



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-00-092

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-00-092 Specification

1. Explanation of part number :

WAG - F - LB - 00 - 092
(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 :092

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 CH1) model, and all characteristics were measured under the model's handset testing.

4-1. Frequency Band:

Frequency Band	MHz
WiFi CH1	2400-2500 5150-5850

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±

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

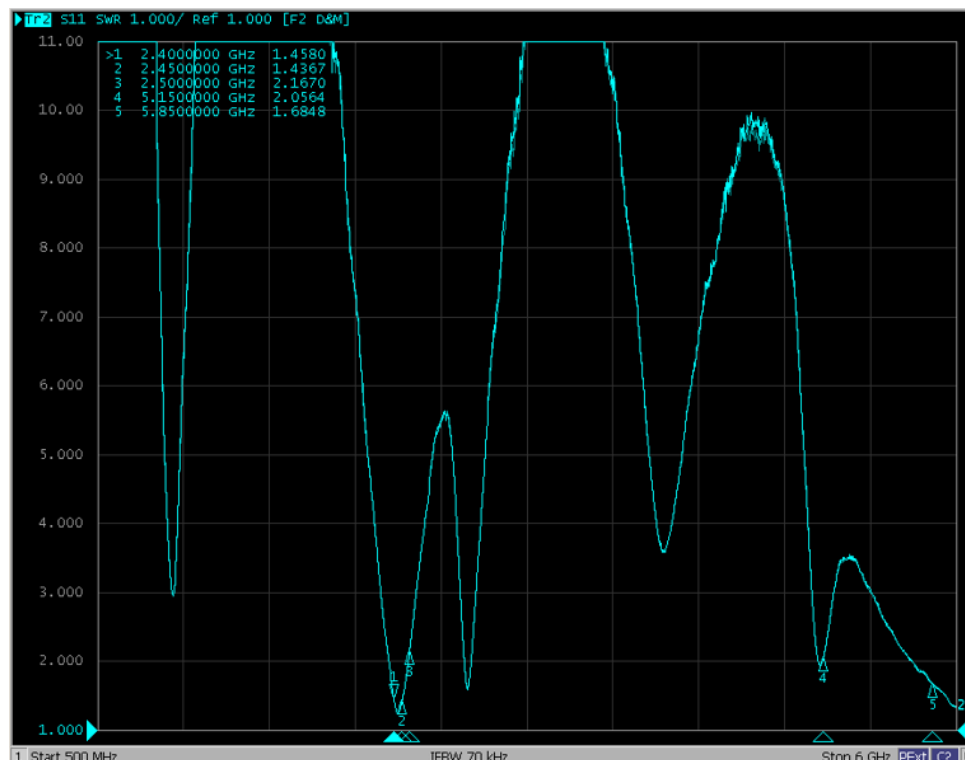
4-4. VSWR

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	1.45	1.43	2.1	2.05	1.68



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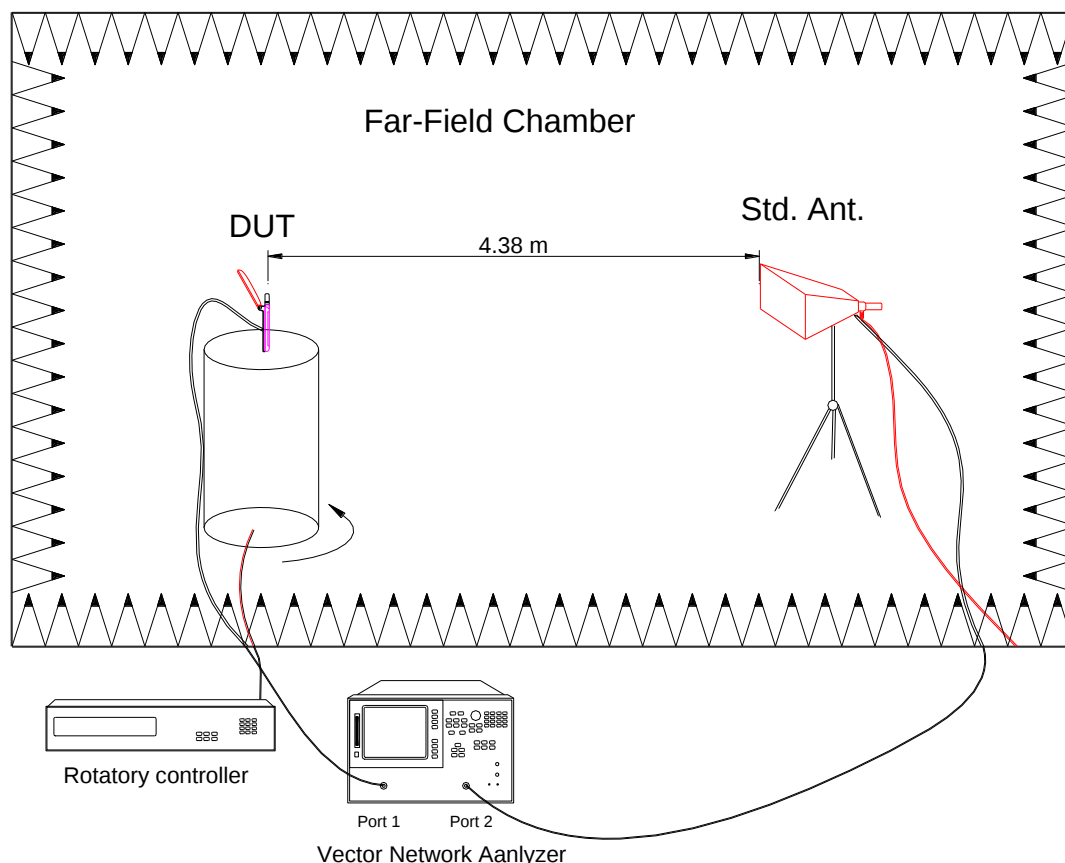
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4-5. Efficiency and Gain

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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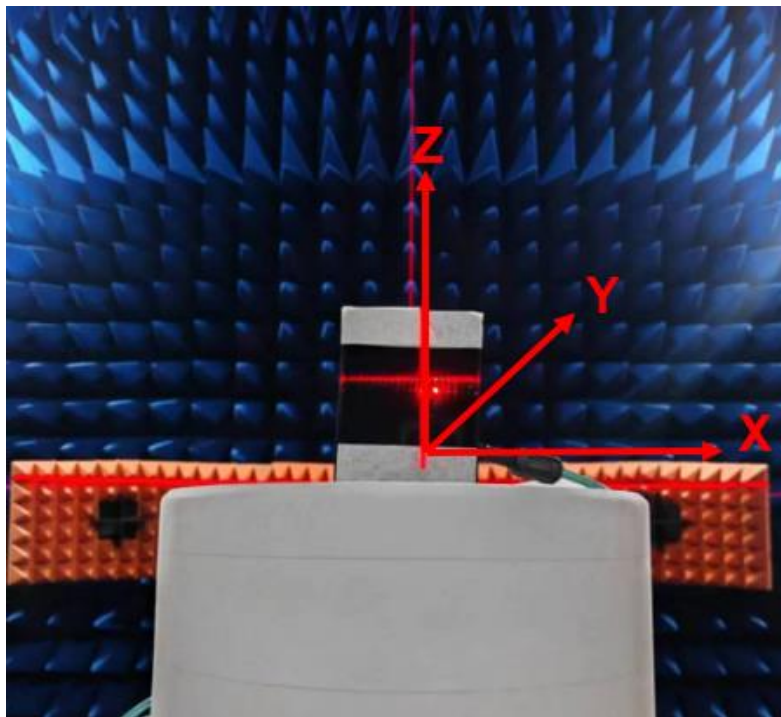
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4-5.3 Efficiency and Gain

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	-4.35	36.73	-0.24	5150	-5.21	30.13	4.05
2410	-4.31	37.07	-0.44	5200	-5.55	27.86	3.07
2420	-4.17	38.28	-0.29	5250	-5.99	25.18	1.74
2430	-4.08	39.08	-0.37	5300	-6.18	24.1	1.95
2440	-4.08	39.08	-0.36	5350	-5.44	28.58	2.29
2450	-3.92	40.55	-0.4	5400	-4.99	31.7	2.09
2460	-4.19	38.11	-0.58	5450	-4.81	33.04	1.47
2470	-4.01	39.72	-0.57	5500	-4.38	36.48	2.12
2480	-4.3	37.15	-0.82	5550	-3.98	39.99	2.58
2490	-4.24	37.67	-0.88	5600	-3.67	42.95	2.76
2500	-4.57	34.91	-1.25	5650	-3.55	44.16	2.52
				5700	-3.56	44.06	2.69
				5750	-3.14	48.53	3.29
				5800	-3.25	47.32	3.1
				5850	-3.49	44.77	2.98

4-5.4 2/3D Radiation Pattern Results



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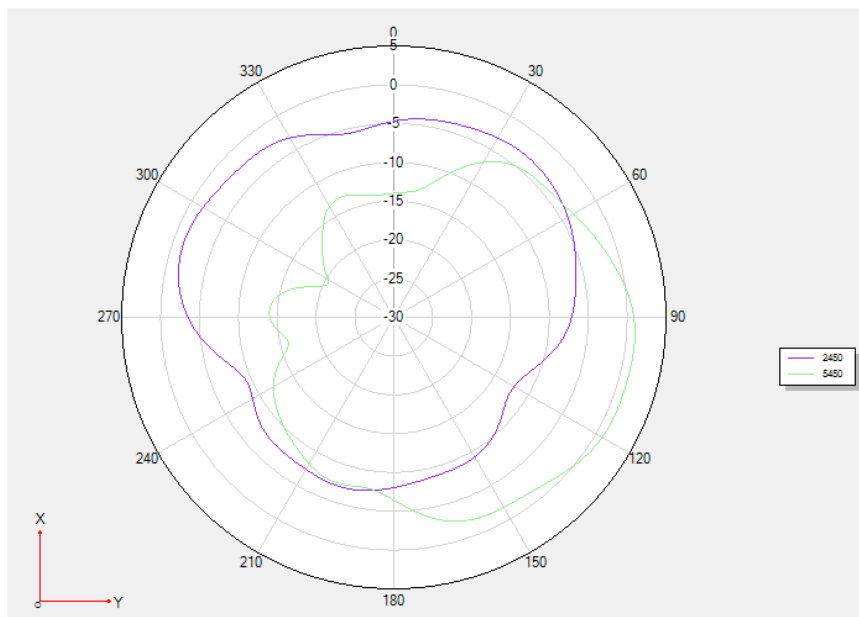
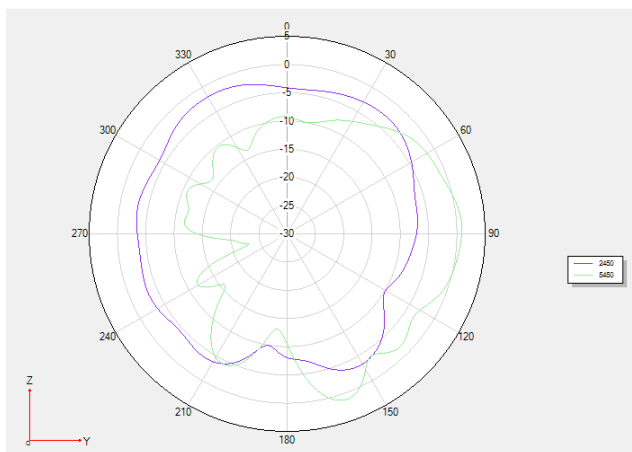
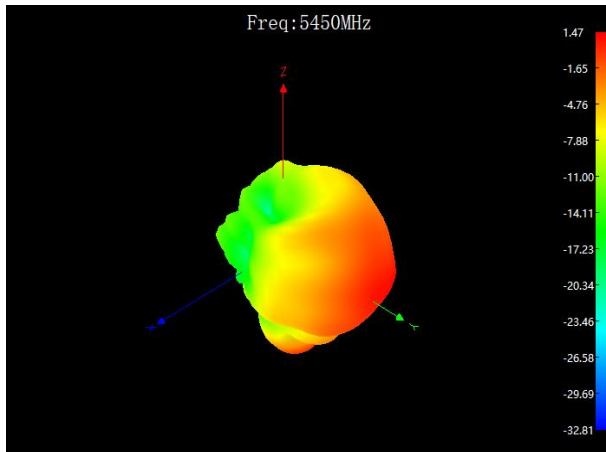
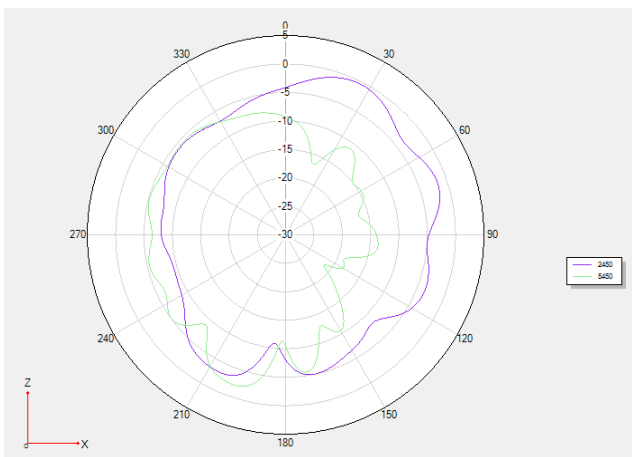
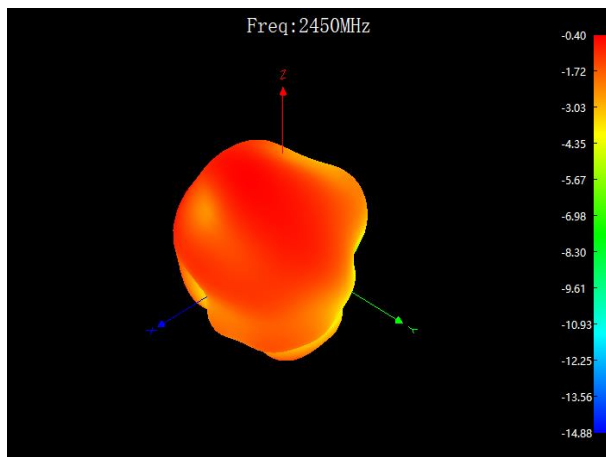


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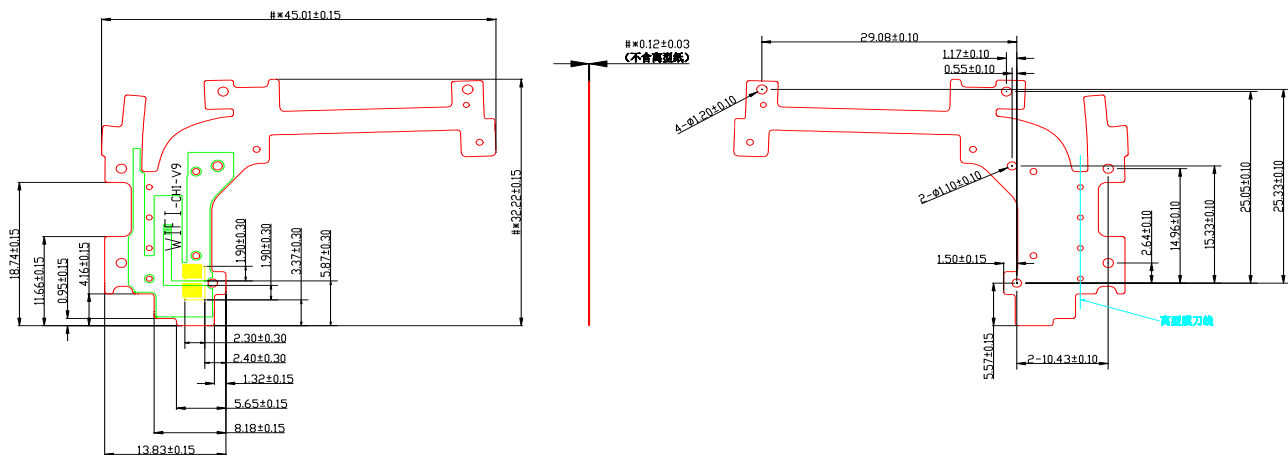
4-5.5 Active Measurement Data

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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