

Antenna specification for approval

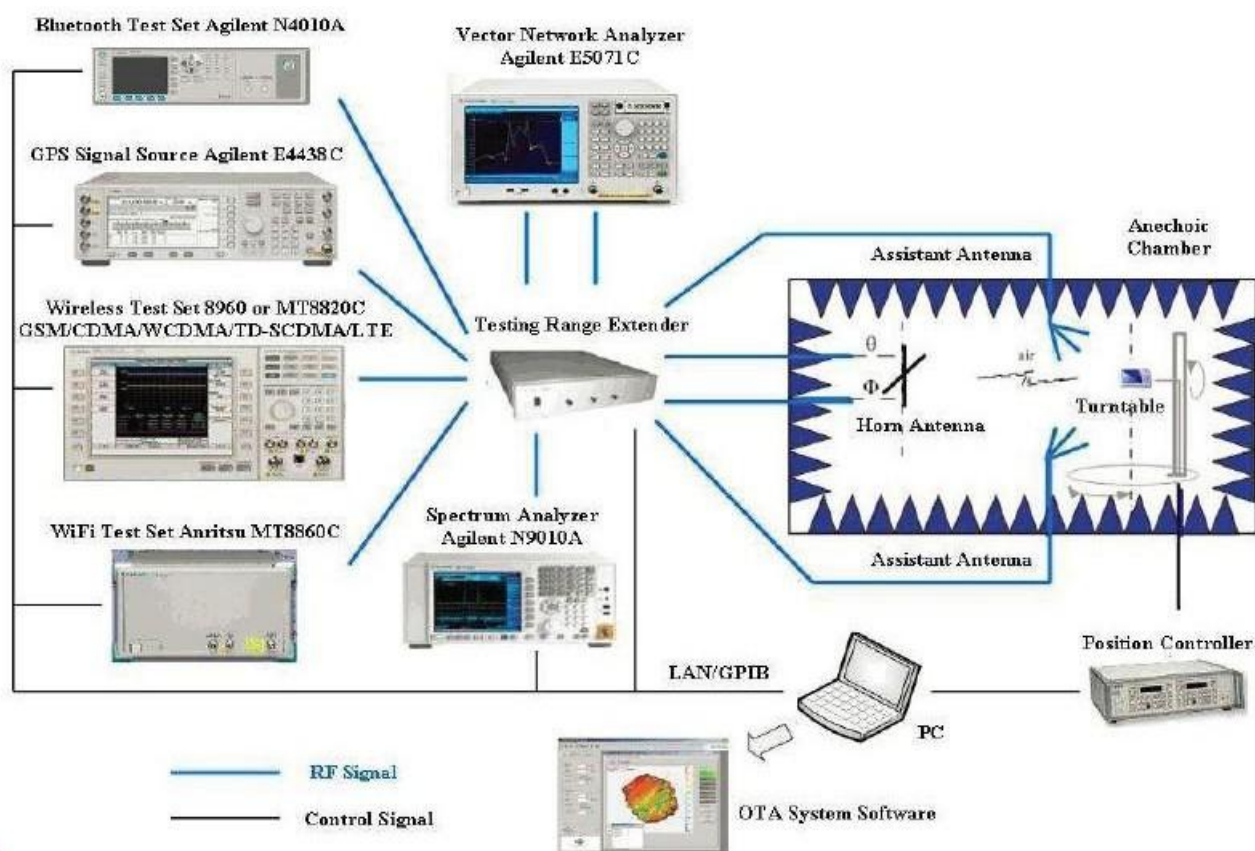
Customer name			
Model			
Antenna band	2.4GHZ		
Antenna type	X9-V2-FPC		
Antenna material	FPC		
FPC color	black		
Material number	X9-V2-L/R-FPC		
Baren accepted the signature		Client acknowledges signature	
structure		Purchase	
QC		structure	
radio frequency		engineering	
To examine		QC	
date	Seal area	date	Seal area

Building A, Rite Science Park, Bao'an District, Shenzhen City, 7th Floor

catalogue

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—:Device support & can test antenna types



二:summarize

(1)Antenna performance

1. This approval sheet supports for MID project. FPC antennas include in this project. This report is for the performance of BT antenna.
2. Antenna shape size: Meet the requirement of MID
3. Antenna band: 2400MHz~2500MHz
4. Antenna material: Antenna material meet the requirement of MID
5. Adhesive performance: Adhesive performance meet the requirement of MID
6. Antenna performance meet the spec below:

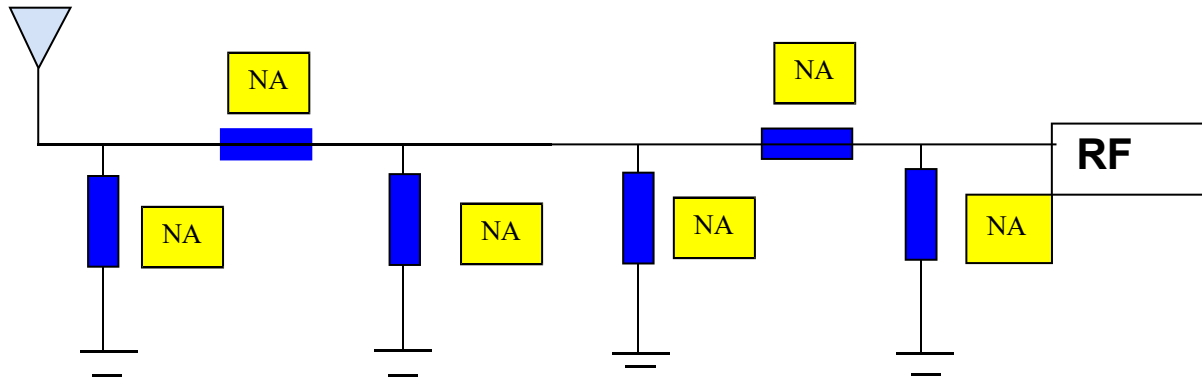
Description	2. 4GHZ~2. 5GHz	Units
VSWR	≤ 2.0	
Average Antenna Gain	≥ -4.5	dB
Antenna Efficiency	≥ 40	%
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

(2)Mechanical Information

Mechanical Dimension	
Cable Length	NA
Description	BT antenna
Material	FPC
Coaxial Cable	NA
Environmental	
Operation Temperature	-40 to +85 deg C
Storage Temperature	-40 to +85 deg C

☰: Match circuit diagram & machine

picture & antenna picture



(2) Machine picture & antenna picture

1: gold plating; 3: Surface black matte ink; 4: Meet the latest environmental requirements: RoHS&REACH; 5: The whole board shipment;

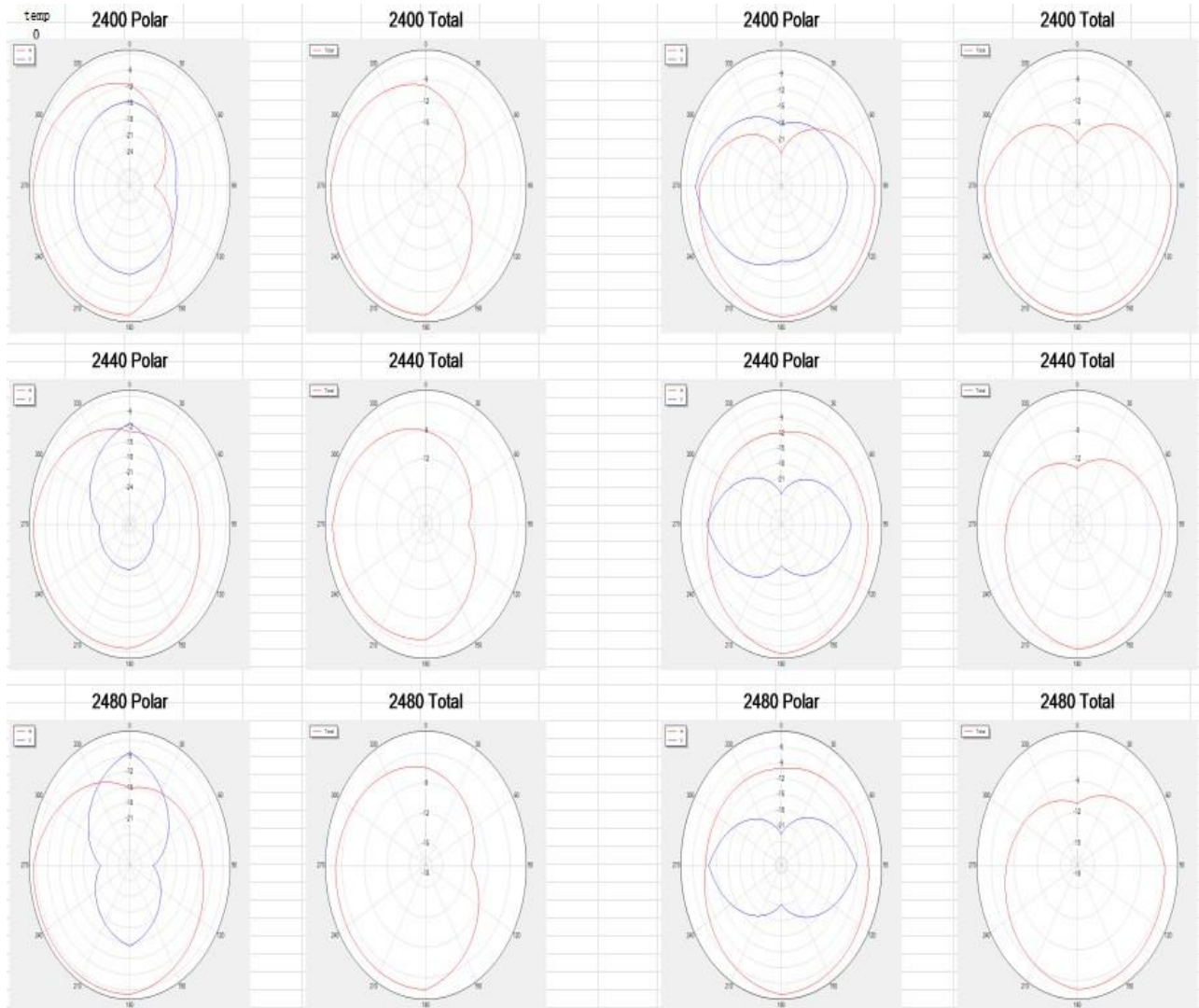
四:Antenna Standing Wave Ratio & Antenna Efficiency (VSWR)



Frequency (MHz)	VSWR
2400	1.6
2440	1.2
2480	1.6

Frequency	Effic	Perccn	Gain
2400	-6.79	20.94%	-3.8
2410	-6.55	22.12%	-3.19
2420	-6.83	20.73%	-3.29
2430	-6.66	21.59%	-3.34
2440	-7.6	17.36%	-4.29
2450	-7.22	18.97%	-3.82
2460	-7.2	19.06%	-3.76
2470	-6.72	21.29%	-3.37
2480	-6.47	22.56%	-3.46
2490	-6.62	21.76%	-3.91
2500	-6.76	21.1%	-4.09

五:3D pattern



六:Structural drawing

