

Sample acknowledgement

TZKW material code: 01.52301541

TZKW material name: T30 2.4G White flat antenna

TZKW material specification: 2.4g antenna, 183.7mm white flat shell,
Cable ipl, rf1.13, black, 10 75mm

Name of supplier company: Shenzhen zhongke wireless technology Co.Ltd

Supplier material specification: 2.4G antenna

Suppliers countersign	Making	Aduit	Approval		
	饶功泽	黄勇军	蒋振华		
TZKW countersign	Purchasing department	Research and Development departm	Marketing department	Engineering department	Quality department
Approval					

Customer Name: Tozed Kangwei Tech Co., Ltd

Project Name: T30 2.4g white flat antenna

Product Spec: 2.4g antenna, 183.7mm white flat shell,
Cable ip1, rf1.13, black, 10 75mm

Customer P/N: ZK-T30-2.4G-1.13-IPEX1-L75

REV: V1.0

Date: 2024.1.29

drawing	check	
饶功泽	黄勇军	蒋振华

Customer Approve

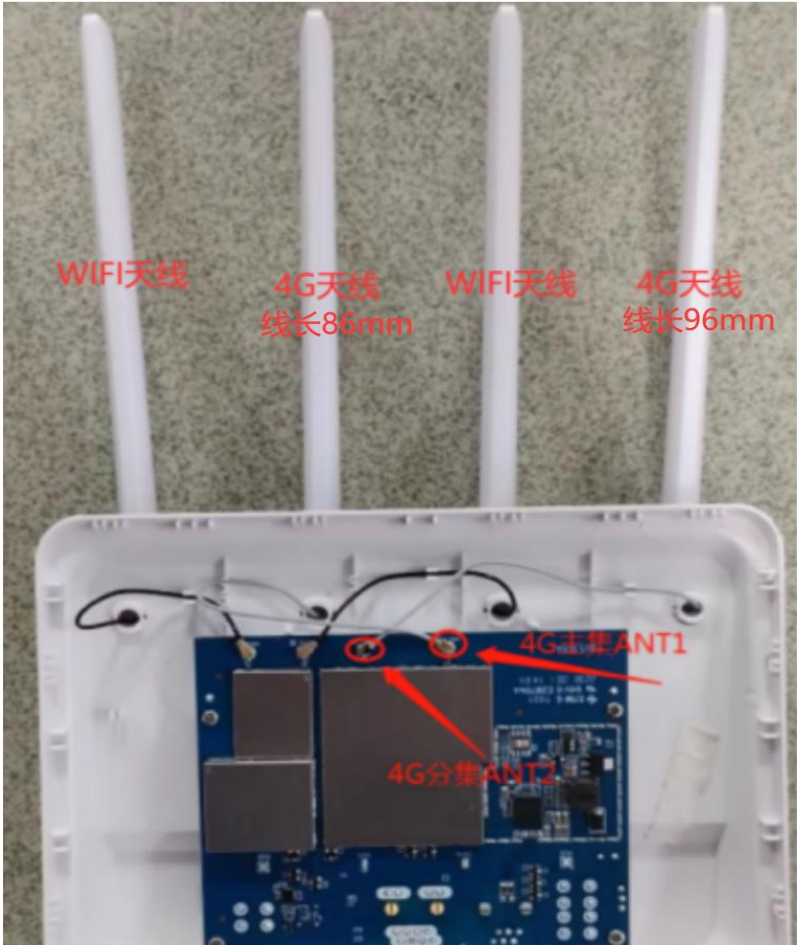
check	approved	approval

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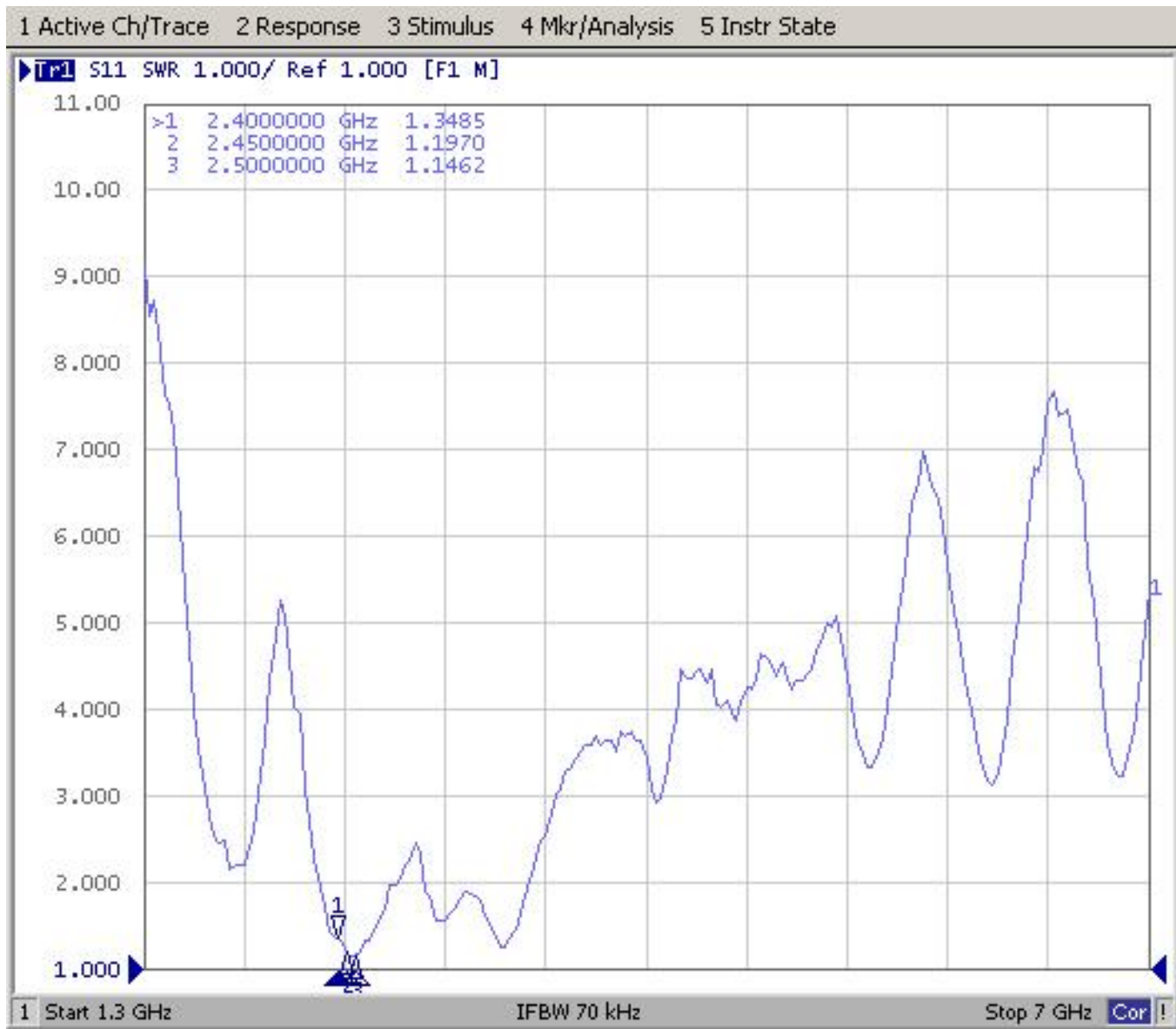
Electrical Specifications

Electrical Specifications	
frequency range	2400-2500MHZ
VSWR	≤2.0
GAIN	≤5.5DBI
Radiation	OMNI
Polarizatin	LINEAR

Input Impedance		50 Ω
Mechanical Specifications		
Input connector		IPEX-1
Antenna materia		PCB
Working Temperature		-30℃~+80℃
Working Humidity		40~85%
Physical installation		

Test report

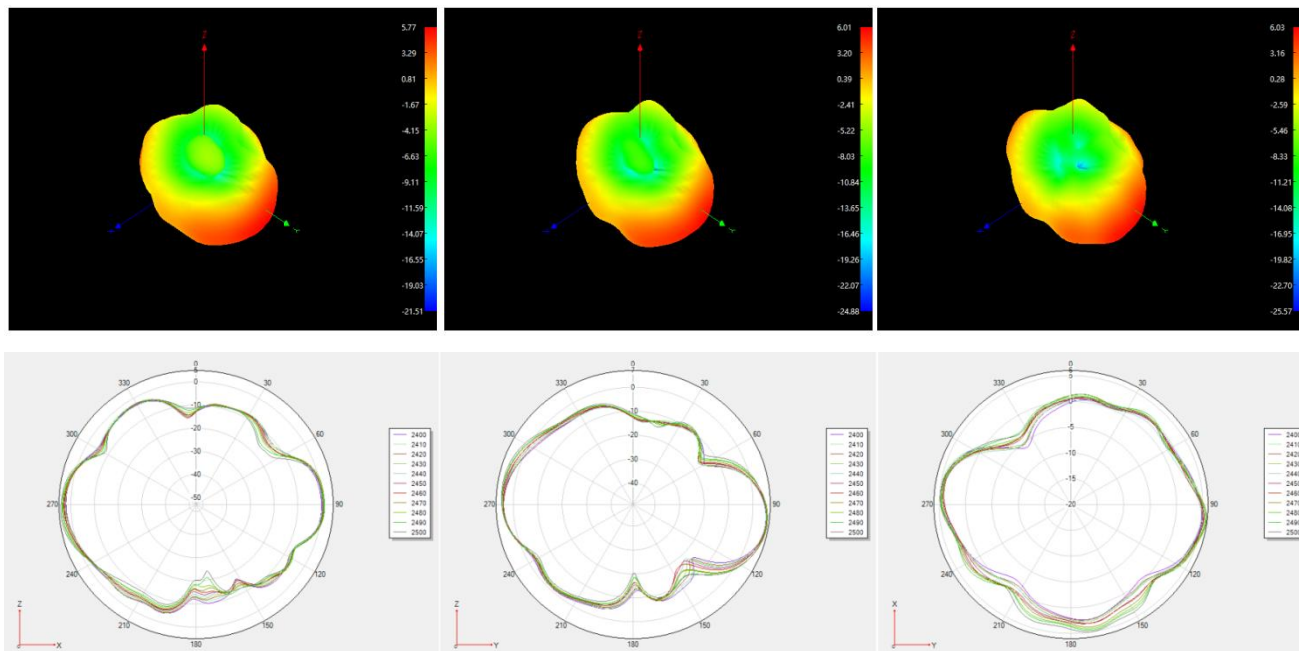
1. Antenna efficiency



2. antenna efficiency

Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	69.82	4.77
2410	71.29	4.11
2420	73.79	4.87
2430	73.62	4.13
2440	76.91	5.61
2450	73.89	5.01
2460	70.35	5.07
2470	75.72	5.6
2480	74.25	5.33
2490	76.89	5.39
2500	74.07	5.03

3. antenna radiation



Testing Equipment and Principle

1. Test device:

Network Analyzers :

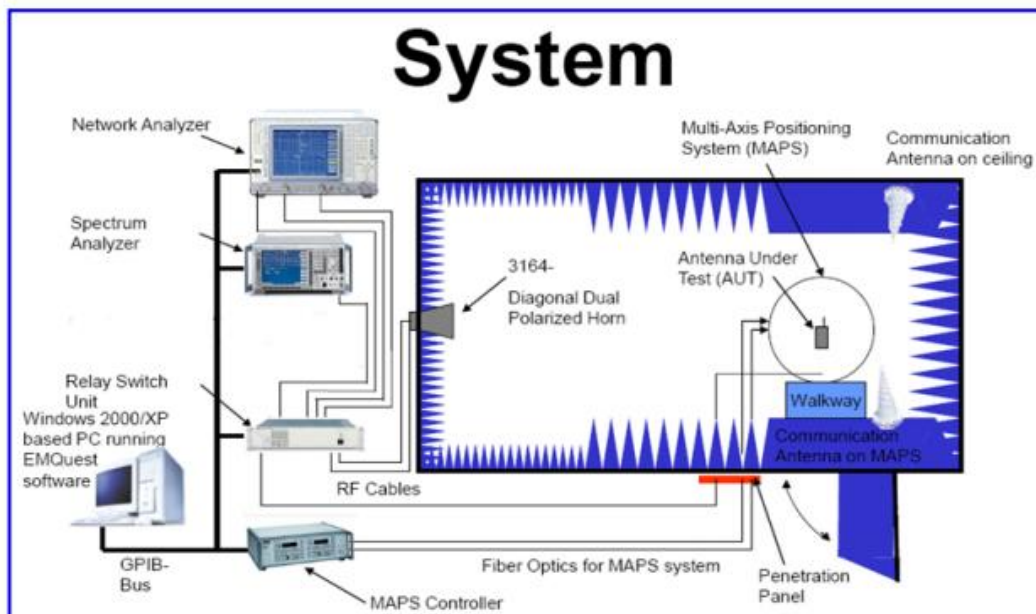
Agilent 8753D 5071B

Communications Test Set:

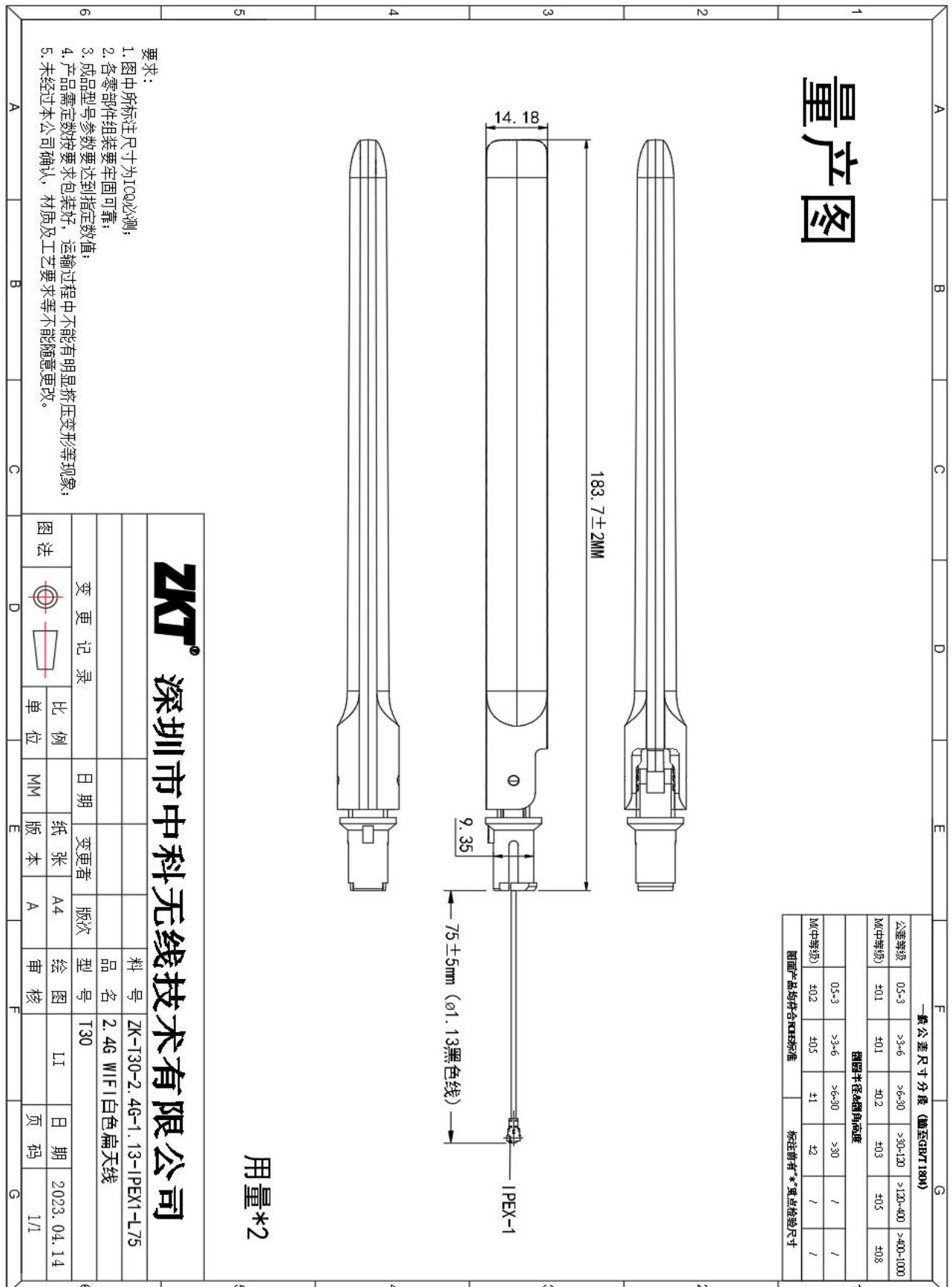
Agilent E5515C

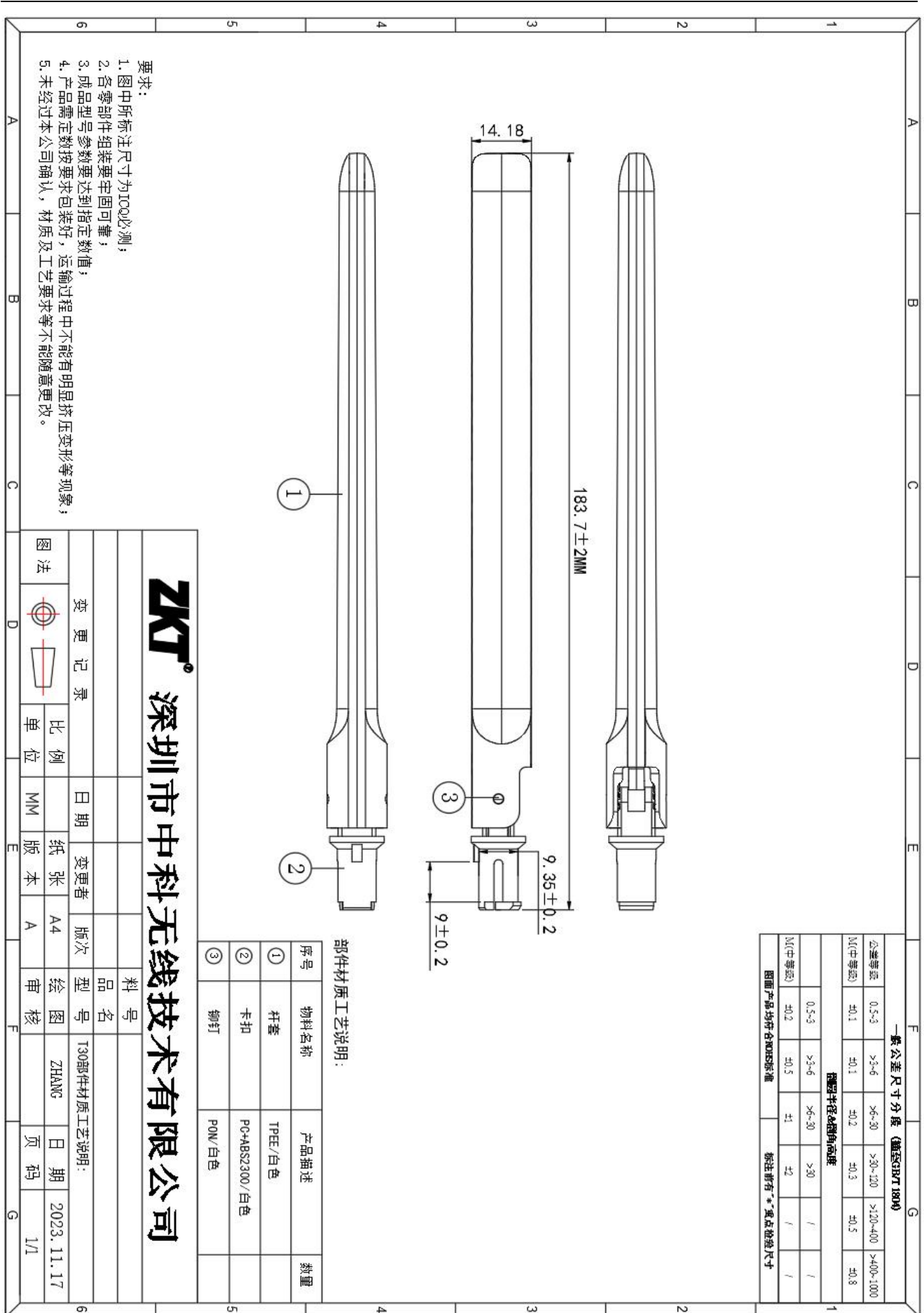
3D Chamber Test System:

2. Test principle:



Product Drawing





Reliability test report

test project		measurigin method	requirement	result
G1	V. S. W. R.	Design network analyzer parameters for testing	Directive DUT specification	pass
M1	antenna gain	Test the laboratory parameters of the antenna	Directive DUT specification	pass
M2	Vibration	GB / T2423. 48-2008 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80to 20 Hz3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol. $\leq 5\%$	pass
M6	Random Drop	GB / T2423. 8-1995 Single: Height: 1.0 Meter; 3 directions; 1 time for each direction	1. No parts separated 、 fracture 2. Frequency Tol. $\leq 5\%$	pass
E3	Dimension	Inspection of dimension, color, material, package, surface process.	Directive DUT specification	pass
E4	Temperature and Humidity Chamber	GB / T 2423. 3-2006 Temp: 80° C / 12 H; -40° C / 12H RH: $\geq 90\%$; Time: 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. $\leq 5\%$	pass
E5	Thermal Shock	GB / T 2423. 22 - 2008 - 40° C (30 minutes) to + 80° C (30 minutes); Cycles:	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. $\leq 5\%$	pass
R1	Aging test	GB /T 2423. 2 - 2008 Temp: 80° C; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. $\leq 5\%$	pass
M1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2015/863/EU	pass

Code for product packaging

Product name/specification

一、Tag requirement

采购单号	*****
物料编码	*****
品名规格	*****
数量/单位	*****
备注	*****

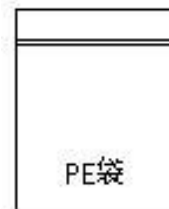
采购单号	*****
物料编码	*****
品名规格	*****
数量/单位	*****
备注	*****

二、Packing requirement

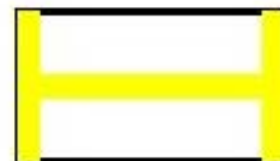
Job description:

The internal packaging:

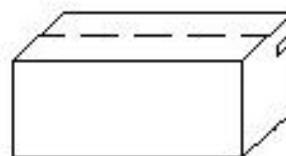
50 PCS a small bag of products



2. external packing:

According to the actual quantity

纸箱



Note:

Whether to add the partition, pearl cotton;

Label attached, such as rohs, etc.