

Antenna Passive TEST RESULT

Applicant	:	Tsingoal (Beijing) Technology Co., Ltd.
Address	:	10th Floor, Building A, Innovation Plaza , No.1 Zhongguancun East Road, Haidian District, Beijing
Equipment under Test	:	Positioning Device
Model No.	:	TB5000-WB
Trade Mark	:	N/A
Manufacturer	:	Tsingoal (Beijing) Technology Co., Ltd.
Address	:	10th Floor, Building A, Innovation Plaza , No.1 Zhongguancun East Road, Haidian District, Beijing

1. General TEST Information

1.1 Description of EUT

EUT Description	:	Positioning Device
Model Number	:	TB5000-WB
Frequency Band	:	7500MHz-8500MHz
Power Supply	:	N/A
Antenna Type	:	PCB Antenna

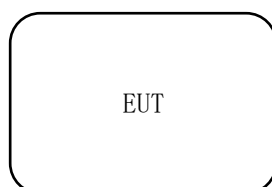
1.2 Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Remark
N/A	N/A	N/A	N/A	N/A

1.3 Assistant equipment used for test

Description of Accessories	Manufacturer	Model number	Description	Remark
N/A	N/A	N/A	N/A	N/A

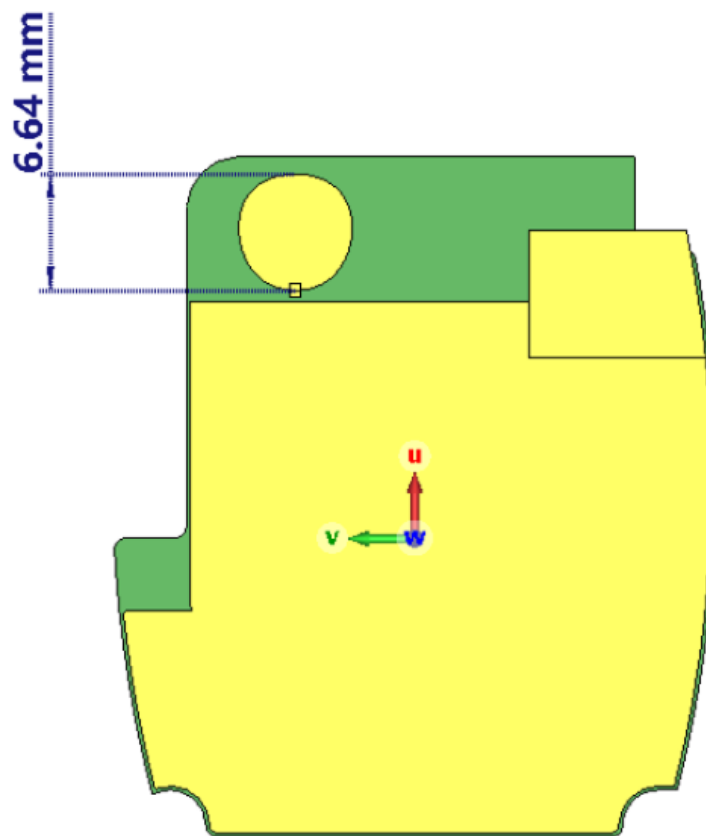
1.4 Block diagram of EUT configuration for test



1.5 Measurement uncertainty

Test Item	uncertainty
Near-field gain measurement	0.44 dB
Near-field pattern measurement	0.44 dB
Note: This uncertainty indicates that the extended uncertainty confidence interval is about 95% and the corresponding inclusion factor k=2 is obtained.	

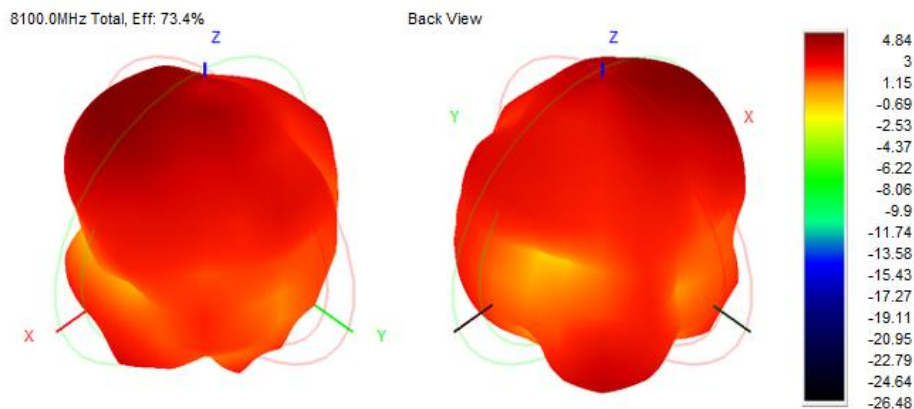
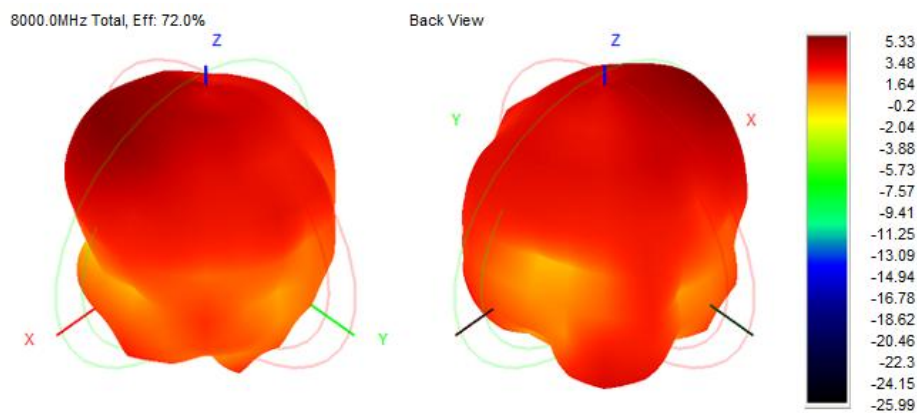
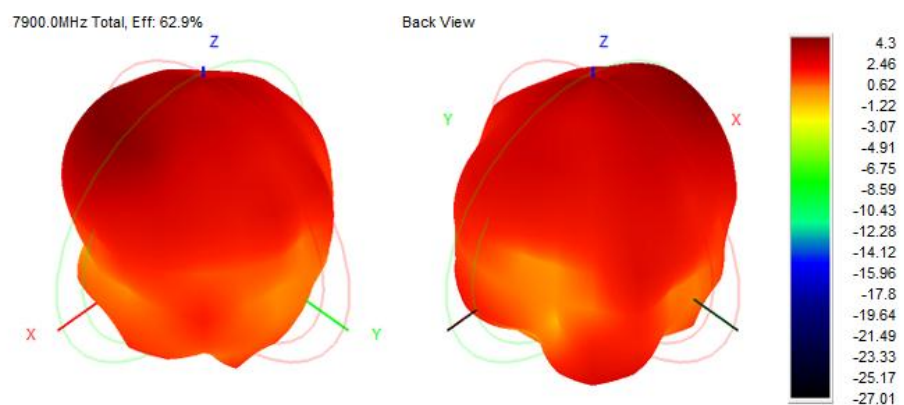
1.6 Antenna Parameter



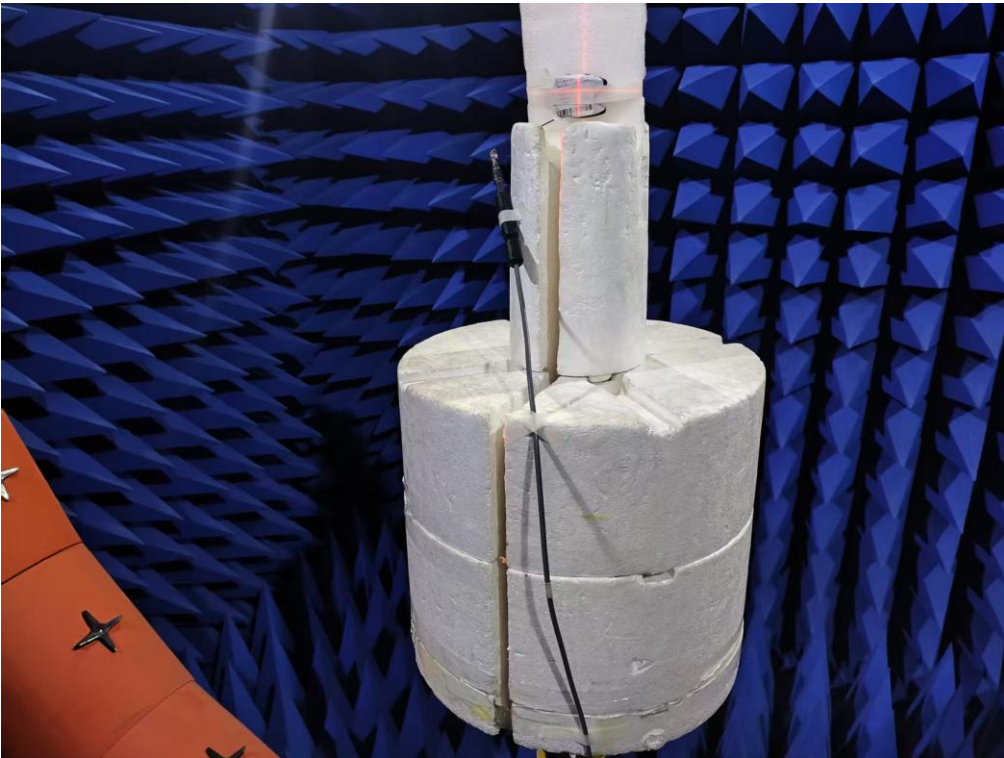
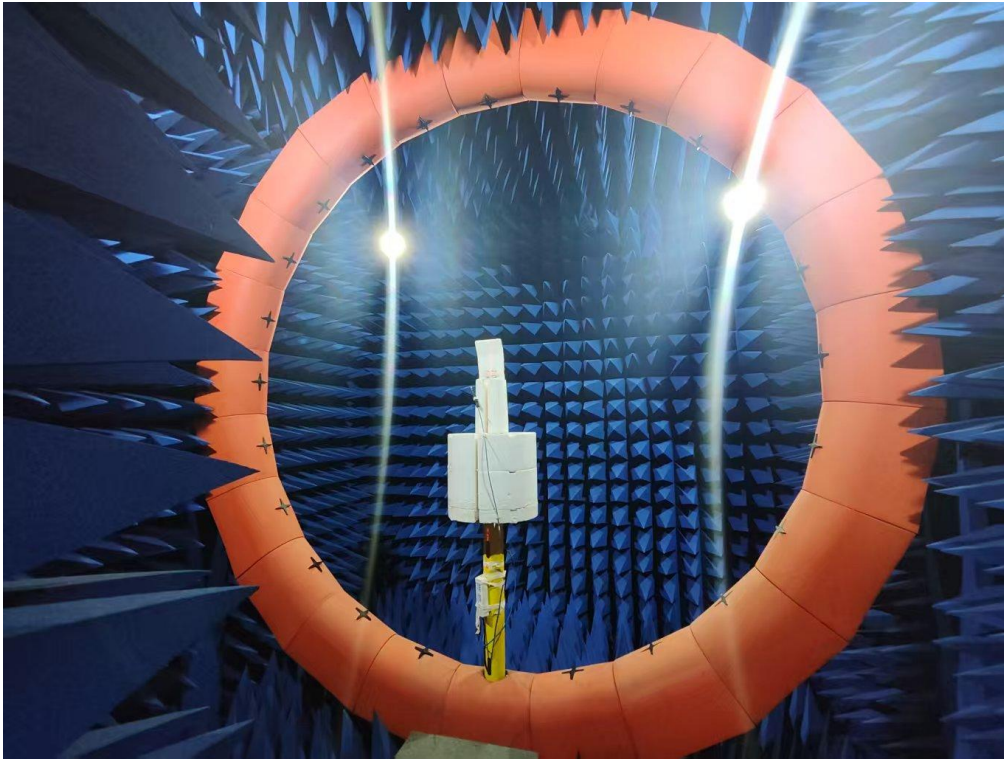
2. Gain measurement

2.1 Result

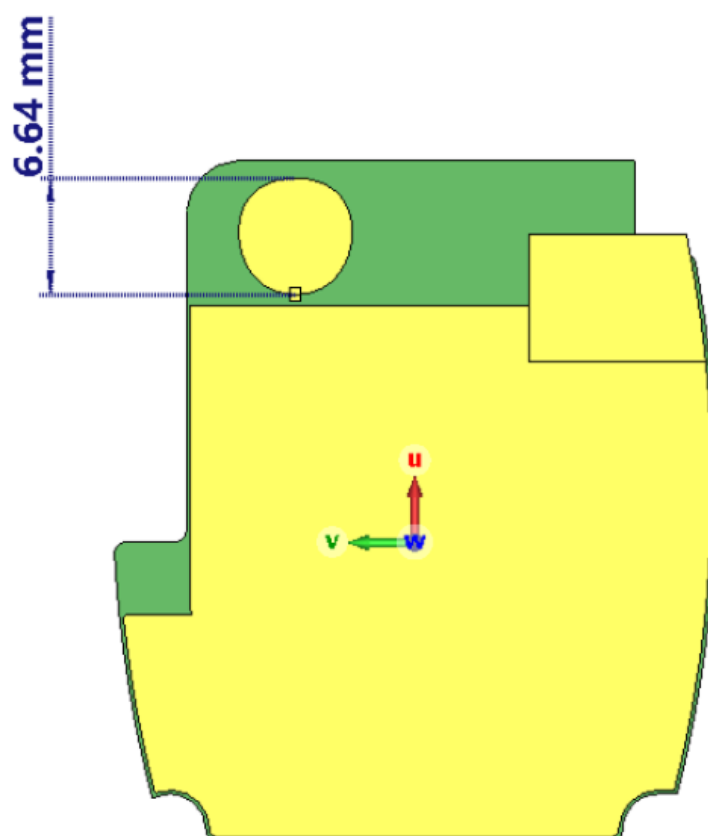
Fre. (MHz)	Eff. (dBi)	Gain (dBi)	Eff. (%)	Directivity (dB)	Peak Gain Position (Theta)	Peak Gain Position (Phi)	Eff. ThetaPol (%)	Eff. PhiPol (%)	Upper Hem. Eff. (%)	Lower Hem. Eff. (%)
7900.0	-2.01	4.30	62.89	6.32	30.00	330.00	27.12	35.76	42.88	20.01
8000.0	-1.42	5.33	72.04	6.75	30.00	330.00	30.99	41.05	48.49	23.54
8100.0	-1.34	4.84	73.41	6.18	30.00	330.00	30.29	43.12	46.56	26.85



Annex A Test Setup Photo



Annex B EUT Photo



Antenna

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