

RF Antenna Assembly

Specification (單天線)

1. Electrical Properties :

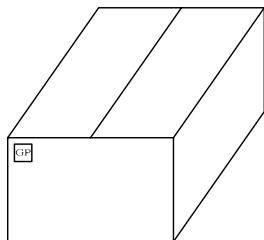
- 1.1 Frequency Range.....3.4GHZ~3.8GHZ
- 1.2 Impedance 50Ω Nominal
- 1.3 VSWR 2.1 : 1 Max.
- 1.4 Return Loss.....-8.99 dB Max.
- 1.5 Radiation Omni-directional
- 1.6 Gain(peak).....5dBi (單天線) (with cable loss)
- 1.7 Polarization.....Linear; Vertical
- 1.8 Admitted Power..... 1W
- 1.9 Cable.....RG-178 Coaxial Cable
- 1.10 Connector.....SMA

2. Physical Properties :

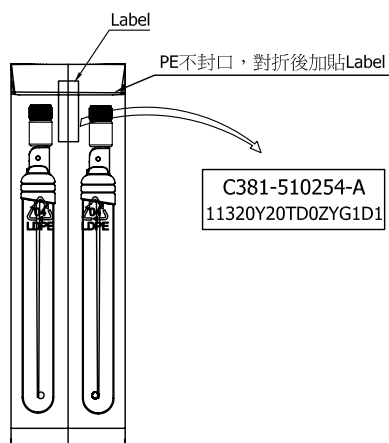
- 2.1 Antenna Cover.....ABS
- 2.2 Antenna Base..... PC
- 2.3 Antenna Base..... PC+PBT
- 2.4 Operating Temp.-10℃ ~ +60℃
- 2.5 Storage Temp.-10℃ ~ +70℃
- 2.6 Color Black

CG-

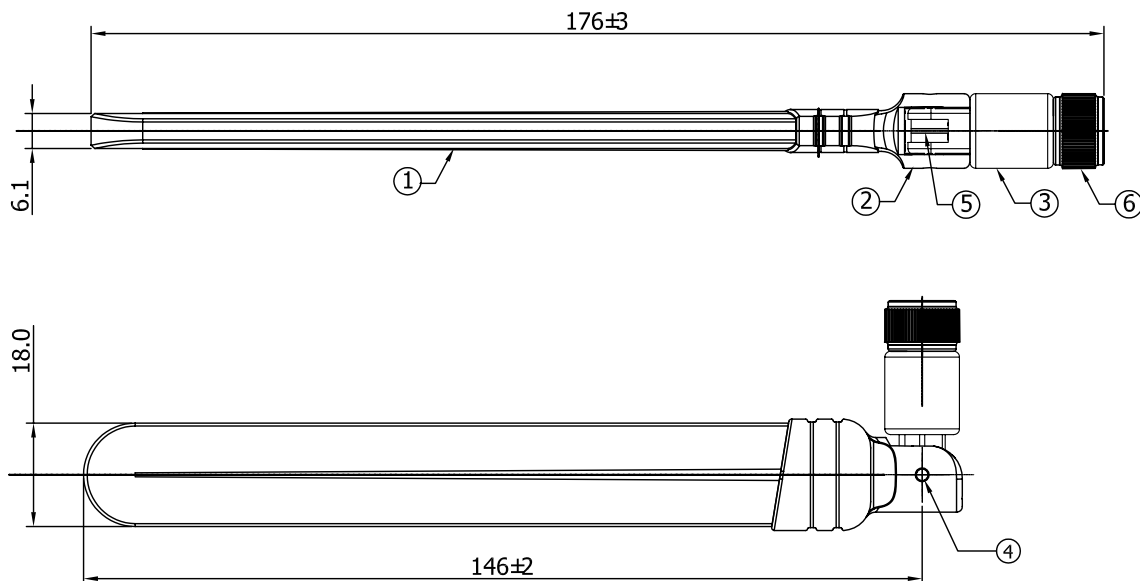
REV	DATE	DESCRIPTION
X1	05/05-2015	New Issue
X2	05/26-2015	Modify Package



GP標籤貼於外箱兩邊側麥左上角



Packing : 2pcs/bag



6	Connector	BIG SMA Straight Plug Standard	1	
5	Cable	RG-178 Cable	1	
4	Rivet	POM,Color: Black	2	
3	Antenna Base	(CD-13)PC+PBT; Color : Black	1	
2	Antenna Base	(CD-761)PC ; Color : Black	1	
1	Antenna Cap	(CD-702)ABS ; Color : Black	1	
NO	DESCRIPTION		Q'TY	REMARK

XX.	±5.0	APPROVED	羅家鎮
X.	±3.0	2015.5.5	
.X	±1.0	CHECKED	林凱元
.XX	±0.5	2015.5.5	
.XXX	±0.1	DRAWING	徐筱惠
		2015.5.5	

CUSTOMER:		
PART NO :	11320Y20TD0ZYG1D1	
PART NAME:	RF Antenna Assembly	
W.Y P/NO :	C381-510254-A	
REV	UNIT	FILE : SRF2015832
X2	mm	SHEET : 1/1

M.gear Wha Yu Group

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CUSTOMER'S SINGATURE

Antenna Test Report

For

NE3-15018

V1.00

Document Number	NE3-15018
1st Released Date	03/27/15
Last Released Date	03/27/15
Author	Stone
Review by	SKY

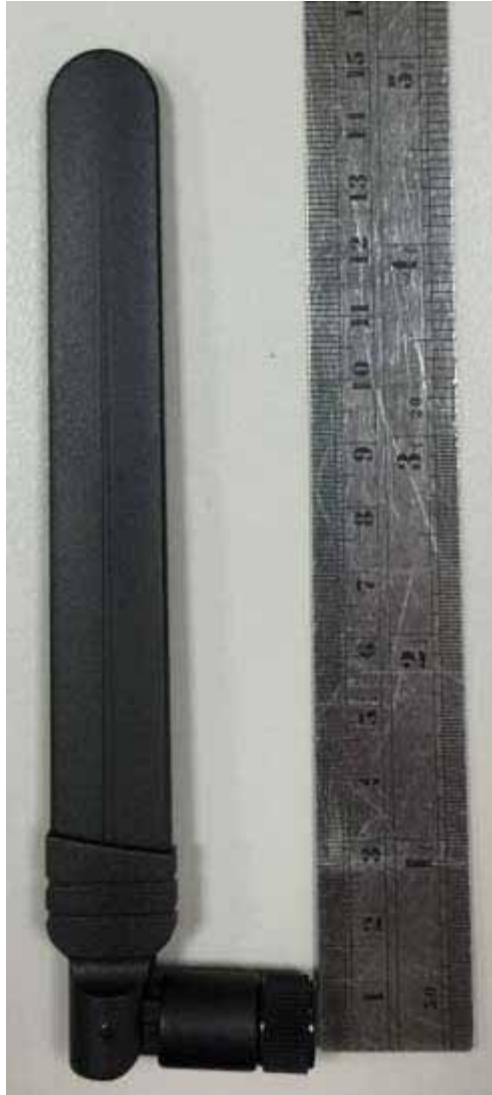
Revised History

[illegible]

Specification

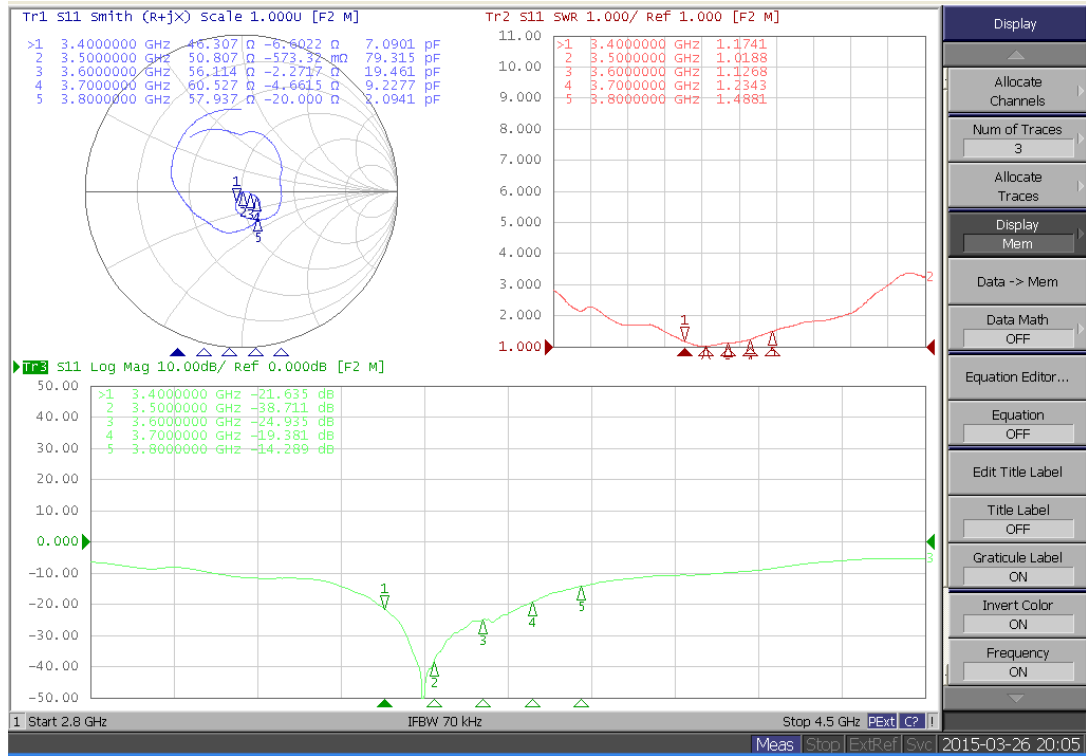
Rough description		
Item	Initial Specification	Final Specification
Dimensions	NA	
Impedance	50Ω	
Test environment	With Housing	
Application	None	
Freq. Range	3.4GHz~3.8GHz	
Antenna type	DIPOLE	
GAIN	ANT1 (5dBi)	
VSWR	2.1:1	
Radiation	None	
Polarization	Linear	
HPBW / H	None	
HPBW / E	None	
Connector type	SMA	
Cable type	RG-178	

1 Antenna Introduction



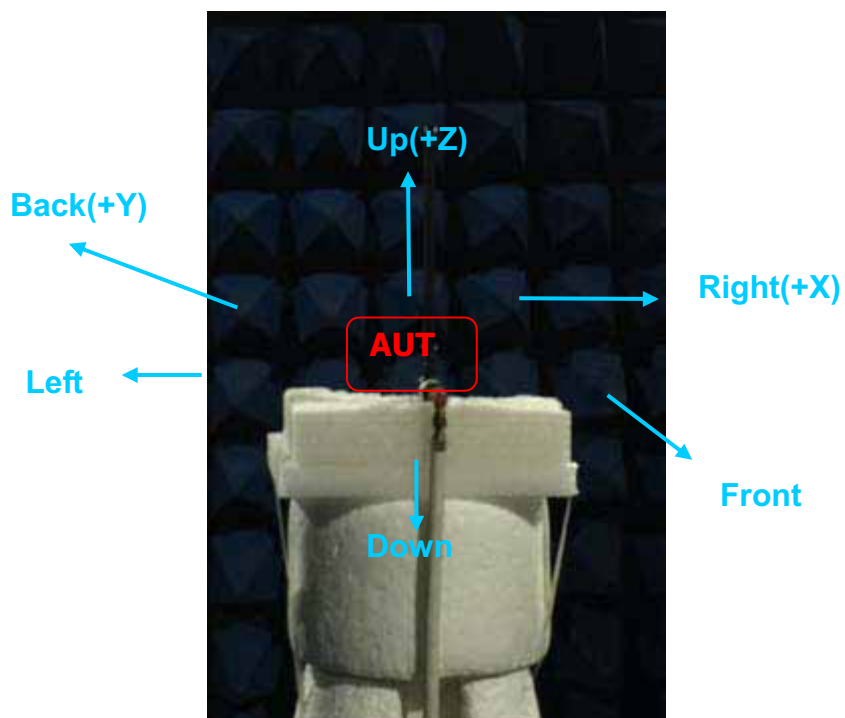
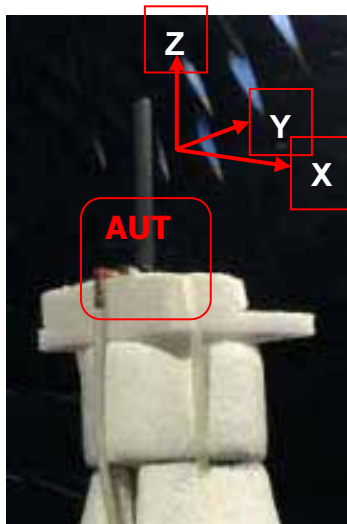
2 S11 test results

4.1 ANT 1.

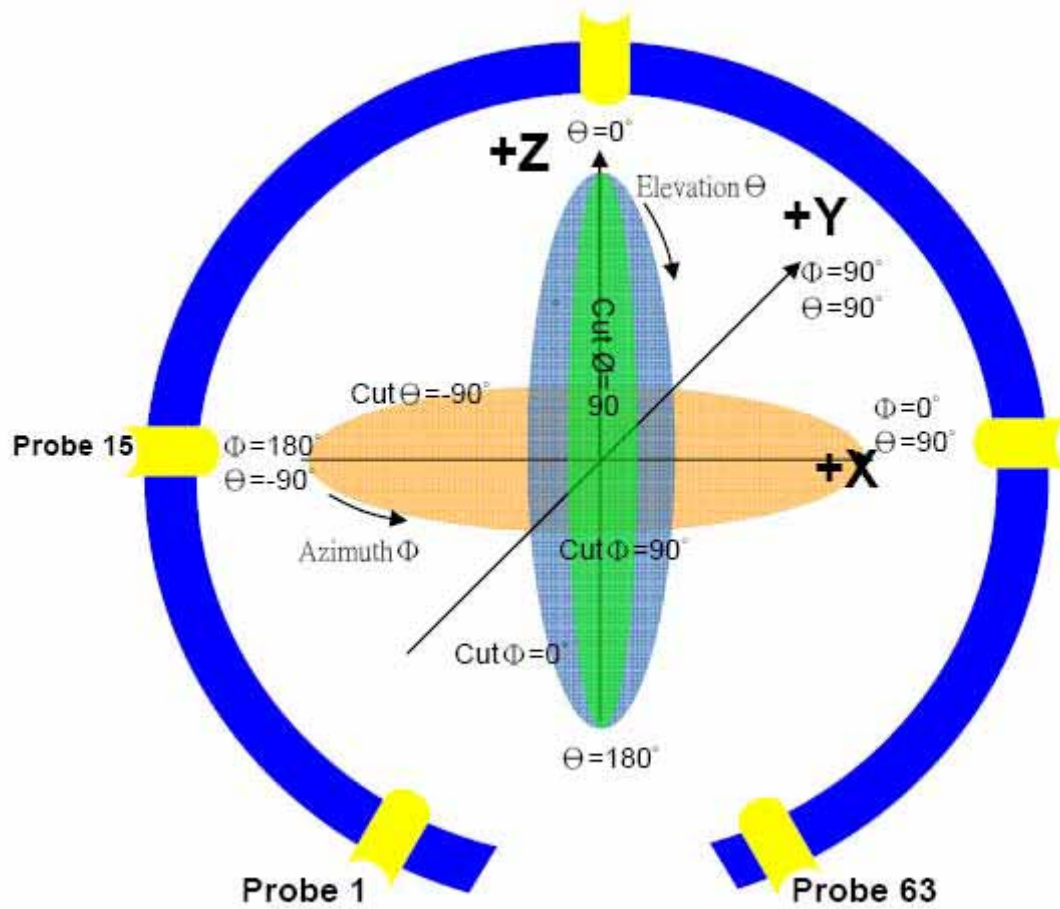


3 Gain & Patterns test results

3.1 Measurement setting



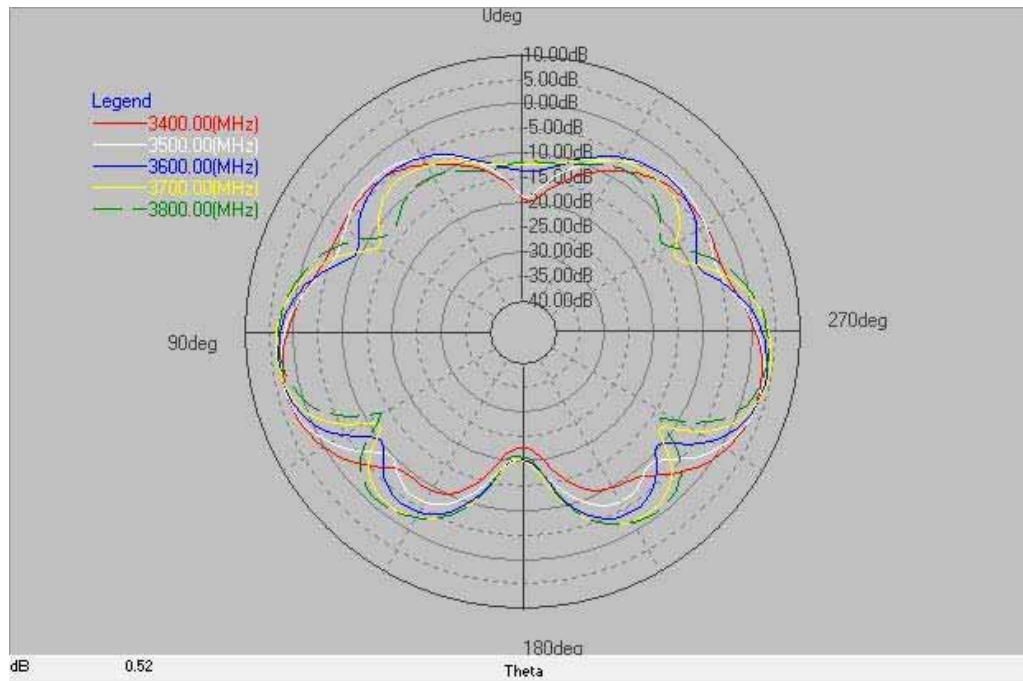
	XY	YZ	XZ
0°	Right	Up	Up
90°	Back	Back	Right
180°	Left	Down	Down
270°	Front	Front	Left



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

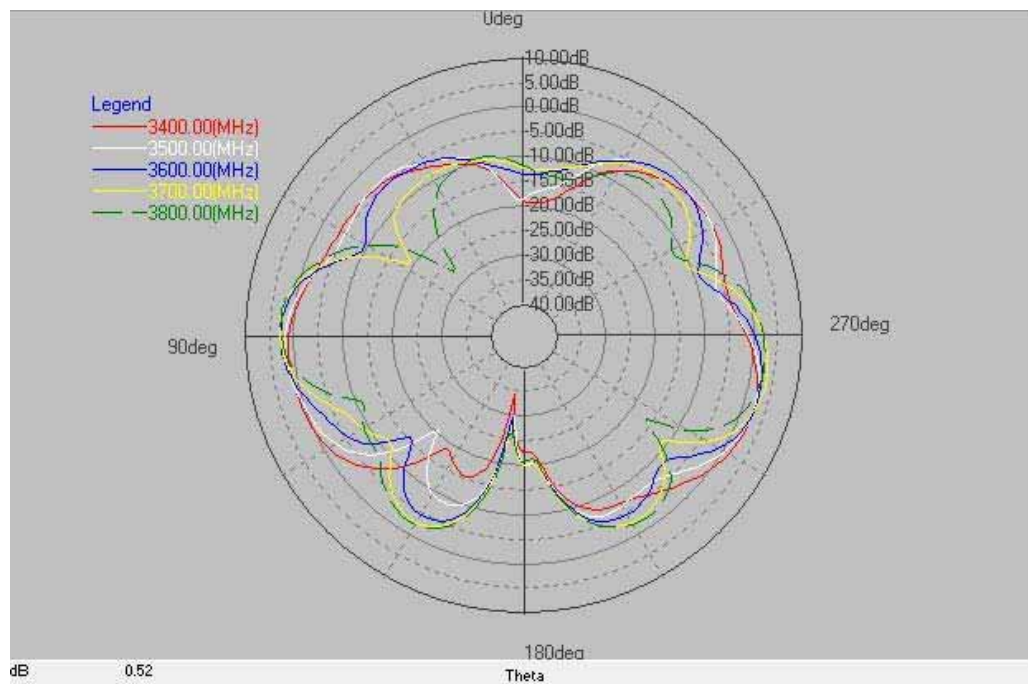
3.2 ANT 1.

3400 MHz~3800 MHz



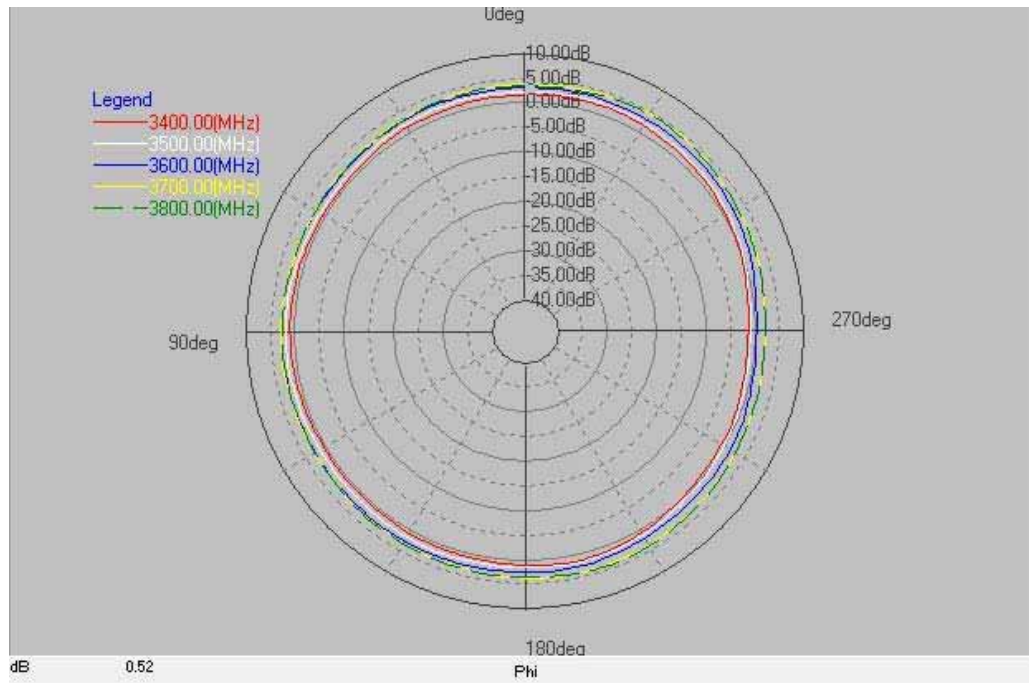
X-Z Plane (E-total)

3400 MHz~3800 MHz



Y-Z Plane (E-total)

3400 MHz~3800 MHz



X-Y Plane (E-total)

4.0 Return Loss

Frequency	Ant 1. (dB)
3400MHz	-21.63
3500MHz	-38.71
3600MHz	-24.93
3700MHz	-19.38
3800MHz	-14.28

4.1 3D total Peak Gain & Efficiency

Frequency	Ant 1.	
	Peak Gain (dBi)	Efficiency (%)
3400MHz	5.01	71.30
3500MHz	5.08	71.45
3600MHz	5.12	71.46
3700MHz	5.15	71.50
3800MHz	4.88	71.15