WA-F-R3-02-001 Specification

1. Explanation of part number :

WA	_	F	_	R3	_	02	_	001
(1)		(2)		(3)		(4)		(5)

(1) Product Type：Wireless Antenna

(2) Material: FPCB+CABLE

(3) Frequency : 868MHz-915MHz

(4) Coaxial Cable Type : 02

(5) Suffix :001

2. Storage Condition:

Temperature	-40 to +70°C
Humidity	65±20 % RH

3. Operating Condition:

Temperature	-40 to +70°C
Humidity	65±20 % RH

4. Electrical Specification :

Those specifications were specially defined for ***佳德 GC NEXT SubG900-Main*** *model, and all characteristics were measured under the model's handset testing jig .*

4-1. Frequency Band:

Frequency Band	MHz
SubG900-Main	868MHz-915MHz

4-2. Impedance

50 ohm nominal

4-3. Matching circuit

None

4-4. VSWR

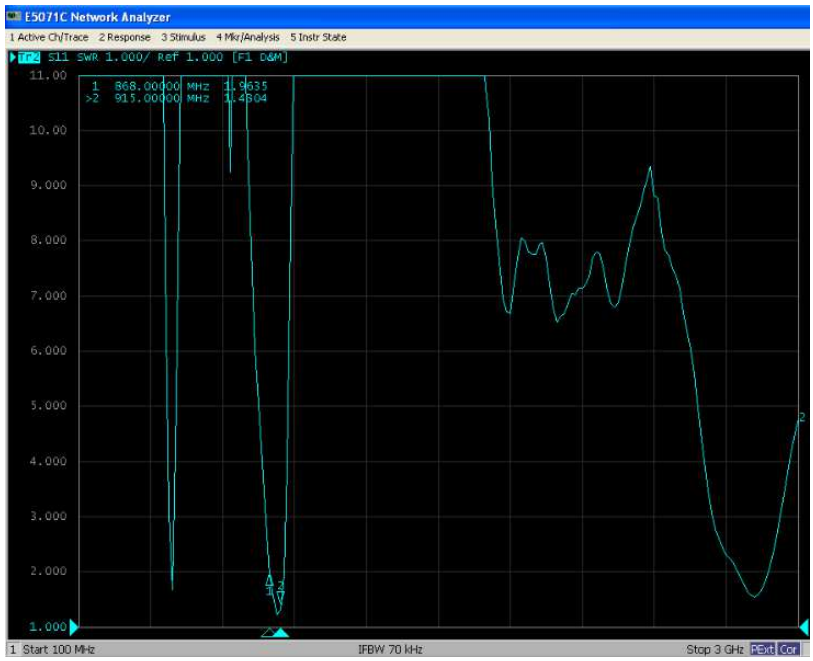
4-4.1 Measuring Method

1.A 50Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR

2.Keeping this jig away from metal at least 20cm

4-4.2 Measurement frequency points and VSWR value

Frequency (Unit MHz)	868	915
VSWR	⩽3.0	⩽3.0
VSWR	**1.96**	**1.43**

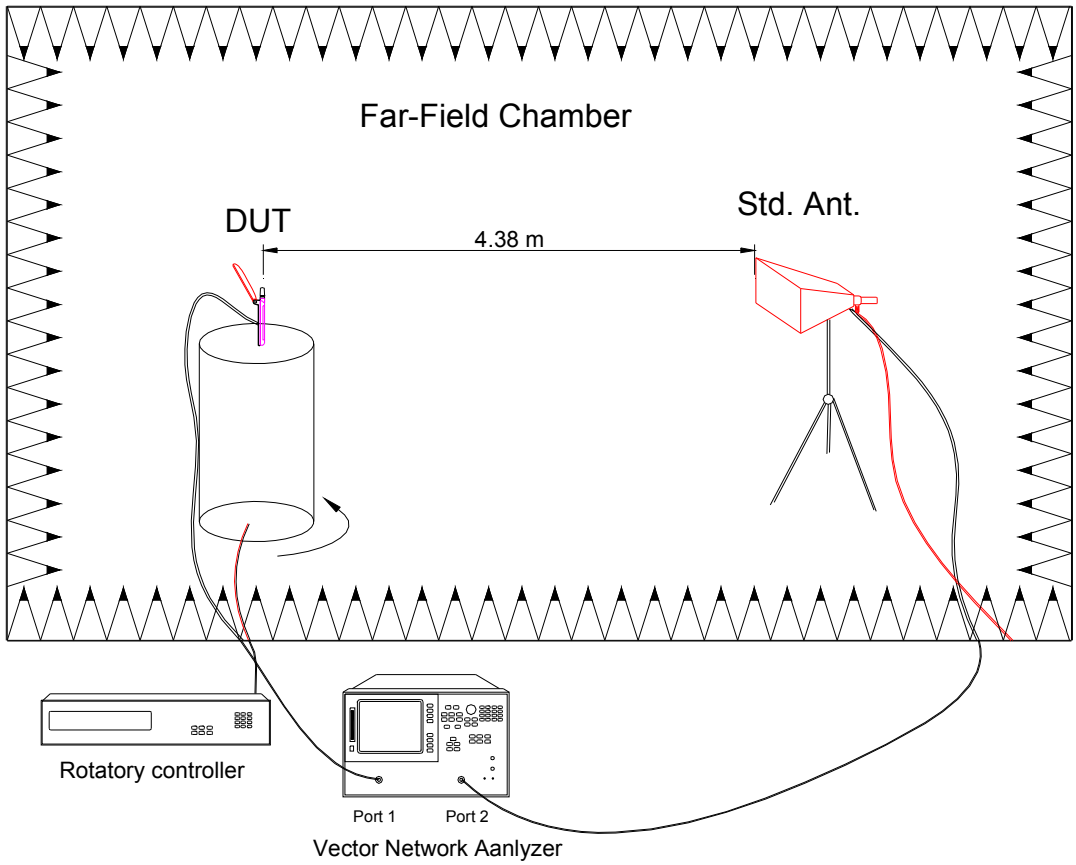


4-5. Efficiency and Gain

4-5.1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data

4-5.2 Chamber definition



1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quite room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

4-5.3Efficiency and Gain

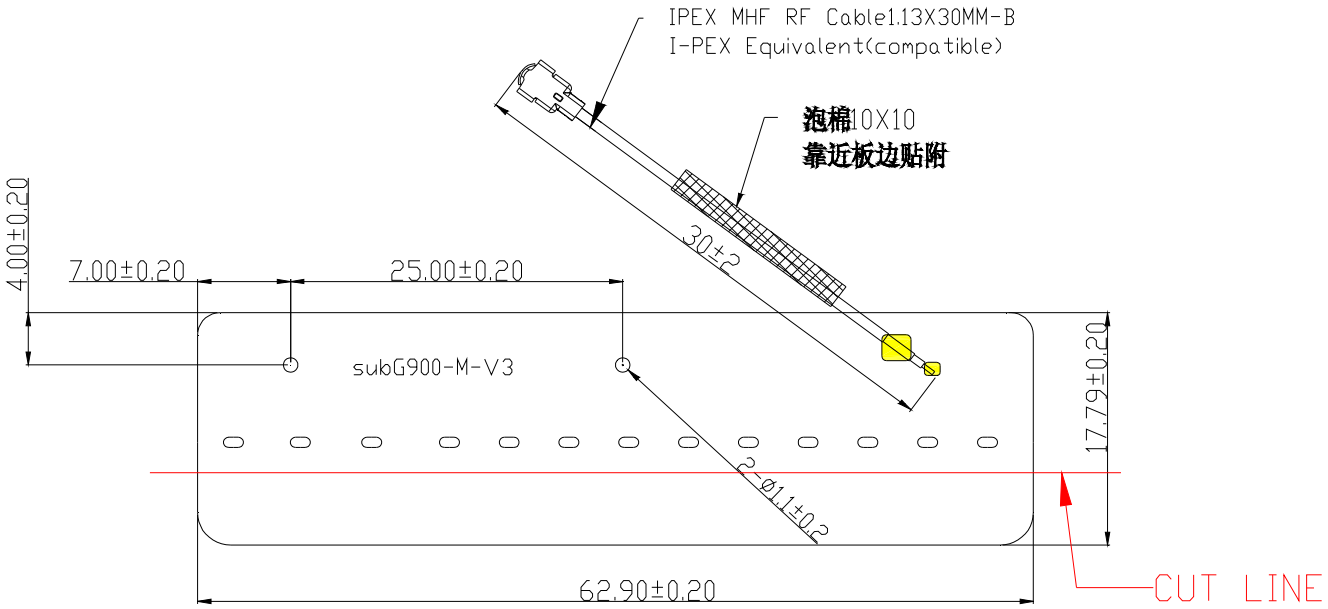
Antenna gain is marked (dBi) and is based on STANDARD HORN antenna. The data showsPeakGain and AverageGain.

Frequency (MHz)	868	915
Efficiency (%)	34.51	41.11
Gain (dBi)	0.57	1.35

5.Mechanical Specification:

5-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure **5-1-1**



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