



**Series: X1403ZA MAIN**

**ASUS P/N: 14008-04890300**

**華勤 P/N : HQ20604833000**

**PEGA P/N : 1415-09510AS**

**PULSE P/N: TZ20921**

### ELECTRICAL SPECIFICATIONS

Antenna Type	PCB PIFA
Frequency	2.4-2.5GHz,5.15-7.125GHz
Nominal Impedance	50 Ω
VSWR	2.5:1
Radiation Pattern	Omni
Gain	Refer to below table
Polarization	Linear
Power Withstanding	1W

### MECHANICAL SPECIFICATIONS

Overall Length	48.6*8*0.4 mm
Antenna Color / Material	Black/ PCB
Connector type	See table, P3
Cable type	See table, P3
Cable length	See table, P3
Adhesive tape	HF-DS15

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40 ~ +85°C
Storage Temperature	-40 ~ +85°C
RoHS Compliant	Yes

Freq Range MHz	Peak Gain W/ Cable loss (dBi)	
2400-2500	2.55	
5150-5350	3.12	
5470-5725	4.11	
5725-5850	4.33	
5850-5895	4.07	
5925-6425	4.12	
6425-6525	1.31	
6525-6875	2.53	
6875-7125	2.53	

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.



Series: X1403ZA MAIN

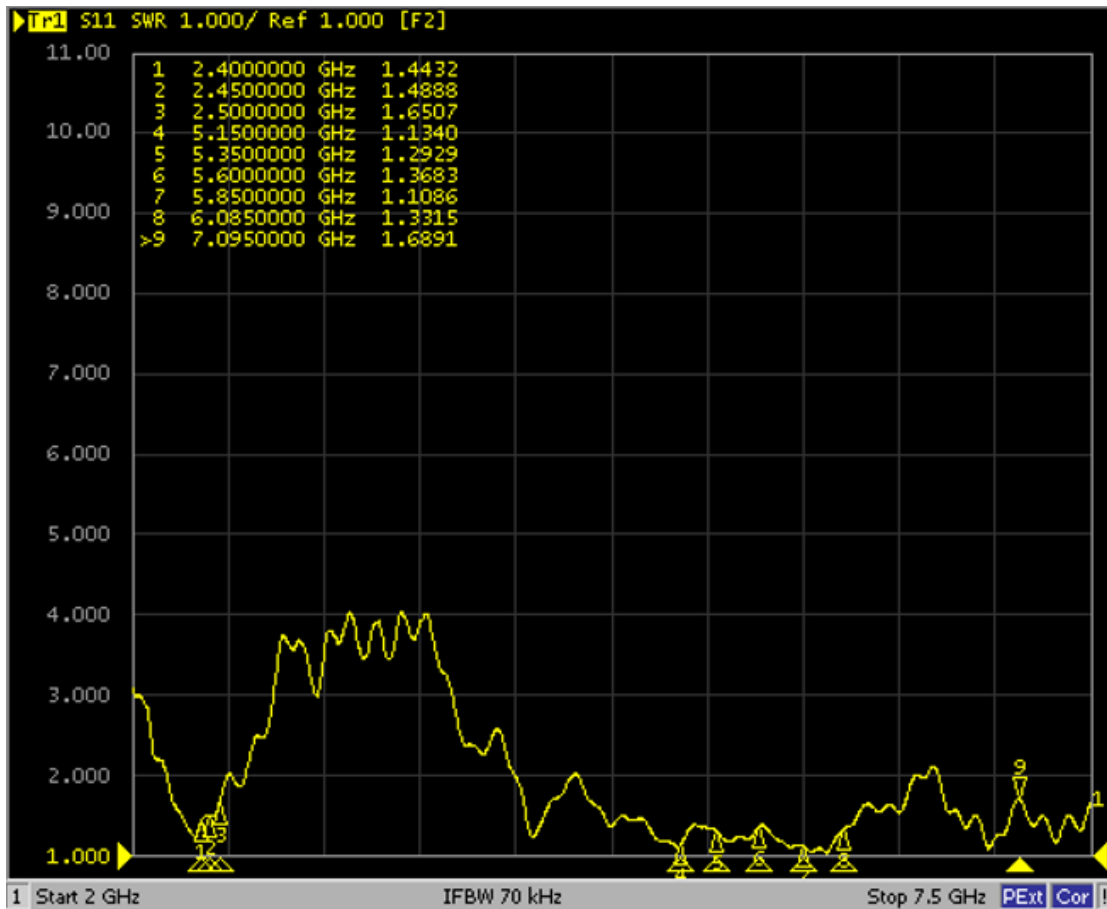
ASUS P/N: 14008-04890300

華勤 P/N : HQ20604833000

PEGA P/N : 1415-09510AS

PULSE P/N: TZ20921

TEST SETUP




**Series: X1403ZA MAIN**
**ASUS P/N: 14008-04890300**  
**華勤 P/N : HQ20604833000**  
**PEGA P/N : 1415-09510AS**  
**PULSE P/N: TZ20921**

## Antenna Peak Gain and Cable Loss

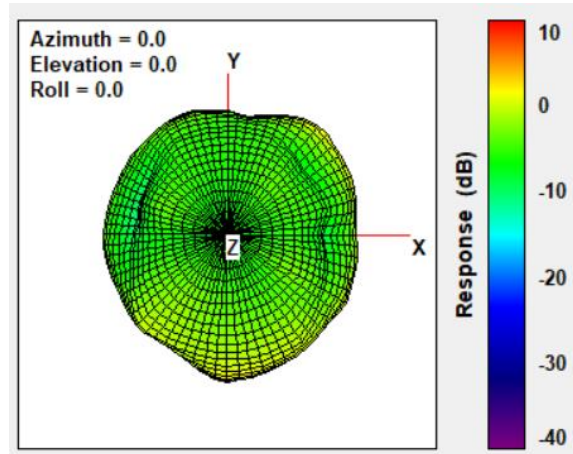
Frequency	Efficiency	Peak Gain
2400	-2.86	2.25
2450	-2.73	2.21
2500	-3.09	1.88
5150	-2.30	2.54
5250	-2.59	2.78
5350	-2.27	3.12
5470	-2.45	3.19
5600	-2.48	3.67
5725	-2.62	4.11
5785	-2.35	4.33
5850	-2.85	4.01
5895	-2.95	4.07
5925	-3.05	4.12
6000	-3.48	3.15
6125	-4.86	3.56
6225	-5.02	2.88
6325	-4.36	2.34
6425	-4.18	1.31
6525	-4.99	-0.52
6625	-5.07	0.37
6725	-4.37	2.14
6875	-4.15	2.53
6925	-4.05	1.81
7000	-4.95	1.24
7125	-4.83	1.70

Series: X1403ZA MAIN

ASUS P/N: 14008-04890300  
華勤 P/N : HQ20604833000  
PEGA P/N : 1415-09510AS  
PULSE P/N: TZ20921

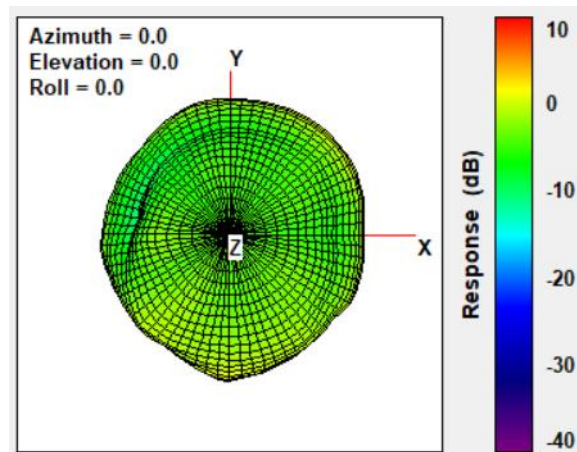
## CHARTS

Radiation Pattern of WLAN Antenna (2400MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
2400	-2.86	2.55

Radiation Pattern of WLAN Antenna (2450MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
2450	-2.73	2.21



Series: X1403ZA MAIN

ASUS P/N: 14008-04890300

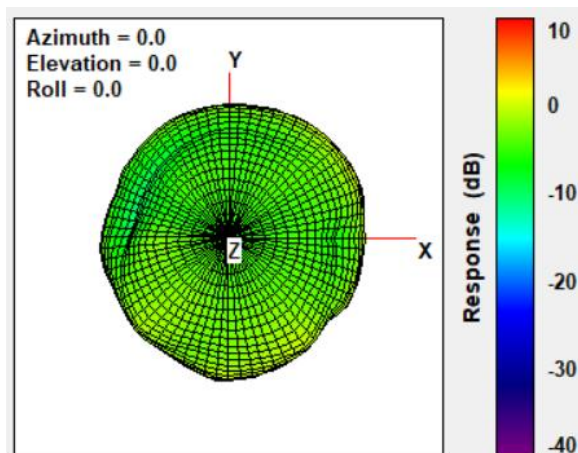
華勤 P/N : HQ20604833000

PEGA P/N : 1415-09510AS

PULSE P/N: TZ20921

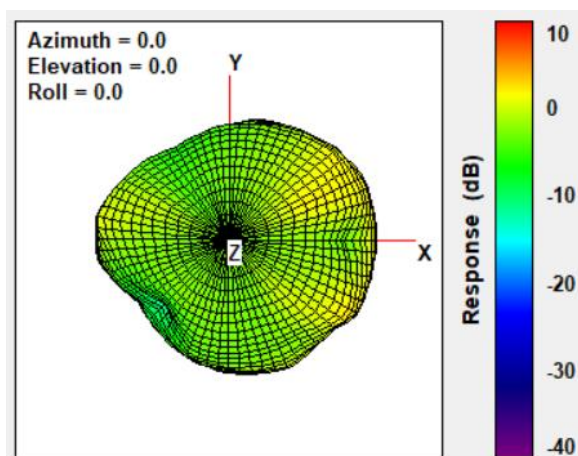
## CHARTS

Radiation Pattern of WLAN Antenna (2500MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
2500	-3.09	1.88

Radiation Pattern of WLAN Antenna (5150MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
5150	-2.30	2.54



Series: X1403ZA MAIN

ASUS P/N: 14008-04890300

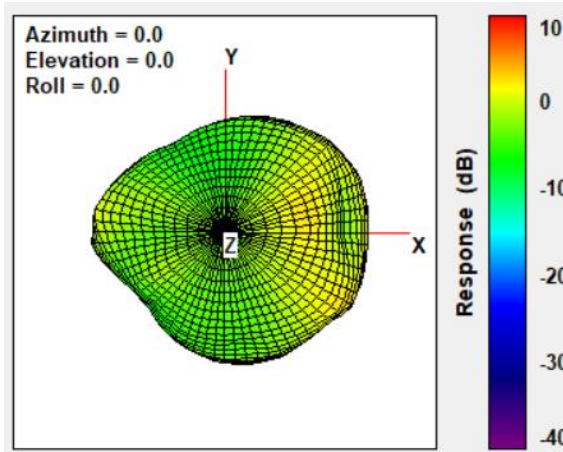
華勤 P/N : HQ20604833000

PEGA P/N : 1415-09510AS

PULSE P/N: TZ20921

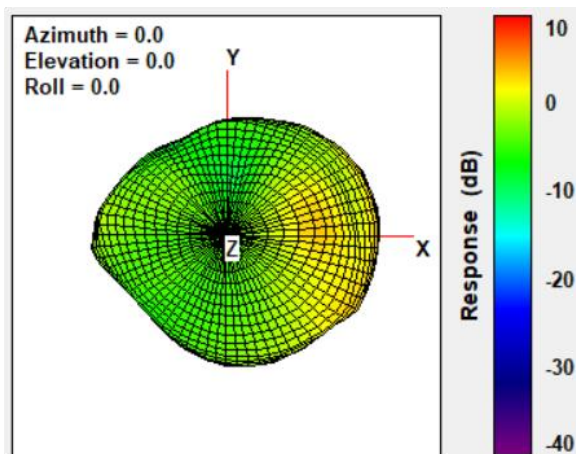
## CHARTS

Radiation Pattern of WLAN Antenna (5250MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
5250	-2.59	2.78

Radiation Pattern of WLAN Antenna (5350MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
5350	-2.27	3.12



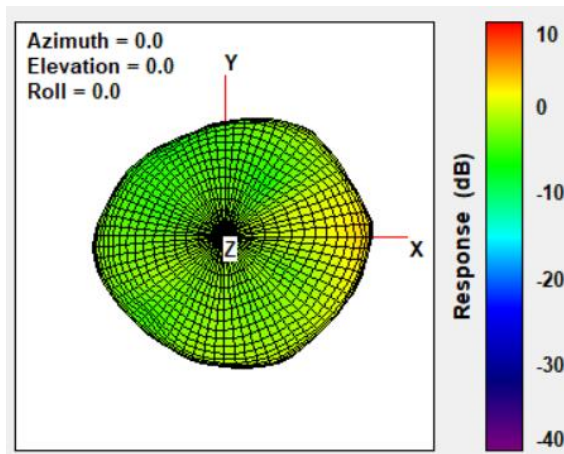


Series: X1403ZA MAIN

ASUS P/N: 14008-04890300  
華勤 P/N : HQ20604833000  
PEGA P/N : 1415-09510AS  
PULSE P/N: TZ20921

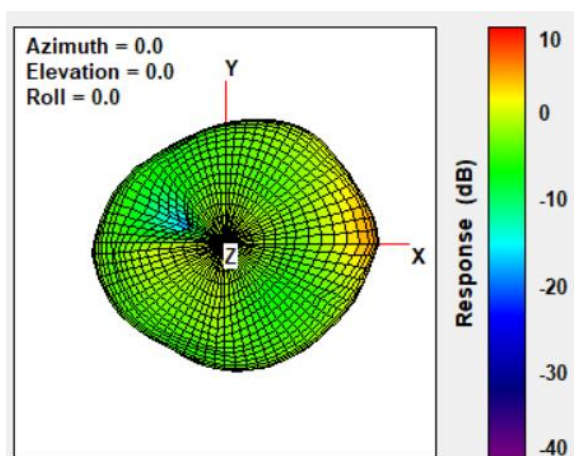
## CHARTS

Radiation Pattern of WLAN Antenna (5470MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
5470	-2.45	3.19

Radiation Pattern of WLAN Antenna (5600MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
5600	-2.48	3.67

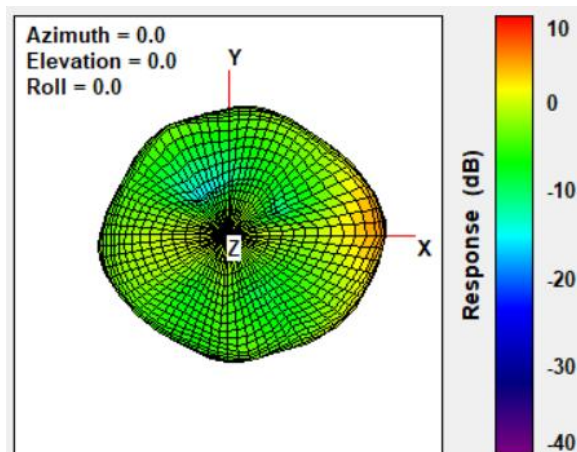


Series: X1403ZA MAIN

ASUS P/N: 14008-04890300  
華勤 P/N : HQ20604833000  
PEGA P/N : 1415-09510AS  
PULSE P/N: TZ20921

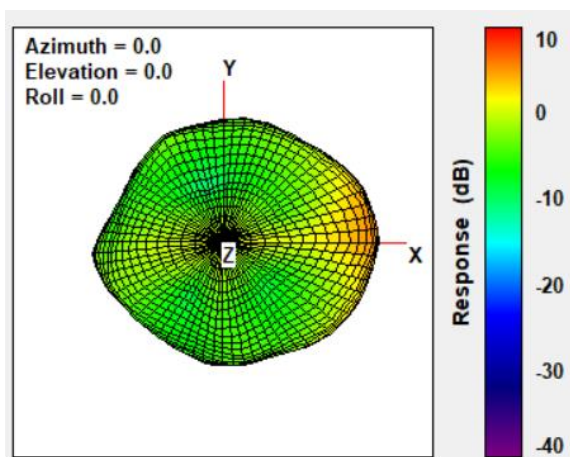
## CHARTS

Radiation Pattern of WLAN Antenna(5725MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
5725	-2.62	4.11

Radiation Pattern of WLAN Antenna (5785MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
5785	-2.35	4.33

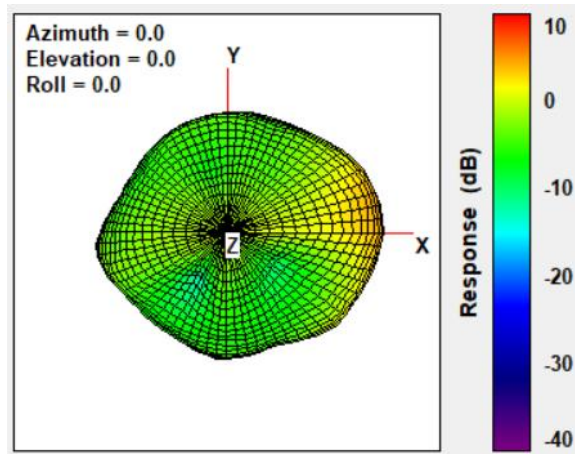


Series: X1403ZA MAIN

ASUS P/N: 14008-04890300  
華勤 P/N : HQ20604833000  
PEGA P/N : 1415-09510AS  
PULSE P/N: TZ20921

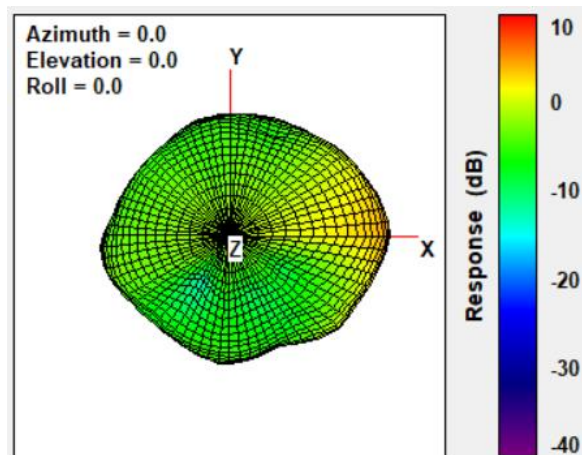
## CHARTS

Radiation Pattern of WLAN Antenna (5850MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
5850	-2.85	4.01

Radiation Pattern of WLAN Antenna (5895MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
5895	-2.95	4.07



Series: X1403ZA MAIN

ASUS P/N: 14008-04890300

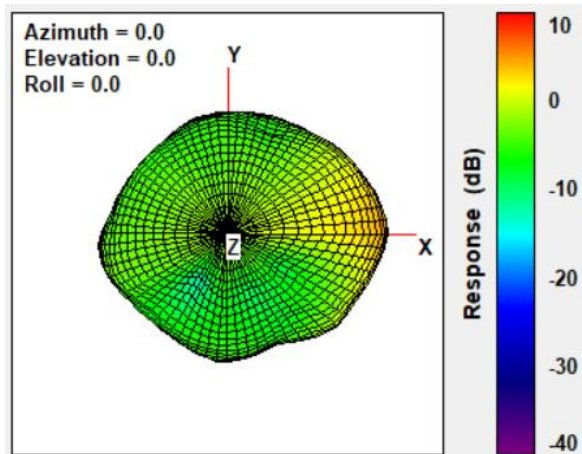
華勤 P/N : HQ20604833000

PEGA P/N : 1415-09510AS

PULSE P/N: TZ20921

## CHARTS

Radiation Pattern of WLAN Antenna (5925MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
5925	-3.05	4.12

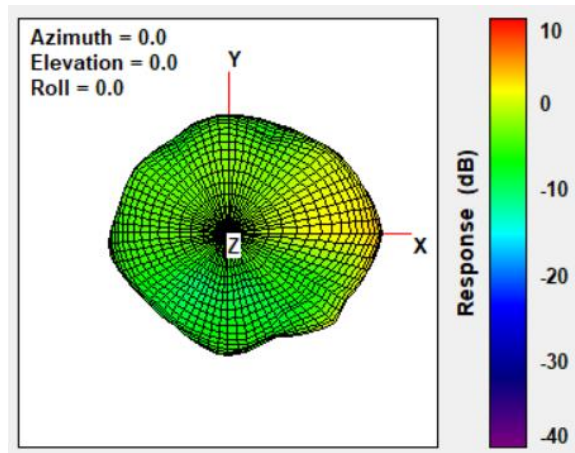


Series: X1403ZA MAIN

ASUS P/N: 14008-04890300  
華勤 P/N : HQ20604833000  
PEGA P/N : 1415-09510AS  
PULSE P/N: TZ20921

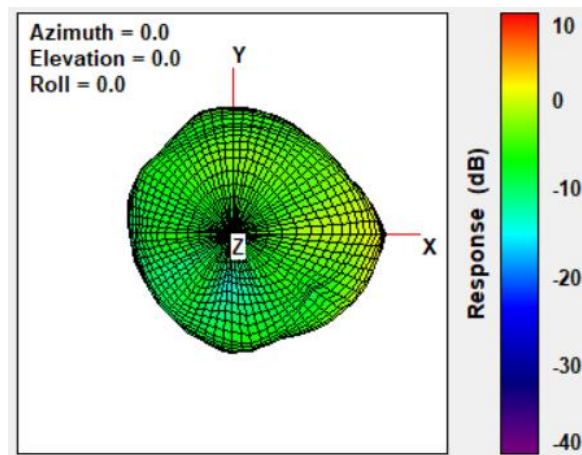
## CHARTS

Radiation Pattern of WLAN Antenna (6000MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
6000	-3.48	3.15

Radiation Pattern of WLAN Antenna (6125MHz)



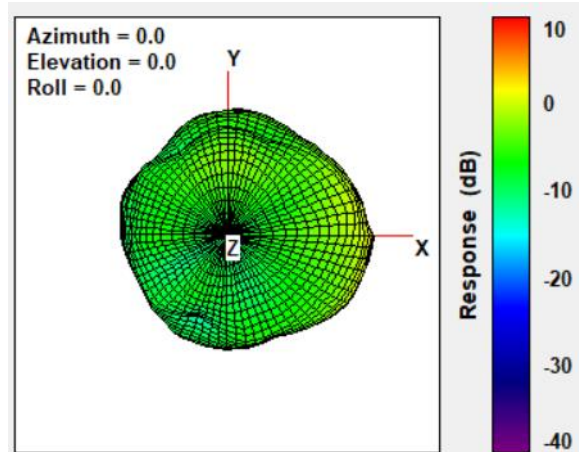
Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
6125	-4.86	3.56

Series: X1403ZA MAIN

ASUS P/N: 14008-04890300  
華勤 P/N : HQ20604833000  
PEGA P/N : 1415-09510AS  
PULSE P/N: TZ20921

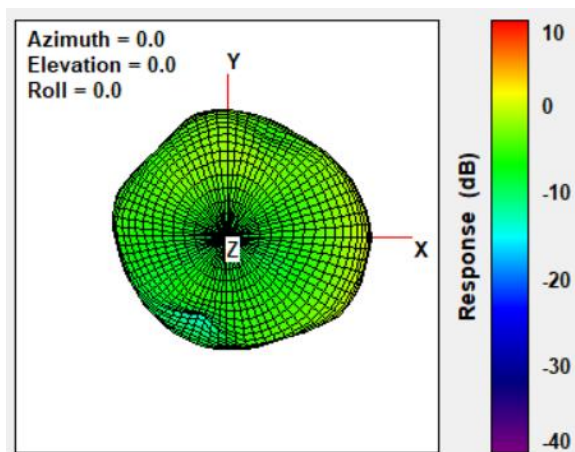
## CHARTS

Radiation Pattern of WLAN Antenna (6225MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
6225	-5.02	2.88

Radiation Pattern of WLAN Antenna (6325MHz)



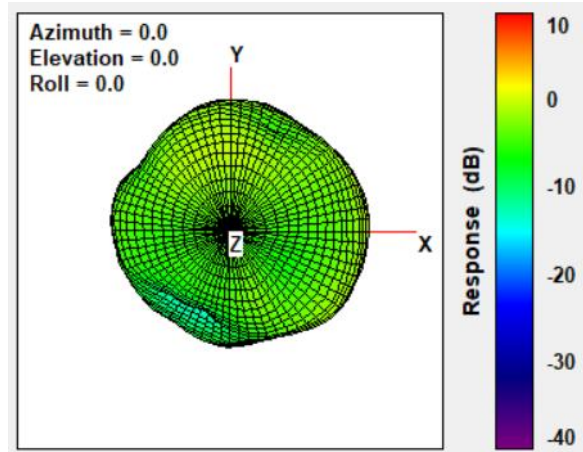
Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
6325	-4.36	2.34

Series: X1403ZA MAIN

ASUS P/N: 14008-04890300  
華勤 P/N : HQ20604833000  
PEGA P/N : 1415-09510AS  
PULSE P/N: TZ20921

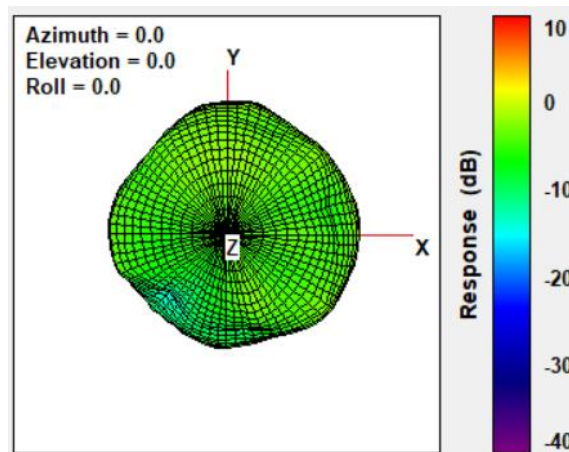
## CHARTS

Radiation Pattern of WLAN Antenna-NB (6425MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
6425	-4.18	1.31

Radiation Pattern of WLAN Antenna-NB (6525MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
6525	-4.99	-0.52

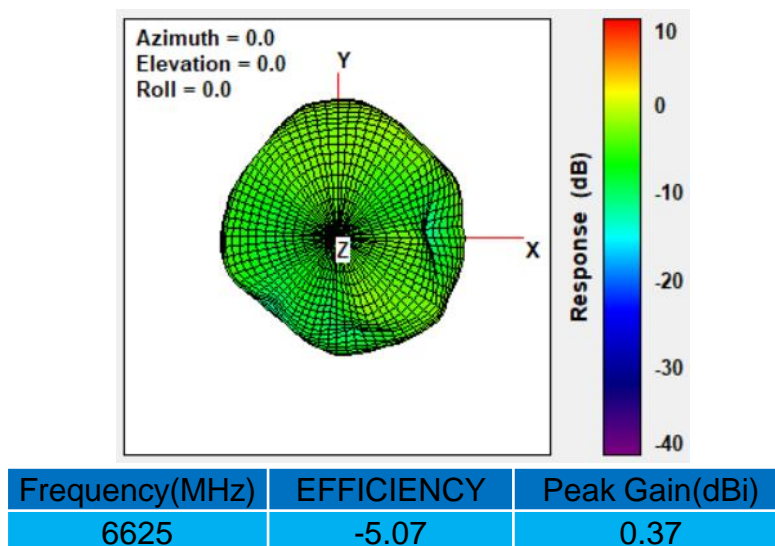


Series: X1403ZA MAIN

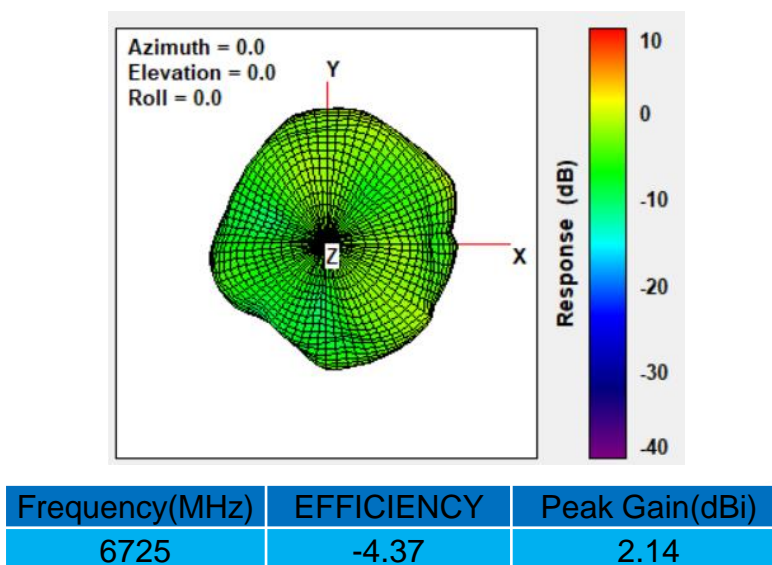
ASUS P/N: 14008-04890300  
華勤 P/N : HQ20604833000  
PEGA P/N : 1415-09510AS  
PULSE P/N: TZ20921

## CHARTS

Radiation Pattern of WLAN Antenna(6625MHz)



Radiation Pattern of WLAN Antenna(6725MHz)







Series: X1403ZA MAIN

ASUS P/N: 14008-04890300

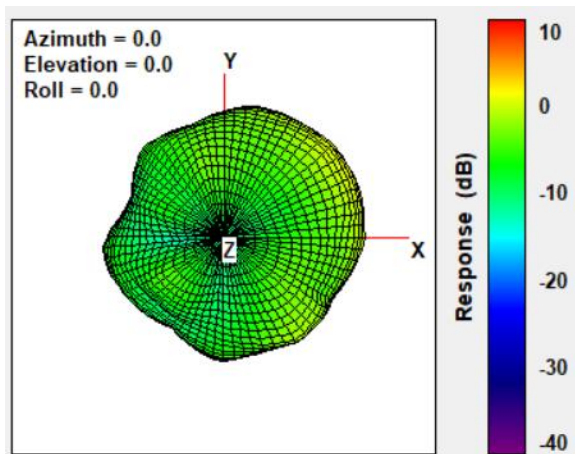
華勤 P/N : HQ20604833000

PEGA P/N : 1415-09510AS

PULSE P/N: TZ20921

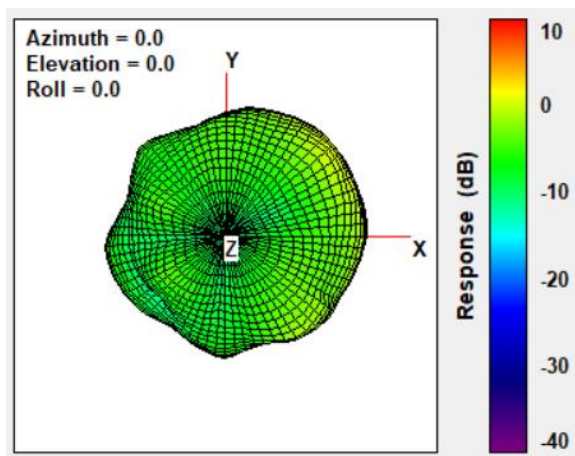
**CHARTS**

Radiation Pattern of WLAN Antenna (6875MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
6875	-4.15	2.53

Radiation Pattern of WLAN Antenna (6925MHz)



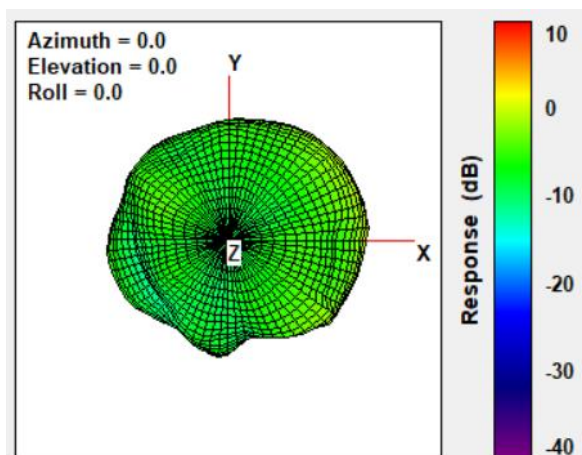
Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
6925	-4.05	1.81

Series: X1403ZA MAIN

ASUS P/N: 14008-04890300  
華勤 P/N : HQ20604833000  
PEGA P/N : 1415-09510AS  
PULSE P/N: TZ20921

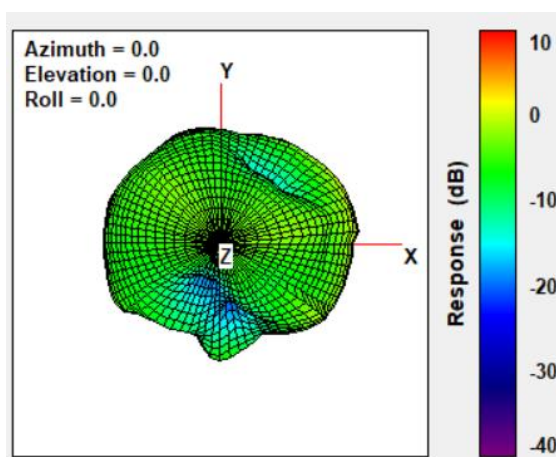
## CHARTS

Radiation Pattern of WLAN Antenna (7000MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
7000	-4.95	1.24

Radiation Pattern of WLAN Antenna (7125MHz)



Frequency(MHz)	EFFICIENCY	Peak Gain(dBi)
7125	-4.83	1.70