

ANTENNA INFORMATION

OEM	NA
ODM	Compal
Platform model name	MP22-NEON416-C
Intel platform (ex: Yes, No or NA)	NA
Platform type (ex: regular NB, convertible PC, AIO...etc)	Tablet
SAR minimum separation (mm)	NA

Antenna manufacturer	Smart Approach Co., Ltd.	
Address	3F.-5, No. 1, Taiyuan 2nd St., Zhubei City, Hsinchu County 30288, Taiwan (R.O.C.)	
Antenna Part number	Main: DC33002Q40H (SE-ER5L1-001)	Aux: DC33002Q41H (SE-ER5L1-002)
Antenna type (ex: PIFA, Dipole...etc)	PIFA	

Antenna Peak gain w/ cable loss (dBi)*										
	2400MHz	2450MHz	2500MHz	5150MHz	5500MHz	5750MHz				
Main	2.58	2.12	1.75	2.77	2.90	2.00				
Aux	2.29	2.42	1.87	1.78	1.56	0.89				

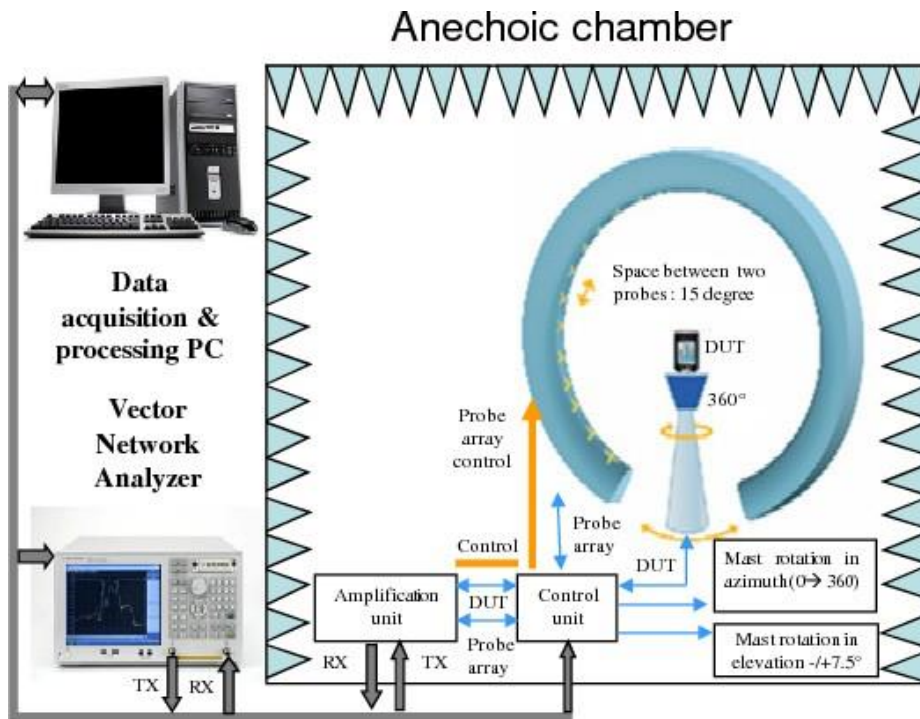
Cable Assembly Part Number and Information					
	Cable PN	Cable length(mm)	Cable diameter(mm)	Impedance(ohm)	Connector type
Main	01-13LC1-0P4	180	1.13	50 ohm	I-PEX
Aux	01-13LC2-0P4	310	1.13	50 ohm	I-PEX

* 3D Antenna Peak Gain required being test in system basis.

1. Test & System Description

1.1 Measurement Method and System

Test setting:



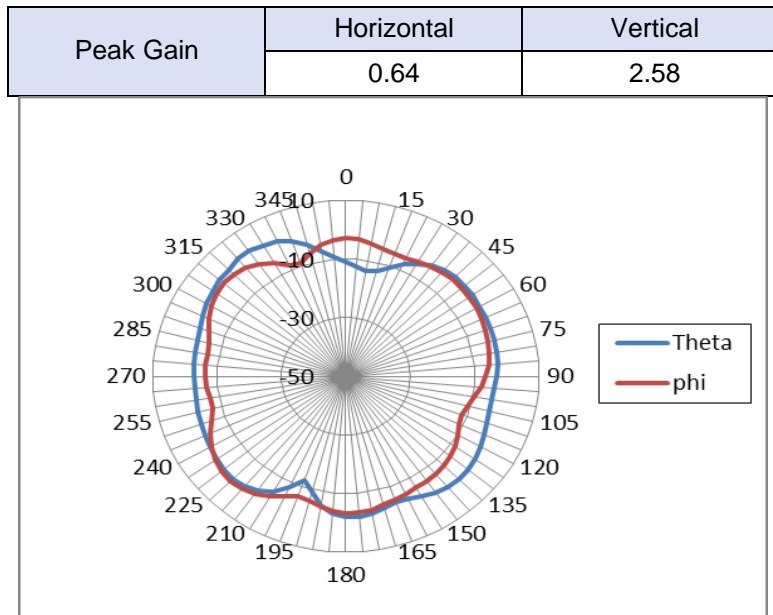
1.3 Equipment list

Device	Manufacturer
■ SATIMO SG24 system : 0.4 to 6 GHz	MVG
■ Control unit	MVG
■ Power and control unit	MVG
■ Tx and Rx amplification units	MVG
■ Instrumentation rack	MVG
■ Uninterruptible power supply	FT
■ Reference horns	MVG
■ Vector Network Analyzer	Agilent E5071C

2. Radiation characteristics of antenna loaded in Host Platform

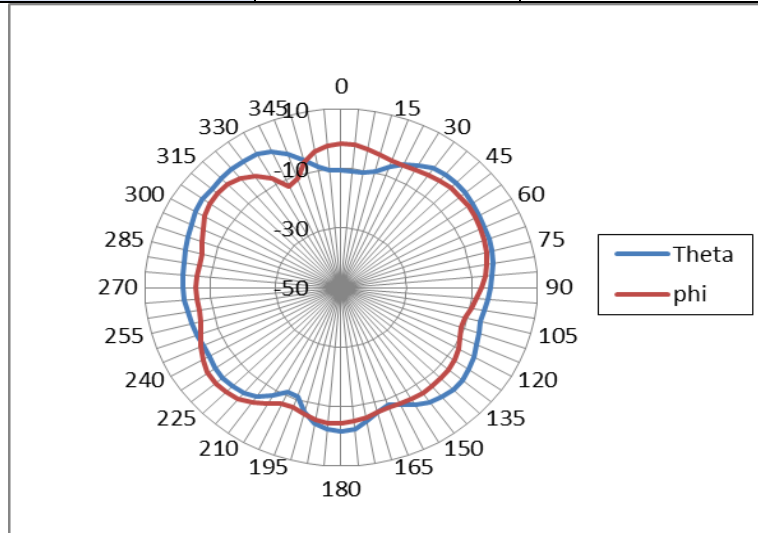
Main Antenna

- WLAN Antenna: 2400MHz



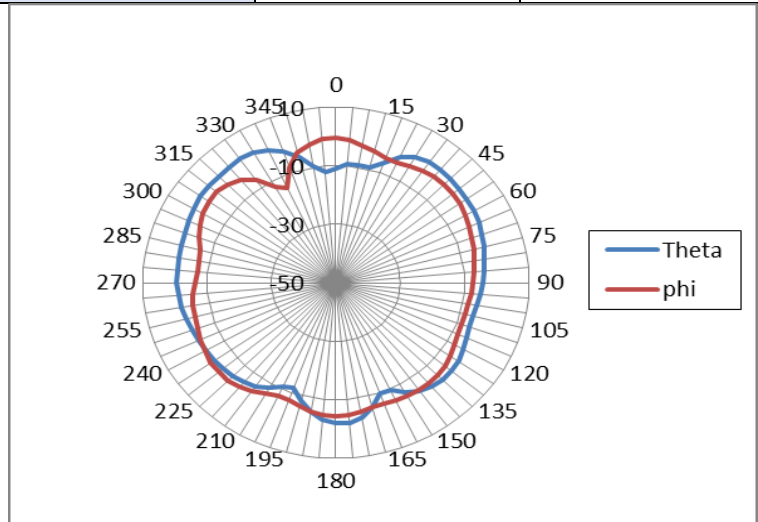
■ WLAN Antenna: 2450MHz

Peak Gain	Horizontal	Vertical
	0.13	2.12



■ WLAN Antenna: 2500MHz

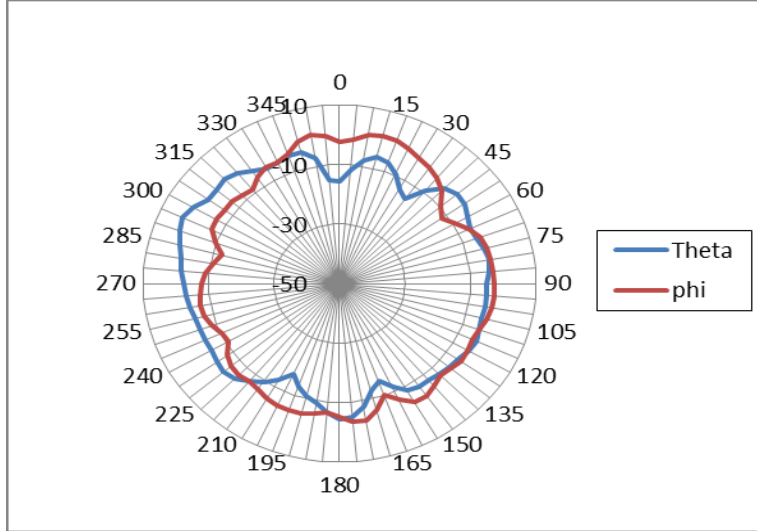
Peak Gain	Horizontal	Vertical
	-0.58	1.75



5150-5750 MHz radiation characteristic

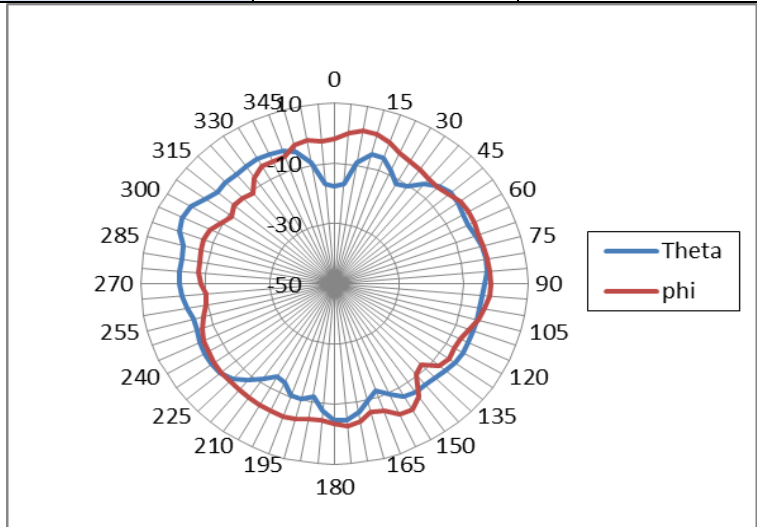
■ WLAN Antenna: 5150MHz

Peak Gain	Horizontal	Vertical
	1.51	2.77



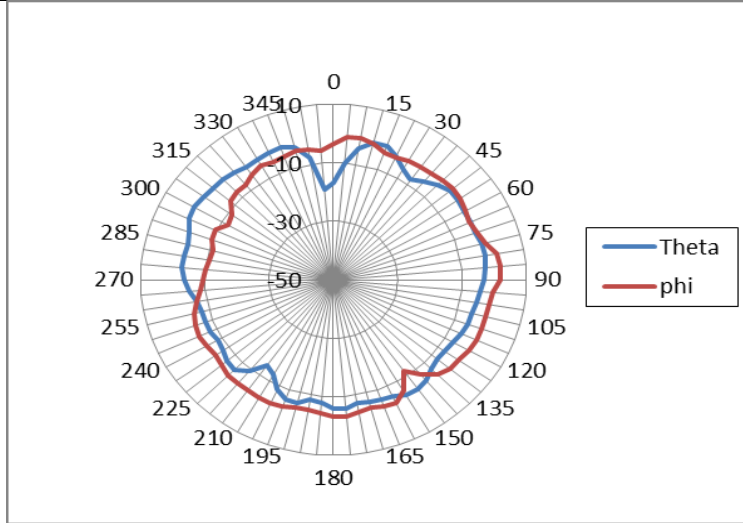
■ WLAN Antenna: 5550MHz

Peak Gain	Horizontal	Vertical
	1.24	2.90



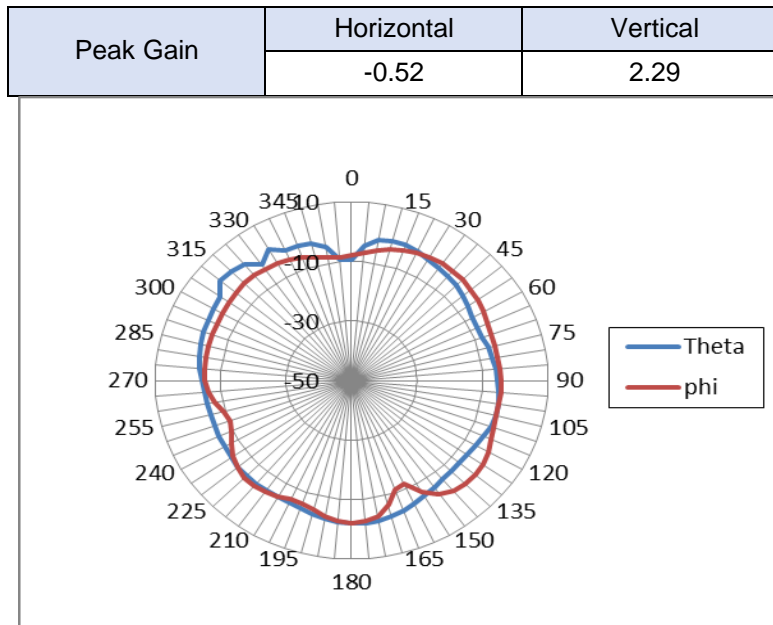
■ WLAN Antenna: 5750MHz

Peak Gain	Horizontal	Vertical
	2.0	-0.12

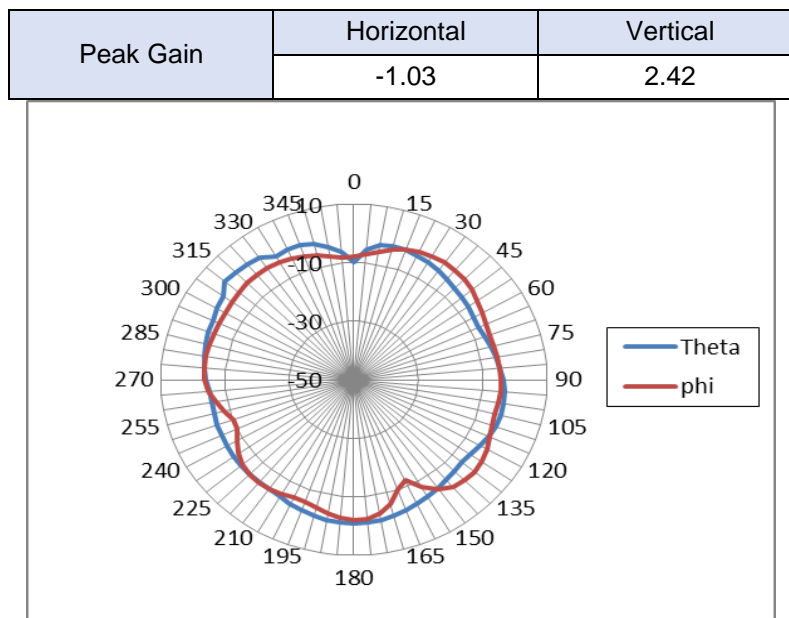


Auxiliary Antenna

- WLAN Antenna: 2400MHz

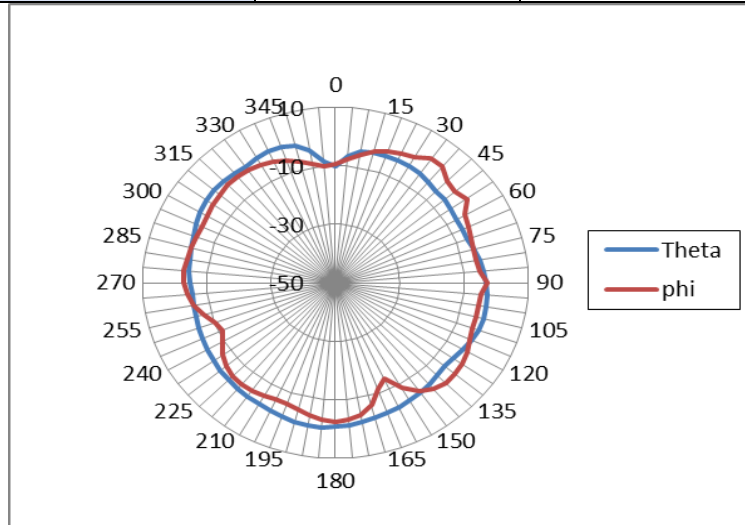


- WLAN Antenna: 2450MHz



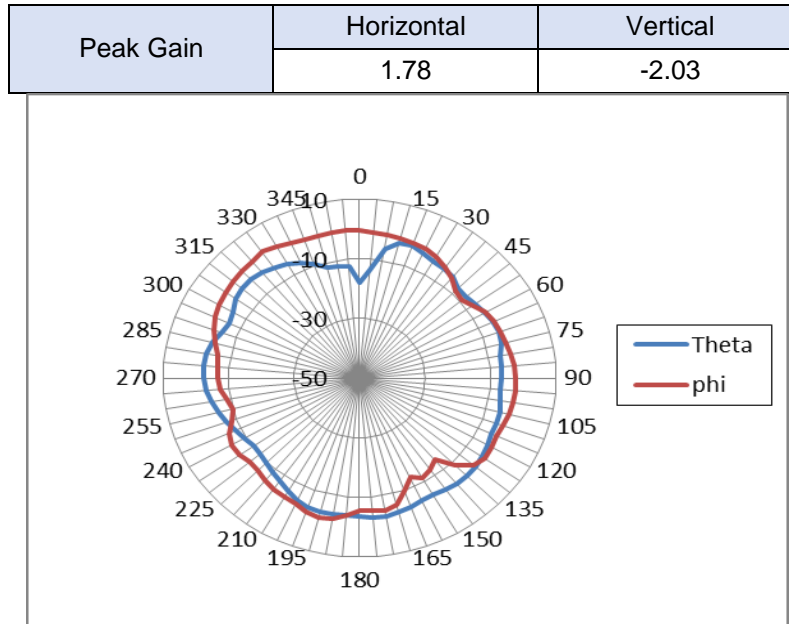
■ WLAN Antenna: 2500MHz

Peak Gain	Horizontal	Vertical
		1.87

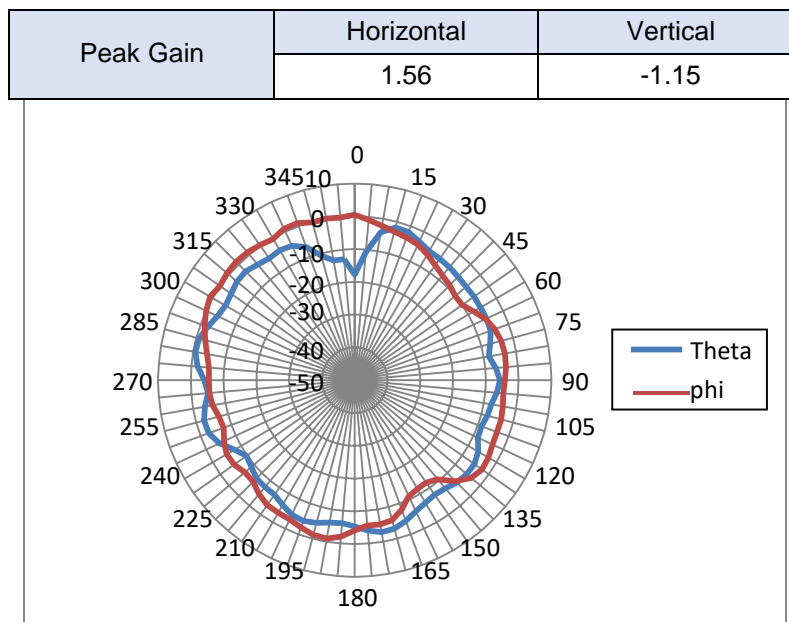


5150-5750 MHz radiation characteristic

■ WLAN Antenna: 5150MHz



■ WLAN Antenna: 5550MHz



■ WLAN Antenna: 5750MHz

Peak Gain	Horizontal	Vertical
	0.89	-0.04

