



Shenzhen Yingfeng antenna technology Co., LTD

T021

Test Report

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product	headset
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Day period	2025-10-24
editor	AndyZ



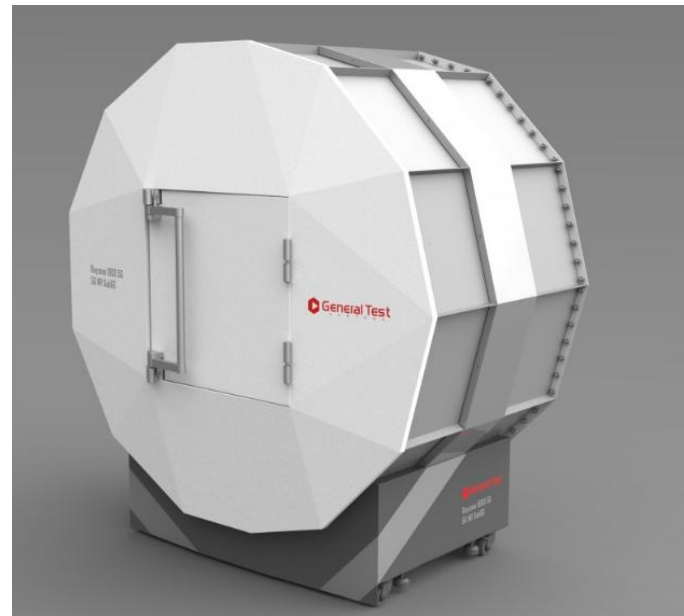
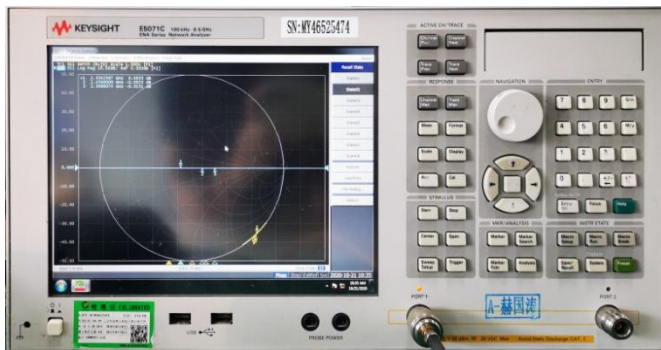
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Test condition

- 1. Measurement of S parameters
- 2. Equipment: Network Analyzer (Agilent E5062A), microwave darkroom, MT8852B
- 3. Items: Impedance, return loss, VSWR, Efficiency, gain, radiation field pattern, Sensitivity, Power, frequency offset active data TRP TIS





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Prototype appearance





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requirement(s) of assembling

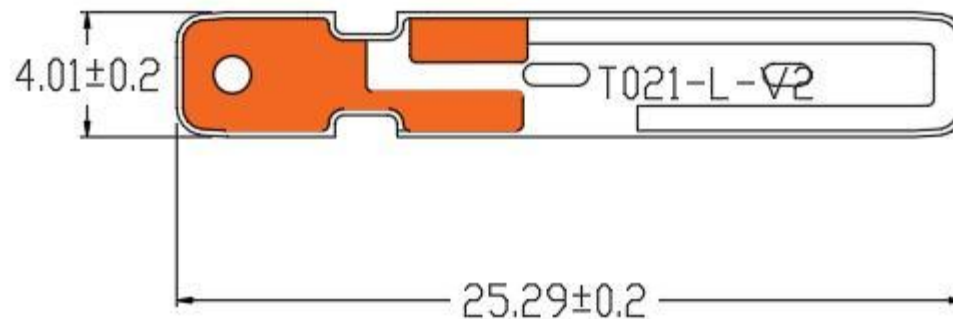
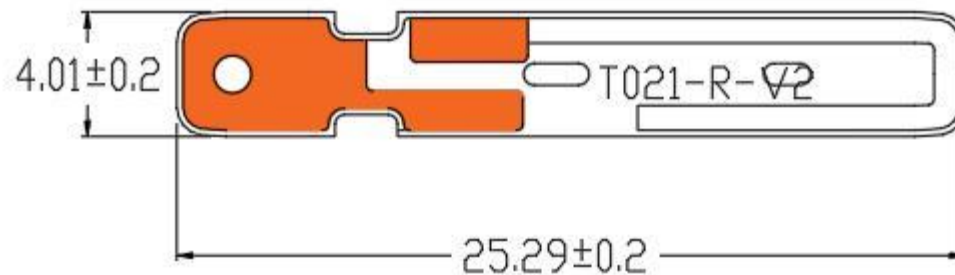


The antenna should be firmly attached to the upper shell.



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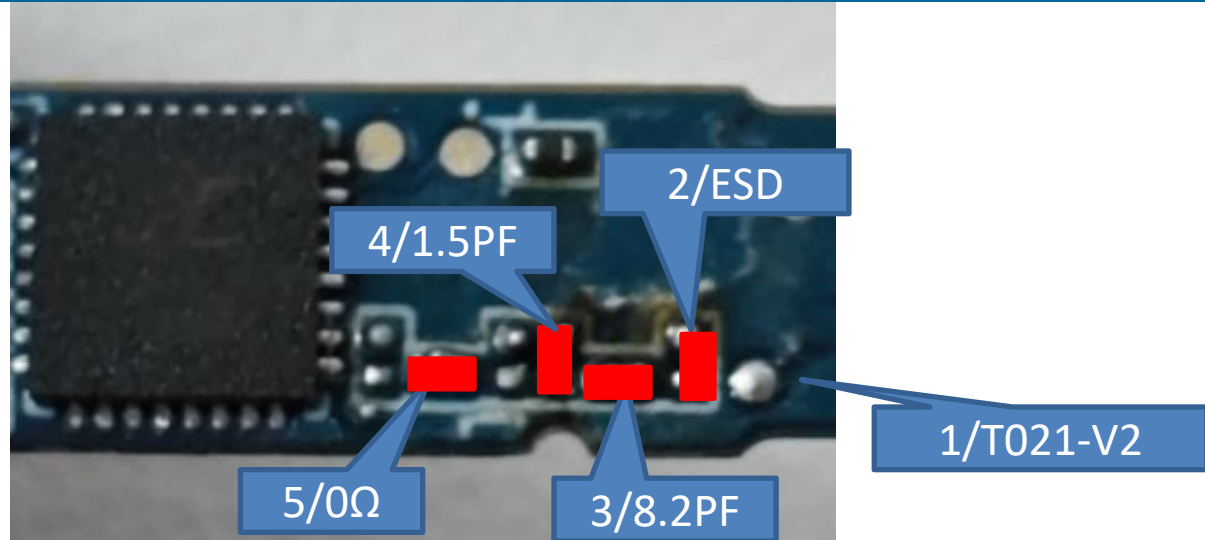
Antenna dimension diagram





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matching parameter L

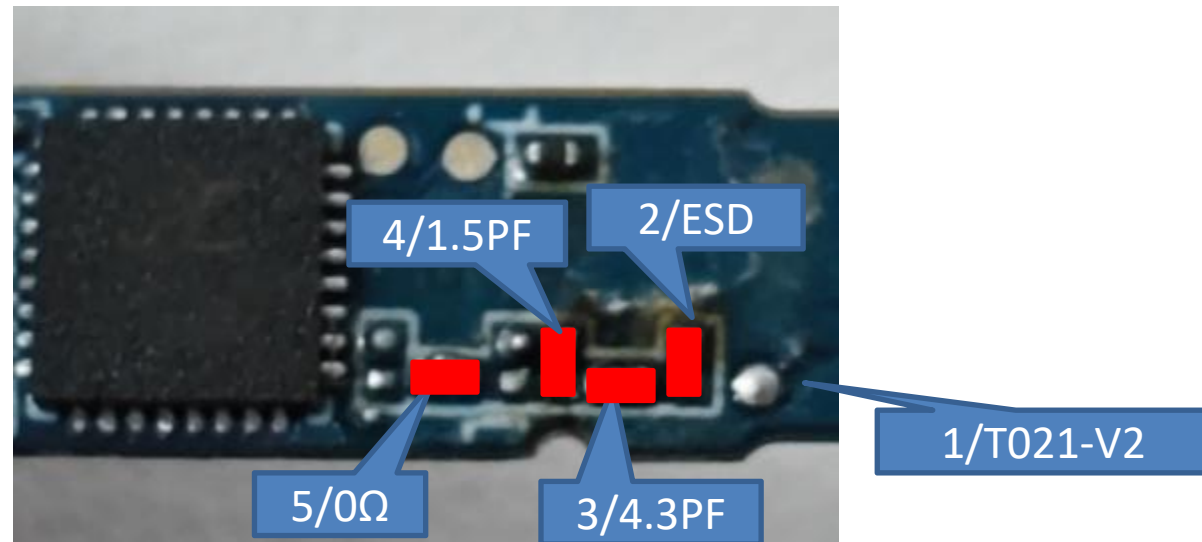


serial number	model	specification	manufacturer	object ID	tolerance	
1	T021-V2	FPC	Yingfeng	S2B4BB1F1B00110		
2	ESD					
3	capacitance	8.2PF/0201	Murata		$\pm 0.1\text{PF}$	
4	capacitance	1.5PF/0201	Murata		$\pm 0.1\text{PF}$	
5	resistance	0Ω/0201				



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matching parameter R



serial number	model	specification	manufacturer	object ID	tolerance	
1	T021-V2	FPC	Yingfeng	S2B4BB1F1B00110		
2	ESD					
3	capacitance	4.3PF/0201	Murata		$\pm 0.1\text{PF}$	
4	capacitance	1.5PF/0201	Murata		$\pm 0.1\text{PF}$	
5	resistance	0Ω/0201				



Network division debugging antenna S-parameters

R



L





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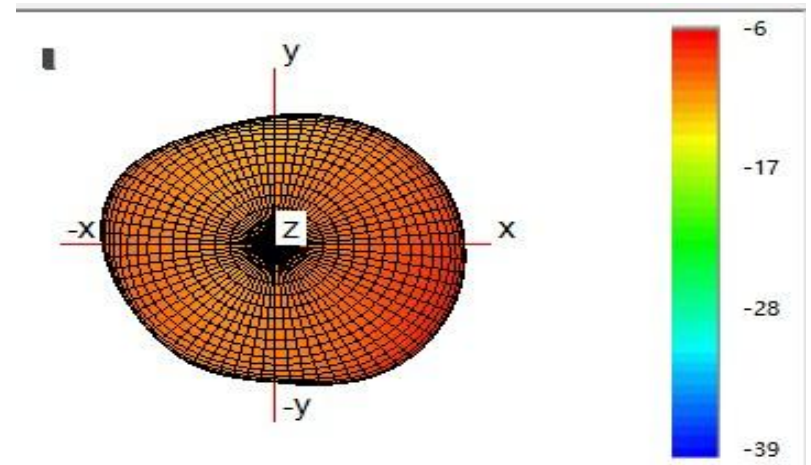
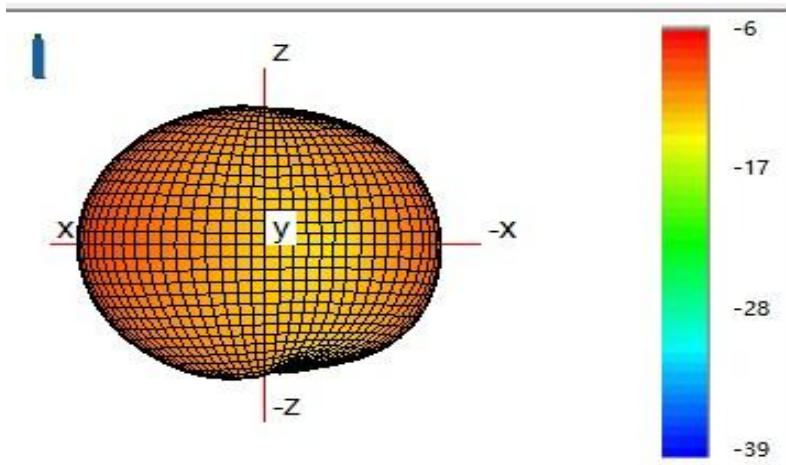
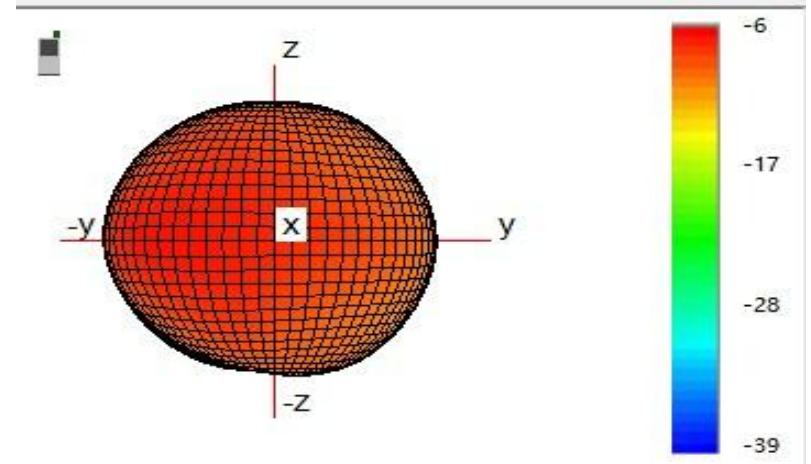
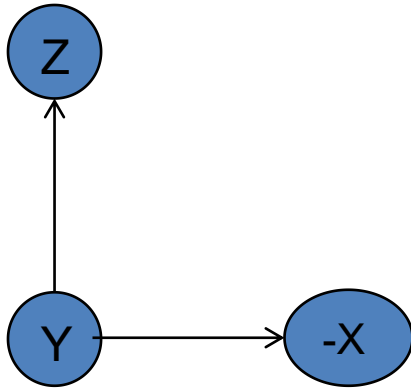
Free field passive efficiency of the whole machine

L.	Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
	2400	-6.552524674	-9.878357744	10.28405109
	2410	-5.667471877	-8.935870813	12.77652999
	2420	-4.974141654	-8.118762608	15.42139777
	2430	-4.48437441	-7.449555854	17.99054892
	2440	-4.153763504	-6.883455366	20.49530867
	2450	-4.200102505	-6.977462386	20.05643597
	2460	-4.744452815	-7.603834375	17.36267206
	2470	-5.395325571	-8.31783098	14.73048011
	2480	-6.065149666	-9.126672374	12.22736179
	2490	-7.026569728	-10.1334523	9.697387957
	2500	-7.850073871	-10.93226324	8.068144655



Complete free field passive field type

L.





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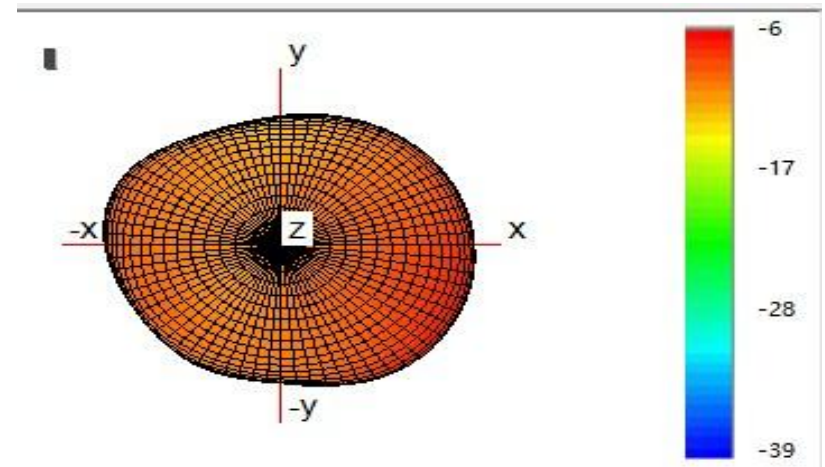
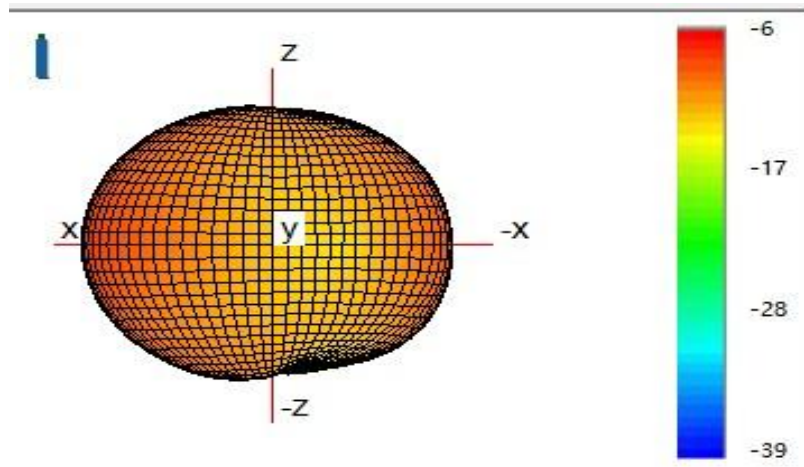
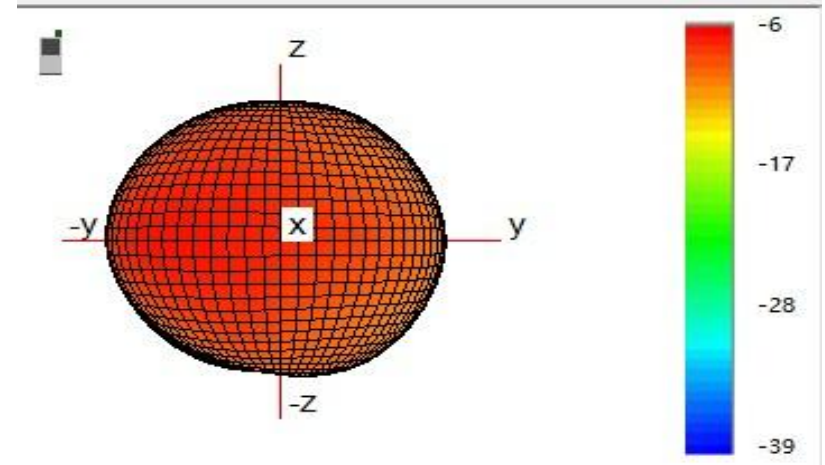
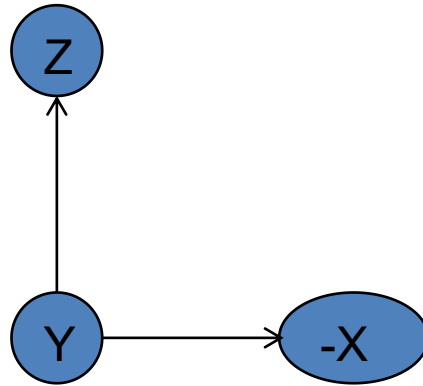
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	2490	-7.026569728	-10.1334523	9.697387957
	2500	-7.850073871	-10.93226324	8.068144655



Complete free field passive field type

R.





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Complete machine free field OTA data

one	Channel	TRP (dBm)	TIS (dBm)
L	CH0	1.70335065	-85.51157464
	CH39	3.600570628	-89.11135025
	CH78	1.540678591	-89.20561141

one	Channel	TRP (dBm)	TIS (dBm)
R	CH0	1.434918059	-85.12696793
	CH39	4.354468564	-88.26745468
	CH78	2.84469213	-88.90305513



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Complete machine free field OTA data

TWO	Channel	TRP (dBm)	TIS (dBm)
L	CH0	1.146331032	-85.85590702
	CH39	3.961372183	-89.6470333
	CH78	1.408756876	-90.15594738

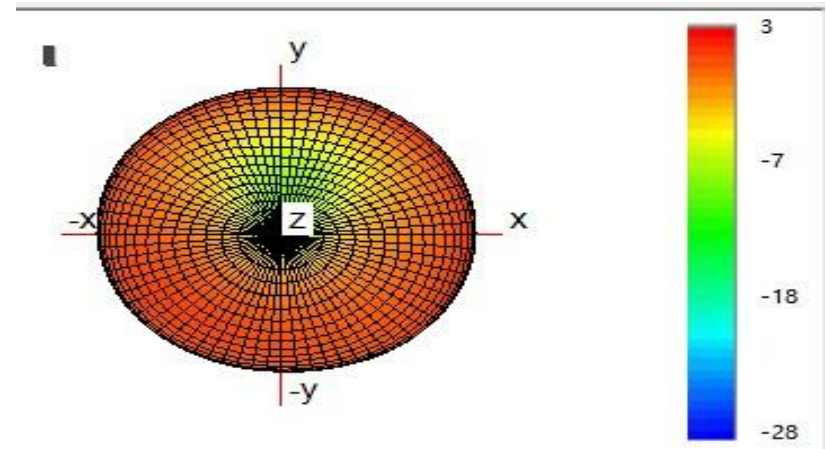
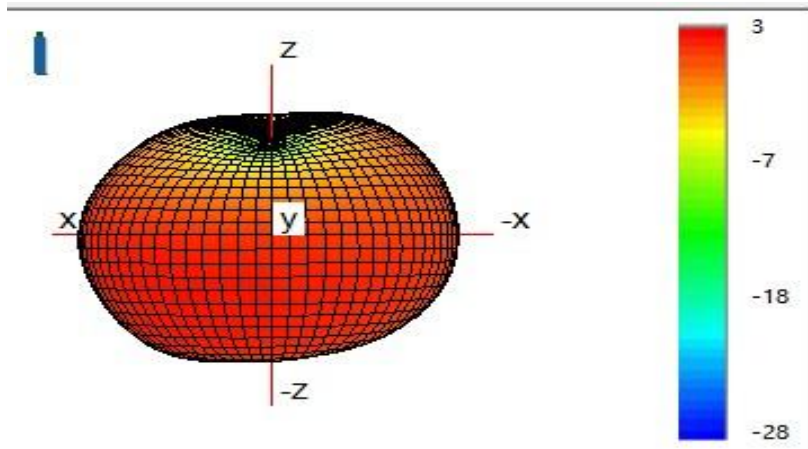
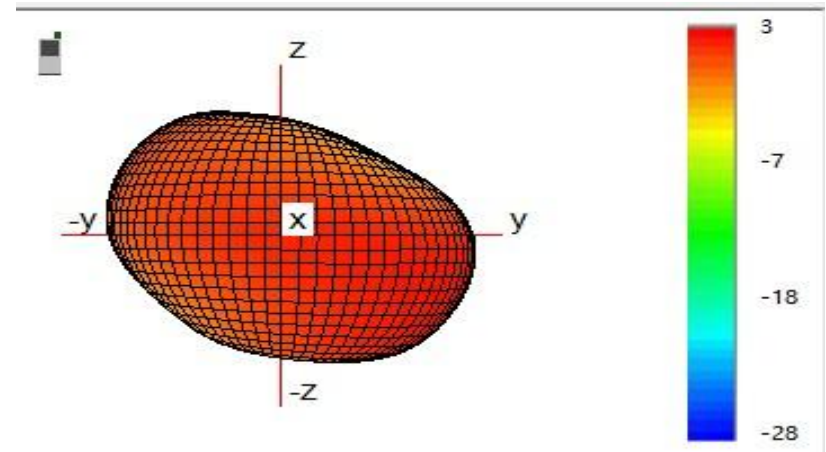
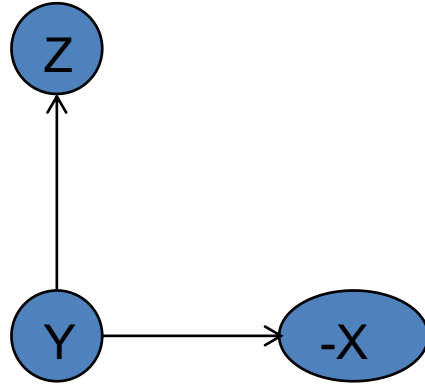
TWO	Channel	TRP (dBm)	TIS (dBm)
R	CH0	1.387613291	-86.5691858
	CH39	4.344572543	-89.79759816
	CH78	2.386329521	-90.20166552



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Complete free field OTA field type

L

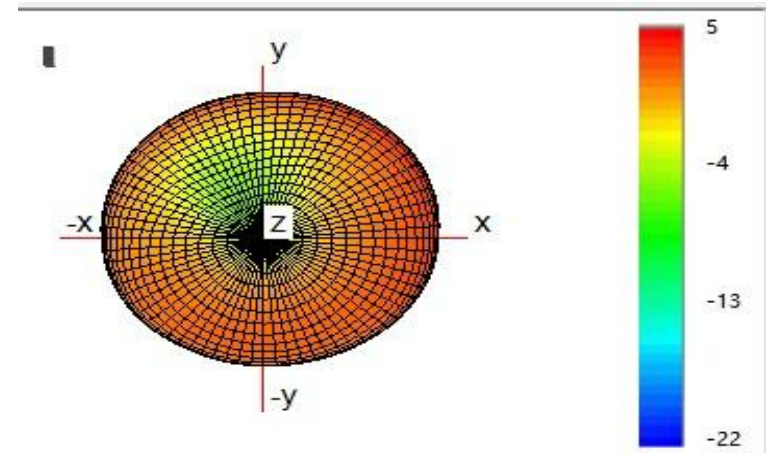
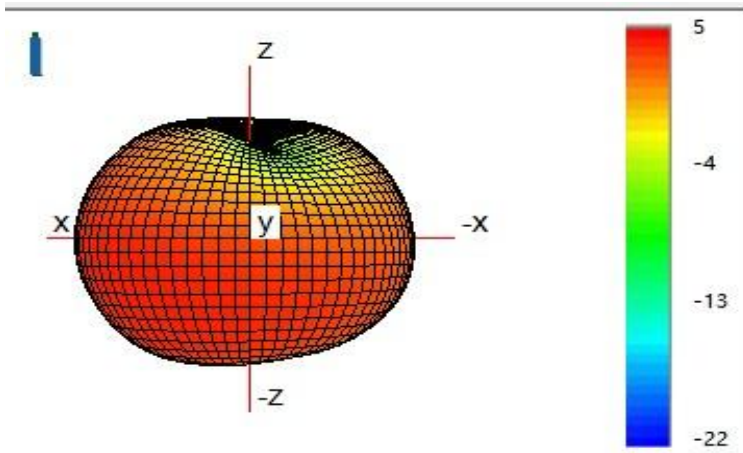
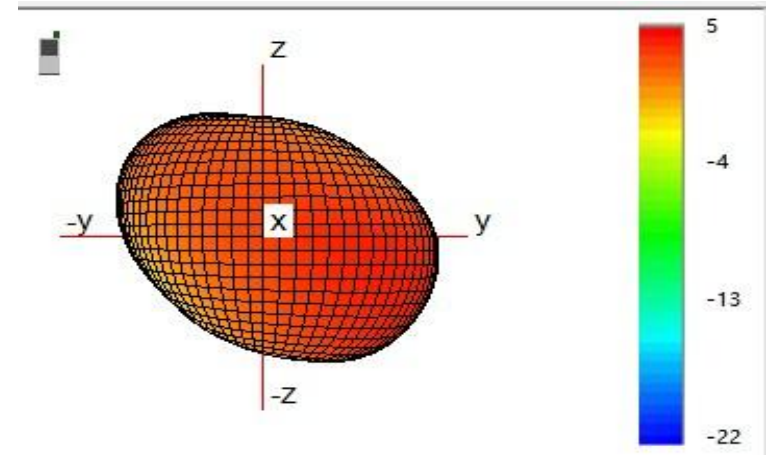
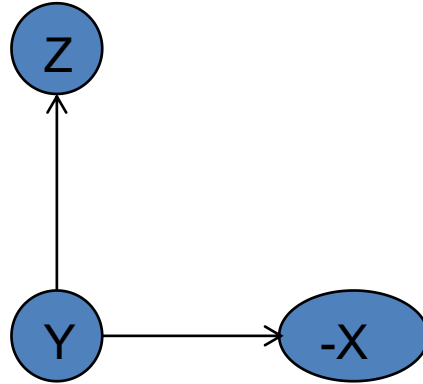




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Complete free field OTA field type

R





Shenzhen Yingfeng antenna technology Co., LTD

Antenna manufacturer information

• company name	Shenzhen Yingfeng antenna technology Co, LTD
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• linkman, contacts	Simon
• phone number of the contact	18118726256



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Thanks for Your Attention