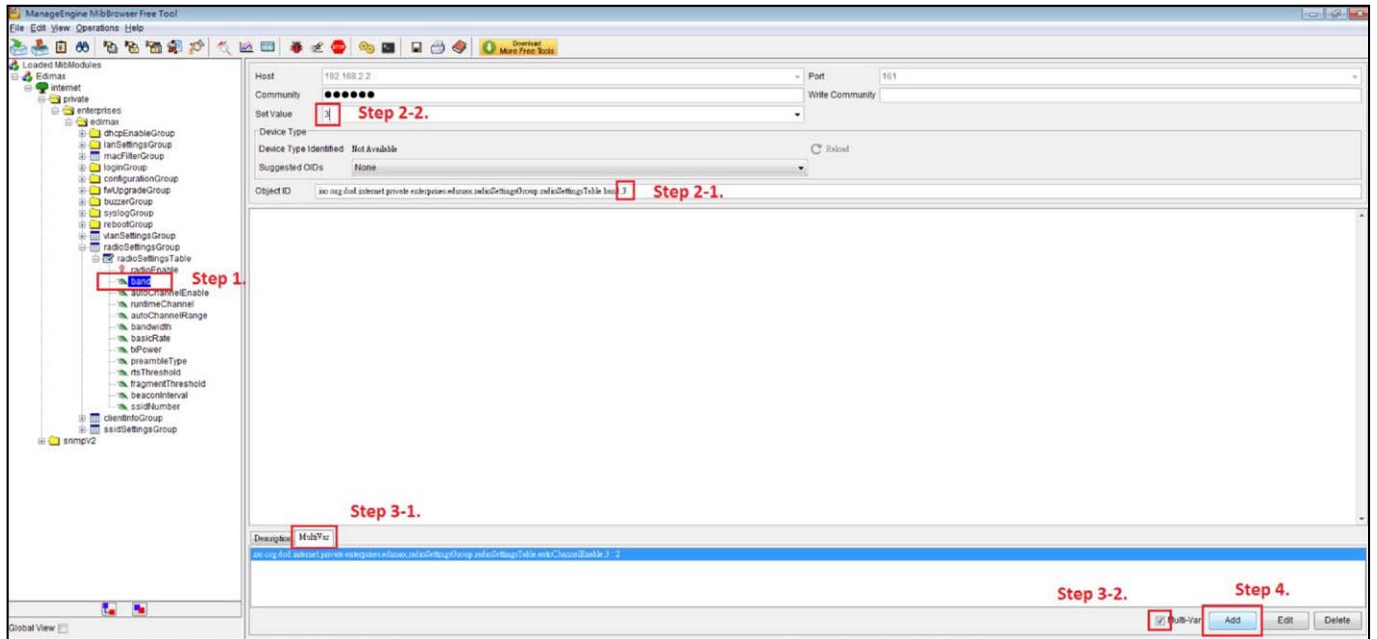


Figure 6 Example of setting the variable

Step 1.: Select the OID.

Step 2-1.: Enter the index of Radio (2.4G).

Step 2-2.: Enter the Set Value.

Step 3-1.: Click MultiVar.

Step 3-2.: Check Multi-Var.

Step 4.: Add this Variable

4. Set SNMP variables

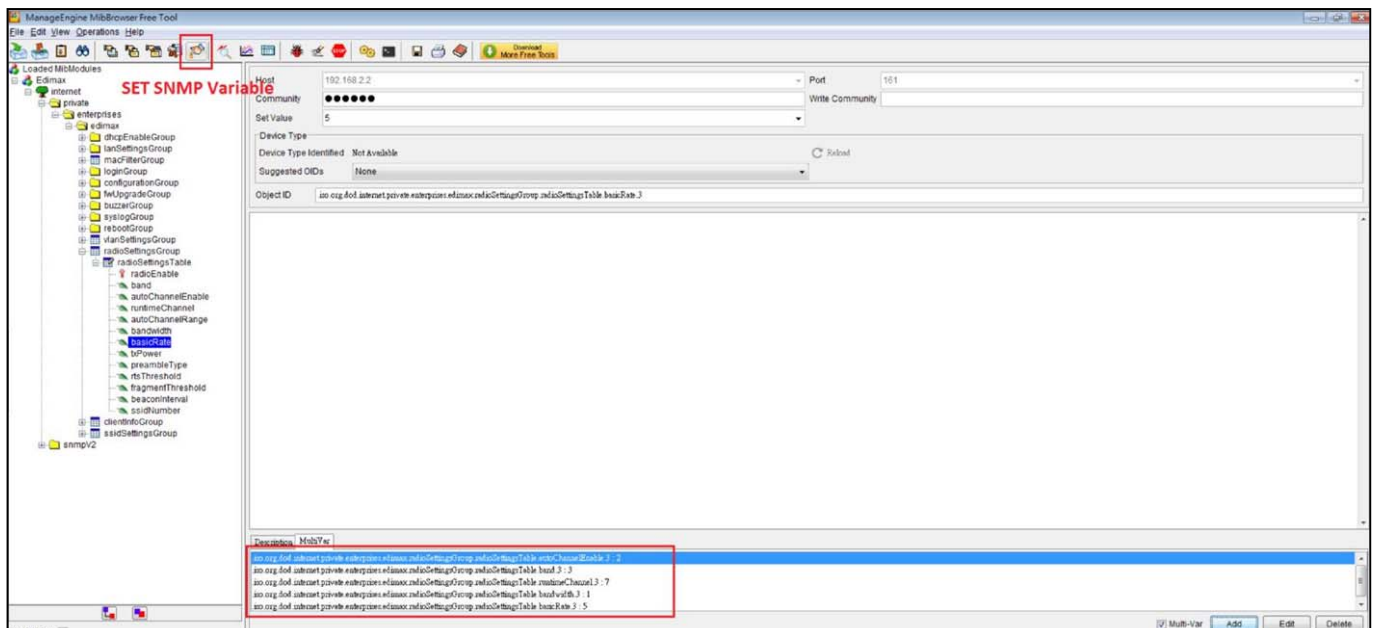


Figure 7 All the variables have been added. Click SET SNMP Variables

VI Best Practice

VI-1 How to Create and Link WLAN & Access Point Groups

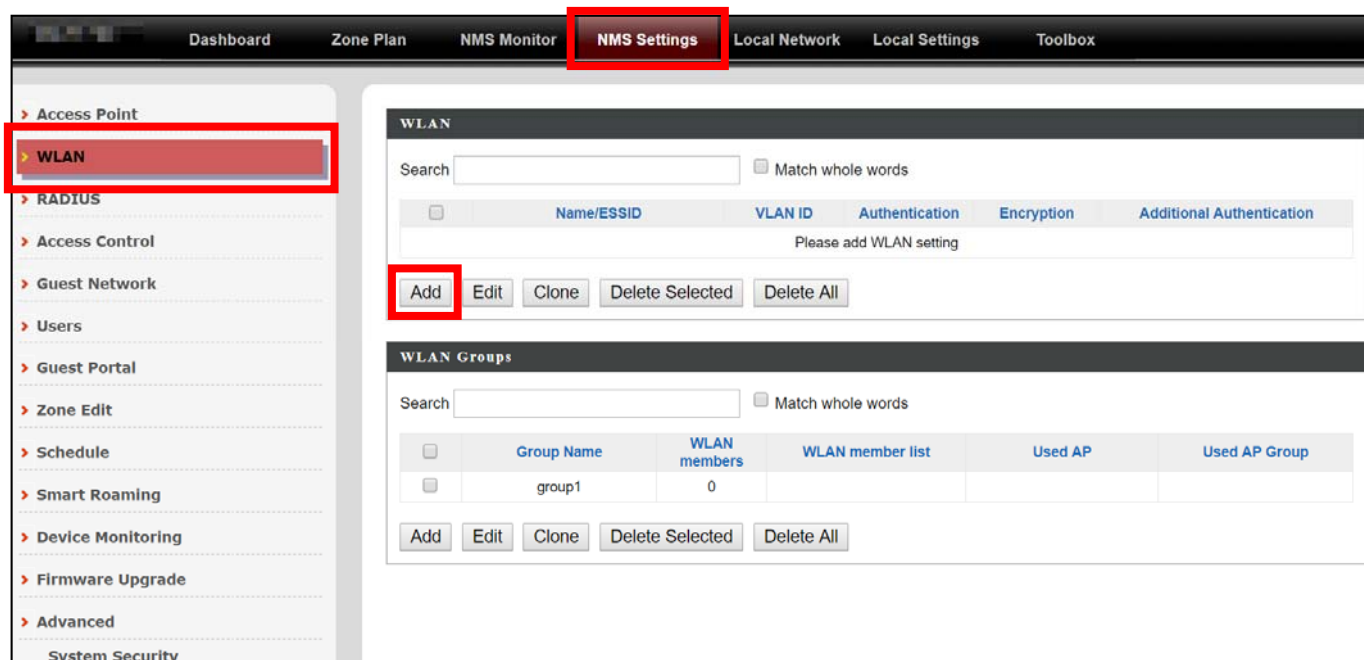
NMS can be used to create individual SSIDs and group multiple SSIDs together into WLAN groups. You can then assign individual access points to use those WLAN group settings and/or group multiple access points together into access point groups, which you can also assign to use WLAN group settings.

Follow the example below to:

- A.** Create a WLAN group.
- B.** Create an access point group.
- C.** Assign the access point group to use the SSID group settings.

VI-1-1 Create WLAN Group

- 1.** Go to **NMS Settings** → **WLAN** and click “**Add**” in the **WLAN** panel:



2. Enter an SSID **name** and set **authentication/encryption** and click “**Save & Apply**”:

WLAN Settings

Name/ESSID	
Description	
VLAN ID	1
Broadcast SSID	Enable ▼
Wireless Client Isolation	Disable ▼
802.11k	Disable ▼
Load Balancing	50 /50
Authentication Method	No Authentication ▼
Additional Authentication	No additional authentication ▼

WLAN Access Policy

Traffic Shaping Settings

Traffic Shaping	By SSID ▼
Downlink	44 Mbps
Uplink	44 Mbps

WLAN Advanced Settings

Smart Handover Settings

Smart Handover	☐ Enable ☒ Disable
RSSI Threshold	-80 ▼ dB

Active WLAN Schedule Settings

Schedule Group	Disable ▼
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Save Cancel **Save & Apply**

3. The new SSID will be displayed in the **WLAN** panel. **Repeat** to add additional SSIDs according to your preference.

WLAN

Search ☐ Match whole words

☐	Name/ESSID	VLAN ID	Authentication	Encryption	Additional Authentication
☐	WLAN 1	1	OPEN	NONE	No additional authentication
☐	WLAN 2	1	OPEN	NONE	No additional authentication
☐	WLAN 3	1	OPEN	NONE	No additional authentication
☐	WLAN 4	1	OPEN	NONE	No additional authentication

WLAN Groups

Search ☐ Match whole words

☐	Group Name	WLAN members	WLAN member list	Used AP	Used AP Group
☐	group1	0			

4. Click **“Add”** in the **WLAN Groups** panel:

WLAN Groups

Search ☐ Match whole words

☐	Group Name	WLAN members	WLAN member list	Used AP	Used AP Group
☐	group1	0			

5. Enter a **name** for the **SSID group** and **check the boxes** to select which SSIDs to include in the group. Click **“Save and Apply”** when done.

WLAN Group Settings

Name

Description

Search ☐ Match whole words

☐	Name/ESSID	VLAN ID	Schedule Group
☐	WLAN 1	1	☐ Override Disable
☐	WLAN 2	1	☐ Override Disable
☐	WLAN 3	1	☐ Override Disable
☐	WLAN 4	1	☐ Override Disable

6. The new **WLAN group** will be displayed in the **WLAN Group** panel.
Repeat to add additional WLAN groups according to your preference:

WLAN
Search ☐ Match whole words

☐	Name/ESSID	VLAN ID	Authentication	Encryption	Additional Authentication
☐	WLAN 1	1	OPEN	NONE	No additional authentication
☐	WLAN 2	1	OPEN	NONE	No additional authentication
☐	WLAN 3	1	OPEN	NONE	No additional authentication
☐	WLAN 4	1	OPEN	NONE	No additional authentication

Add Edit Clone Delete Selected Delete All

WLAN Groups
Search ☐ Match whole words

☐	Group Name	WLAN members	WLAN member list	Used AP	Used AP Group
☐	WLAN Group 1	2	WLAN 1 WLAN 2		
☐	group1	0			

Add Edit Clone Delete Selected Delete All

VI-1-2 Create Access Point Group

1. Go to **NMS Settings** → **Access Point** and click “Add” in the Access Point Group panel:

Dashboard Zone Plan NMS Monitor **NMS Settings** Local Network Local Settings Toolbox

Access Point

WLAN

RADIUS

Access Control

Guest Network

Users

Guest Portal

Zone Edit

Schedule

Smart Roaming

Device Monitoring

Firmware Upgrade

Advanced

System Security

Date and Time

Google Maps

Access Point

Search ☐ Match whole words

☐	Index	MAC Address	Device Name	Model	AP Group	2.4G Channel	5G Channel	2.4G Tx Power	5G Tx Power	Status	Action
☐	1	74.DA.38.1F.48.40	AP74DA381F4840	CAP300	System Default	N/A	N/A	N/A	N/A		

Refresh Edit Delete Selected Delete All

Access Point Group

Search ☐ Match whole words

☐	Group Name	AP Members	2.4G WLAN Profile	5G WLAN Profile	2.4G Guest Network Profile	5G Guest Network Profile	RADIUS Profile	Access Control Profile
☐	System Default	1	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled

Add Edit Clone Delete Selected Delete All

Access Point Settings

Auto Approve ☒ Enable ☐ Disable

Apply

129

2. Enter a **Name** and then scroll down to the **Group Settings** panel and use the << button to **add** selected access points into your group from the box on the right side. Click “**Save & Apply**” when done.

Basic Group Settings

Name

Access Point Group 1

Description

Please enter a new group description

IGMP Snooping

☐ Override Default Setting

Disable ▾

Group Settings

Members

Search

Group Name : Access Point Group 1

☐ MAC Address ▲

Device Name ▼ ▲

No Access Point

Search

Group Name : System Default ▾

☐ MAC Address ▲

Device Name ▼ ▾

☒ 74-DA-38-1F-46-40

AP74DA381F4640

<<

>>

3. The new group will be displayed in the **Access Point Group** panel. **Repeat** to add additional access point groups according to your preference:

Access Point Group

Search

☐ Match whole words

☐	Group Name	AP Members	2.4G WLAN Profile	5G WLAN Profile	2.4G Guest Network Profile	5G Guest Network Profile	RADIUS Profile	Access Control Profile
☐	System Default	0						
☐	Access Point Group 1	1						

Add

Edit

Clone

Delete Selected

Delete All

VI-1-3 Assign Access Point Group to use the SSID group settings

1. Go to **NMS Settings** → **Access Point** and select an access point group using the checkboxes in the **Access Point Group** panel. Click **“Edit”**:

Access Point Group

Search ☐ Match whole words

☐	Group Name	AP Members	2.4G WLAN Profile	5G WLAN Profile	2.4G Guest Network Profile	5G Guest Network Profile	RADIUS Profile	Access Control Profile
☐	System Default	0						
☐	Access Point Group 1	1						

2. Scroll down to the **Profile Group Settings** panel and check the **“Override Group Settings”** box for **WLAN Group (2.4GHz and/or 5GHz)**. Select your **WLAN group** from the drop-down menu and click **“Apply”**:

Profile Group Settings

Radio B/G/N (2.4 GHz)

WLAN Group ☒ **Override Default Setting**

Guest Network Group ☐ **Override Default Setting**

Radio A/N/A/C (5.0 GHz)

WLAN Group ☒ **Override Default Setting**

Guest Network Group ☐ **Override Default Setting**

RADIUS Group ☐ **Override Default Setting**

MAC Access Control Group ☐ **Override Default Setting**

3. Repeat for other access point groups according to your preference.

Professional installation warning:

This device is point-to-multi-point device. The general user should not attempt to install or change settings, it needs to be installed by a qualified personal who has RF exposure and related rule knowledge or technology.

The installation position and output power does not exceed the limit set forth in US Rule CFR 47 part 15 section 15.247 & 15.407. If violate the rule, could lead to serious federal penalty.

It is complies with §15.407 (a)(1)(i) requirement that the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

About TDWR 5600-5650 MHz, installation and operation should with a minimum distance of 20 centimeters between the radiator and your body or nearby persons.

Use two type antenna specifications. One type antenna model name is 98623PRSX000, antenna type is dipole antenna with peak gain 4.58dBi for 2.4GHz; 6.18dBi for 5150-5250MHz; 6.22dBi for 5250-5350MHz; 6.12dBi for 5470-5725MHz; 6.05dBi for 5725-5850MHz. Other type antenna model name is C095-510399-A, antenna type is dipole antenna with peak gain 3dBi for 2.4GHz; 4dBi for 5150-5850MHz. Only use manufacturer approved antenna type of antenna.

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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

FCC Caution

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body or nearby persons.

RED Compliance Statement

Compliance with 2014/53/EU Radio Equipment Directive (RED)

In accordance with Article 10.8(a) and 10.8(b) of the RED, the following table provides information on the frequency bands used and the maximum RF transmit power of the product for sale in the EU:

Frequency range (MHz)	Max. Transmit Power (dBm)
2412-2472	19.66 dBm
5500-5700	27.73 dBm

A simplified DoC shall be provided as follows: Article 10(9)

Hereby, Edimax Technology Co., Ltd. declares that the radio equipment type **AC1300 Outdoor AP** is in compliance with Directive 2014/53/EU

The full text of the EU declaration of conformity is available at the following internet address: <http://www.edimax.com/edimax/global/>

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Bulgaria, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Turkey, and United Kingdom. The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

EU Countries Not Intended for Use

None

EU Declaration of Conformity

- English:** This equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU, 2014/35/EU.
- Français:** Cet équipement est conforme aux exigences essentielles et autres dispositions de la directive 2014/53/EU, 2014/35/EU.
- Čeština:** Toto zařízení je v souladu se základními požadavky a ostatními příslušnými ustanoveními směrnic 2014/53/EU, 2014/35/EU.
- Polski:** Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE 2014/53/EU, 2014/35/EU.
- Română:** Acest echipament este în conformitate cu cerințele esențiale și alte prevederi relevante ale Directivei 2014/53/UE, 2014/35/UE.
- Русский:** Это оборудование соответствует основным требованиям и положениям Директивы 2014/53/EU, 2014/35/EU.
- Magyar:** Ez a berendezés megfelel az alapvető követelményeknek és más vonatkozó irányelveknek (2014/53/EU, 2014/35/EU).
- Türkçe:** Bu cihaz 2014/53/EU, 2014/35/EU direktifleri zorunlu istekler ve diğer hükümlerle ile uyumludur.
- Українська:** Обладнання відповідає вимогам і умовам директиви 2014/53/EU, 2014/35/EU.
- Slovenčina:** Toto zariadenie spĺňa základné požiadavky a ďalšie príslušné ustanovenia smerníc 2014/53/EU, 2014/35/EU.
- Deutsch:** Dieses Gerät erfüllt die Voraussetzungen gemäß den Richtlinien 2014/53/EU, 2014/35/EU.
- Español:** El presente equipo cumple los requisitos esenciales de la Directiva 2014/53/EU, 2014/35/EU.
- Italiano:** Questo apparecchio è conforme ai requisiti essenziali e alle altre disposizioni applicabili della Direttiva 2014/53/EU, 2014/35/UE.
- Nederlands:** Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen van richtlijn 2014/53/EU, 2014/35/EU.
- Português:** Este equipamento cumpre os requisitos essenciais da Directiva 2014/53/EU, 2014/35/EU.
- Norsk:** Dette utstyret er i samsvar med de viktigste kravene og andre relevante regler i Direktiv 2014/53/EU, 2014/35/EU.
- Svenska:** Denna utrustning är i överensstämmelse med de väsentliga kraven och övriga relevanta bestämmelser i direktiv 2014/53/EU, 2014/35/EU.
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- suomen kieli:** Tämä laite täyttää direktiivien 2014/53/EU, 2014/35/EU. oleelliset vaatimukset ja muut asiaankuuluvat määräykset.

FOR USE IN            
            
         



WEEE Directive & Product Disposal



At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

Declaration of Conformity

We, Edimax Technology Co., Ltd., declare under our sole responsibility, that the equipment described below complies with the requirements of the European Radio Equipment directives.

Equipment: AC1300 Outdoor AP
Model No.: GAP-429HOB

The following European standards for essential requirements have been followed:

Directives 2014/53/EU

Spectrum : EN 300 328 V2.1.1 (2016-11)
EN 301 893 V2.1.1 (2017-05)
EMC : EN 301 489-1 V2.1.1 (2017-02)
EN 301 489-17 V3.2.0 (2017-03)
EN 55032: 2012 / AC:2013
EN 55024: 2010
EMF : EN 62311:2008

Directives 2014/35/EU

Safety (LVD) : IEC 60950-1:2005 (2nd Edition)+Am 1:2009+Am 2:2013
EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

Edimax Technology Europe B.V.
Fijenhof 2,
5652 AE Eindhoven,
The Netherlands

a company of :
Edimax Technology Co., Ltd.
No. 278, Xinhua 1st Rd.,
Neihu Dist., Taipei City,
Taiwan

Signature:

Printed Name: Vivian Ma
Title: Director
Edimax Technology Europe B.V.



Date of Signature: March, 2018

Signature:

Printed Name:

Albert Chang

Title:

Director

Edimax Technology Co., Ltd.

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RF Antenna Assembly

Specification

1. Electrical Properties :

- 1.1 Frequency Range..... 2.4~2.5GHz&4.9~5.825Hz
- 1.2 Impedance 50Ω Nominal
- 1.3 VSWR 1.92:1Max.
- 1.4 Return Loss..... -10 dB Max.
- 1.5 Radiation Omni-directional
- 1.6 Gain(peak)..... 3dBi @2.4~2.5GHz
4dBi @4.9~5.825GHz
- 1.7 Polarization..... Linear; Vertical
- 1.8 Admitted Power..... 1W
- 1.9 Cable..... RG-178 Cable,透明棕,50Ω.

2. Physical Properties :

- 2.1 Antenna Body..... PC
- 2.2 Operating Temp. -10 ~ +60
- 2.3 Storage Temp. -10 ~ +70
- 2.4 Color White

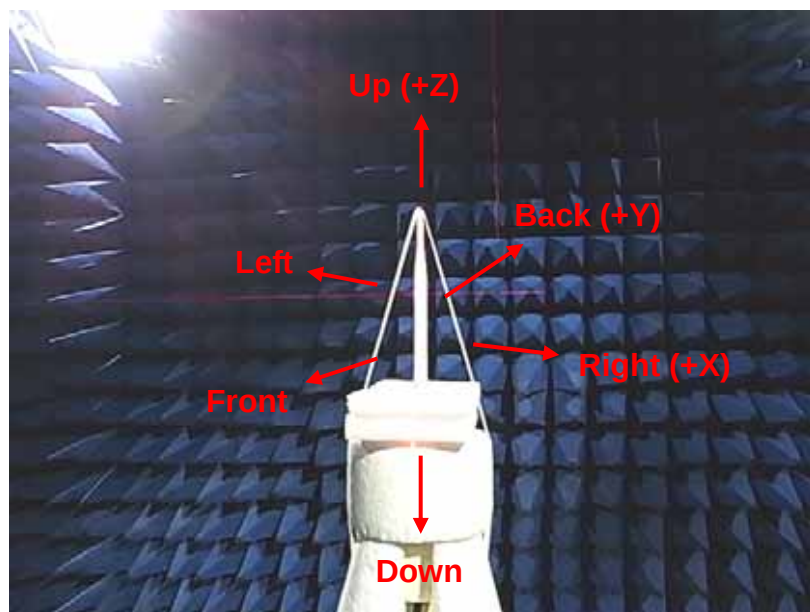
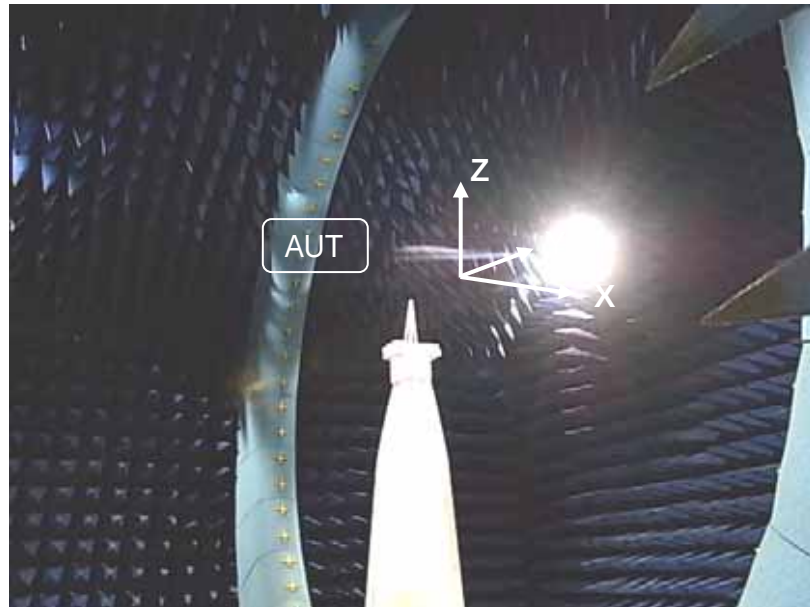
1. S-parameter test results

1.1 S11 Test Report

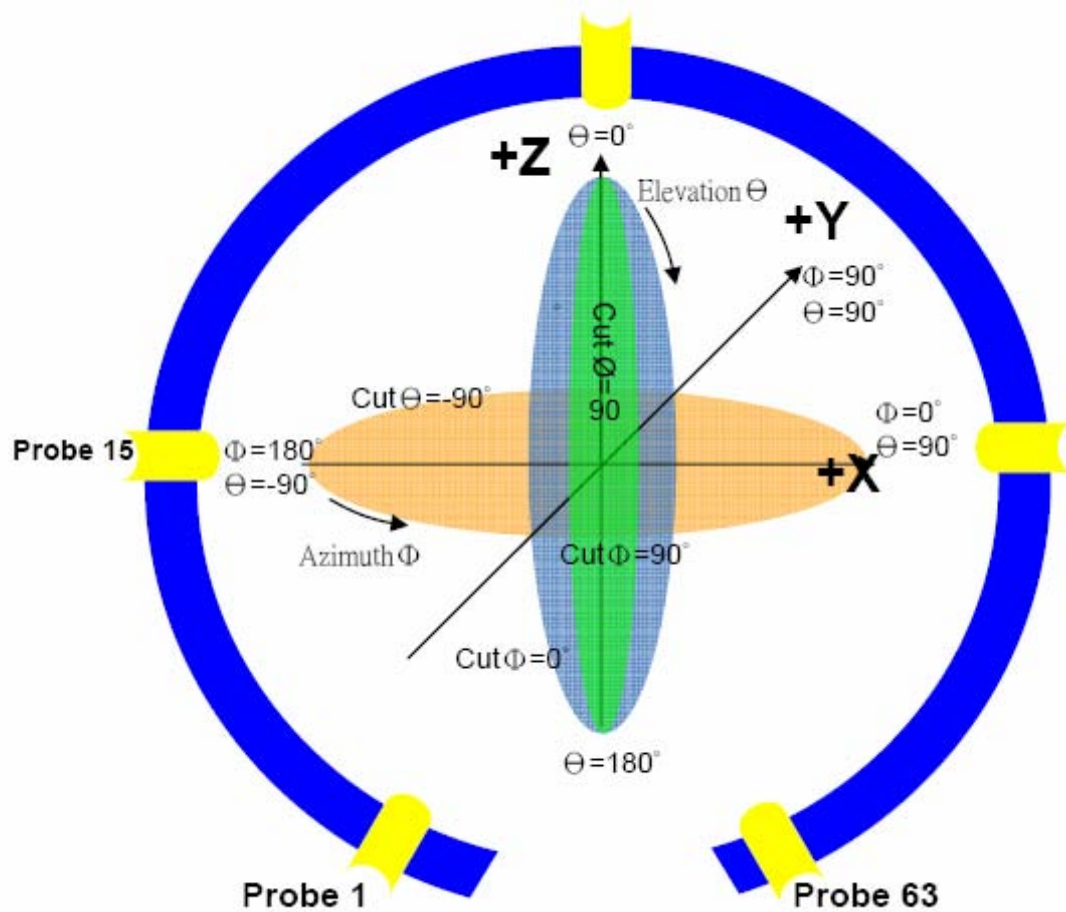


2. Gain & Patterns test results

2.1 Measurement setting

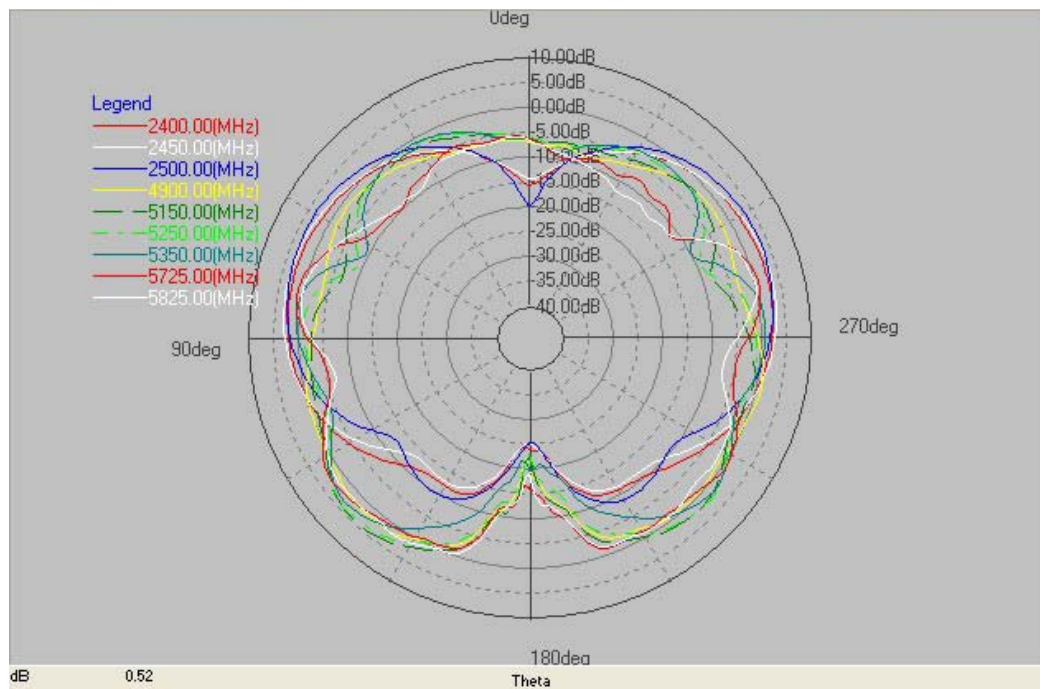


	XY	YZ	XZ
0°	Right	Up	Up
90°	Back	Back	Right
180°	Left	Down	Down
270°	Front	Front	Left

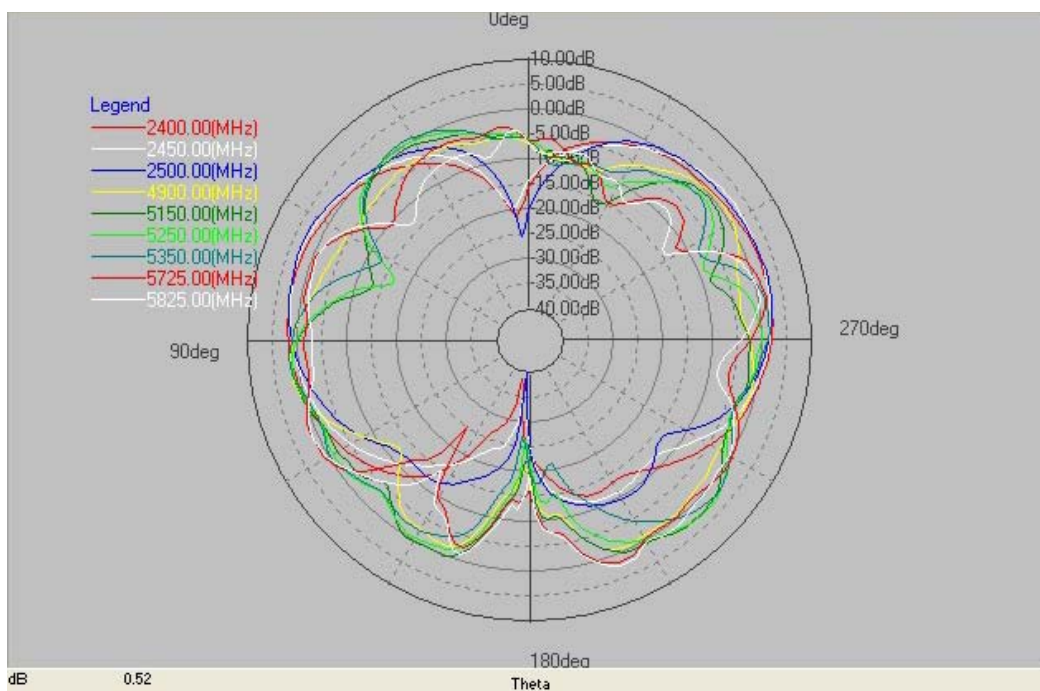


	θ	ϕ
Total angle	175°	360°
How many angle scan one point	5°	5°
Total scan point	36	73

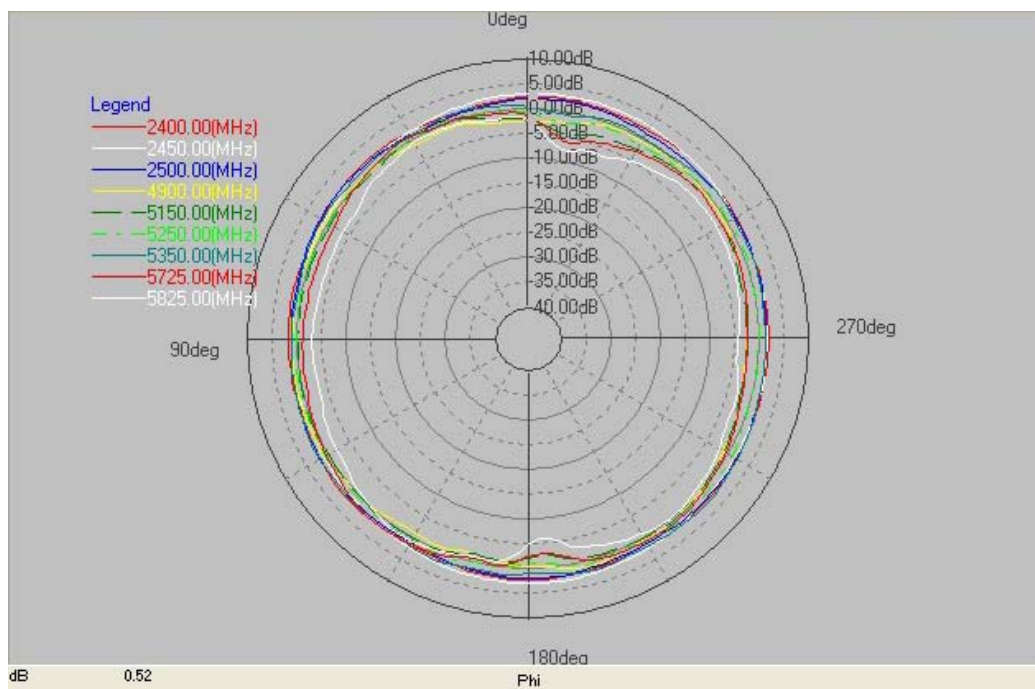
2.2 2D patterns



X-Z Plane (E-total)



Y-Z Plane (E-total)



X-Y Plane (E-total)

3. Summary

3.1 Return Loss

Frequency	Antenna (dB)
2.4GHz	-15.5
2.45GHz	-16.3
2.5GHz	-16.9
4.9GHz	-16.2
5.15GHz	-20.2
5.35GHz	-17.9
5.725GHz	-14.0
5.825GHz	-12.2

3.2 3D total Peak Gain & Efficiency

Frequency	Antenna	
	Peak Gain(dBi)	Efficiency (%)
2.4GHz	2.77	73
2.45GHz	3.33	75
2.5GHz	3.35	76
4.9GHz	2.70	70
5.15GHz	4.25	72
5.25GHz	4.38	73
5.35GHz	4.04	73
5.725GHz	4.19	70
5.825GHz	3.22	65



Master Wave

權億科技股份有限公司

Master Wave Technology Co., Ltd.

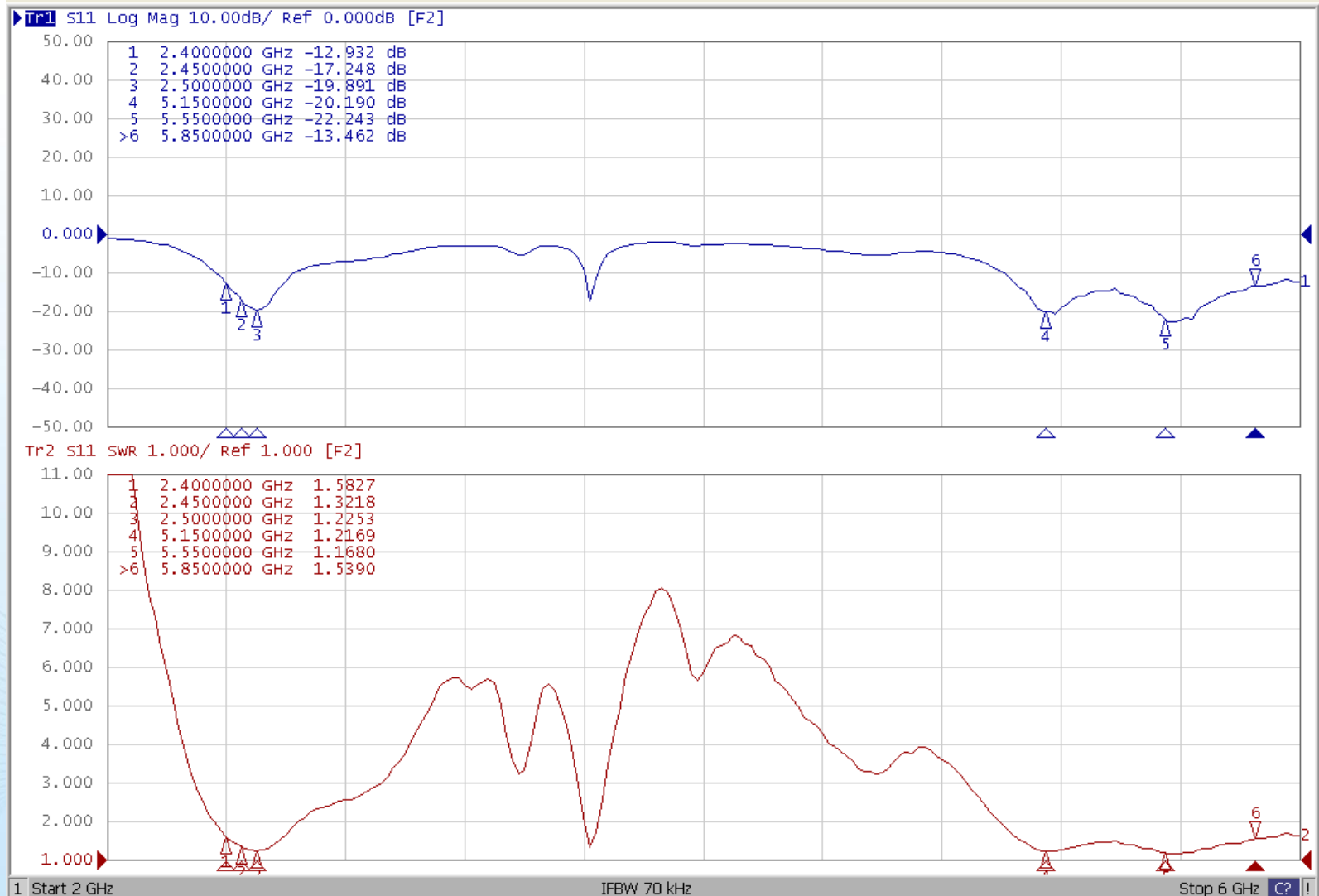
SSP 13950 2.4+5GHz Test Report

Measurement environment



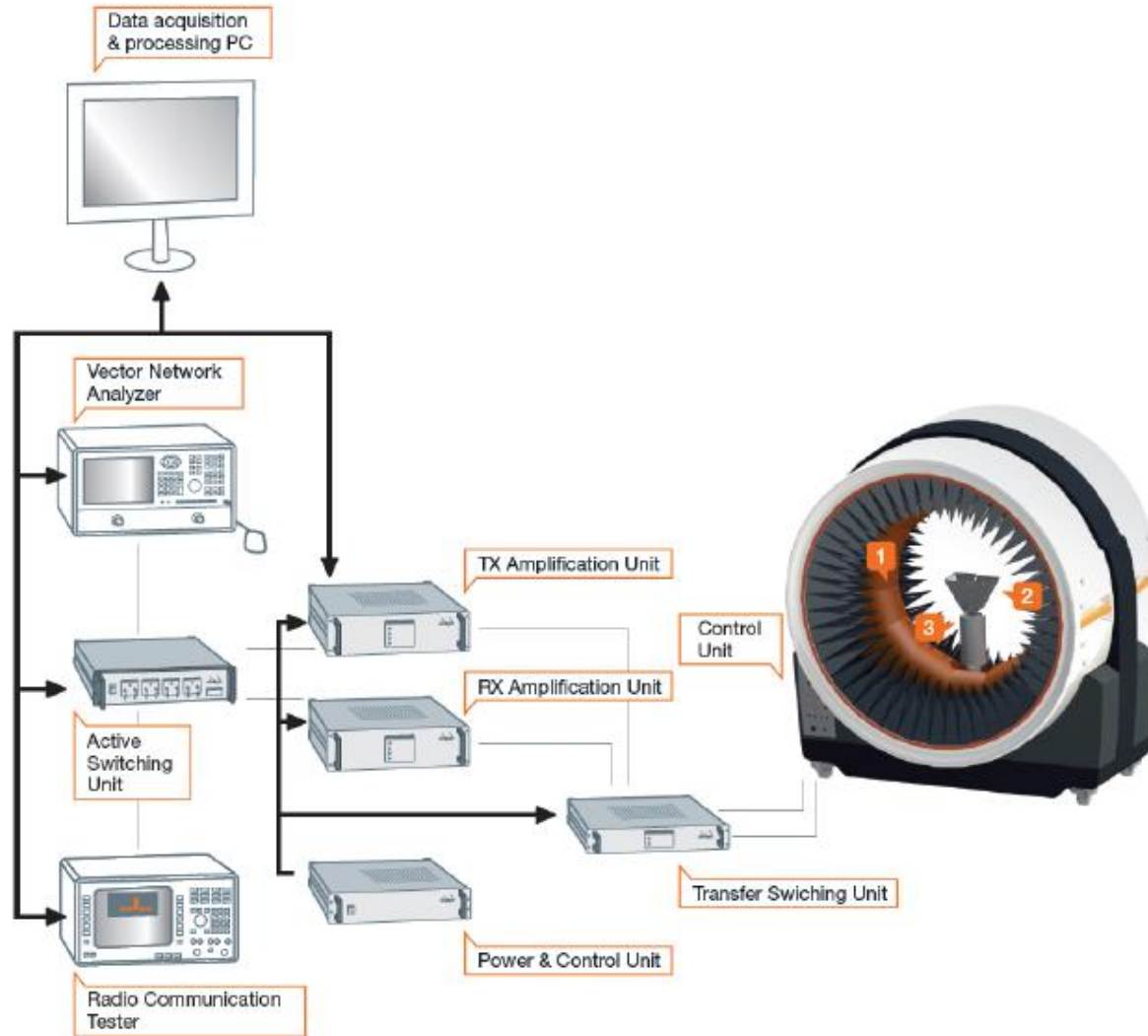


Impedance matching

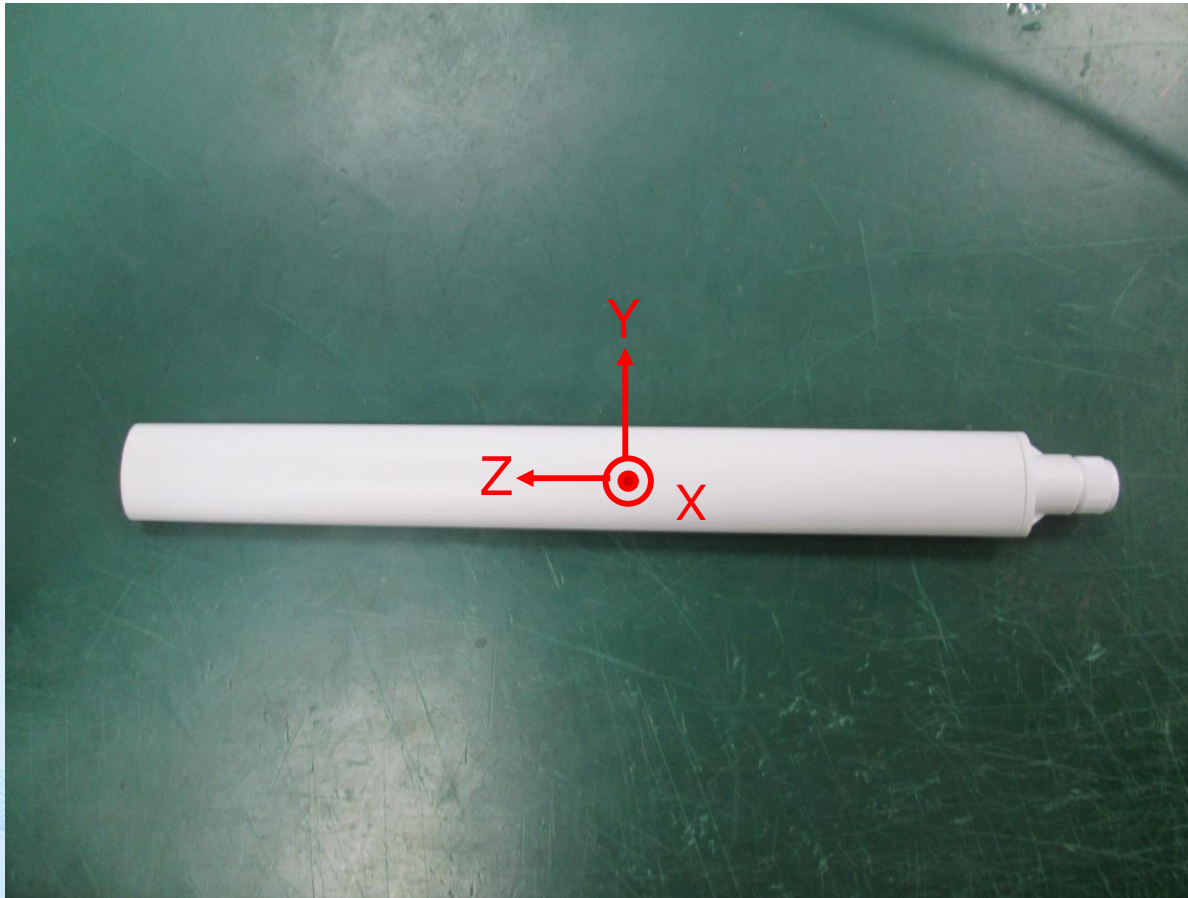




Satimo STARLAB Test Setup



Antenna Configuration





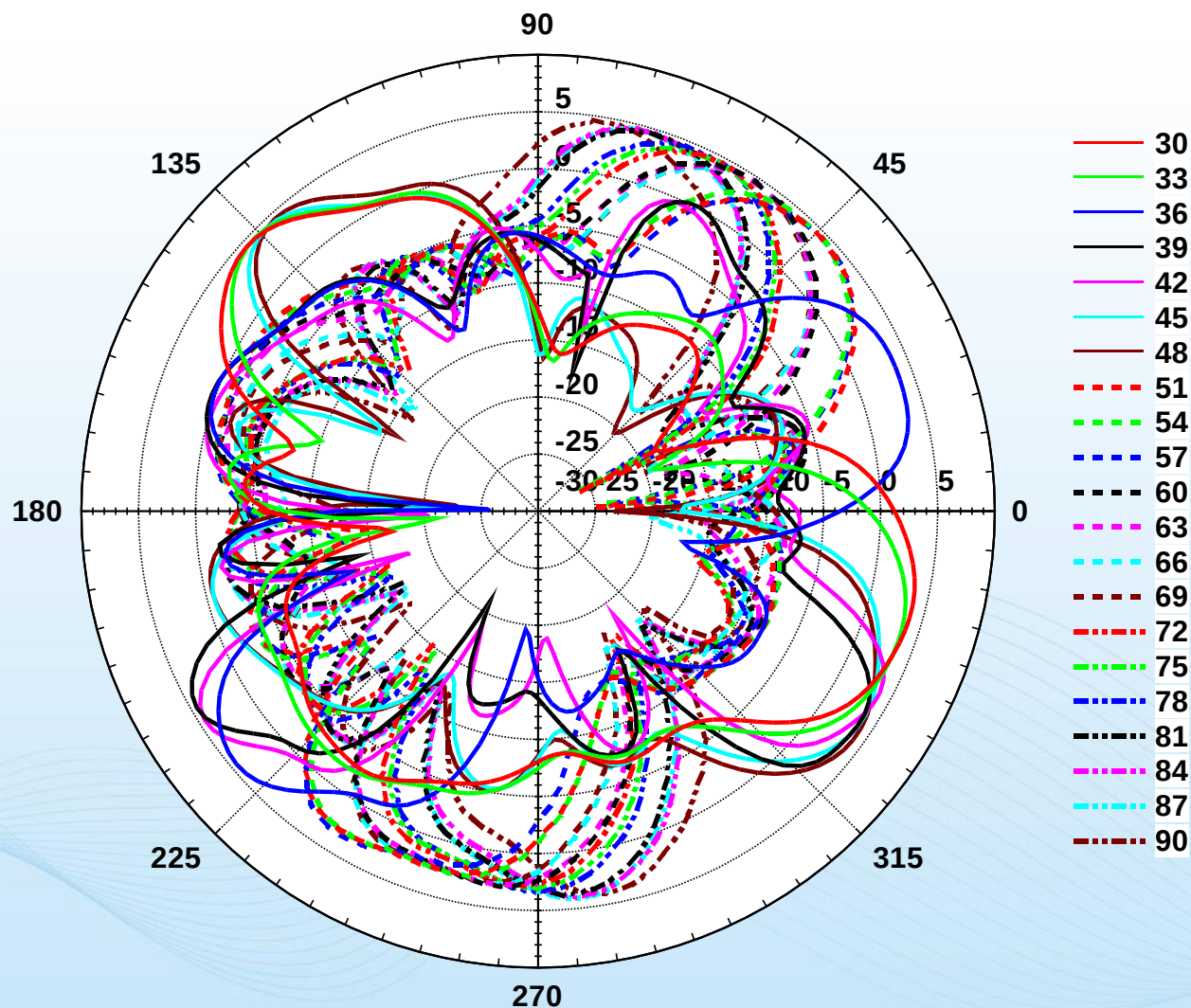
Peak Gain Table – 2412MHz

Deg.	Phi Cut Deg.	Peak Gain (dBi)
30	140	4.47
33	6	4.48
36	10	4.49
39	2	4.50
42	178	4.47
45	178	4.35
48	178	4.46
51	38	4.42
54	36	4.48
57	28	4.45
60	44	4.50
63	42	4.46
66	34	4.49
69	26	4.46
72	26	4.39
75	32	4.31
78	30	4.45
81	40	4.39
84	48	4.51
87	24	4.50
90	74	4.54

Deg.	Phi Cut Deg.	Peak Gain (dBi)
90	74	4.54
93	16	4.48
96	176	4.42
99	30	4.46
102	32	4.37
105	40	4.45
108	28	4.52
111	24	4.46
114	152	4.48
117	26	4.46
120	42	4.44
123	46	4.47
126	42	4.46
129	44	4.41
132	4	4.42
135	176	4.49
138	176	4.42
141	30	4.26
144	36	4.34
147	32	4.41
150	42	4.48

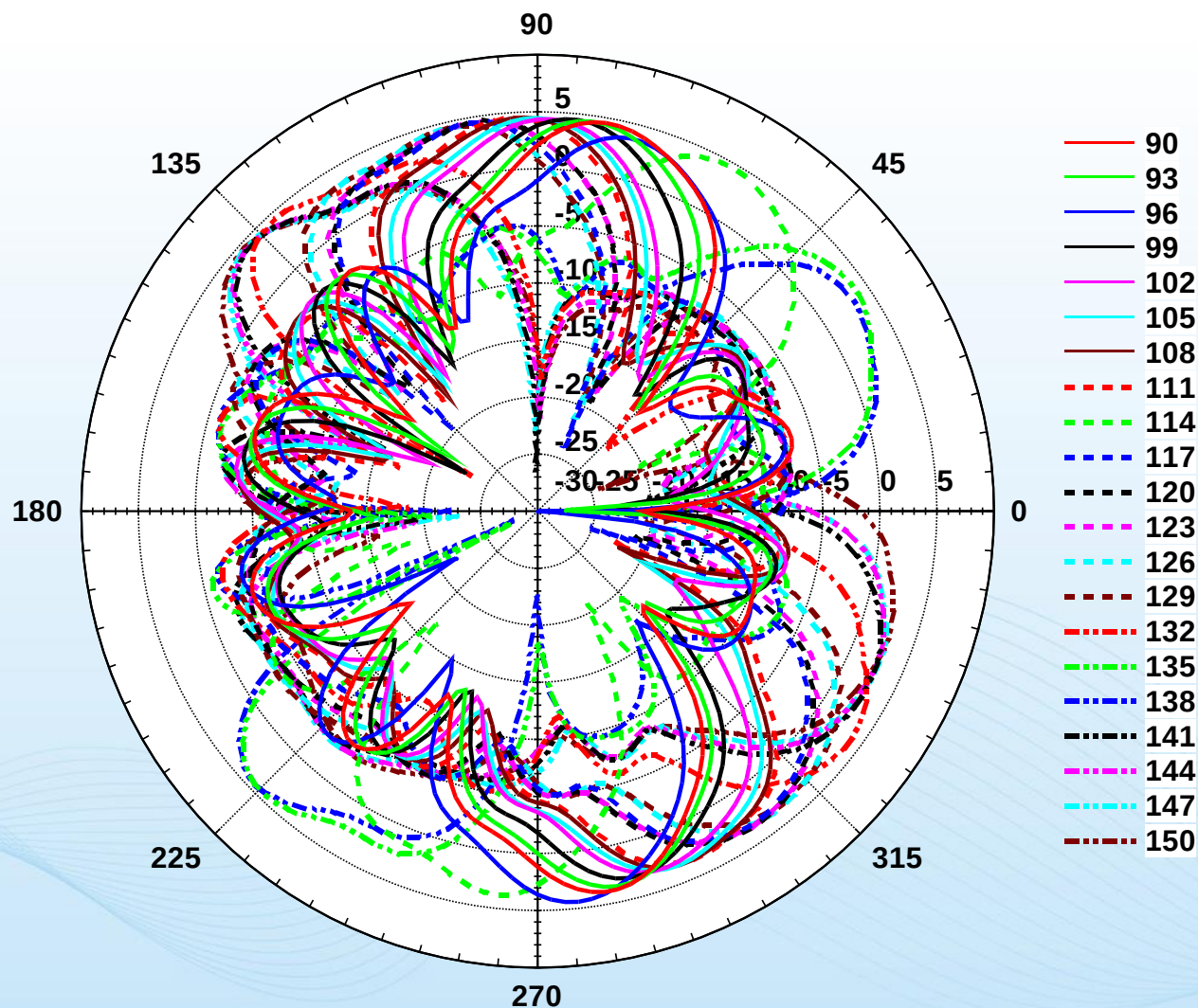


E-Plane Pattern 30deg to 90deg – 2412MHz





E-Plane Pattern 90deg to 150deg – 2412MHz





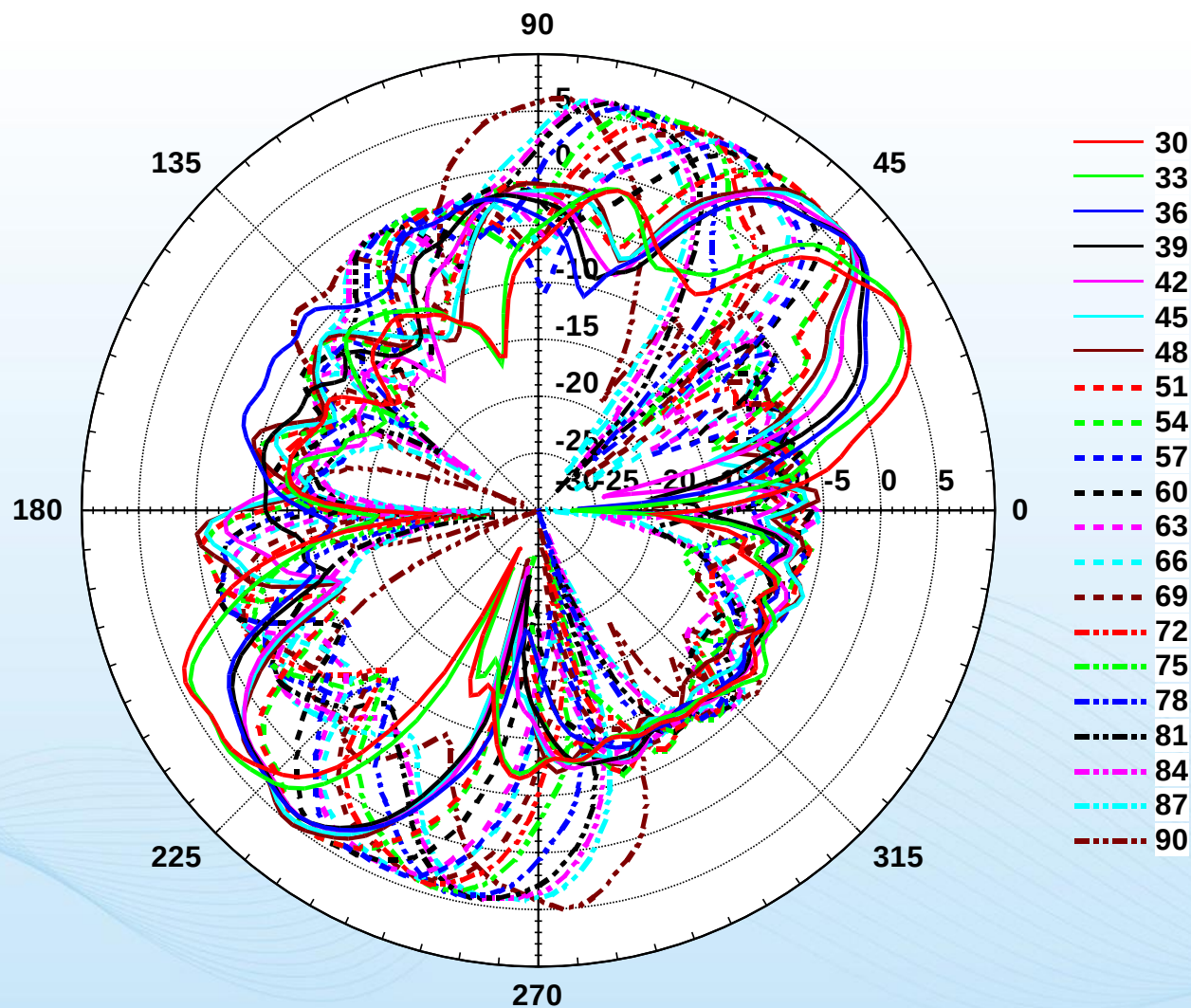
Peak Gain Table – 5180MHz

Deg.	Phi Cut Deg.	Peak Gain (dBi)
30	26	6.16
33	24	6.18
36	46	6.16
39	38	6.16
42	34	6.18
45	20	6.15
48	16	6.16
51	16	6.17
54	16	6.16
57	36	6.16
60	14	6.16
63	18	6.16
66	18	6.15
69	14	6.15
72	16	6.15
75	16	6.15
78	20	6.14
81	20	6.15
84	16	6.13
87	16	6.13
90	20	6.15

Deg.	Phi Cut Deg.	Peak Gain (dBi)
90	20	6.15
93	26	6.13
96	20	6.14
99	22	6.12
102	18	6.14
105	16	6.15
108	16	6.14
111	16	6.17
114	12	6.15
117	10	6.15
120	20	6.16
123	18	6.14
126	18	6.15
129	20	6.12
132	18	6.13
135	16	6.13
138	20	6.13
141	24	6.17
144	134	6.14
147	26	6.16
150	30	6.16

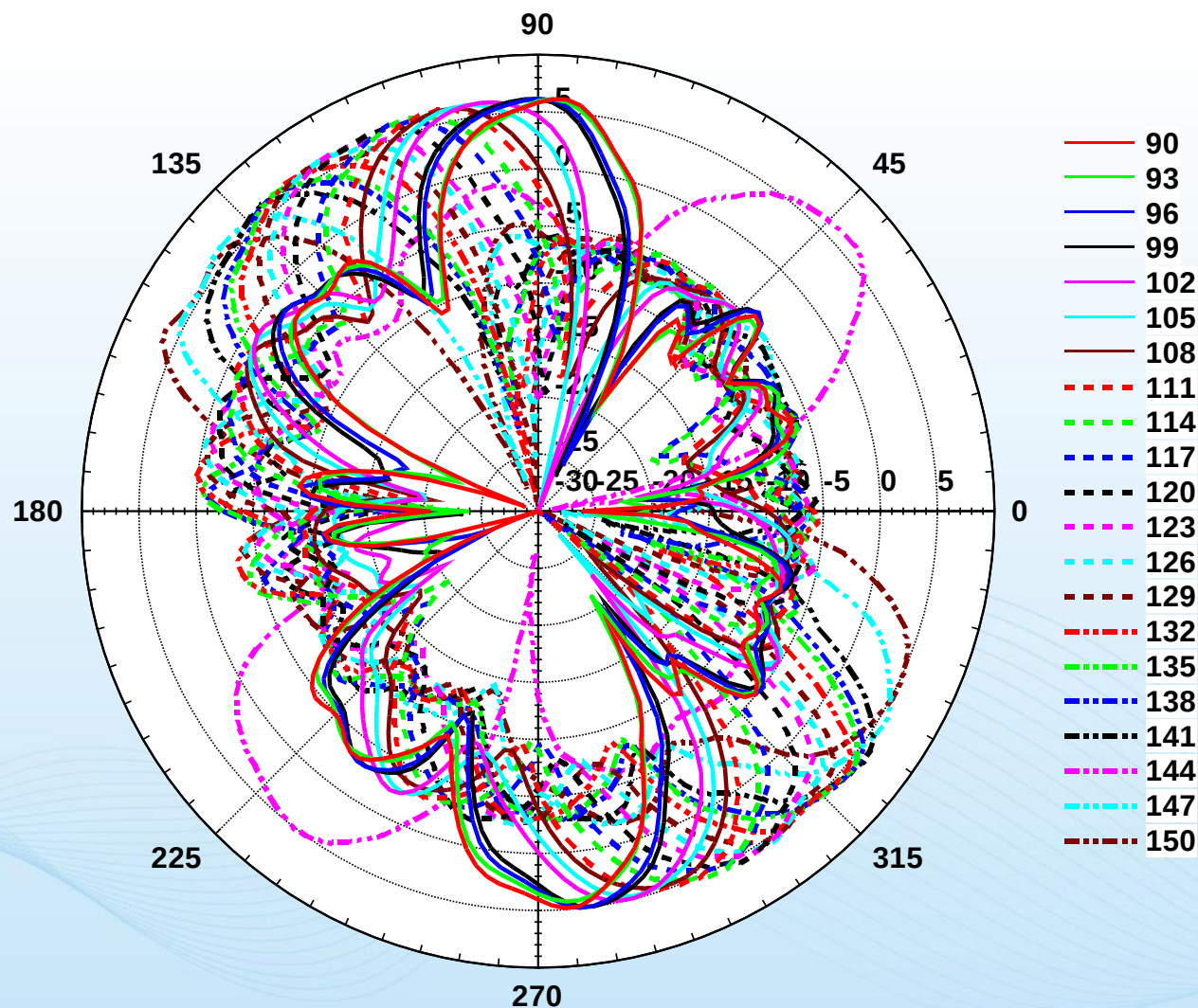


E-Plane Pattern 30deg to 90deg – 5180MHz





E-Plane Pattern 90deg to 150deg – 5180MHz





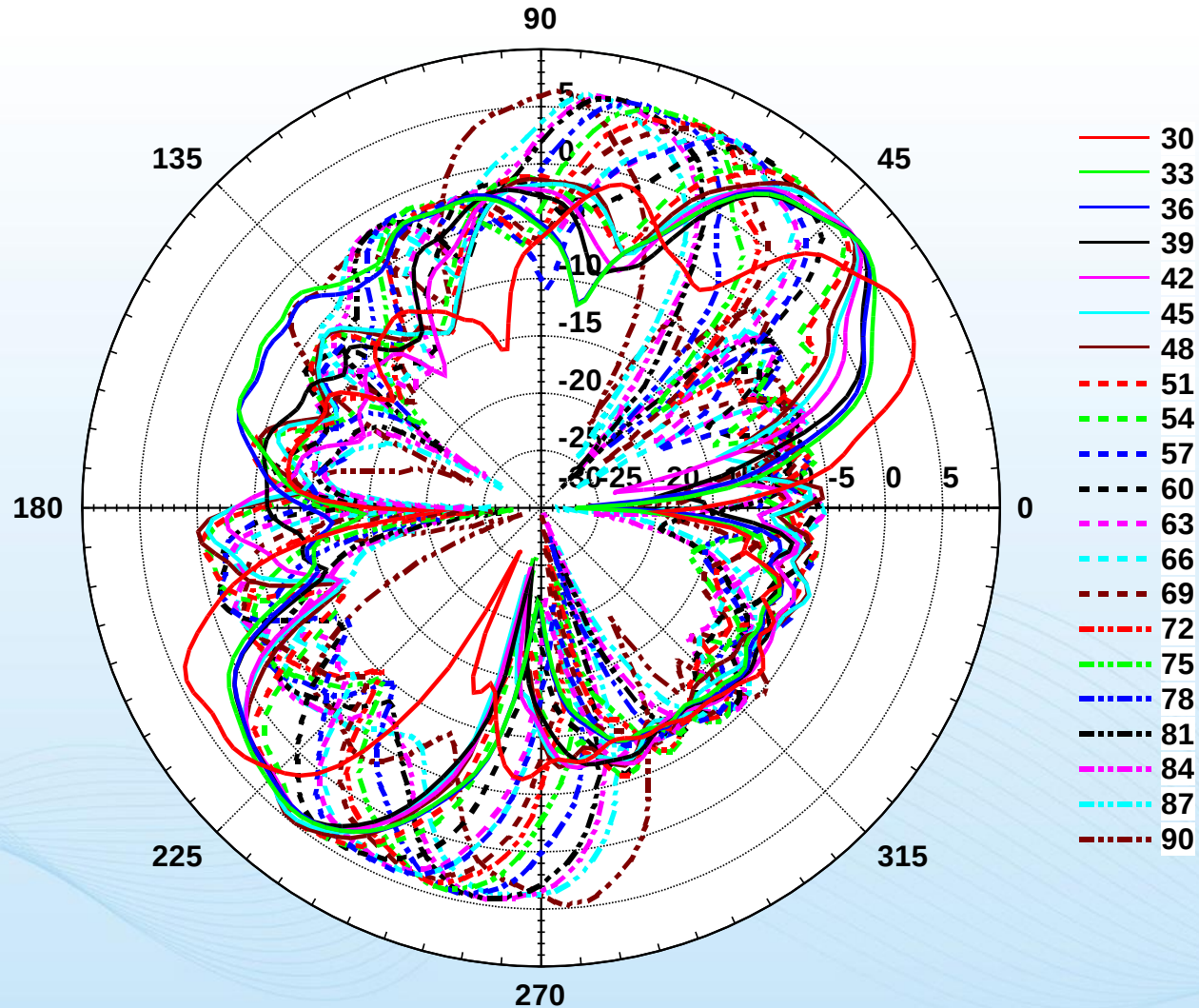
Peak Gain Table – 5190MHz

Deg.	Phi Cut Deg.	Peak Gain (dBi)
30	26	6.15
33	50	6.13
36	46	6.15
39	38	6.15
42	34	6.16
45	20	6.15
48	16	6.15
51	12	6.16
54	16	6.15
57	36	6.15
60	14	6.15
63	18	6.16
66	18	6.16
69	14	6.13
72	16	6.12
75	16	6.17
78	20	6.14
81	20	6.15
84	18	6.13
87	20	6.12
90	20	6.14

Deg.	Phi Cut Deg.	Peak Gain (dBi)
90	20	6.14
93	26	6.12
96	22	6.15
99	22	6.14
102	18	6.15
105	16	6.13
108	16	6.15
111	16	6.15
114	12	6.15
117	10	6.17
120	20	6.14
123	16	6.14
126	20	6.16
129	20	6.12
132	18	6.13
135	16	6.15
138	16	6.14
141	24	6.14
144	136	6.15
147	26	6.15
150	30	6.14

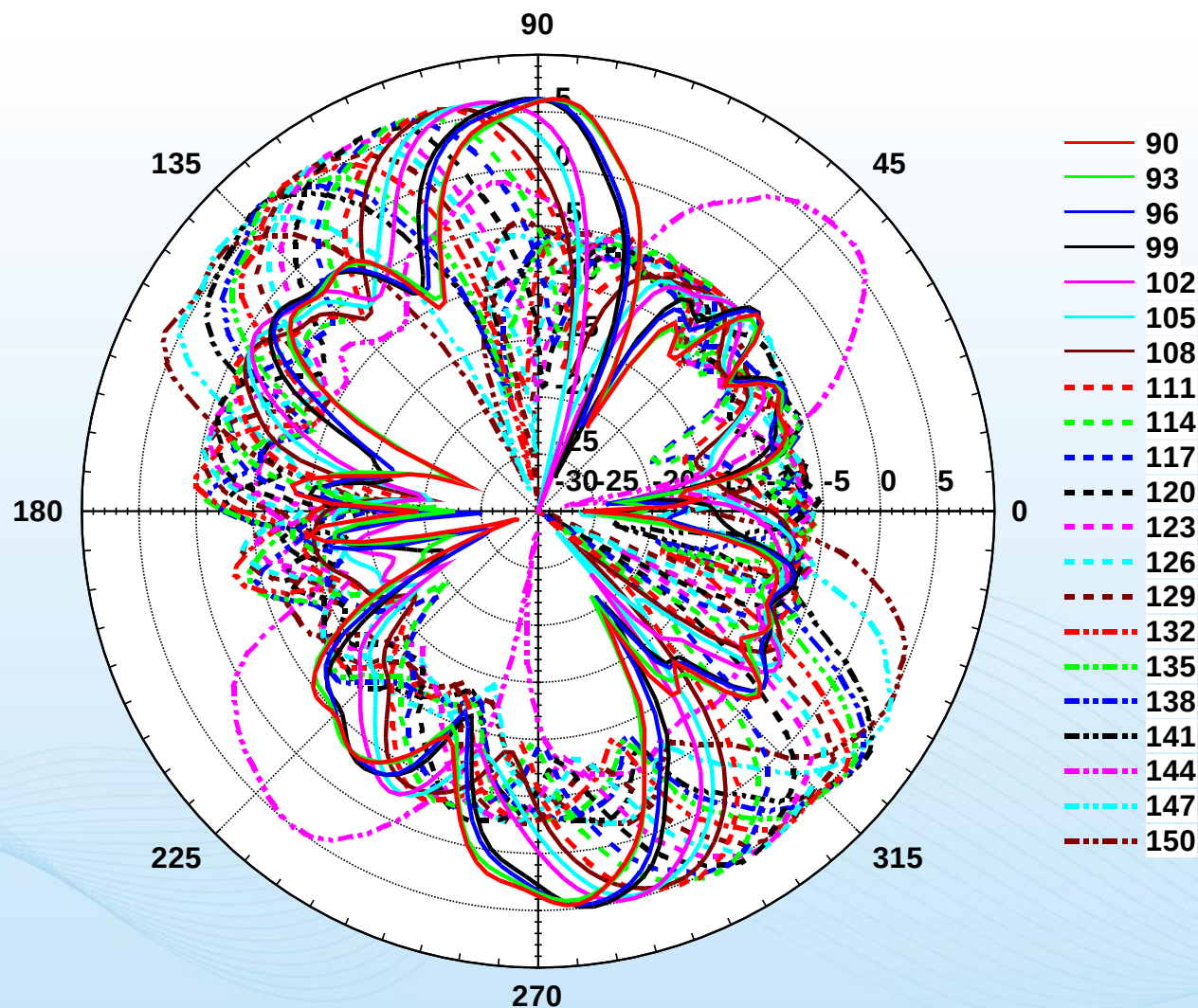


E-Plane Pattern 30deg to 90deg – 5190MHz





E-Plane Pattern 90deg to 150deg – 5190MHz





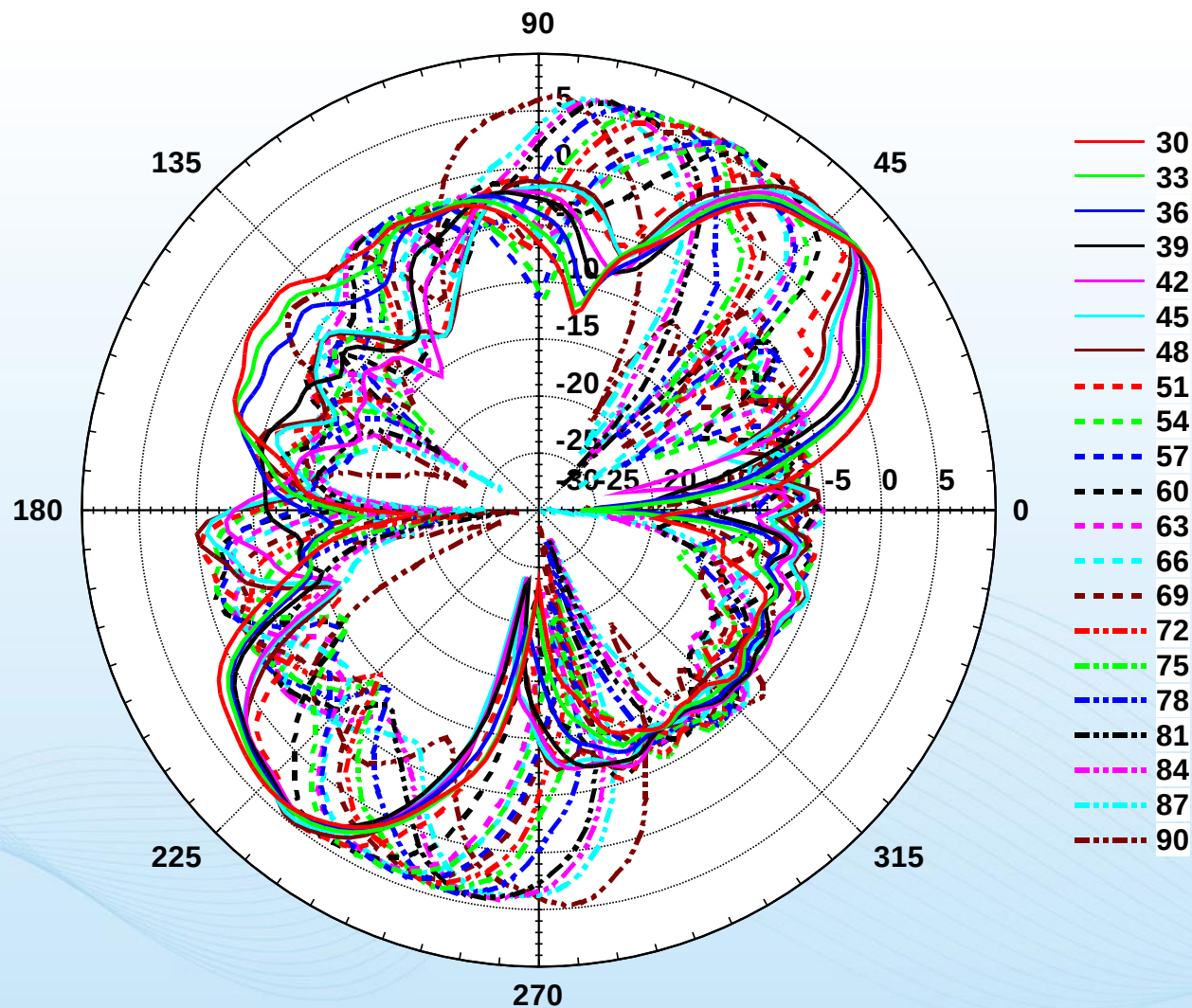
Peak Gain Table – 5200MHz

Deg.	Phi Cut Deg.	Peak Gain (dBi)
30	52	6.13
33	50	6.17
36	46	6.16
39	36	6.13
42	34	6.12
45	20	6.15
48	14	6.15
51	12	6.17
54	42	6.14
57	36	6.17
60	12	6.18
63	18	6.15
66	18	6.14
69	14	6.14
72	16	6.14
75	16	6.14
78	18	6.15
81	20	6.14
84	16	6.14
87	20	6.14
90	22	6.13

Deg.	Phi Cut Deg.	Peak Gain (dBi)
90	20	6.13
93	28	6.12
96	22	6.16
99	22	6.18
102	18	6.16
105	16	6.14
108	16	6.16
111	16	6.15
114	10	6.12
117	10	6.16
120	20	6.14
123	18	6.13
126	20	6.16
129	20	6.15
132	16	6.15
135	16	6.15
138	16	6.15
141	22	6.12
144	136	6.15
147	26	6.13
150	32	6.14

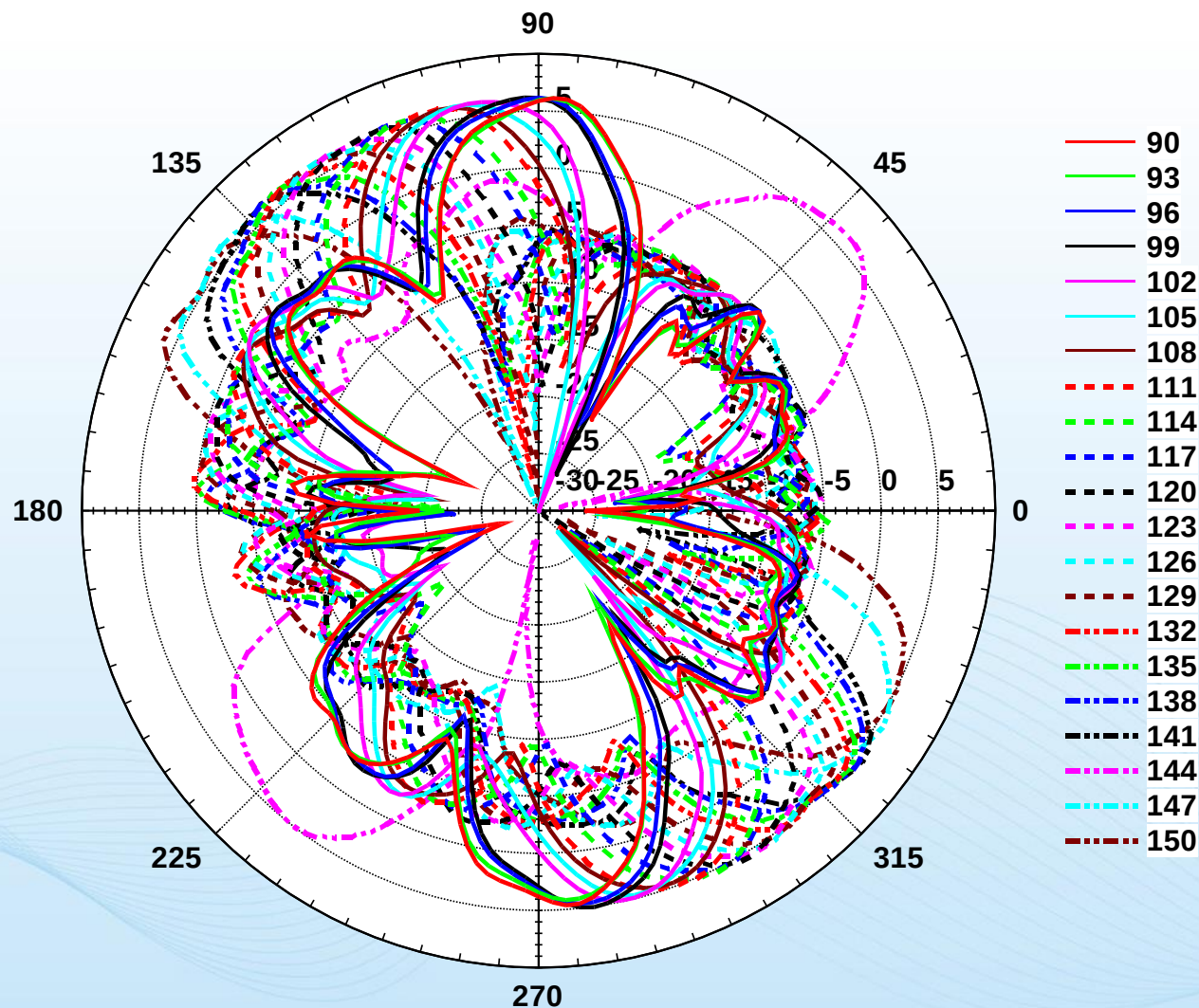


E-Plane Pattern 30deg to 90deg – 5200MHz





E-Plane Pattern 90deg to 150deg – 5200MHz





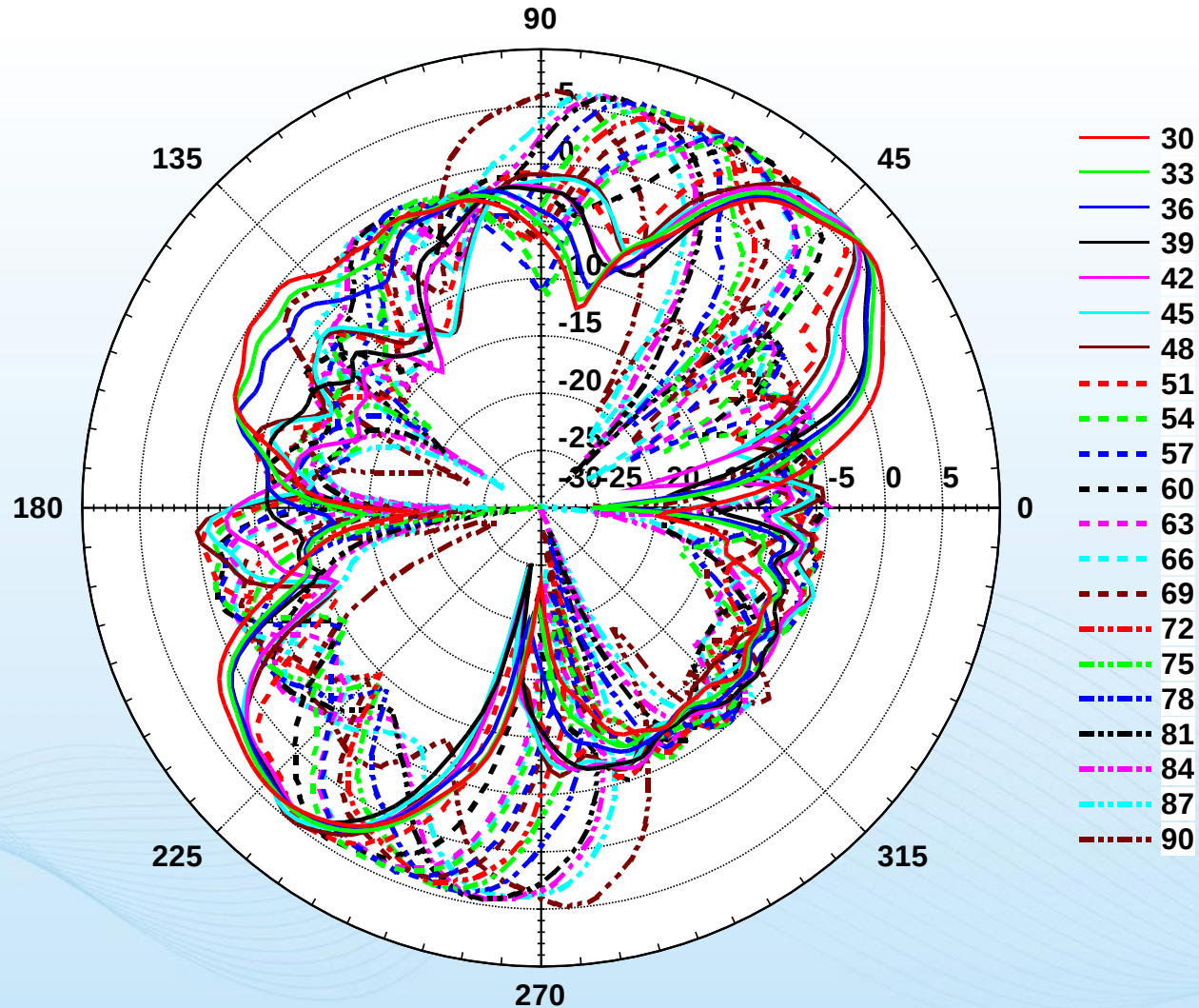
Peak Gain Table – 5210MHz

Deg.	Phi Cut Deg.	Peak Gain (dBi)
30	52	6.17
33	50	6.17
36	46	6.16
39	36	6.12
42	34	6.17
45	20	6.17
48	14	6.17
51	12	6.14
54	42	6.17
57	36	6.17
60	12	6.16
63	16	6.14
66	16	6.15
69	12	6.13
72	16	6.17
75	16	6.13
78	18	6.15
81	20	6.14
84	22	6.13
87	20	6.16
90	22	6.15

Deg.	Phi Cut Deg.	Peak Gain (dBi)
90	20	6.15
93	28	6.14
96	22	6.16
99	22	6.16
102	18	6.15
105	16	6.15
108	16	6.16
111	16	6.14
114	10	6.15
117	10	6.13
120	20	6.15
123	18	6.13
126	20	6.12
129	20	6.17
132	16	6.16
135	16	6.15
138	18	6.14
141	22	6.11
144	136	6.16
147	26	6.15
150	32	6.15

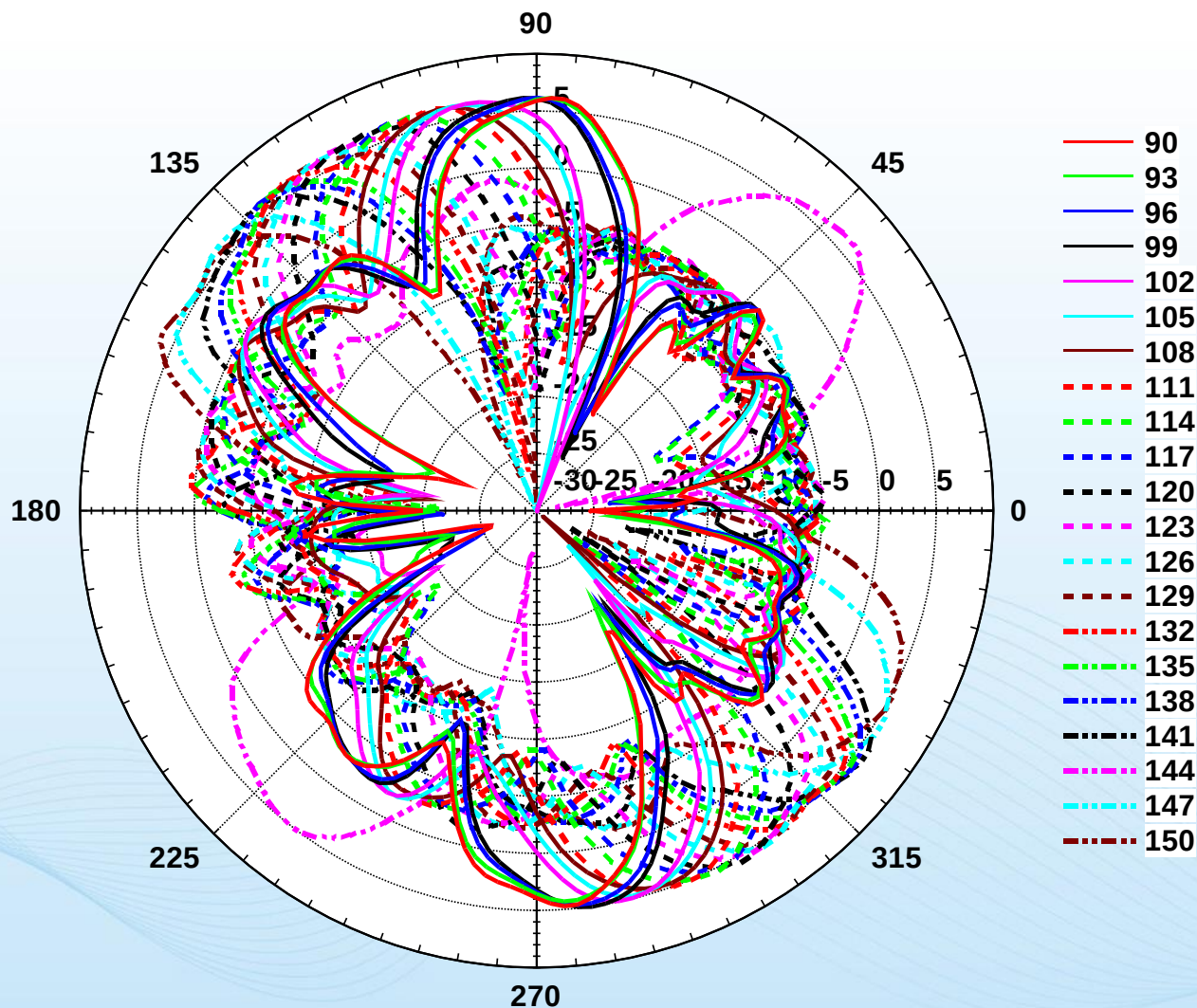


E-Plane Pattern 30deg to 90deg – 5210MHz





E-Plane Pattern 90deg to 150deg – 5210MHz





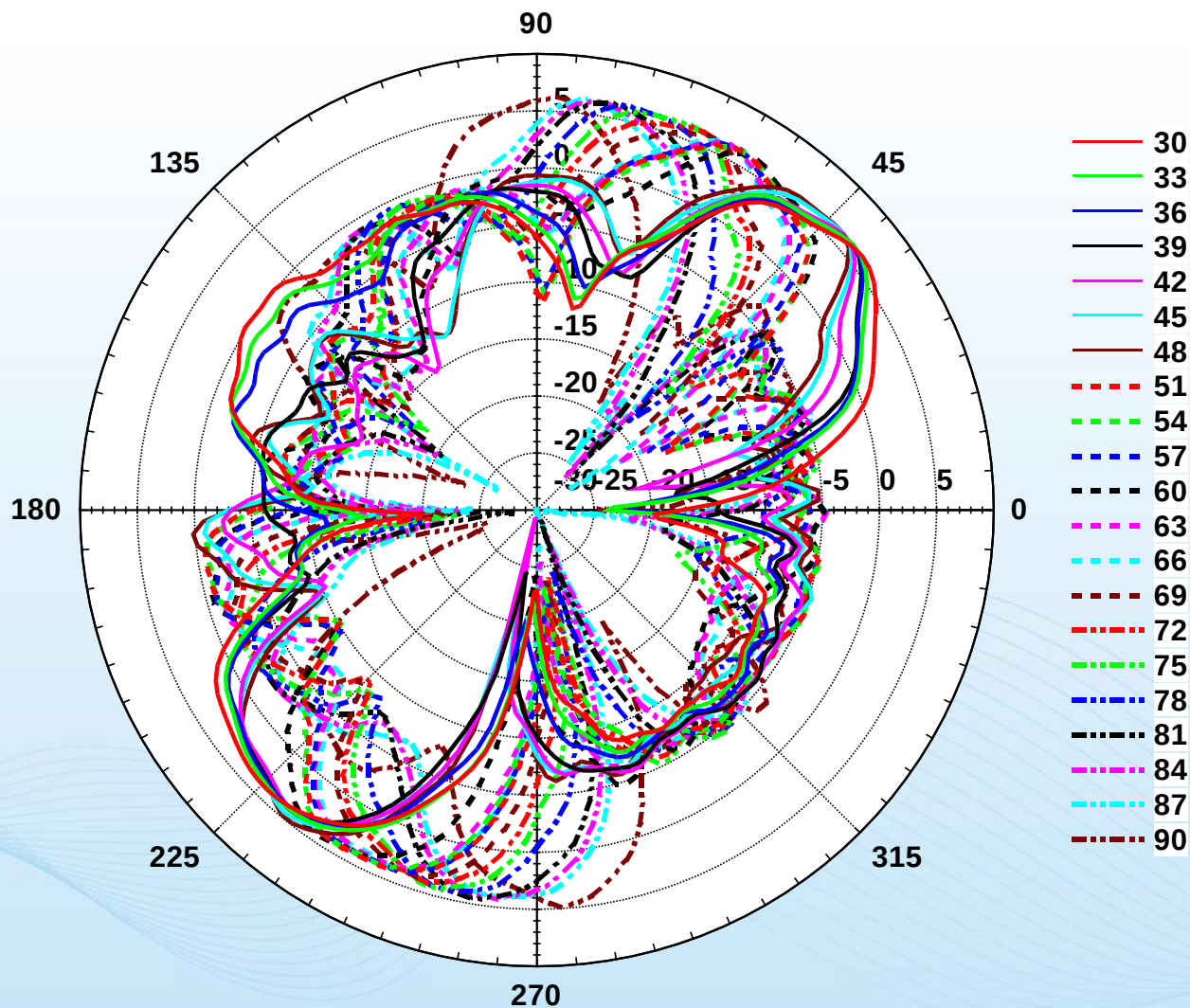
Peak Gain Table – 5230MHz

Deg.	Phi Cut Deg.	Peak Gain (dBi)
30	52	6.16
33	50	6.17
36	46	6.16
39	36	6.16
42	32	6.14
45	18	6.17
48	14	6.16
51	42	6.17
54	40	6.16
57	36	6.17
60	12	6.14
63	16	6.15
66	16	6.16
69	12	6.14
72	16	6.16
75	16	6.17
78	18	6.16
81	20	6.13
84	22	6.11
87	22	6.15
90	20	6.12

Deg.	Phi Cut Deg.	Peak Gain (dBi)
90	20	6.12
93	28	6.16
96	22	6.13
99	22	6.17
102	18	6.17
105	16	6.17
108	16	6.15
111	14	6.14
114	10	6.13
117	10	6.15
120	18	6.13
123	18	6.15
126	18	6.16
129	18	6.14
132	16	6.15
135	18	6.16
138	20	6.13
141	24	6.16
144	136	6.14
147	26	6.12
150	34	6.14

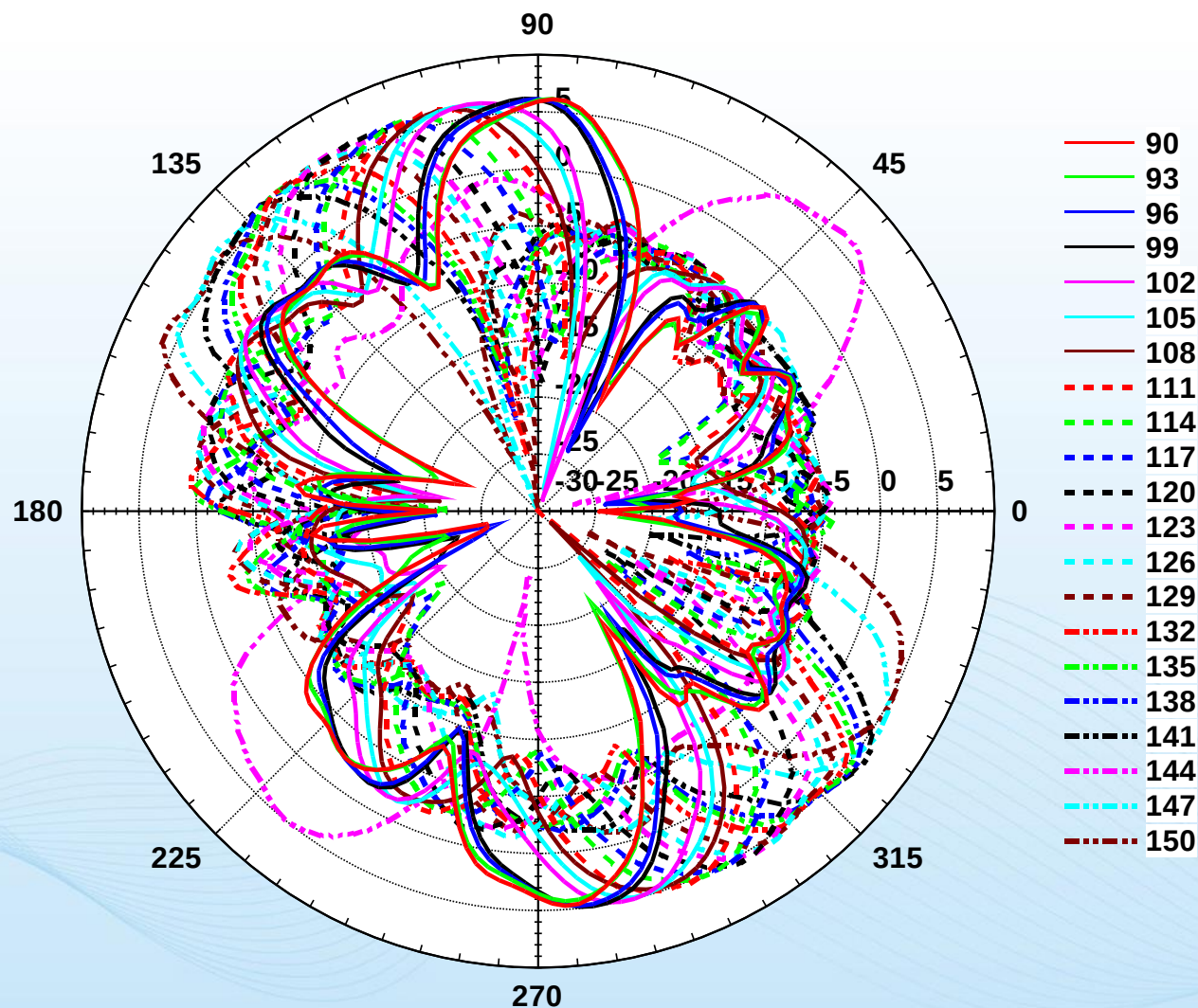


E-Plane Pattern 30deg to 90deg – 5230MHz





E-Plane Pattern 90deg to 150deg – 5230MHz





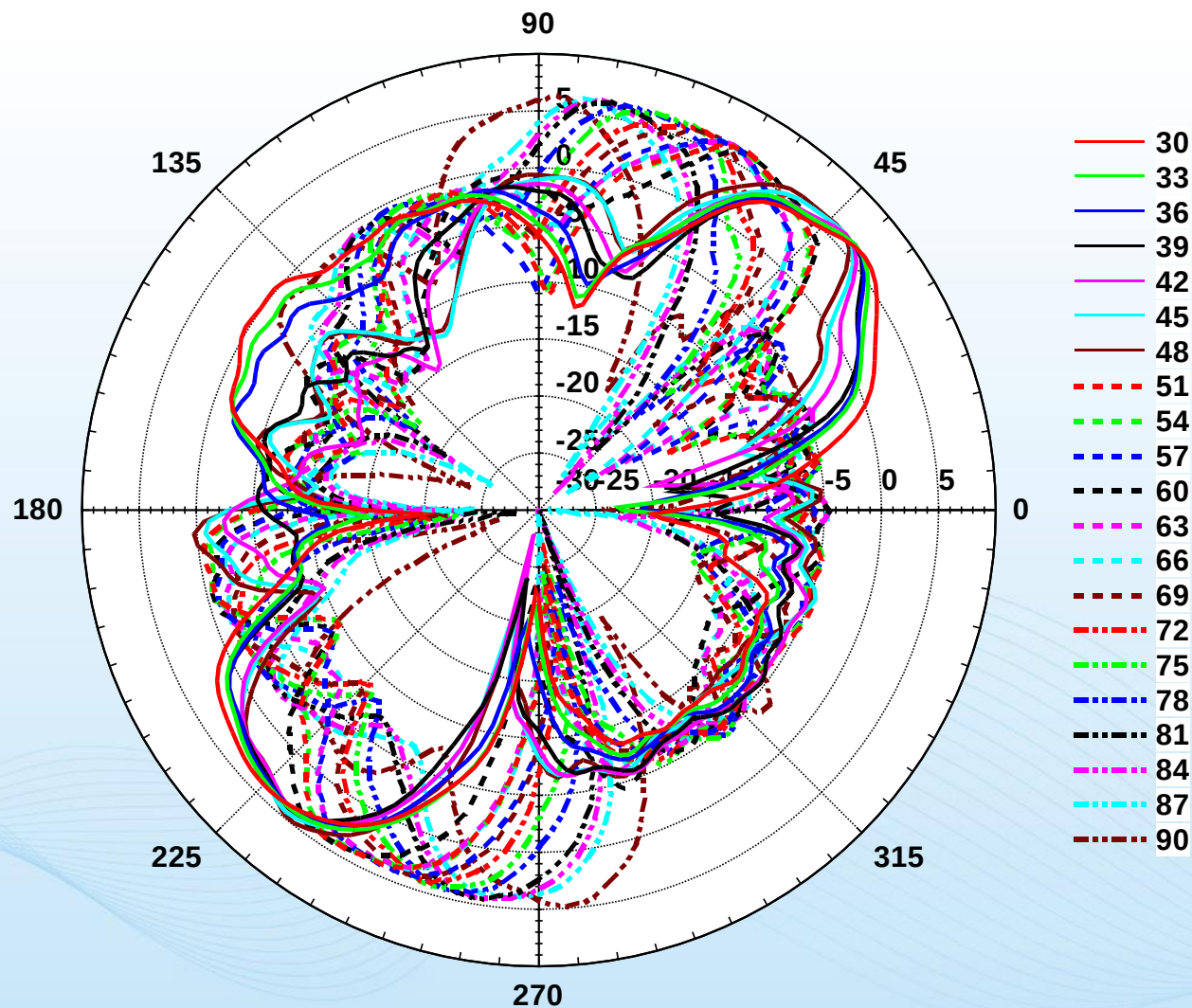
Peak Gain Table – 5240MHz

Deg.	Phi Cut Deg.	Peak Gain (dBi)
30	52	6.16
33	50	6.16
36	46	6.17
39	36	6.15
42	32	6.16
45	18	6.17
48	16	6.15
51	40	6.16
54	40	6.16
57	34	6.16
60	12	6.16
63	16	6.13
66	16	6.15
69	12	6.15
72	16	6.16
75	16	6.15
78	18	6.16
81	20	6.17
84	20	6.16
87	22	6.15
90	20	6.16

Deg.	Phi Cut Deg.	Peak Gain (dBi)
90	20	6.16
93	26	6.16
96	20	6.16
99	20	6.15
102	18	6.16
105	16	6.15
108	16	6.14
111	14	6.13
114	10	6.14
117	10	6.11
120	18	6.17
123	18	6.17
126	18	6.16
129	18	6.16
132	18	6.15
135	18	6.15
138	20	6.13
141	24	6.14
144	136	6.16
147	26	6.16
150	34	6.13



E-Plane Pattern 30deg to 90deg – 5240MHz





E-Plane Pattern 90deg to 150deg – 5240MHz

