

SPECIFICATION FOR APPROVAL

Date	2023/02/28
File No	23022801
Revision	1.0

CUSTOMER: SMART ELECTRONIC INDUSTRIAL CO.,LTD.

CUSTOMER NO: PD6N

PART NAME: BT Antenna

SUPPLIER NO: YJW01.029.008.301A

Date: Q"TY: PCS

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
ChenGuoqiang	XieLi	ChenXingcheng

YJ-RD-F04-A

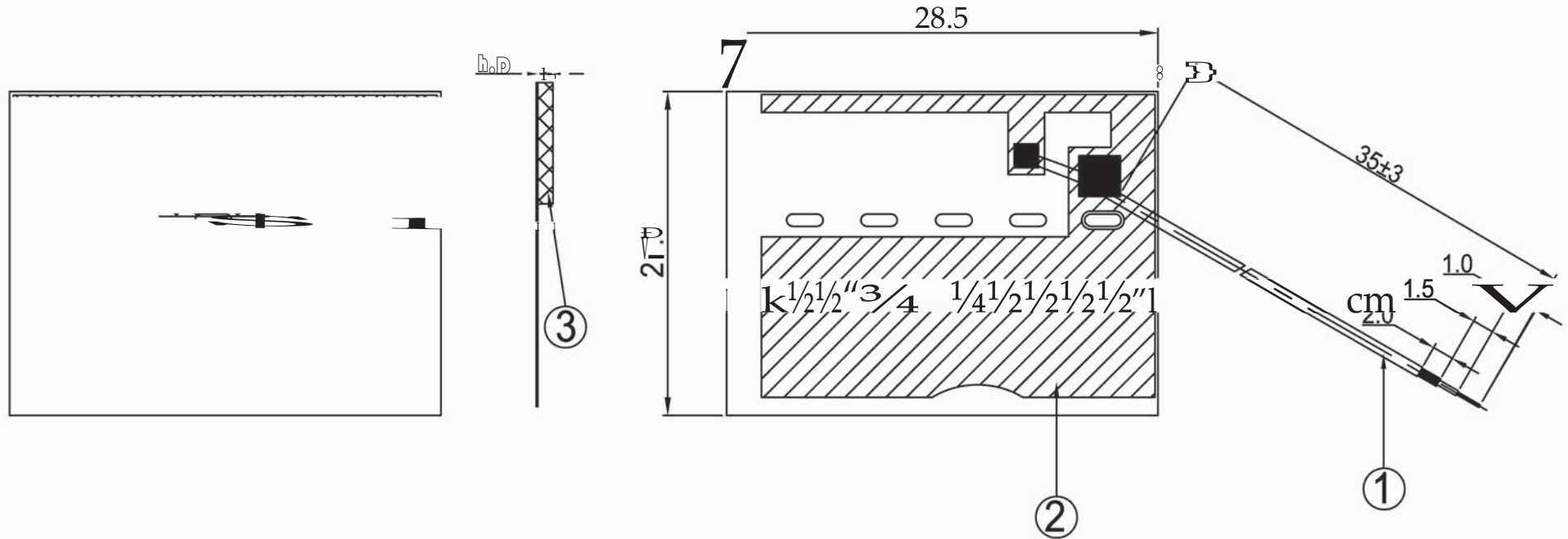


Spec Item

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10	N/A	N/A	N/A
11	-	-	-
12	-	-	-
13	-	-	-

WQV 1230
JOS DF

	6	1	8
		DESCRIPTION	DATE
		Initial Issue	20h#.07.26



A	5Y+uKk [~] tr	2i.0*1.0*h.000	5Y+uKk [~] r{	5Y+h0255+.KCh	h
2	6K/	2i.5*2h.400	6K/-	6K/hGGh+.KCh	h
h	/g5 abr/bcd	1i.2.h.h57(b	1i.2.h.h5	/1+hGGh+.KCh	h
EN	K+PUE+G5	25R/P:KU<HE	Be j oer	Je D u5j	m.U_
	1	2	1	3	4

J)OSD)B4E T*y hwa									
J)OS D7A =20h.024.00".50h*						2+U5' 20h%-0-26			
+KKPH752 =		/95/>52 =		25R<7652 =		⊗ XE<UR' U		Uydfbwgi	
(mkv3 zlpdxl		\pk?p		0mkv\pbl`p R/+@5' hhh		x.x D.53D		x.xxD.h5	
				P5YCR4E' +		x°		5°	
J		6		F		I		8	

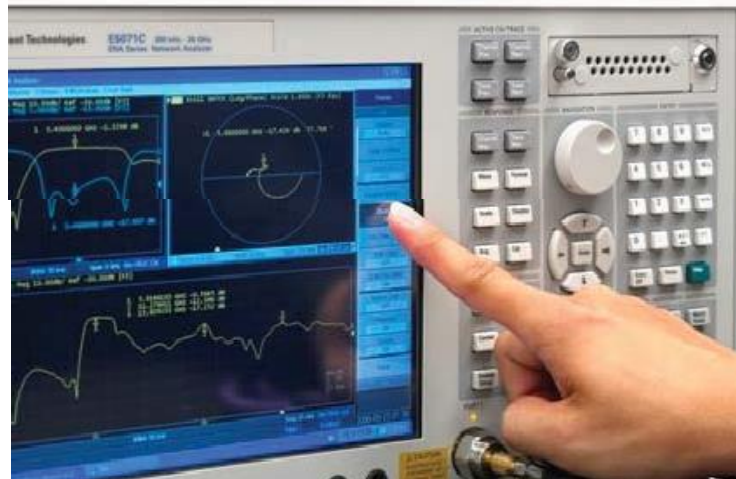
Antenna Specification

Electrical Properties	
Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	3.0 Max
Return Loss	-6.0 dB Max
Radiation	Omni-directional
Gain (Peak)	-0.1dBi
Polarization	Linear
Connector	None
Physical Properties	
Antenna Material	FPC
Cable Type	O.D.1.13mm//L=35mm
Operating Temp.	-40~+85 °C
Storage Temp.	40~ +85 °C
Cable Color	Gray

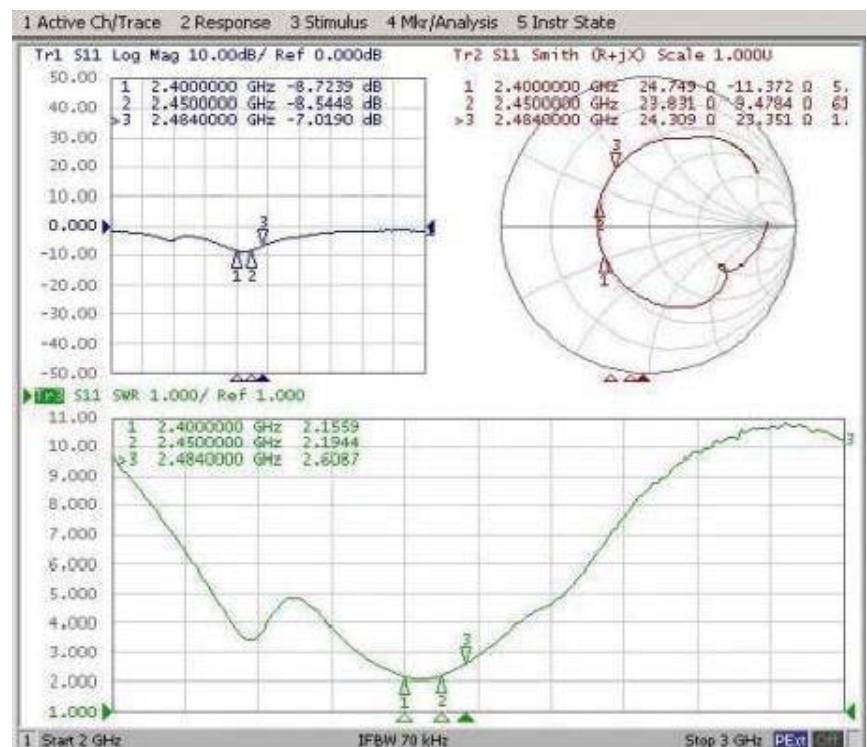
add: 1FA-03A, BLOGK B, NanXian COMMERGial Pla>a, Weilong Road, Longhua New DI>TRIGT, Shen>hen

Antenna Performance Test

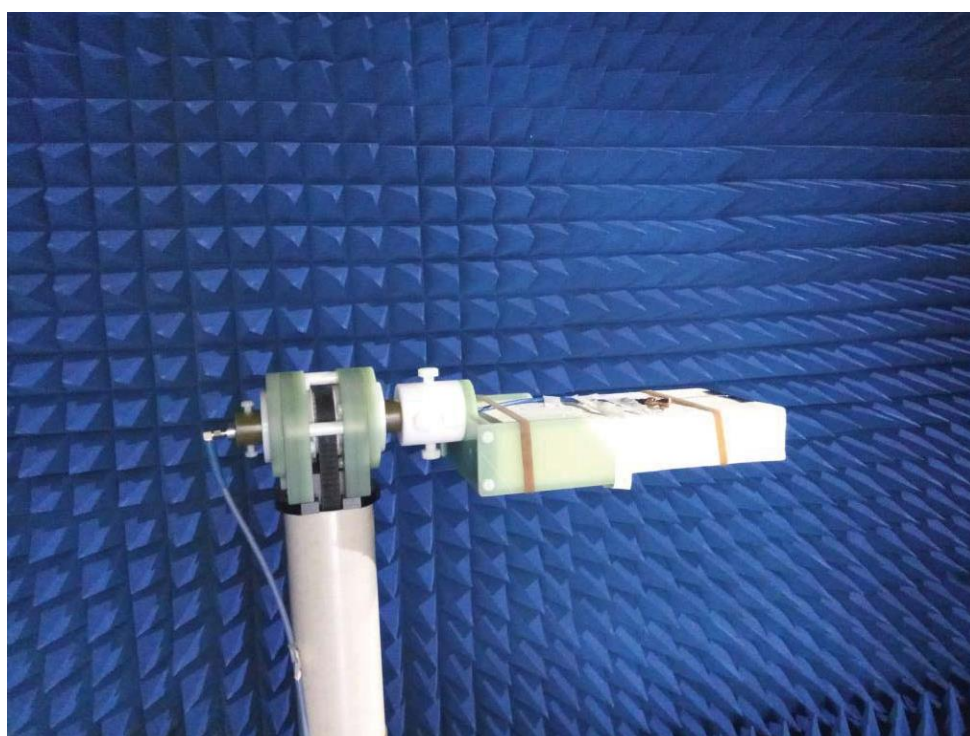
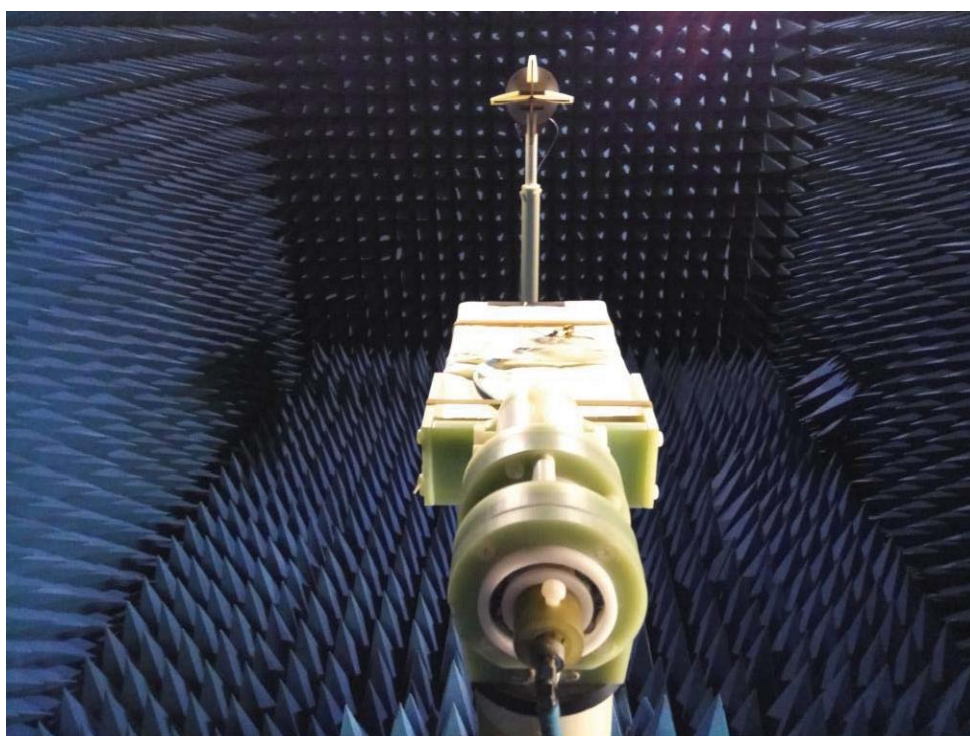
**Agilent
E5071B**



**S
Parameter
Test //
BT**



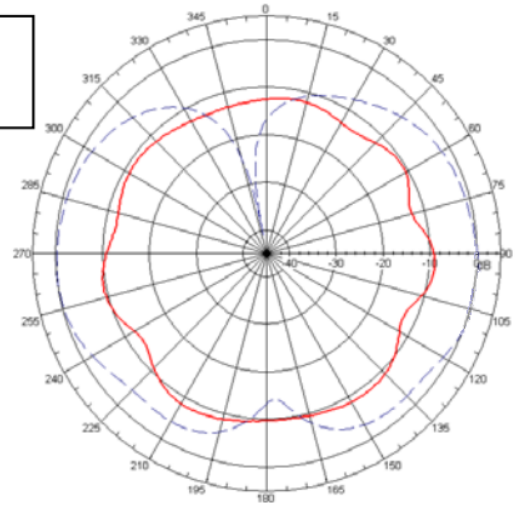
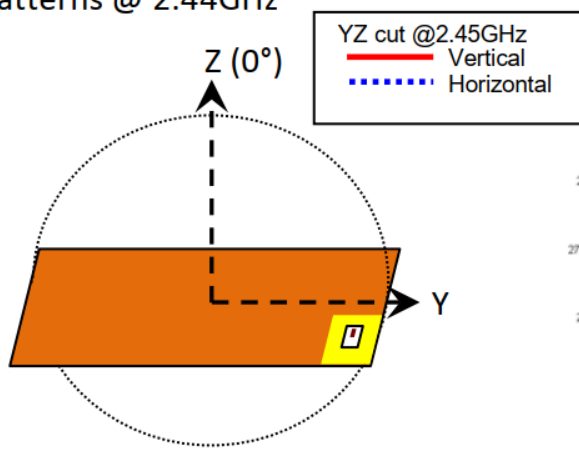
Antenna Passive Test



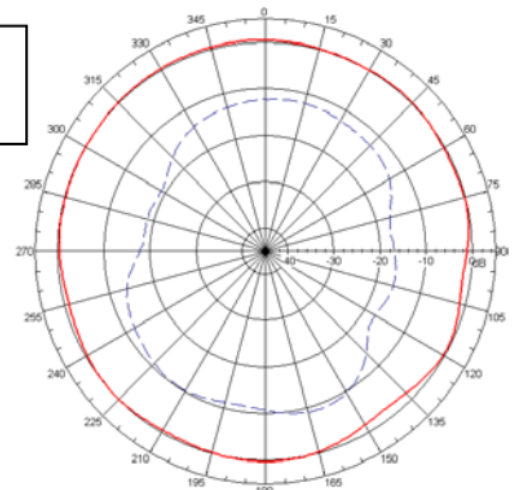
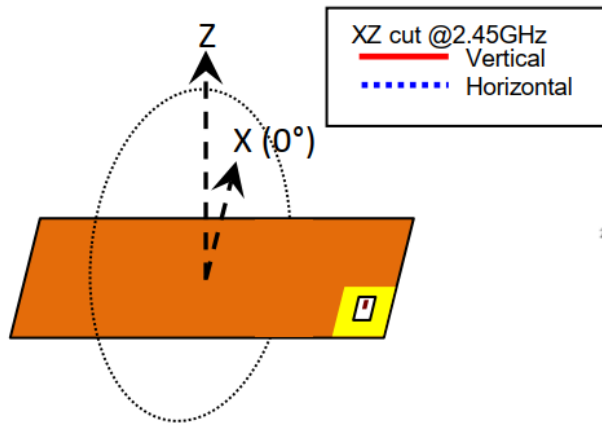
add: 1FA-03A, BLOCK B, NanXian COMMERCIAL PLaza, Weilong Road, Longhua New DISTRICT, Shenzhen

Typical 2D radiation patterns @ 2.44GHz

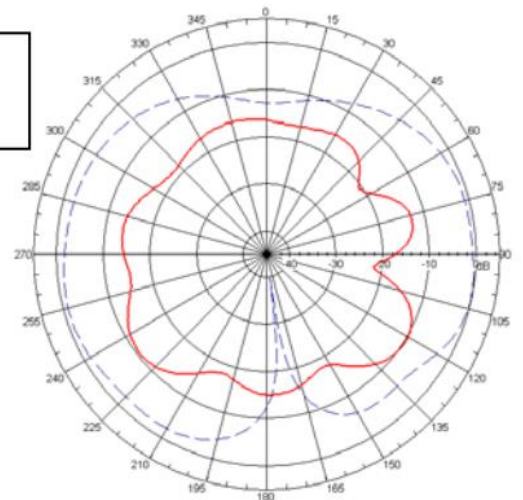
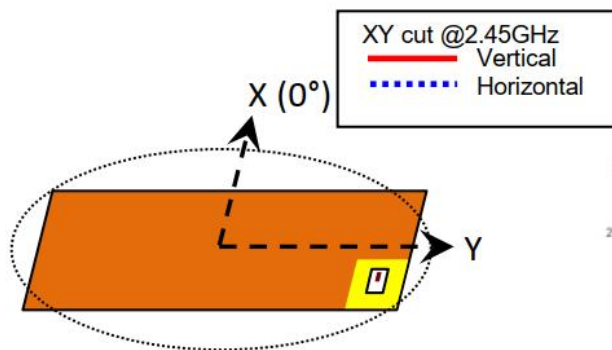
YZ-plane



XZ-plane



XY-plane



Passive Test For BT			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	38.1	-4.2	-0.5
2410	38.5	-4.1	-0.5
2420	38.6	-4.1	-0.4
2430	39.8	-4.0	-0.2
2440	39.4	-4.0	-0.2
2450	39.8	-4.0	-0.1
2460	39.6	-4.0	-0.2
2470	39.8	-4.0	-0.2
2480	40.4	-3.9	-0.1
2490	39.2	-4.1	-0.3
2500	38.3	-4.2	-0.5

Antenna BT

