

# SPECIFICATION

## SHEET FOR APPROVAL

(Revision: R: A0)

CUSTOMER	Hesung Innovation Limited
CS P/N	
TEST MODEL	HHM006S Humidifier
PART NAME	WIFI antenna components
FREQUENCY	2400~2500MHz
ZTX NO.	2.00001319
DATE	2024-07-03

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark:

Sign:

Shenzhen ZTX Communication Technology Co., Ltd				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		Le.Qin	Bohou.Jiang	



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# ANTENNA SPECIFICATION

CUS P/N:HHM006S Humidifier\_WIFI antenna components Application Date:Jul,03,2024

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## Revision history

Edition	Date	state
A0	2024-07-03	First edition

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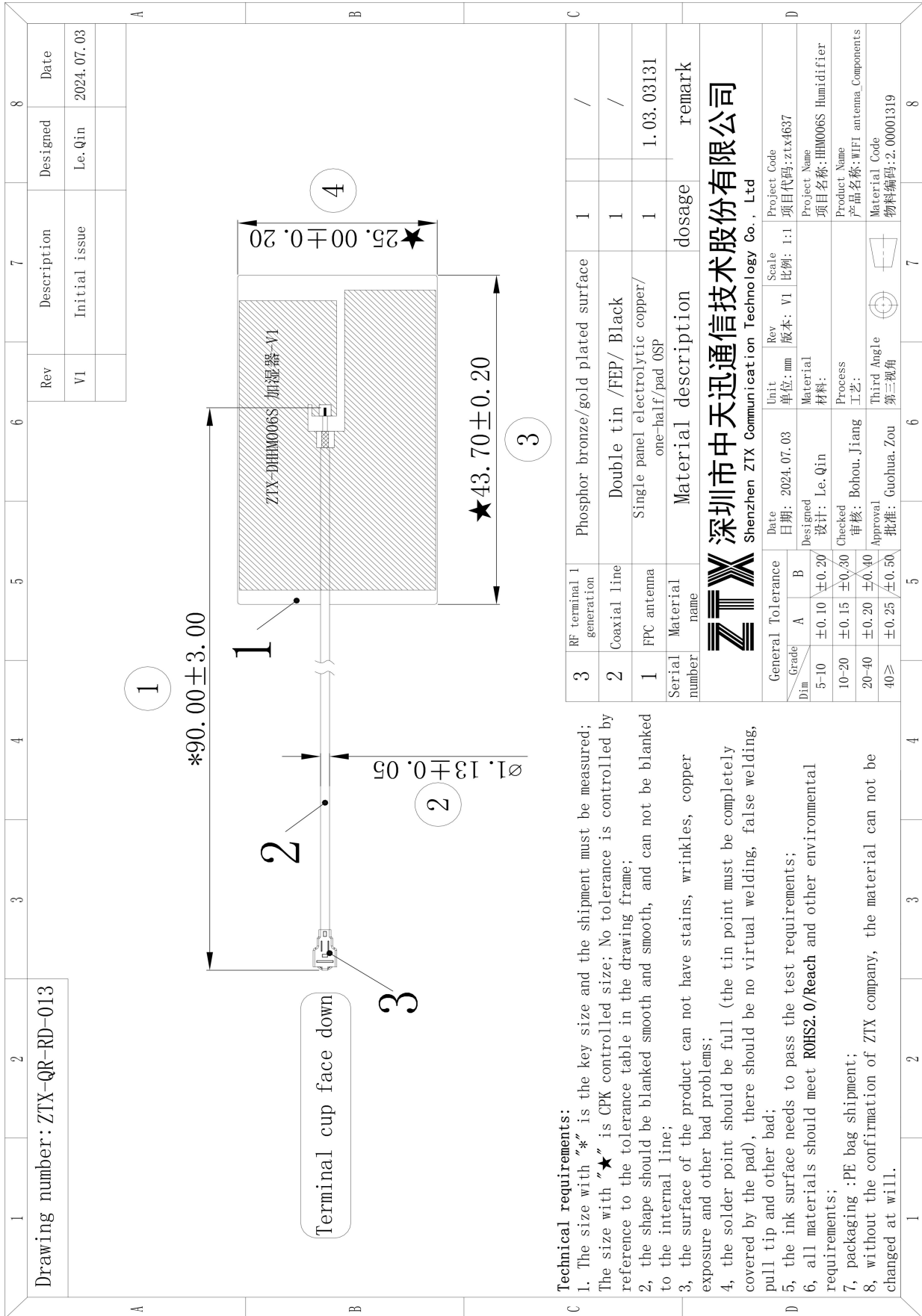
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## 1. Mechanical Specification

### 1-1 Mechanical Configuration (WIFI antenna components)



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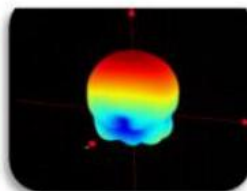
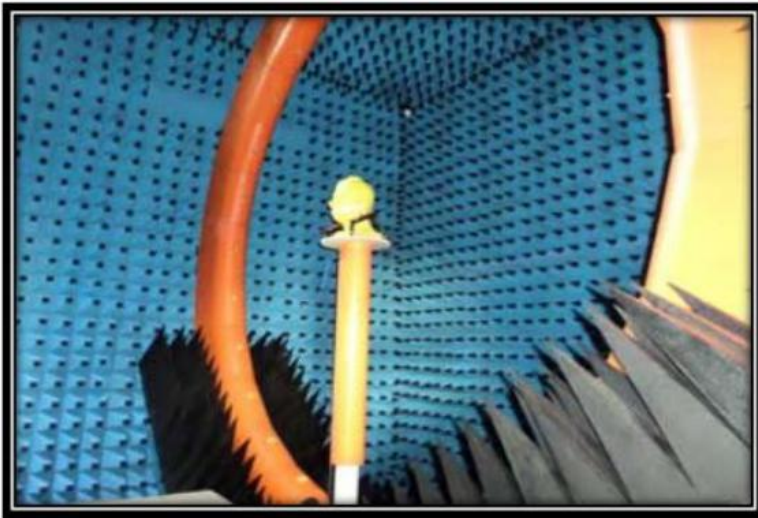
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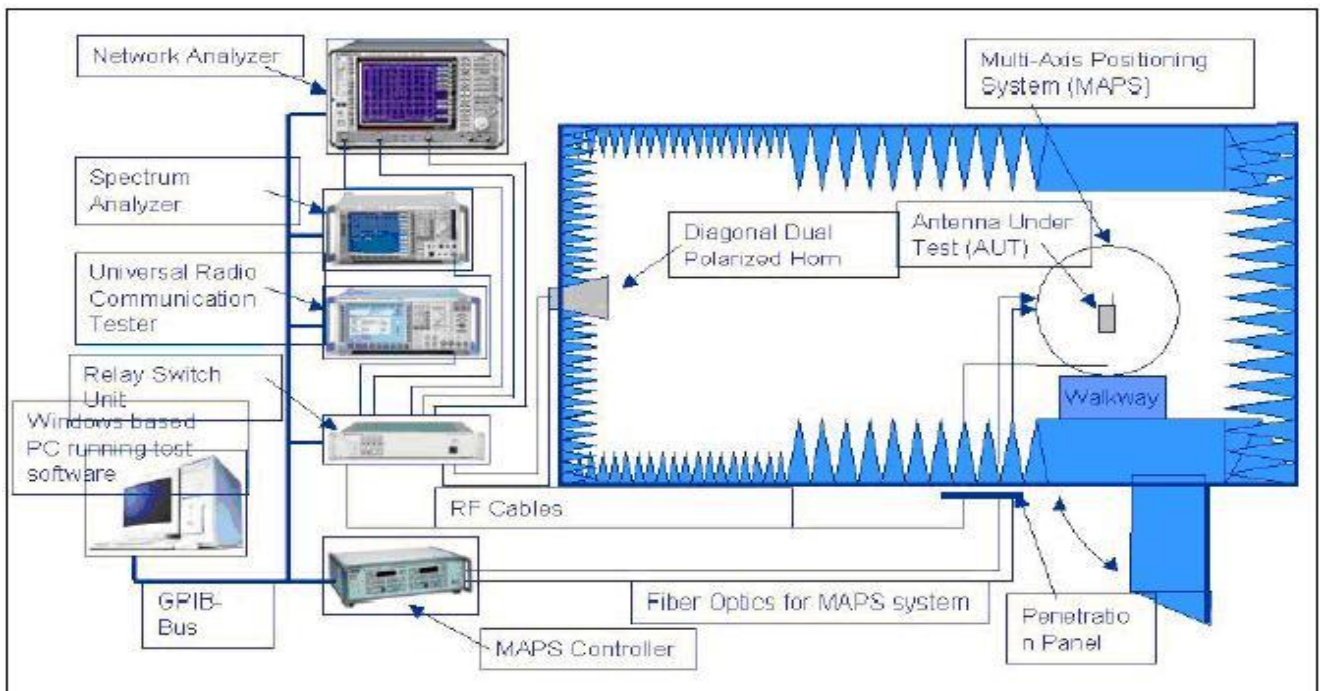
## 2. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

Testing range:

Support active, passive testing of GSM/CDMA/WCDMA/TD-SCDMA/LTE/WIFI/WLAN/WiMax/BT/GPS/MIMO/UWB within 0.4-6G.



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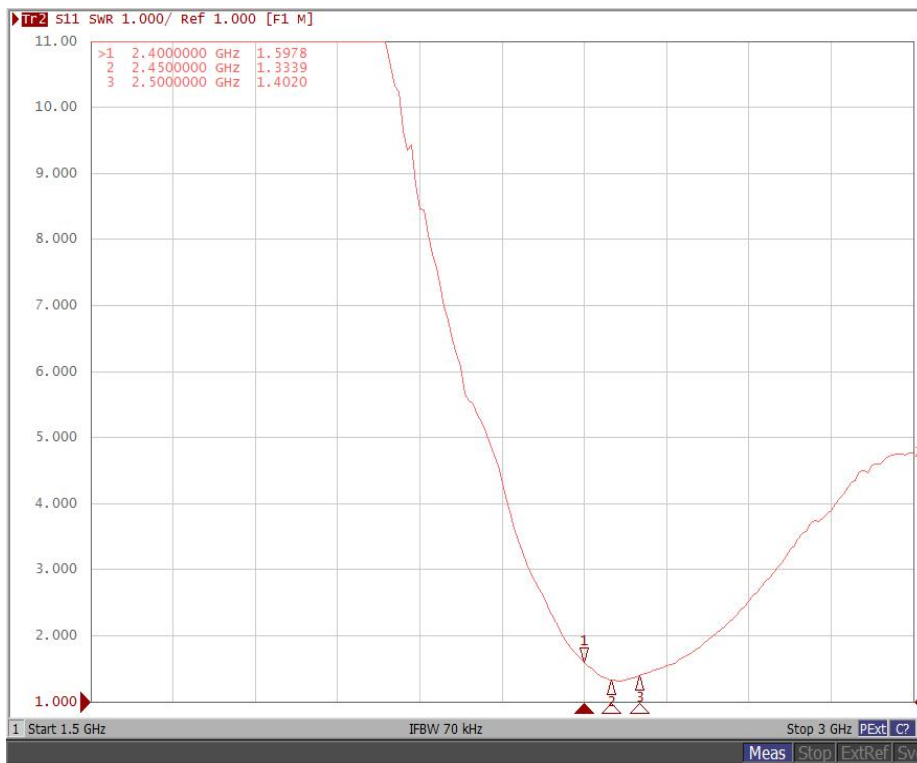
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## 3.Test Results Summary

### 3-1 Active Test

50% of the water is turned on a gear humidification function				90% of the water is turned on a gear humidification function			
Mode	Channels	TRP	TIS	Mode	Channels	TRP	TIS
B (11M/11M)	1	14.07	-84.42	B (11M/11M)	1	14.11	-83.22
	6	14.23	-83.61		6	14.27	-83.18
	11	14.36	-83.47		11	14.36	-82.96
G (6M/54M)	1	11.31	-70.74	G (6M/54M)	1	12.22	-68.78
	6	11.07	-69.63		6	11.66	-69.37
	11	11.1	-68.96		11	12.21	-68.57
N (MCS0/MCS7)	1	11.27	-65.52	N (MCS0/MCS7)	1	12.14	-64.97
	6	11.05	-64.38		6	11.73	-64.81
	11	11.13	-63.92		11	11.93	-64.06

### 3-2 VSWR



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## 3-3 No-source test data

Frequency	Efficiency	Gain . dB
2400MHz	61%	-2.10
2410MHz	61%	-2.04
2420MHz	63%	-1.86
2430MHz	65%	-1.71
2440MHz	66%	-1.69
2450MHz	65%	-1.73
2460MHz	64%	-1.79
2470MHz	65%	-1.71
2480MHz	66%	-1.67
2490MHz	66%	-1.62
2500MHz	66%	-1.61

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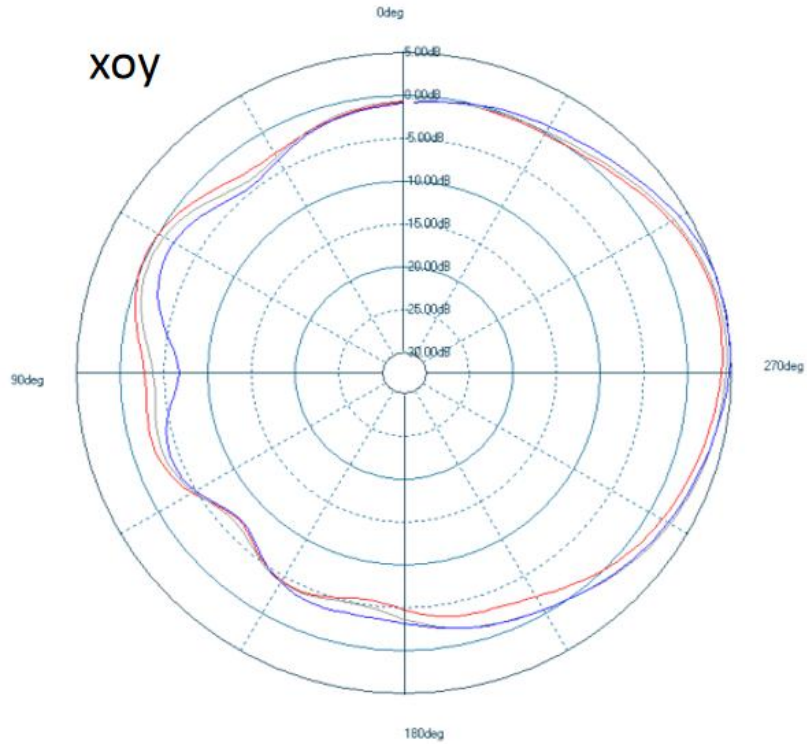
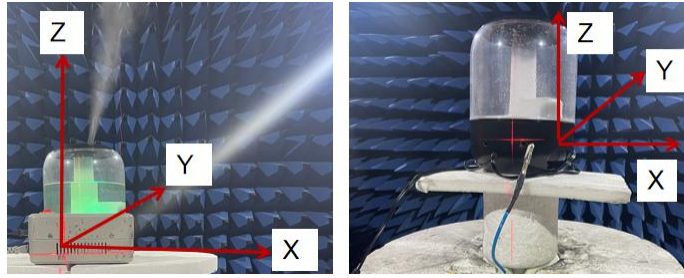
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## 3-4 2D/3D Radiation Pattern Results





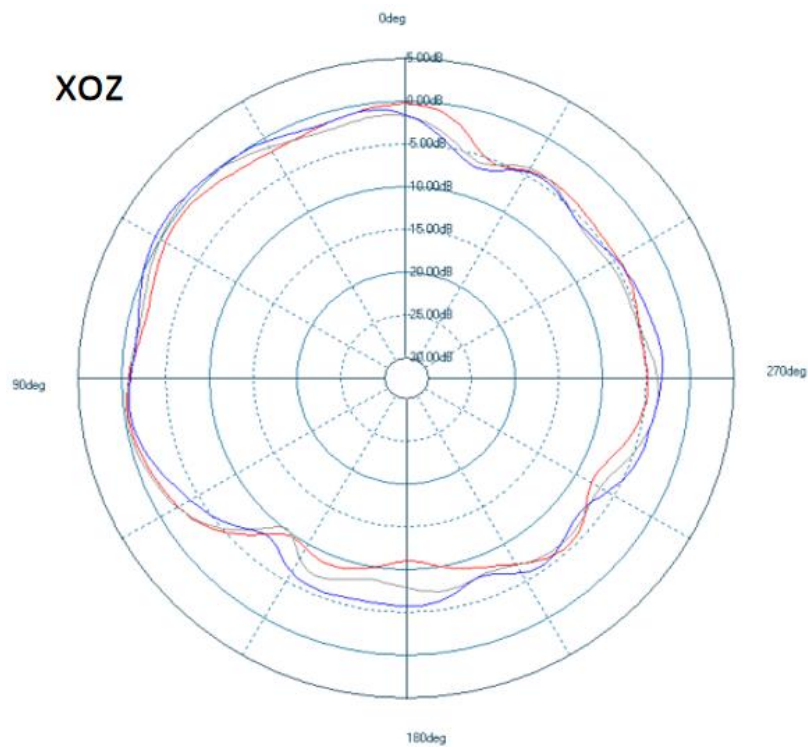
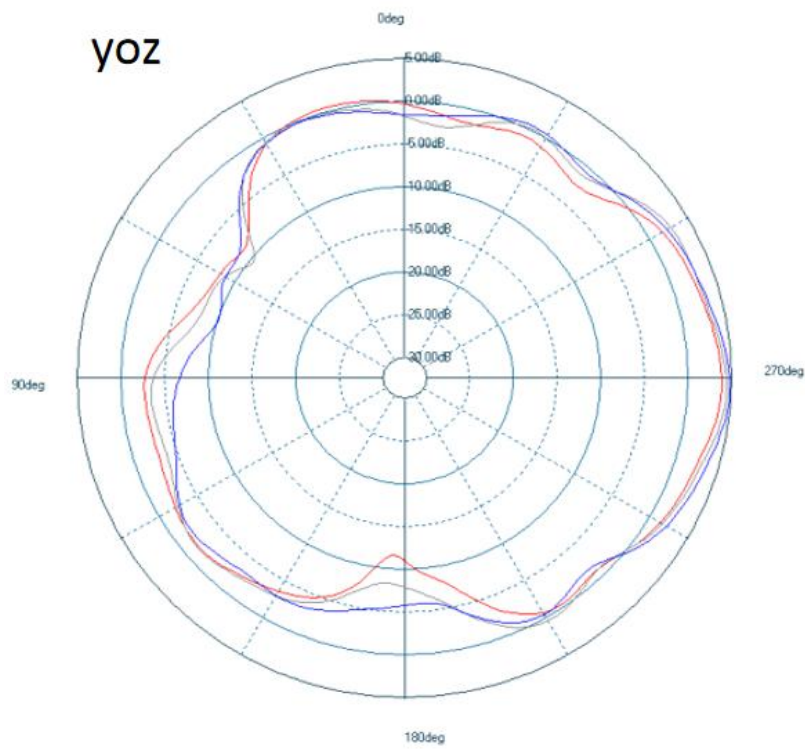
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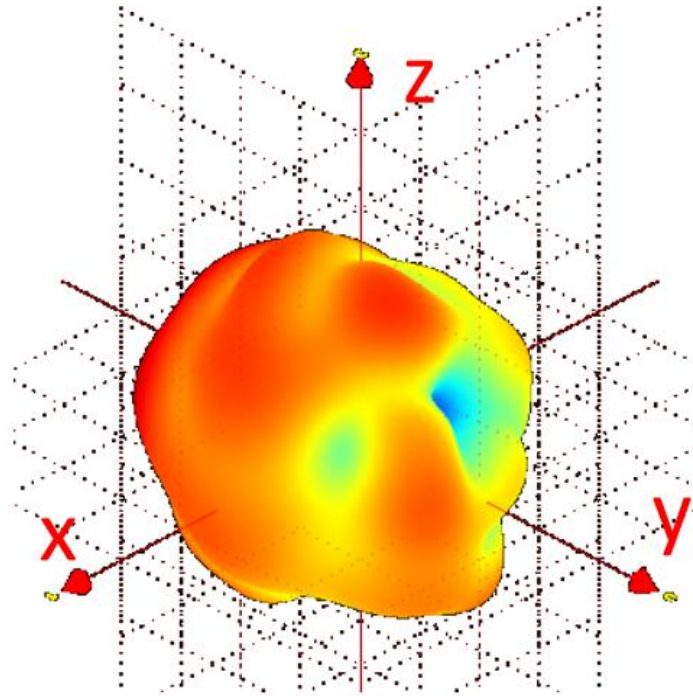
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## 3-5 Environmental treatment

2400-2500MHz  
antenna position

