



佳邦科技股份有限公司

INPAQ TECHNOLOGY CO., LTD.

客戶名稱 : 本伟技术
CUSTOMER

Document No.: _____

Approval Sheet Rev.: A0

Spec. Rev. : P0

產品品名/Product Model No. : WAG-F-LB-00-091

客戶料號/Customer No. : _____

專案名稱/Project Name: X708

發行日期/ Issue Date : 2024/04/11

承認日期/ Approved Date : _____

Approved by customer: (signing or stamping here)



INPAQ WEB

WAG-F-LB-00-091 Specification

1. Explanation of part number :

WAG - F - LB - 00 - 091
(1) (2) (3) (4) (5)

(1) Product Type : WiFi Antenna

(2) Material: FPC

(3) Frequency : 2400-2500MHz; 5150-5850MHz

(4) Coaxial Cable Type : 00

(5) Suffix :091

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 龙旗 X708 (WiFi CH0) model, and all characteristics were measured under the model's handset testing.

4-1. Frequency Band:

Frequency Band	MHz
WiFi CH0	2400-2500 5150-5850

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
ANGLES=± HOLEDIA=±



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SCALE :

UNIT : mm

DRAWN BY : 靳静

CHECKED BY : 赵付辉

DESIGNED BY : 熊勇

APPROVED BY : 赵付辉

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4-2. Impedance

50 ohm nominal

4-3. Matching circuit

None

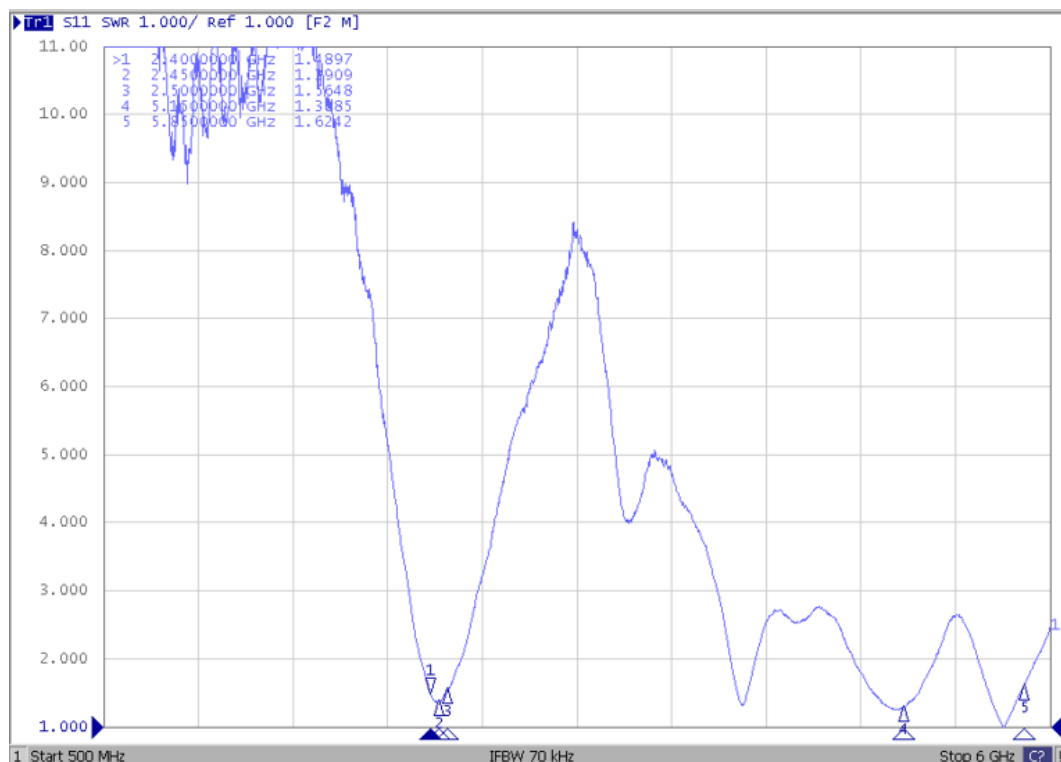
4-4. VSWR

4-4.1 Measuring Method

- 1.A 50 Ω 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)	2400	2450	2500	5150	5850
VSWR	1.48	1.19	1.56	1.30	1.62



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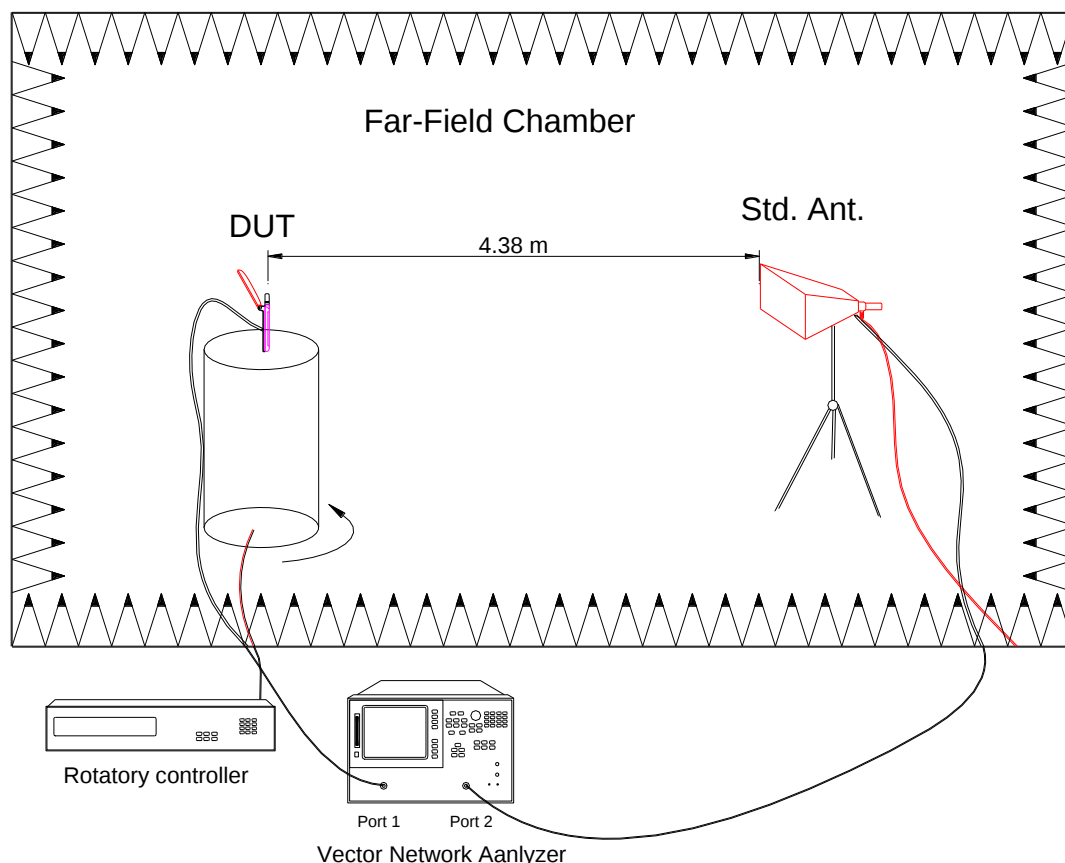
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4-5. Efficiency and Gain

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 quiet 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)

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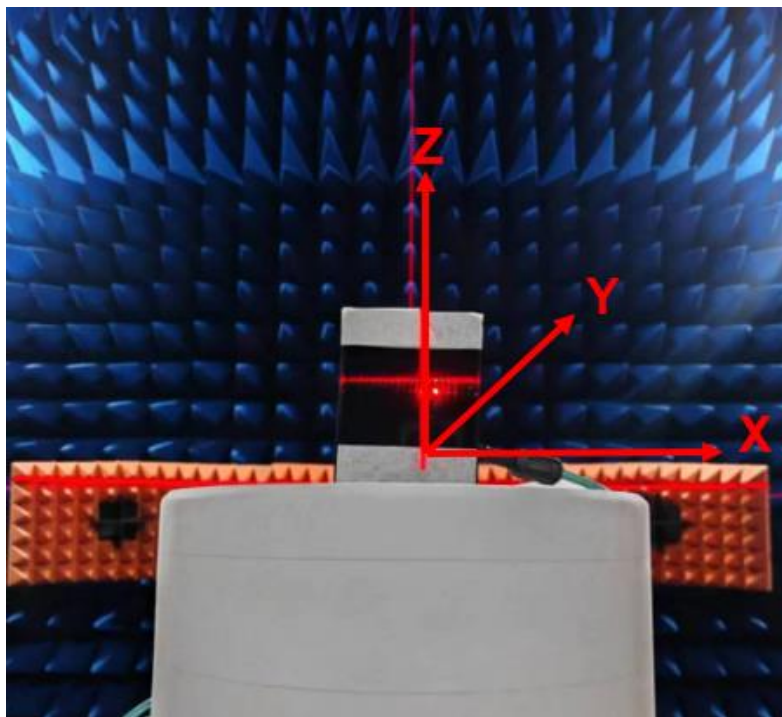
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4-5.3 Efficiency and Gain

Antenna gain is marked (dBi) and is based on STANDARD HORN antenna. The data shows Peak Gain and Average Gain.

Frequency	Efficiency	Efficiency	MaxGain/d	Frequency	Efficiency	Efficiency	MaxGain/dBi
2400	-3.93	40.46	3.79	5150	-3.31	46.67	3.78
2410	-3.88	40.93	3.73	5200	-3.6	43.65	4.05
2420	-3.76	42.07	3.79	5250	-4.02	39.63	3.52
2430	-3.53	44.36	4.06	5300	-4.88	32.51	2.78
2440	-3.66	43.05	3.66	5350	-4.94	32.06	3.2
2450	-3.32	46.56	4.23	5400	-5.59	27.61	2.22
2460	-3.75	42.17	3.51	5450	-6.04	24.89	1.04
2470	-3.32	46.56	4.25	5500	-5.8	26.3	0.77
2480	-3.64	43.25	3.69	5550	-5.4	28.84	0.38
2490	-3.35	46.24	4.22	5600	-4.87	32.58	0.3
2500	-3.57	43.95	3.84	5650	-4.11	38.82	0.33
				5700	-3.71	42.56	0.74
				5750	-3.17	48.19	1.14
				5800	-3.3	46.77	0.61
				5850	-3.52	44.46	0.79

4-5.4 2/3D Radiation Pattern Results



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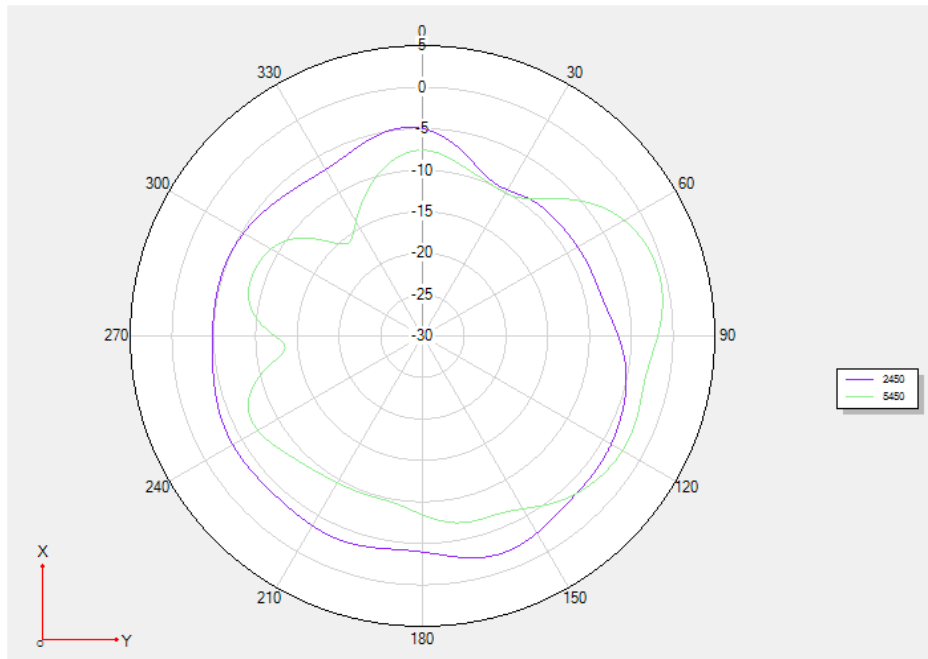
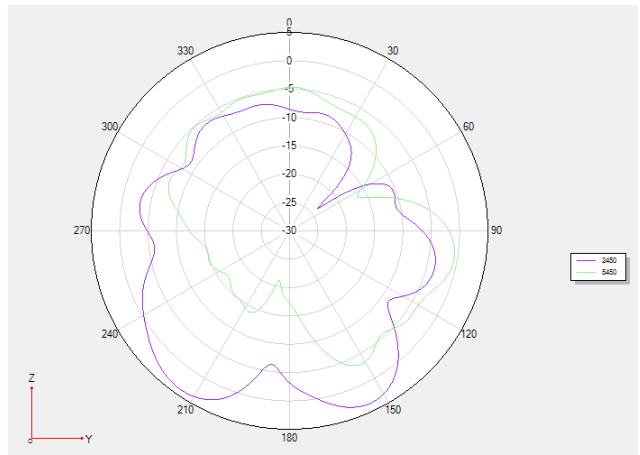
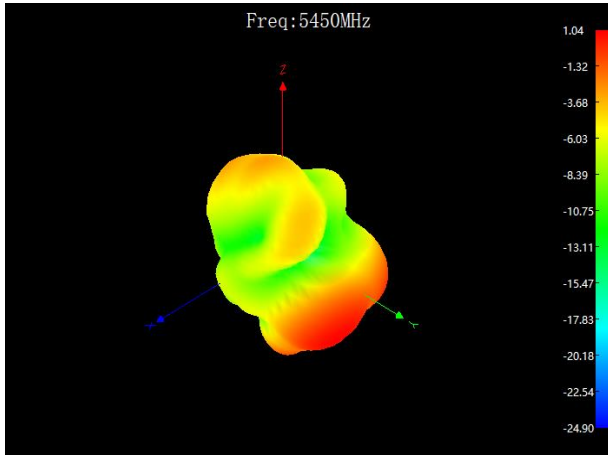
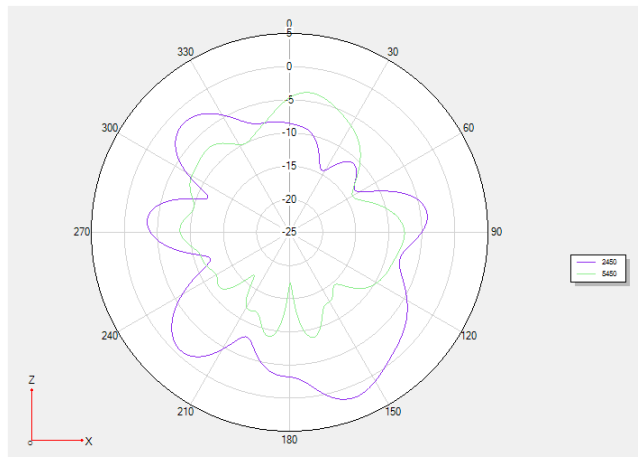
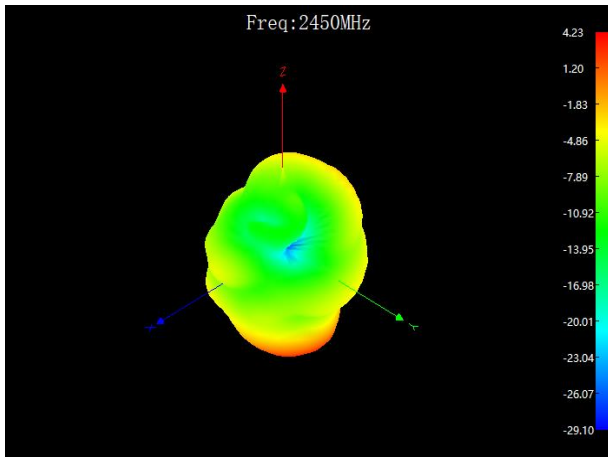


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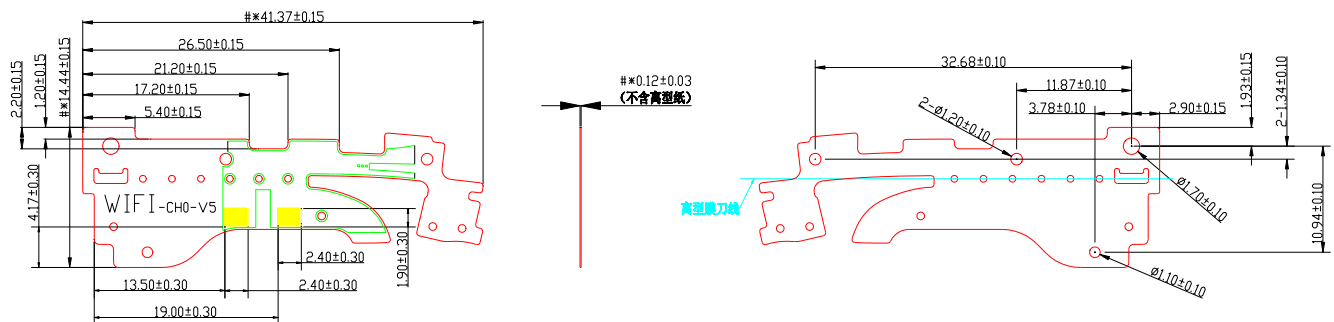
4-5.5 Active Measurement Data

WIFI CH0+CH1			
Band	channel	TRP	TIS
WIFI B	1	15.1	-84.5
	7	15.4	-87.3
	13	15.6	-86.96
WIFI A	36	17.4	-76.02
	100	17.42	-75.11
	165	17.62	-74.55

5. Mechanical Specification:

5-1. Mechanical Configuration (Unit: mm)

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



6. Physical illustration



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