

维海德 M2000S WiFi 天线规格承认书

Product Specifications for Approval

物料编号：WF4528B-1131R-240 (灰)

客户名称:维海德

机型：M2000S

天线频段：WIFI2. 4G/5. 8G

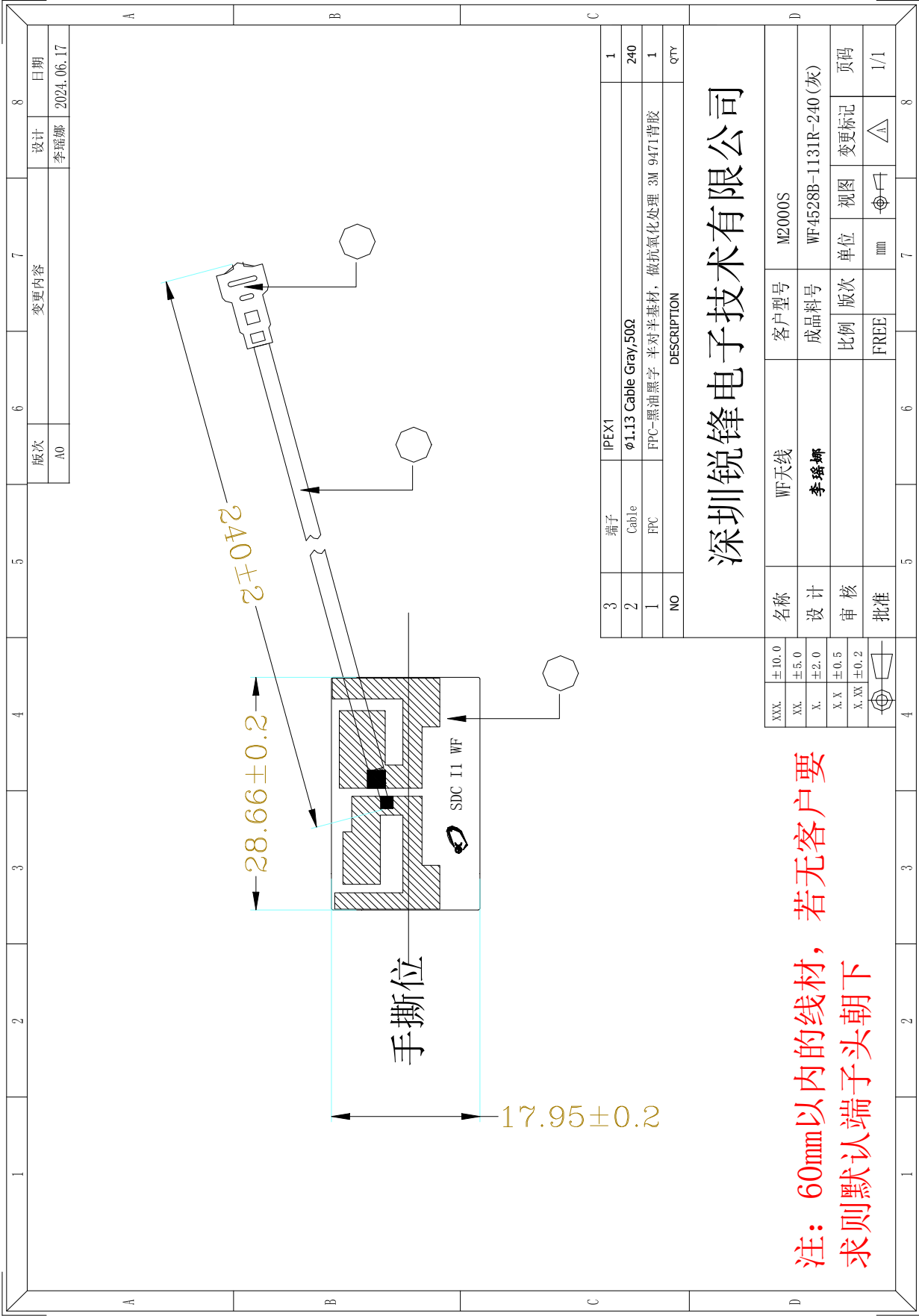
版本：R-A

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客户确认			
客户审核：		客户批准：	

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1. Project information and Electrical Specification

Those specifications were specially defined for 维海德 M2000S , **WIFI2.4G/5.8G**, and all characteristics were measured under the model's handset testing jig .

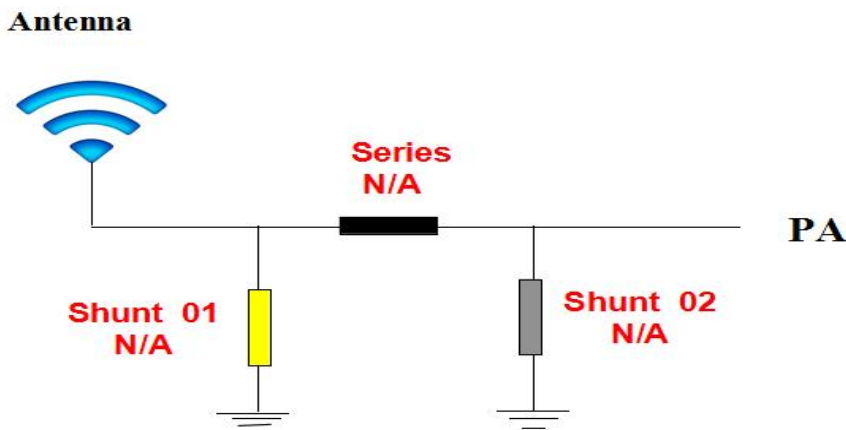
1-1 Antenna picture



1-2 Frequency Band:

Frequency Band	MHz
WIFI2. 4G/5. 8G	2400-5850 （MHz）

1-3 Impedance matching

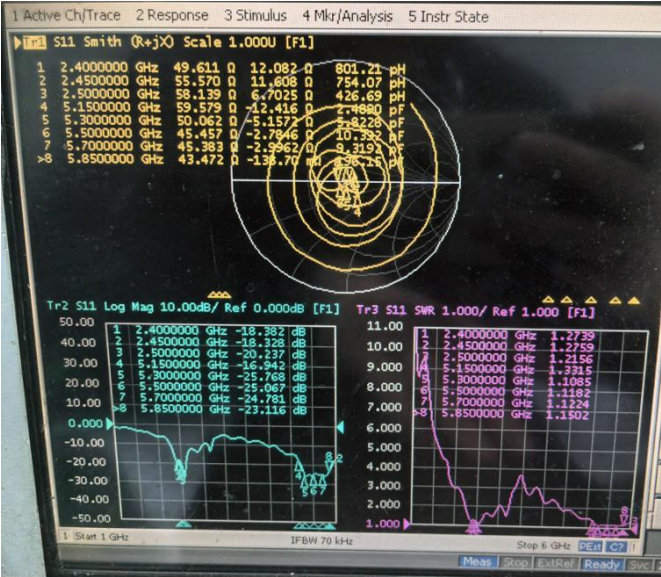


2. VSWR

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. VSWR parameter value

S11 SWR /Smith/ Log Mag--WIFI 1



频率 (MHZ)	2400	2450	2500	5150	5300	5500	5700	5850
驻波比	1.27	1.27	1.21	1.33	1.1	1.11	1.12	1.15

频率 (MHZ)	2400	2450	2500	5150	5300	5500	5700	5850
阻抗	49.6 Ω	55.5 Ω	58.1 Ω	59.5 Ω	50 Ω	45.4 Ω	45.3 Ω	45.4 Ω

频率 (MHZ)	2400	2450	2500	5150	5300	5500	5700	5850
回损	-18.3	-18.3	-20.2	-16.9	-25.7	-25	-24.7	-23.1

3. Efficiency and Gain*measuring and test instruments:

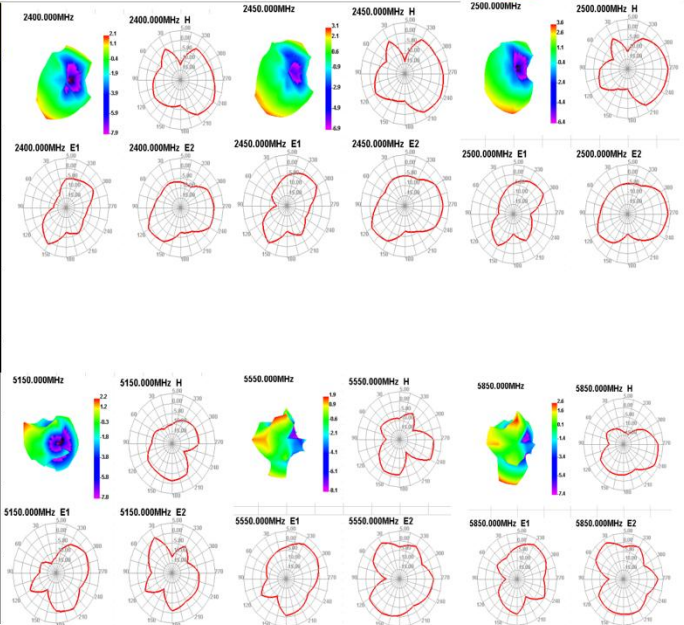
微波暗室, Agilent 网络分析仪, Agilent 频谱分析仪, 8960 综合测试仪, 标准天线*test method: equipment 以 H 面放于转台中心位置固定, 与喇叭天线中心位置在同一个水平线上。

Efficiency/Gain- WIFI2.4G/5.8G/BT

增益&效率-WiFi 1



Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	54.46	2.14
2450	60.37	3.12
2500	61.14	3.65
5150	41.89	2.19
5350	43.23	2.19
5550	47.28	1.88
5750	57.94	3.21
5850	53.6	2.56



4. WIFI OTA Data

WIFI OTA Data



2.4G WIFI	TRP			TIS		
Channel	CH1	CH6	CH12	CH1	CH6	CH12
802.11b, 11M	13.21	14.34	14.13	-82.92	-82.27	-82.76
802.11g, 54M	13.56	13.58	13.41	-70.59	-70.53	-69.36
802.11n, MCS7 (65M)	13.21	13.65	13.88	-68.42	-69.72	-69.71

5.8G WIFI	TRP			TIS		
Channel	CH36	CH60	CH165	CH36	CH161	CH165
802.11A, 54M	12.8	10.11	12.29	-68.42	-68.55	-69.71

5.The production index

天线量产时，以驻波比作为量产测试标准。

根据项目本身的差异,给出如下标准:

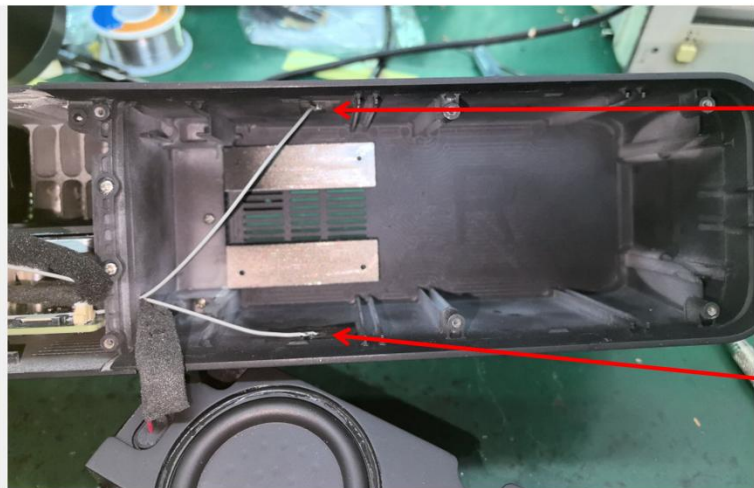
频率	量产标准
WIFI2.4G/5.8G/BT	VSWR（量产产品）<VSWR(设计样品)+/-0.5

6.天线安装位置图

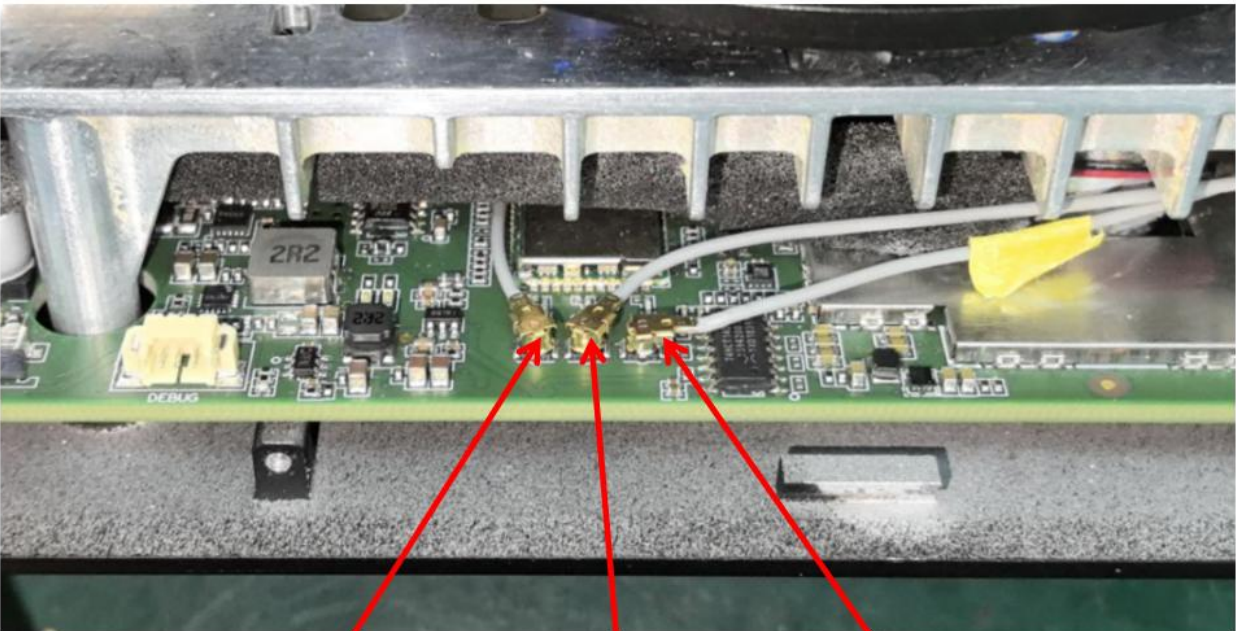
天线位置安装图



BT



WiFi1



WiFi 2

WiFi 1

BT