



## 耀登电通科技(昆山)有限公司 Auden Communications & Multimedia Techno (Kunshan) Co., Ltd

# **Antenna Evaluating Report**

weifan. for

**Prepared By:** Weifan Fan

Singer Mad

Checked By:

**Date of Report:** 

## Record



Date	Rev	Description
2023-01-05	01	Testing

## LIST OF TEST EQUIPMENTS



Item	Kind of Equipment	Manufacturer	Type No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E5071C	2022.05.08	2023.06.09	1 year
2	2G/3G Communications Test Set	Agilent	8960	2022.05.08	2023.06.09	1 year
3	LTE Wireless Communications Test Set	Anritsu	MT8820	2022.05.08	2023.06.09	1 year
4	TD Communications Test Set	StarPoint	SP6010	2022.05.08	2023.06.09	1 year
5	WIFI Wireless Communications Test Set	Anritsu	MT8860	2022.05.08	2023.06.09	1 year
6	GPS Signal	Agilent	E4438C	2022.05.08	2023.06.09	1 year
7	Chamber	GTS	Rayzone18 00	2022.05.08	2023.06.09	1 year

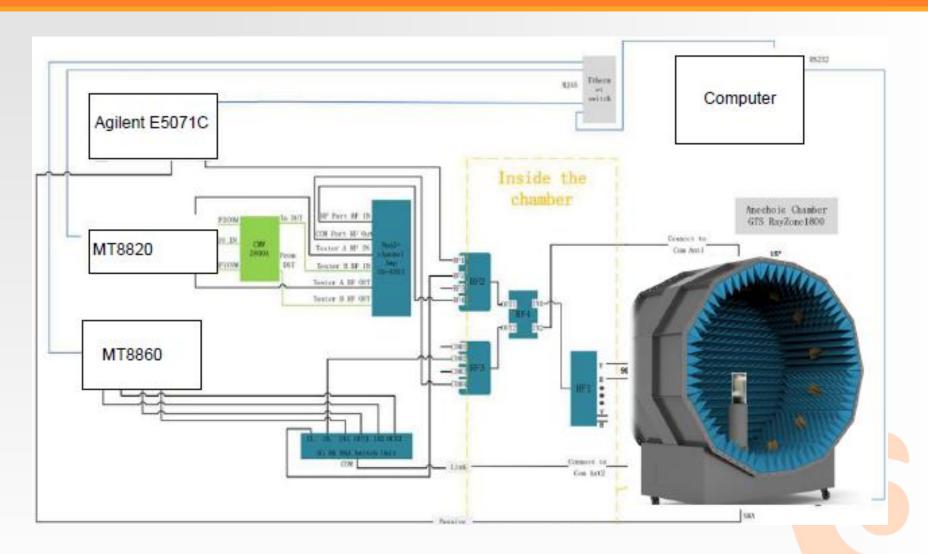
# **Frequency Range**



使用系统	Band	使用系统	Band
GSM		WIFI / BT	2.4G~2.5G
WCDMA		全球定位	GPS/BD
TD-SCDMA		FM	
CDMA		Others	
FDD LTE			
TDD LTE			

## Test set-up





#### **Test Standards**



According to the specifications of the manufacturer, it must comply with the requirements of the following standards: ANSI/IEEE Std 149-2008



#### **Test Produce**



The method is used to measure the antenna 3D GAIN of EUT in OTA qualified Rayzone1800 chamber. Equipment Under Test(EUT) geometry centre vertical projection at the centre of platform, the distance from EUT to measurement antenna is 1m.



# **Machine picture**







BT下方走线

## **GPS/BD** passive standing wave and its efficiency



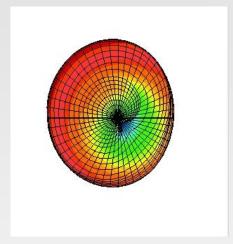


Frequency	Efficiency Total (%)	Gain Total (dBi)	
1.55G	59.43	1.35	
1.555G	60.67	1.43	
1.56G	61.24	1.55	
1.561G	61.09	1.55	
1.565G	60.53	1.56	
1.57G	60.12	1.6	
1.575G	58.34	1.56	
1.58G	56.89	1.52	
1.585G	58.34	1.68	
1.59G	59.02	1.77	
1.595G	57.94	1.72	
1.6G	58.08	1.78	
1.605G	59.16	1.9	

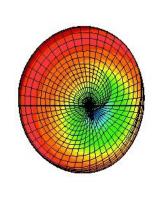
# **GPS** antenna pattern



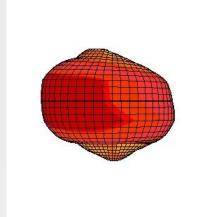
1.561GHzFront-Back View



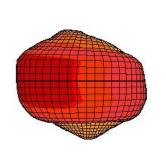
1.575GHzFront-Back View



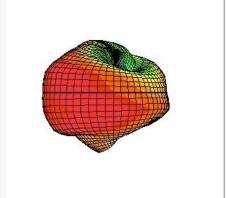
1.561GHzLeft-Right View



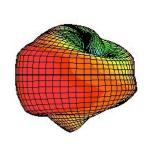
1.575GHzLeft-Right View



1.561GHzUp-Down View

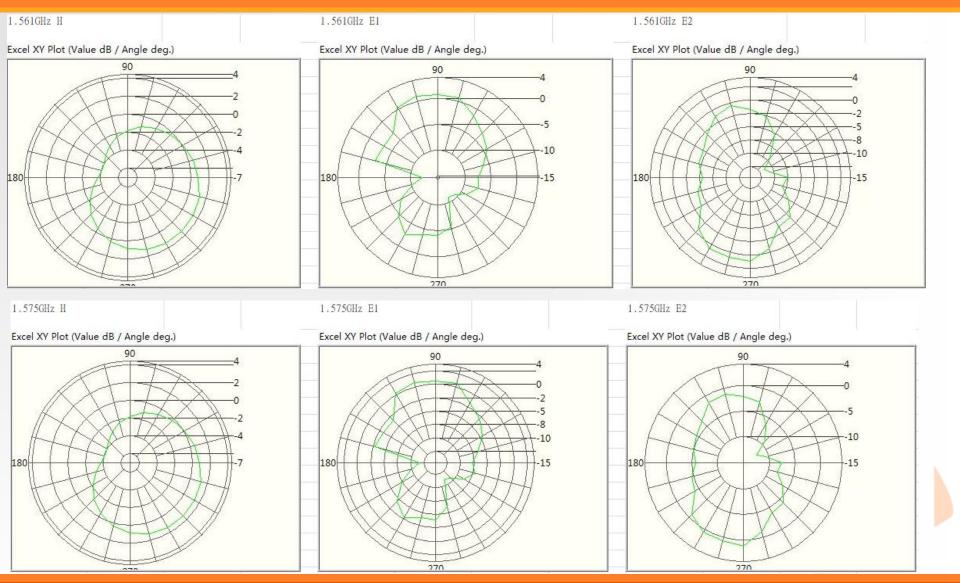


1.575GHzUp-Down View



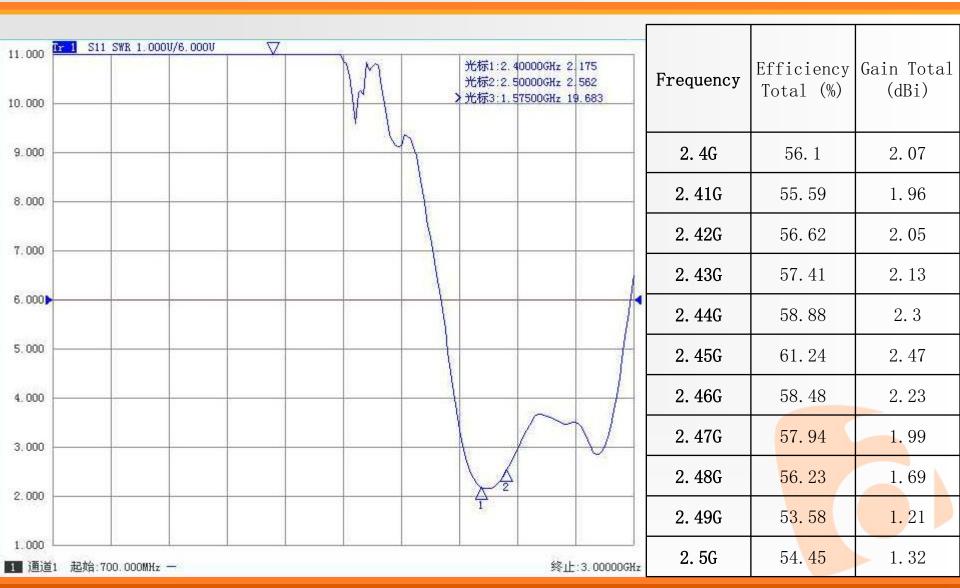
# GPS antenna 2D diagram





# BT passive standing wave and efficiency auden

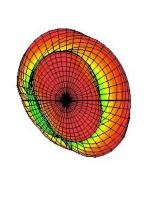




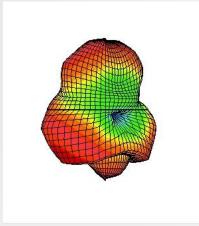
# BT passive standing wave and efficiency



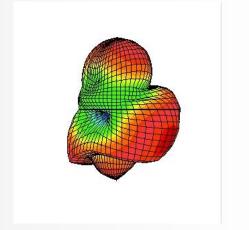
2.4GHzFront-Back View



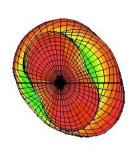
2.4GHzLeft-Right View



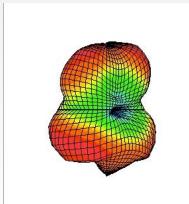
2.4GHzUp-Down View



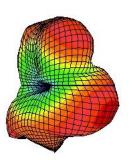
2.5GHzFront-Back View



2.5GHzLeft-Right View



2.5GHzUp-Down View

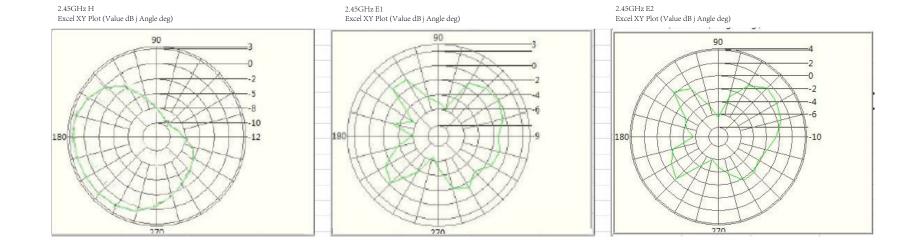


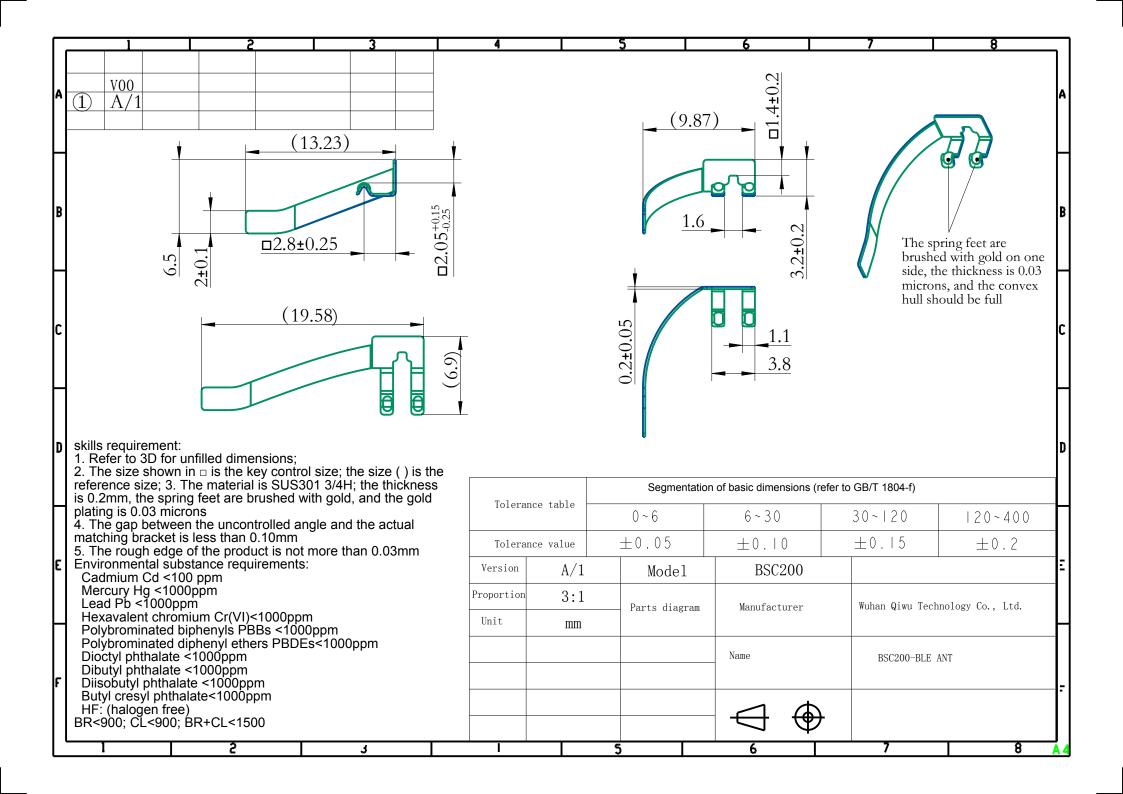
# BT antenna 2D diagram





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#### Thank You





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