

# Antenna Report

IC: 24273-6387

FCC-ID: 2A4DH-6387

Model Number: K3R6AT

Date: 2023/06/02

# Antenna Specification

## Operating Frequency Range:

2.4GHz WiFi-0 2G/BT Antenna: 2.412 to 2.472 GHz

2.4GHz WiFi-1 2G Antenna: 2.412 to 2.472 GHz

5/6GHz WiFi-0 5/6G Antenna: 5.18 to 7.115 GHz

5/6GHz WiFi-1 5/6G Antenna: 5.18 to 7.115 GHz

## Antenna Type:

2.4GHz WiFi-0/BT, 2G WiFi-1 antenna: Printed PCB slot antenna

5/6GHz WiFi-0, 5G WiFi-1 antenna: Printed PCB monopole antenna

## Peak Antenna Gain:

Freq Band	WiFi Ant 0	WiFi Ant 1	BT Ant 0
<b>2.4GHz</b>	2.0	1.0	2.0
<b>5GHz</b>			
UNII 1 5150-5250MHz	3.5	3.0	
UNII 2a 5250-5350MHz	3.5	3.0	
UNII 2c 5470-5725MHz	5.0	4.0	
UNII 3 5725-5850MHz	5.0	4.0	
<b>6GHz</b>			
UNII 5 5925-6425MHz	5.0	5.0	
UNII 6 6425-6525MHz	5.0	5.0	
UNII 7 6525-6875MHz	5.0	5.0	
UNII 8 6825-7125MHz	4.0	4.5	

# Antenna Gain Measurement

## Measurement Test Method:

Solder pigtails on feeding point of antennas and measure passive antenna performance by VNA and OTA chamber system. And the measurement was done in devices level.

## Test Equipment Used:

1. VNA: KEYGIGHT\_E5071C
2. OTA chamber: ETS\_AMS-8923-142-G Antenna Measurement System

## Antenna / Equipment Calibration:

Calibration date: 2023/03/31

Next calibration date: 2023/06/30

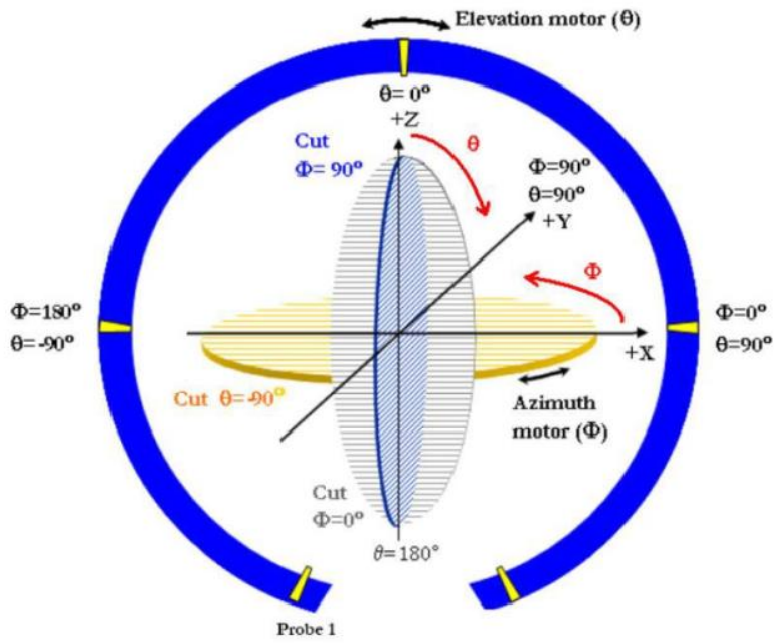
## Measurement Environment:

Foxconn CNT chamber in Hsinchu Company

Use Chamber: ETS LINDGREN, AMS-8923-142-G

Test Engineer: Bryan Chan

Test Setup:

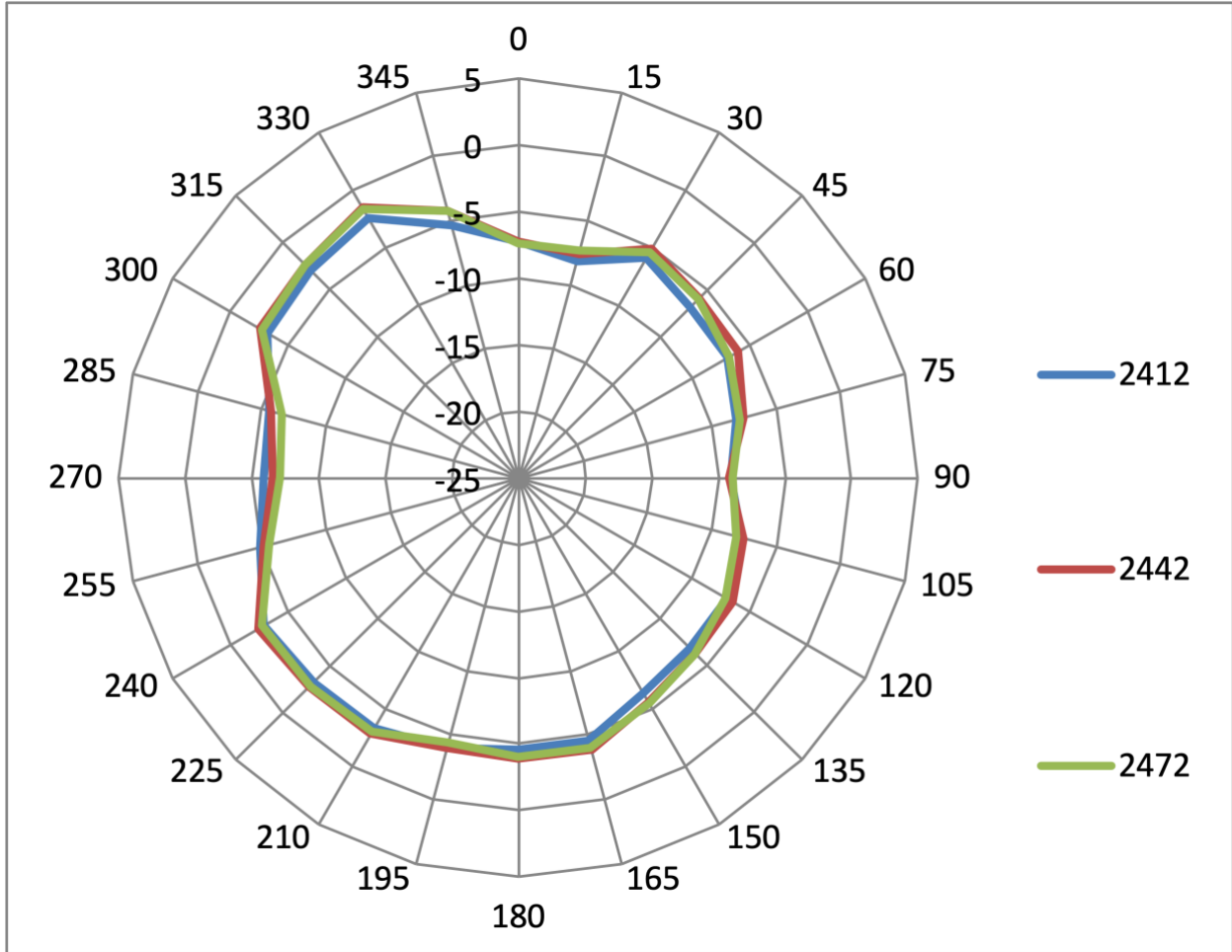


*\*Please see setup photos document for further details.*

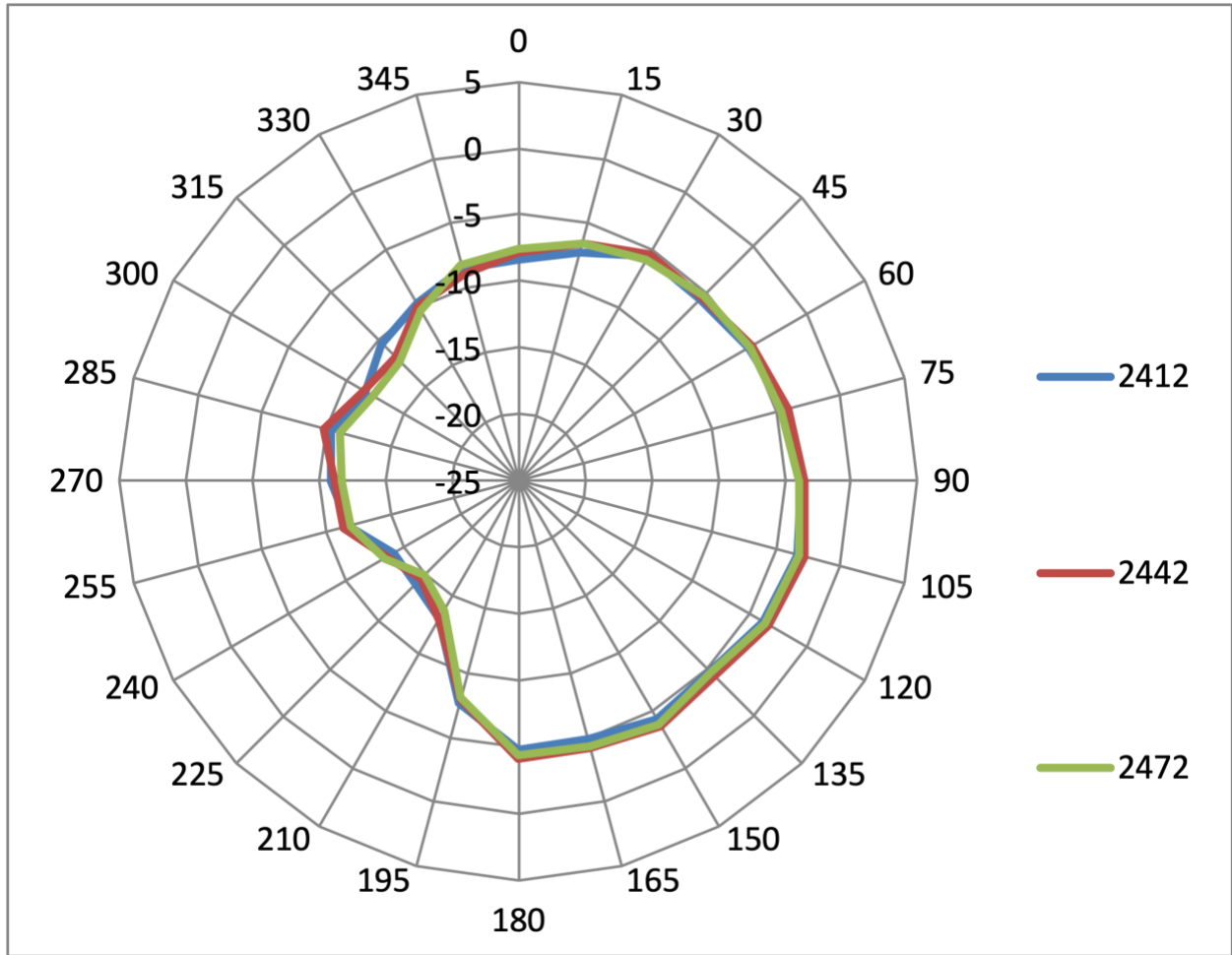
Antenna Patterns:

2.4GHz WiFi-0/BT Antenna

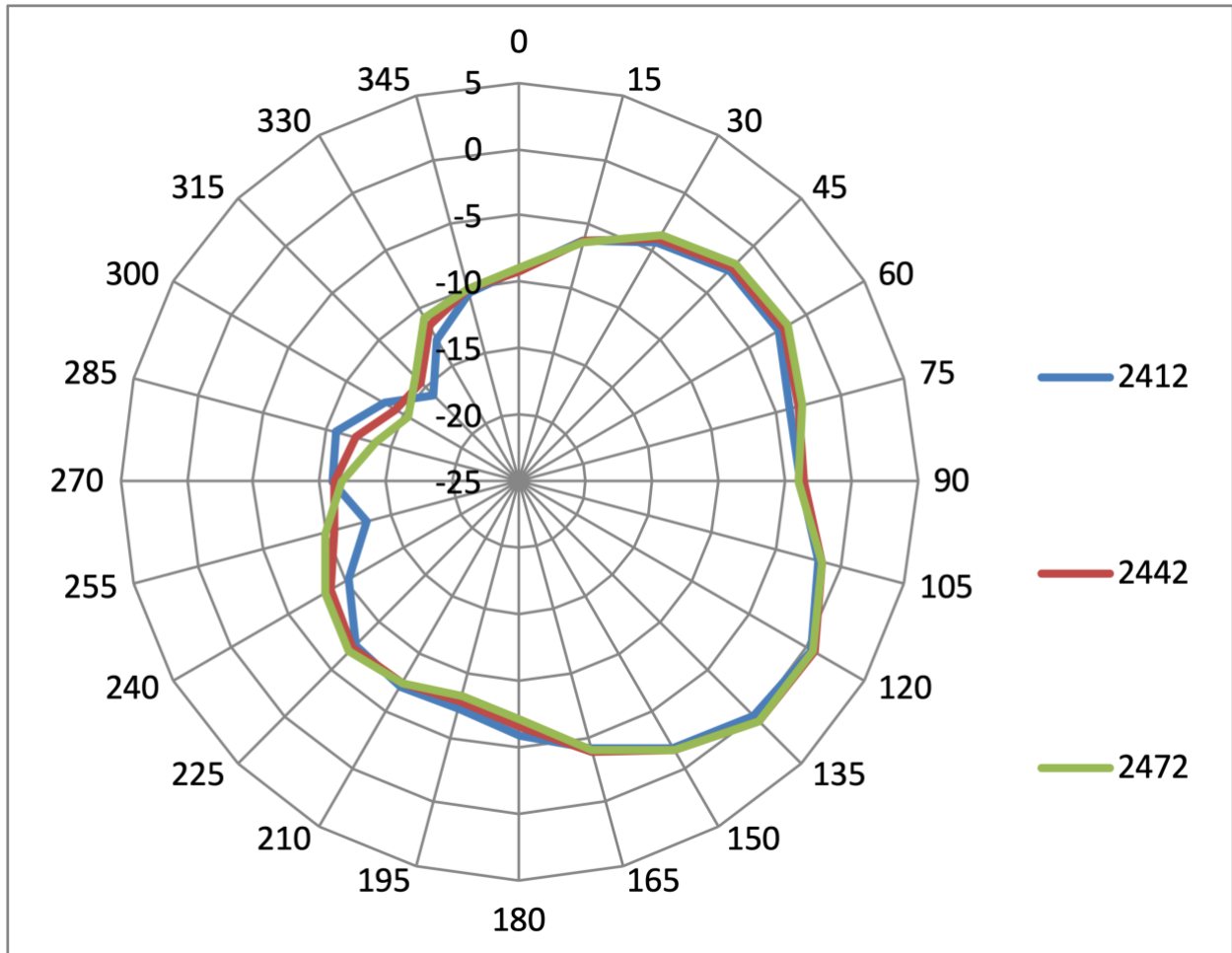
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Phi90

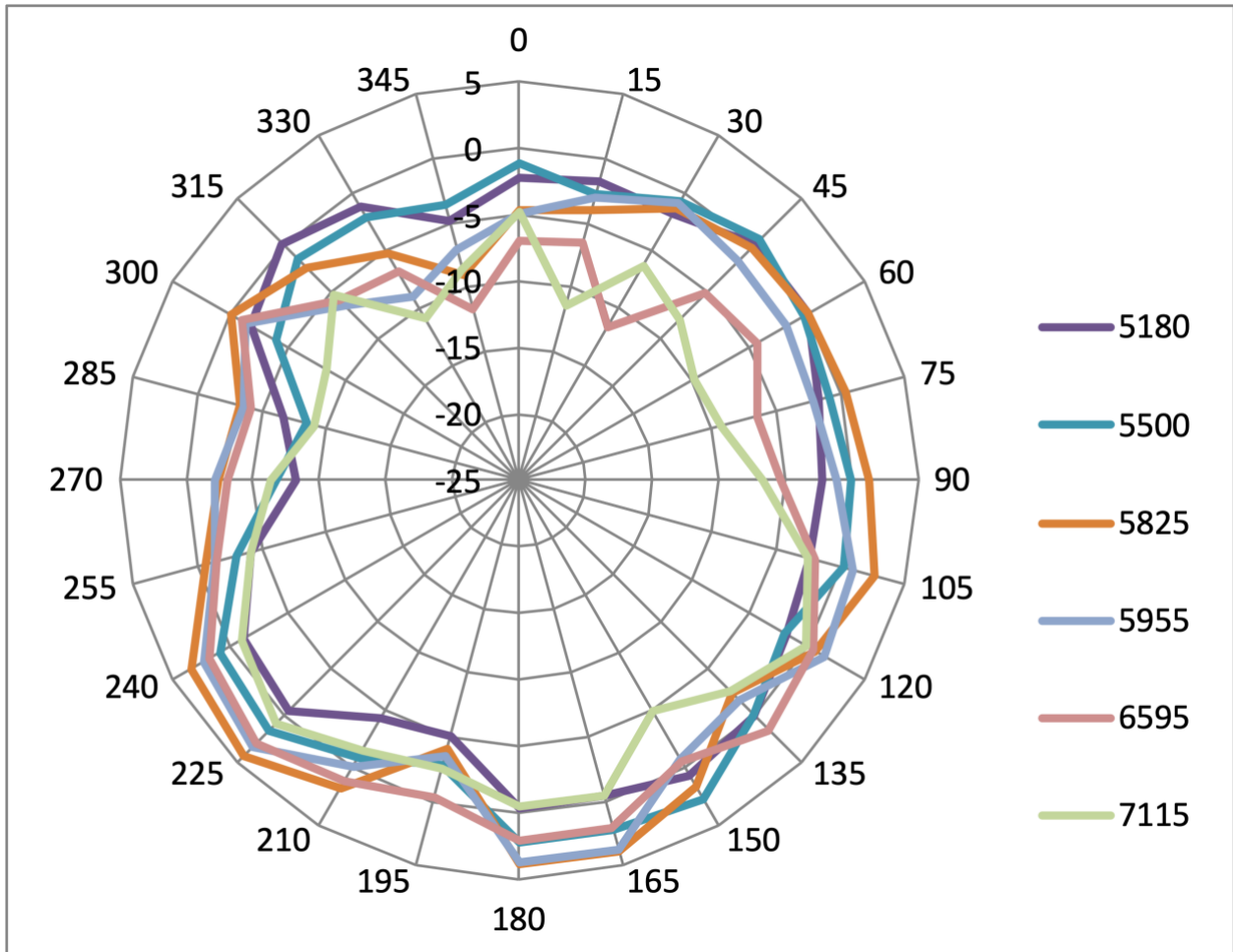


Theta 90



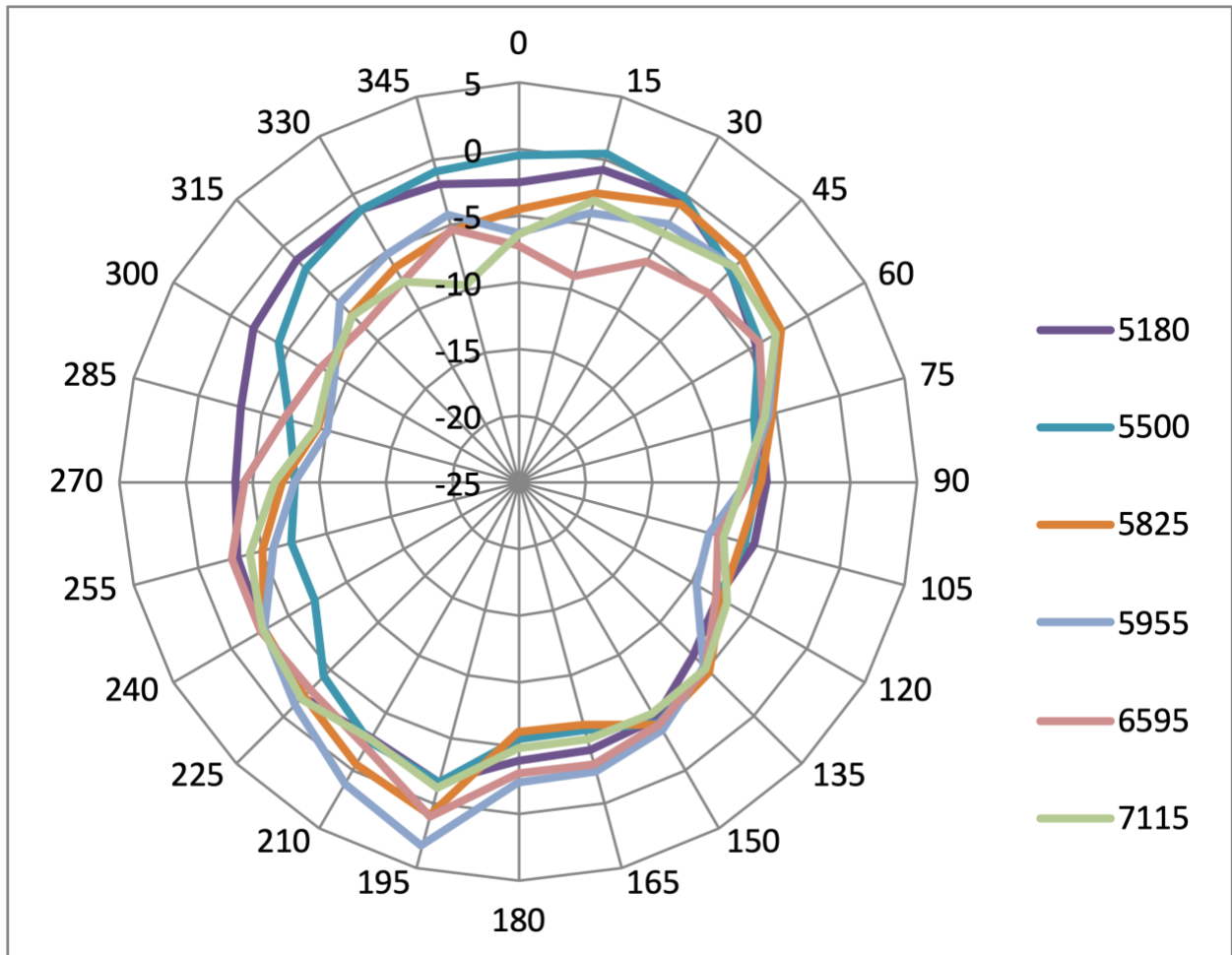
5/6GHz WiFi-0 Antenna

Phi=0

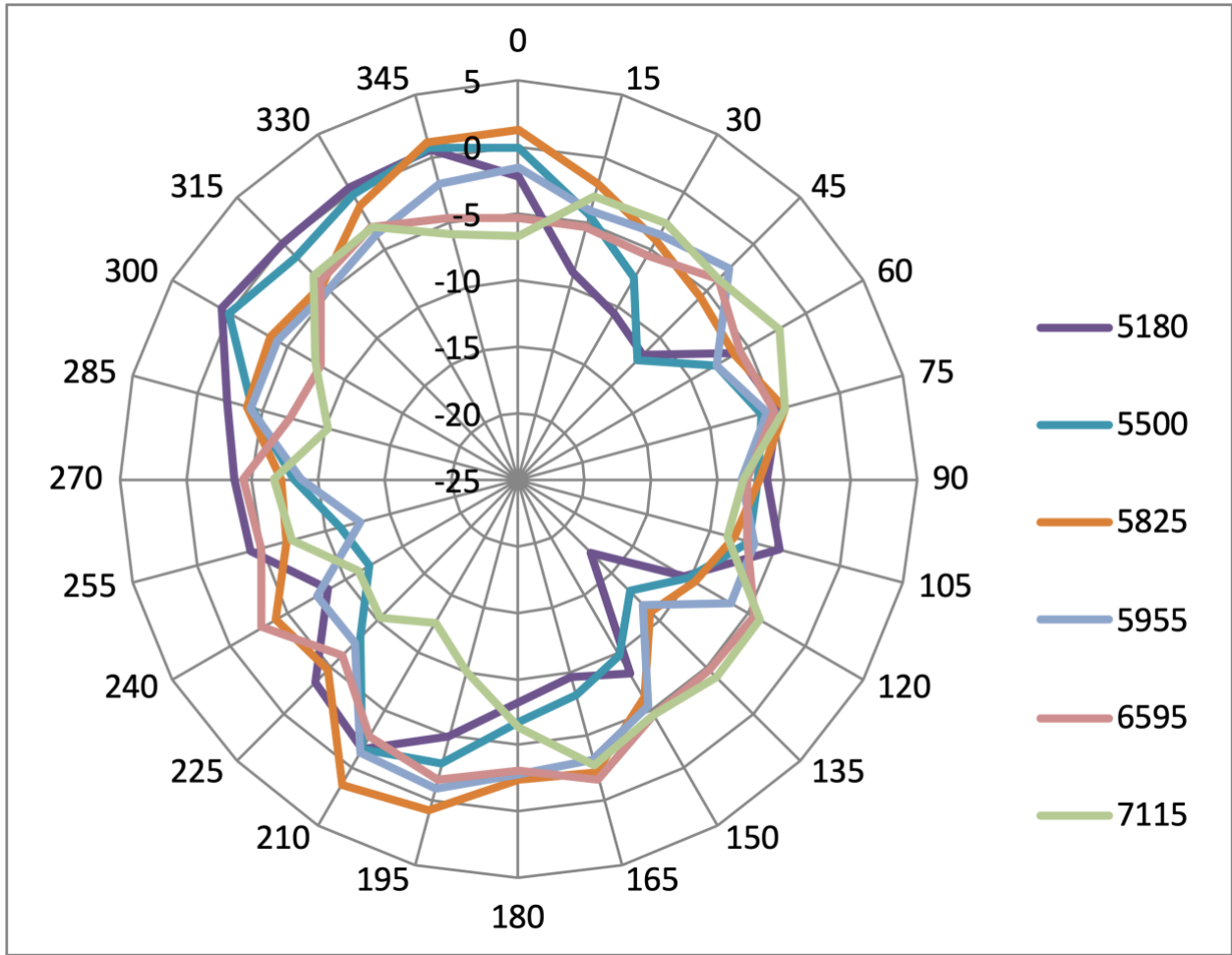




Phi=90

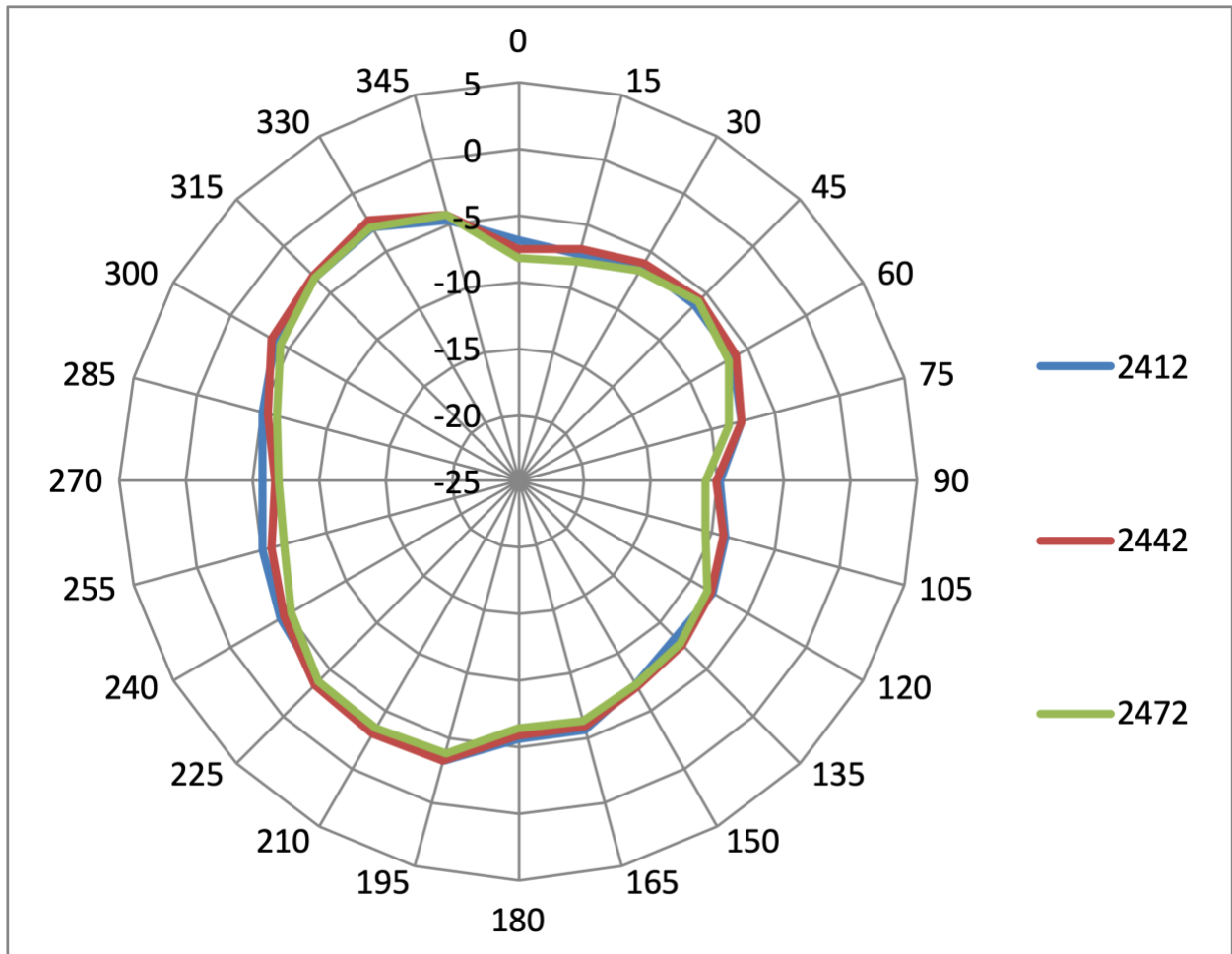


Theta 90

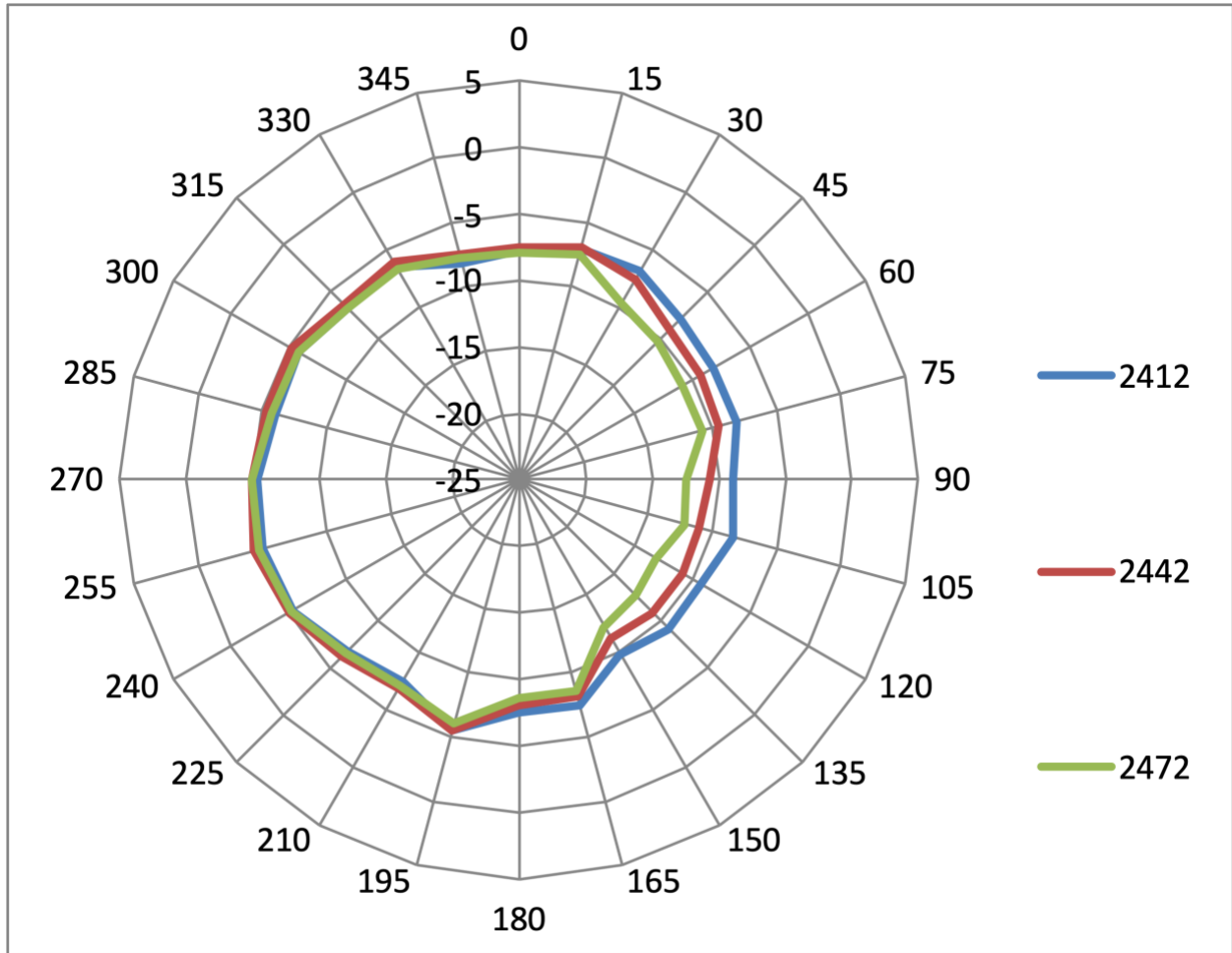


# 2GHz WiFi-1 Antenna

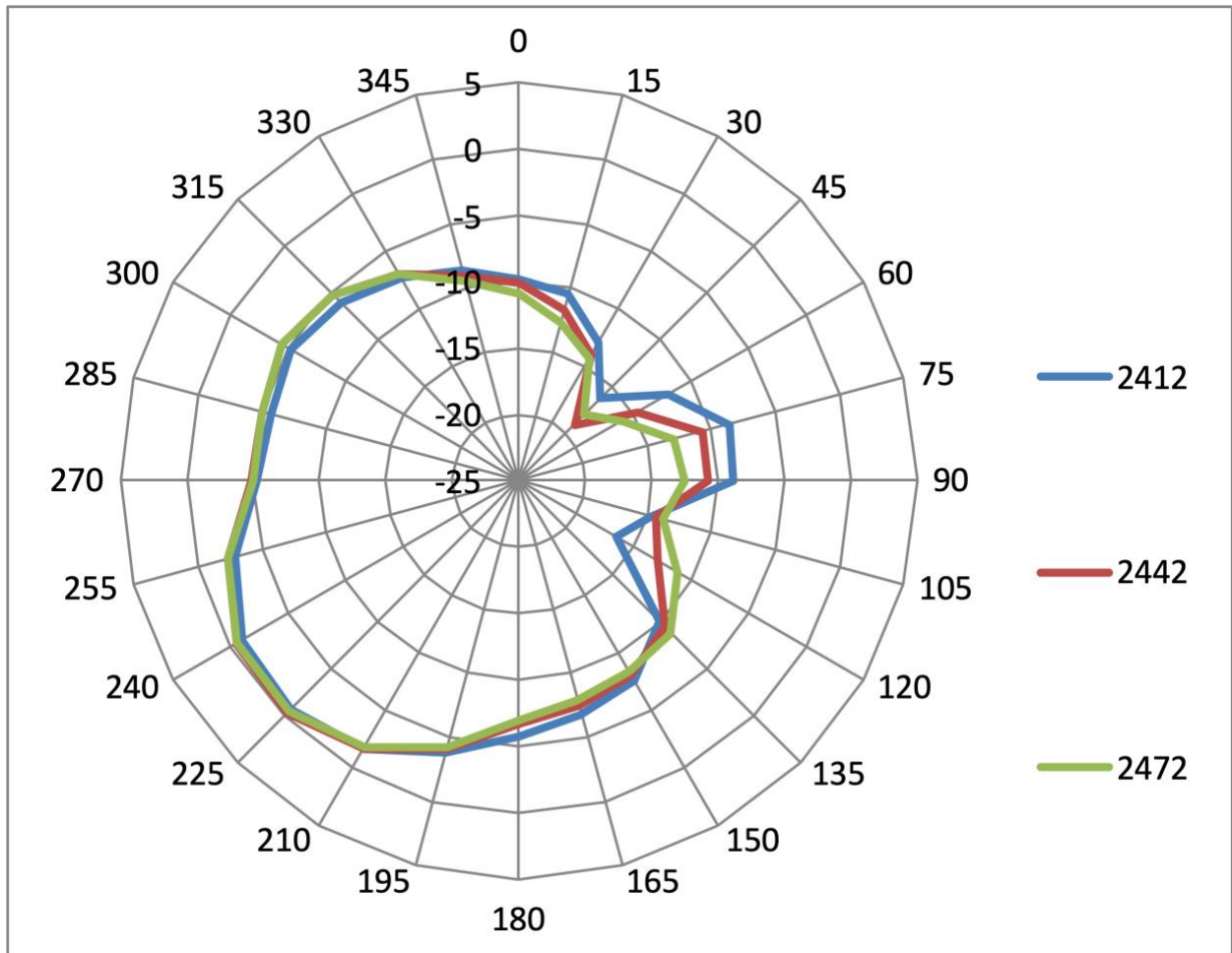
Phi=0



Phi=90

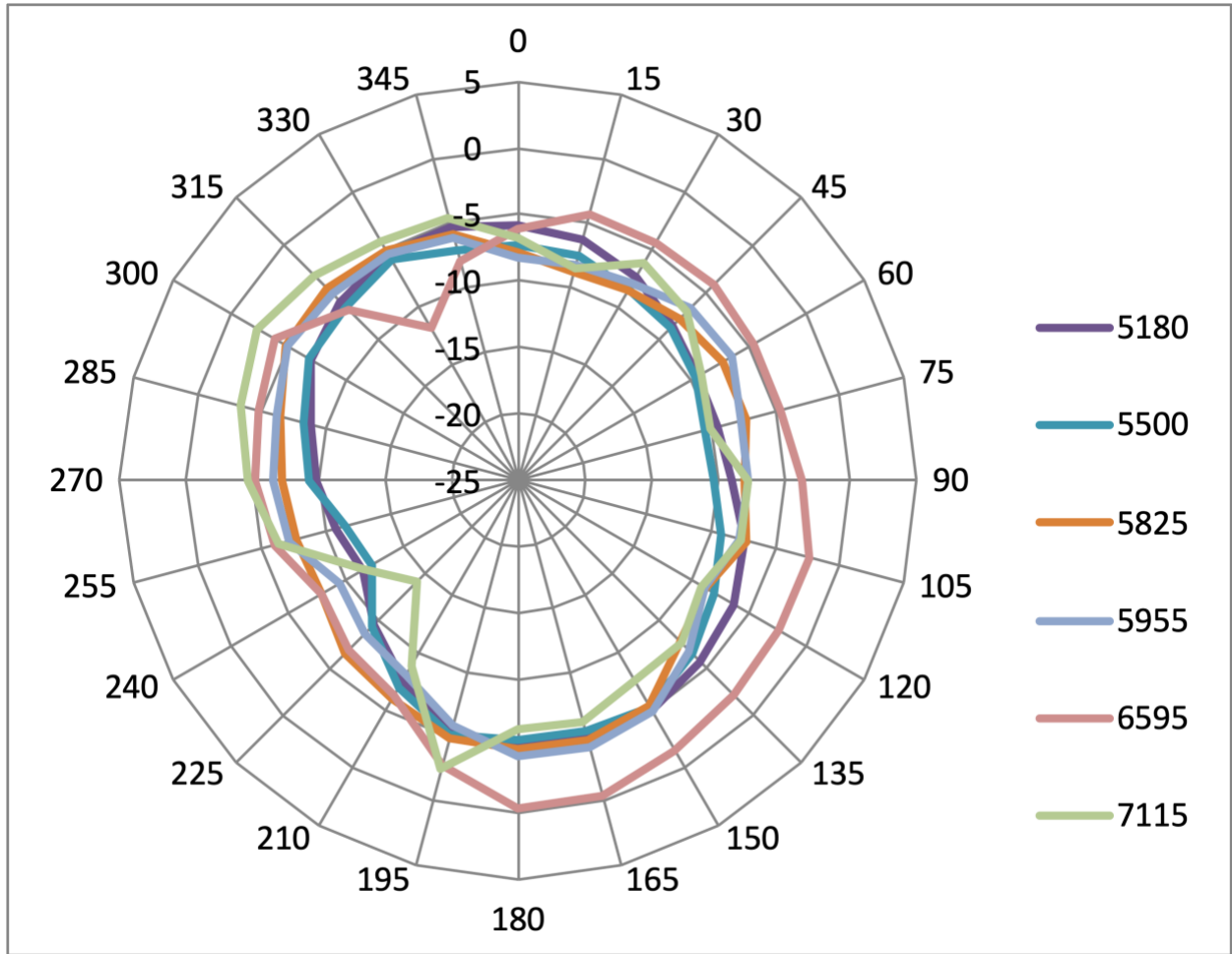


Theta 90





Phi=90



Theta 90

