

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-BD
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-BD
Frequency Band	:	7500MHz-8500MHz
Power Supply	:	N/A
Antenna Type	:	PCB Antenna

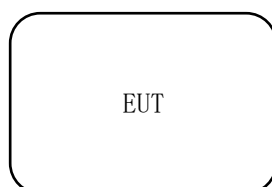
1.2 Accessories of EUT

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

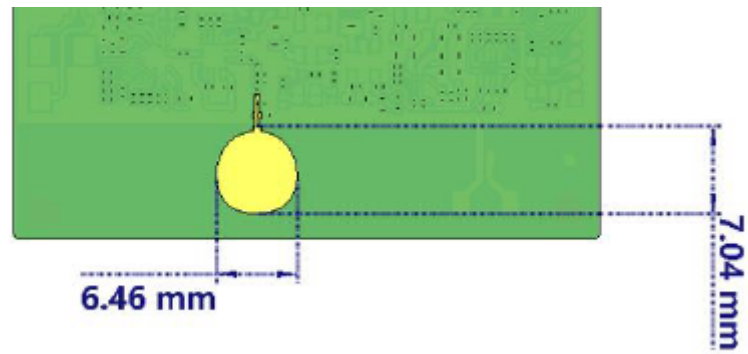
1.4 Block diagram of EUT configuration for test



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.	

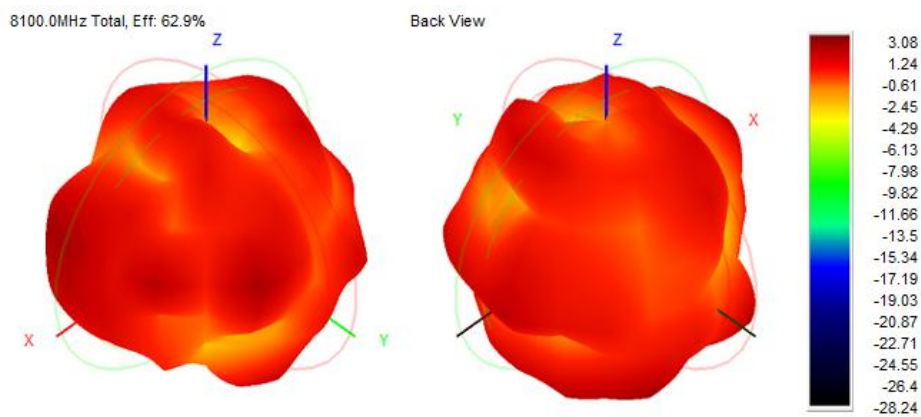
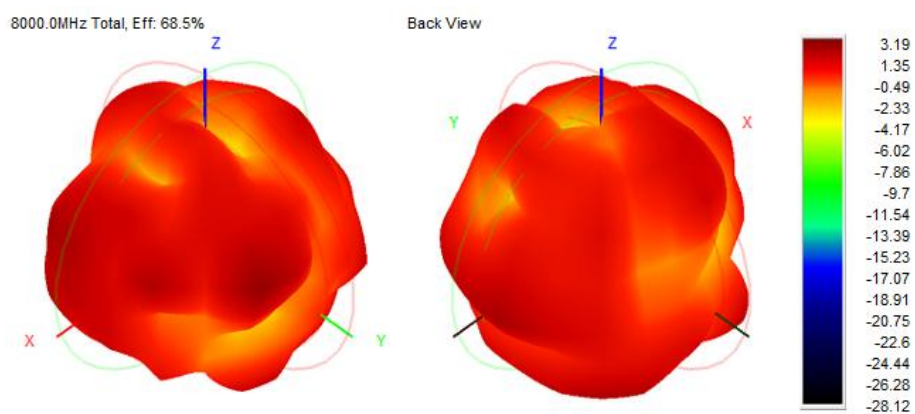
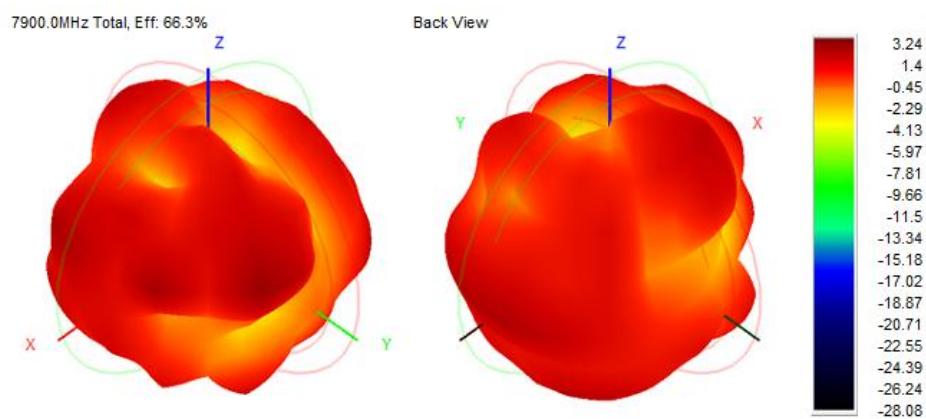
1.6 Antenna Parameter



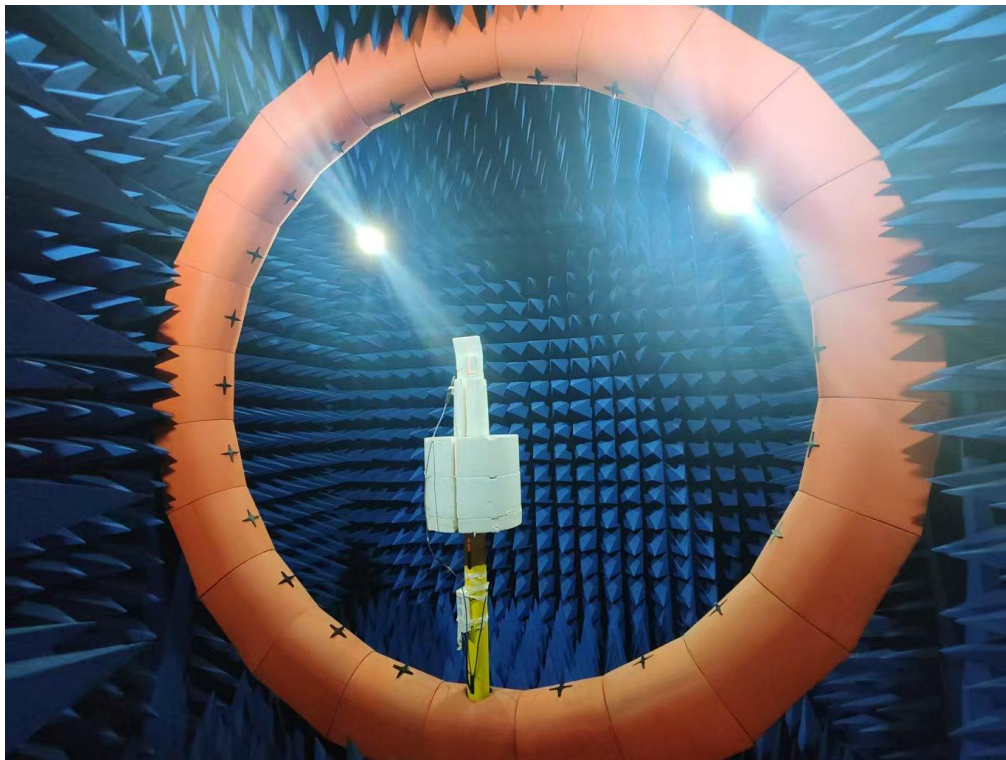
2. Gain measurement

2.1 Result

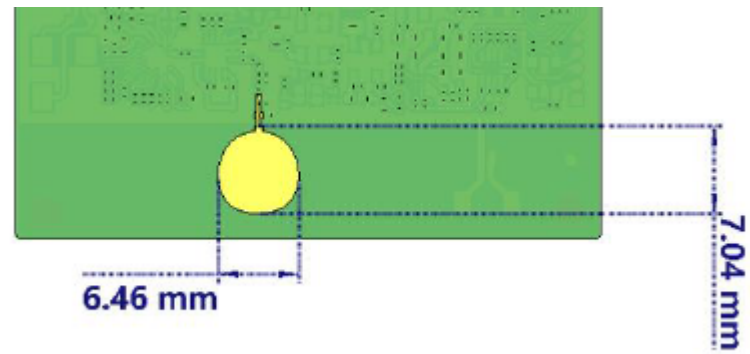
Fre. (MHz)	Eff. (dBi)	Gain (dBi)	Eff. (%)	Directivity (dB)	Peak Gain Position (Theta)	Peak Gain Position (Phi)	Eff. ThetaPol (%)	Eff. PhiPol (%)	Upper Hem. Eff. (%)	Lower Hem. Eff. (%)
7900.0	-1.78	3.24	66.31	5.02	135.00	135.00	42.46	23.84	32.45	33.85
8000.0	-1.65	3.19	68.46	4.84	135.00	135.00	45.12	23.34	32.99	35.47
8100.0	-2.01	3.08	62.94	5.09	120.00	135.00	41.86	21.08	29.76	33.18



Annex A Test Setup Photo



Annex B Antenna Location



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