

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	Hesung Innovation Limited	
	CS P/N		
	TEST MODEL	HHM005S Humidifier	
	PART NAME	WIFI antenna components	
	FREQUENCY	2400~2500MHz	
	ZTX NO.	2.00001201	
	DATE	2024-07-04	

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:HHM005S Humidifier_WIFI antenna components Application Date:Jul,04,2024

Rev: R:A0

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Revision history

Edition	Date	state
A0	2024-07-04	First edition

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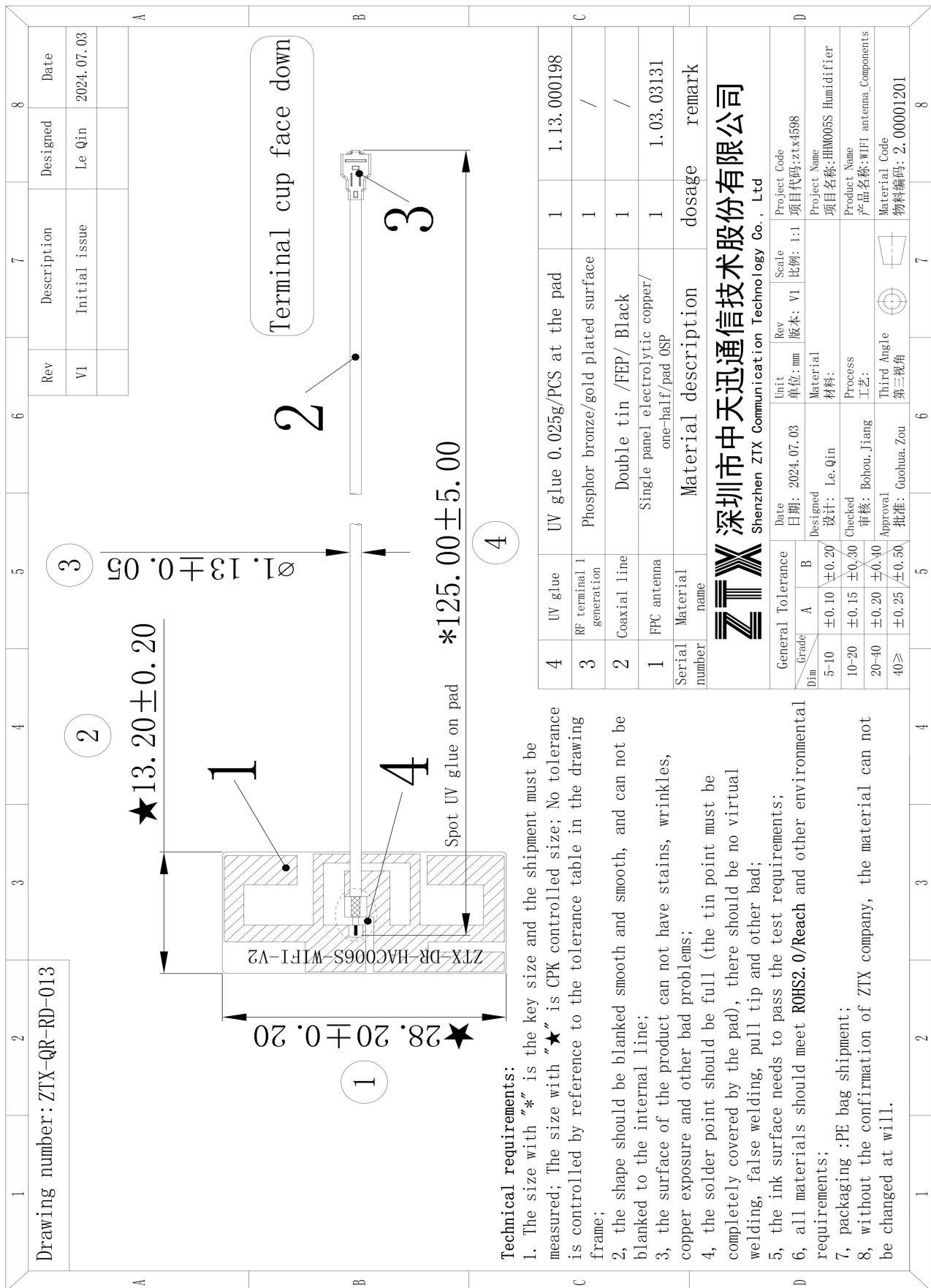
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1. Mechanical Specification

1-1 Mechanical Configuration (WIFI antenna components)



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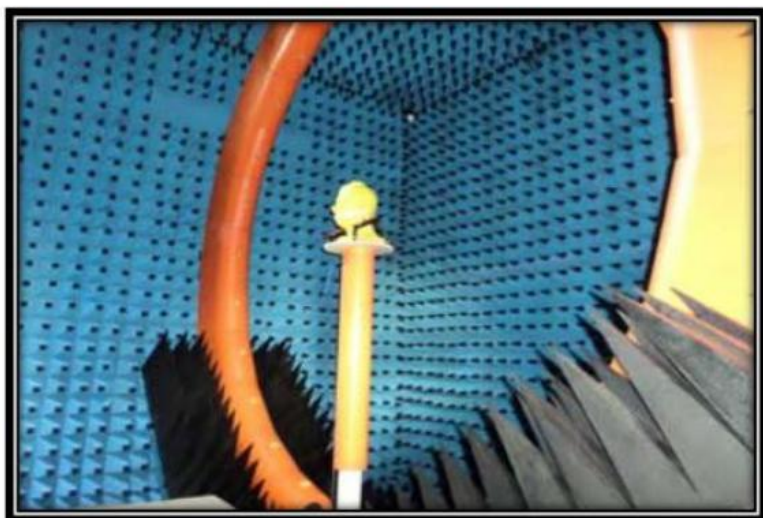
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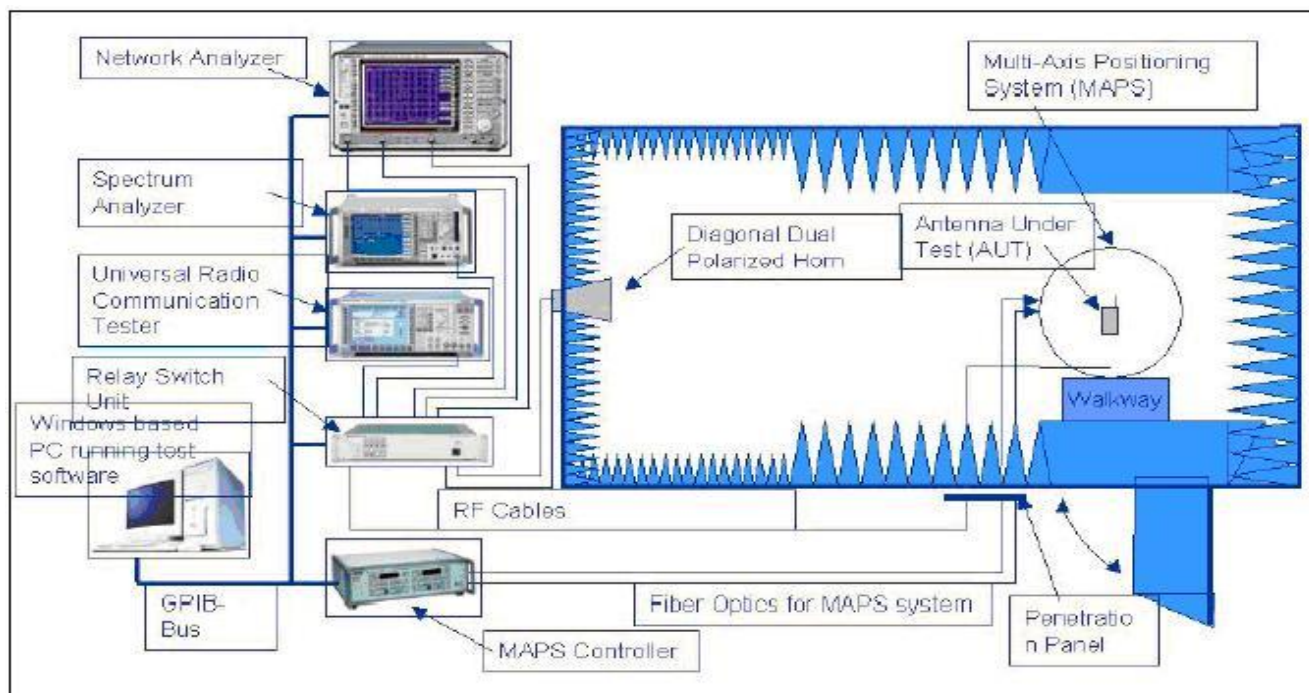
2. Test equipment



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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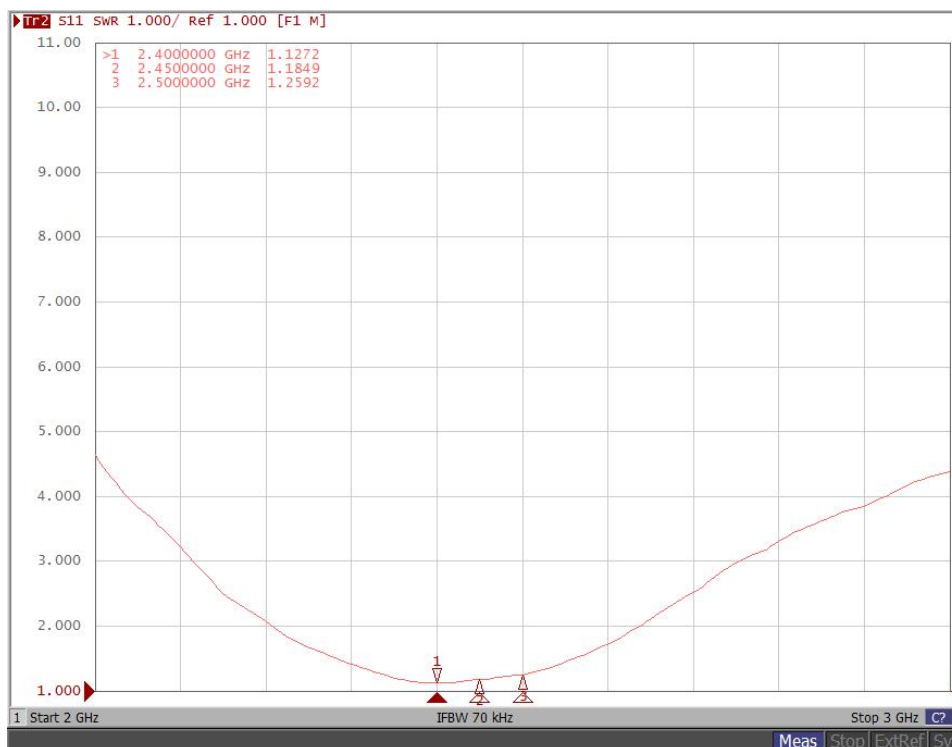
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3.Test Results Summary

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	15.07	-83.65	B (11M/11M)	1	14.87	-83.08
	6	14.31	-83.47		6	14.1	-83.06
	11	15.23	-82.54		11	14.96	-82.22
G (6M/54M)	1	13.43	-69.43	G (6M/54M)	1	13.3	-69.63
	6	11.72	-69.23		6	12.23	-69.43
	11	12.76	-67.9		11	12.99	-68.51
N (MCS0/MCS7)	1	13.26	-64.56	N (MCS0/MCS7)	1	13.51	-64.9
	6	12.01	-64.48		6	12.26	-64.84
	11	13.02	-63.75		11	13.28	-64.05

3-2 VSWR



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3-3 No-source test data

Frequency	Efficiency	Gain . dB
2400MHz	56%	4.26
2410MHz	54%	4.21
2420MHz	54%	4.41
2430MHz	54%	4.67
2440MHz	52%	4.76
2450MHz	51%	4.71
2460MHz	51%	4.62
2470MHz	52%	4.73
2480MHz	52%	4.77
2490MHz	52%	4.84
2500MHz	52%	4.83

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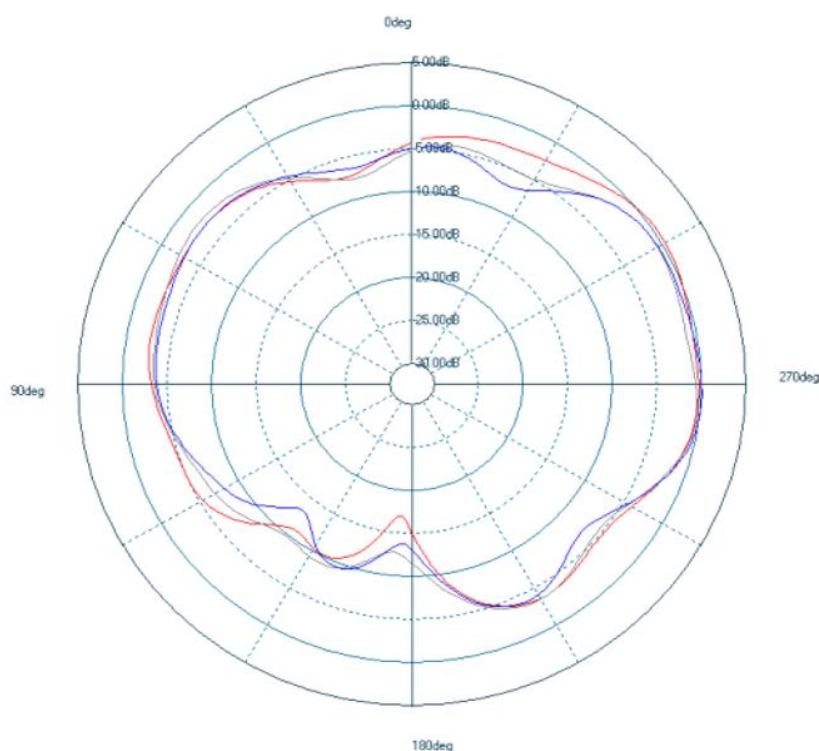
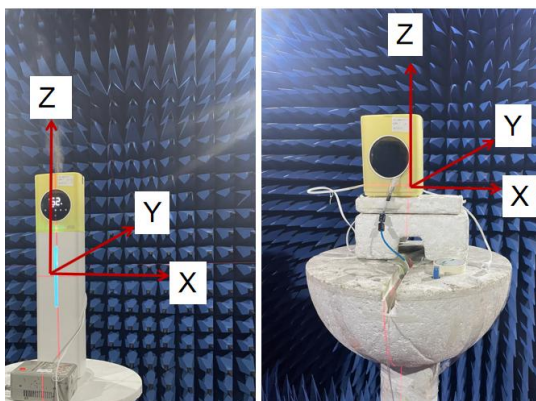
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3-4 2D/3D Radiation Pattern Results



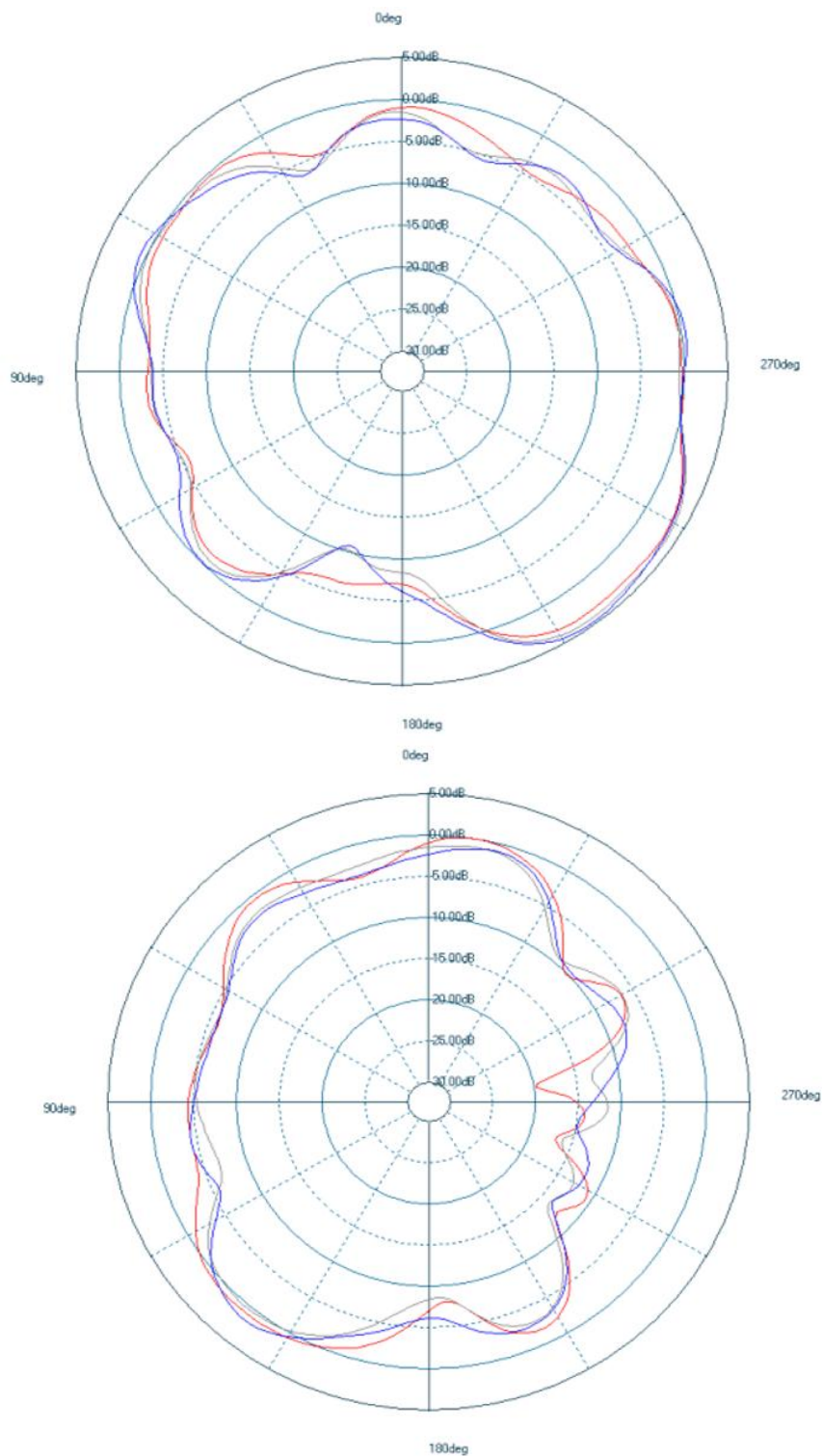
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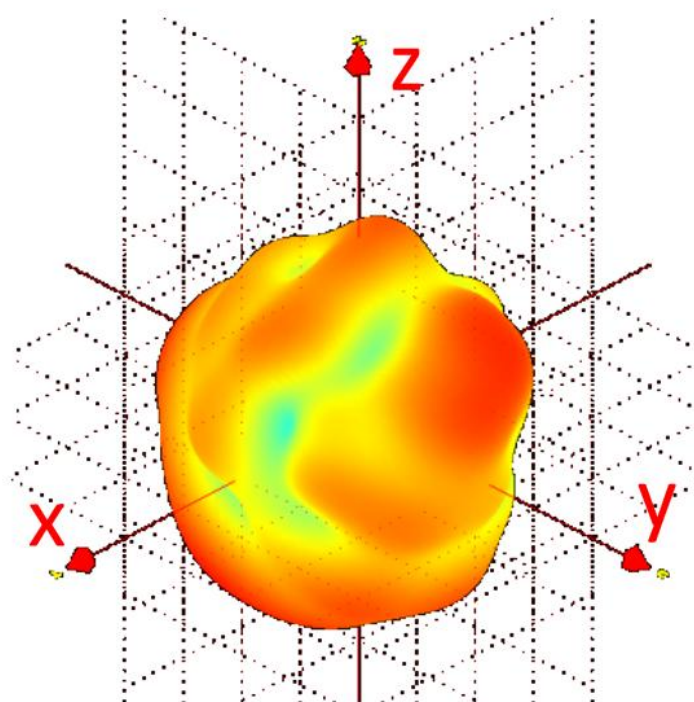
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3-5 Environmental treatment

