

G1500BAR RF Report

product model name antenna model name PCB Antenna

Test Equipment:XXXX

Electrical Characteristics

1. Antenna manufacturer

Our company's Bluetooth antenna is directly made on PCB , and the processing technology of antenna is copper foil and tin-spraying technology.

Copper foil thickness: H/HOZ, PCB material: FR-4 thickness 1.2mm

PCB manufacturer: Shenzhen Hezhongxin Precision Electronics Co., LTD

Tongfuyu Building, Shajin Baoan, Shenzhen,China

2. Antenna shape

a. Dimensional drawing : 14.4*5.4mm

b. Physical picture:

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3. Antenna parameter

The Bluetooth antenna operates at 2402-2480 MHz and generates resonance in this frequency band. The following table shows the main parameters of the antenna. ◦

Bluetooth built-in antenna	
Frequency (MHz)	2402 ~ 2480 MHz
VSWR	≤ 1.92
Impedance	50 Ohm Nominal
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	-0.347483 dBi
Polarization	Linear, Vertical
Admitted Power	2W
Connector	Tin

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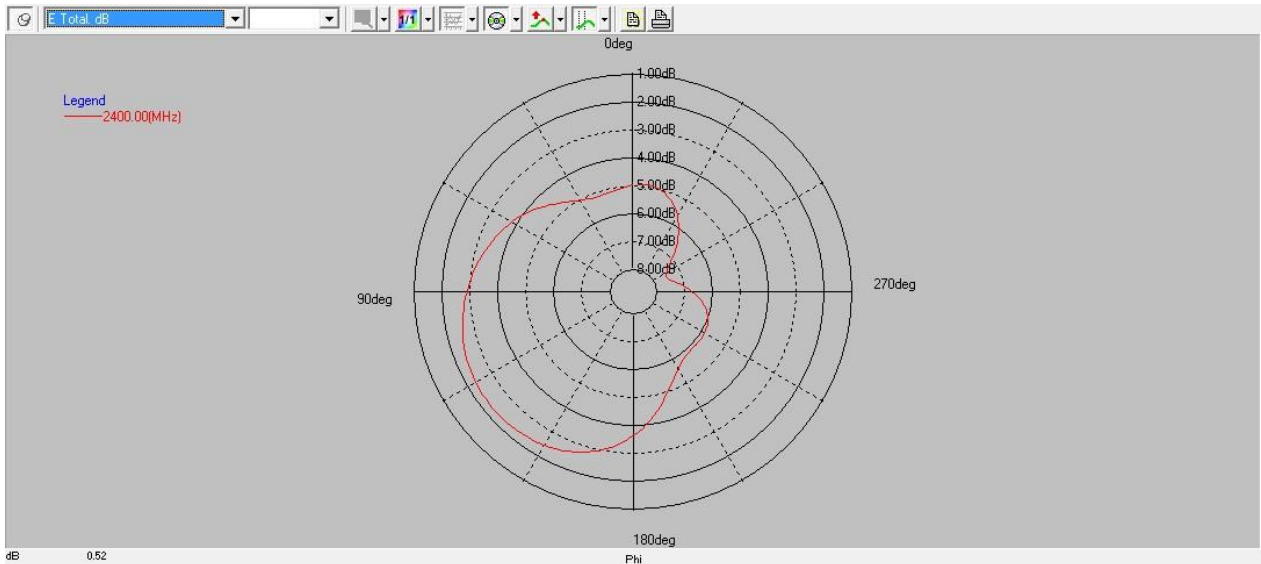
4. Antenna gain detection report

Spectrum Detector:	PK	Test Date :	June 8, 2022
Test By:	Andy	Temperature :	28°C
Test Result:	PASS	Humidity :	55 %
Modulation:	GFSK		

Maximum gain

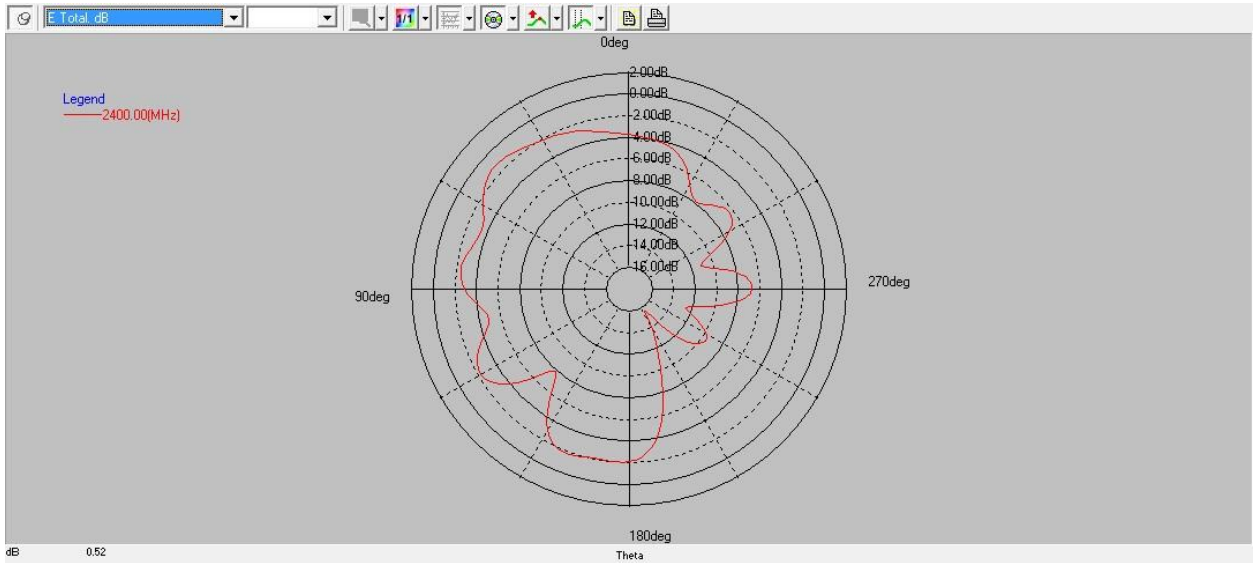
Frequency VNA (MHz)	E Total. dB(dBi)
2400MHz	-0.35
2410MHz	-0.50
2420MHz	-0.77
2430MHz	-0.96
2440MHz	-1.23
2450MHz	-1.94
2460MHz	-1.90
2470MHz	-2.02
2480MHz	-2.31
2490MHz	-2.28
2500MHz	-2.87

Direction chart:

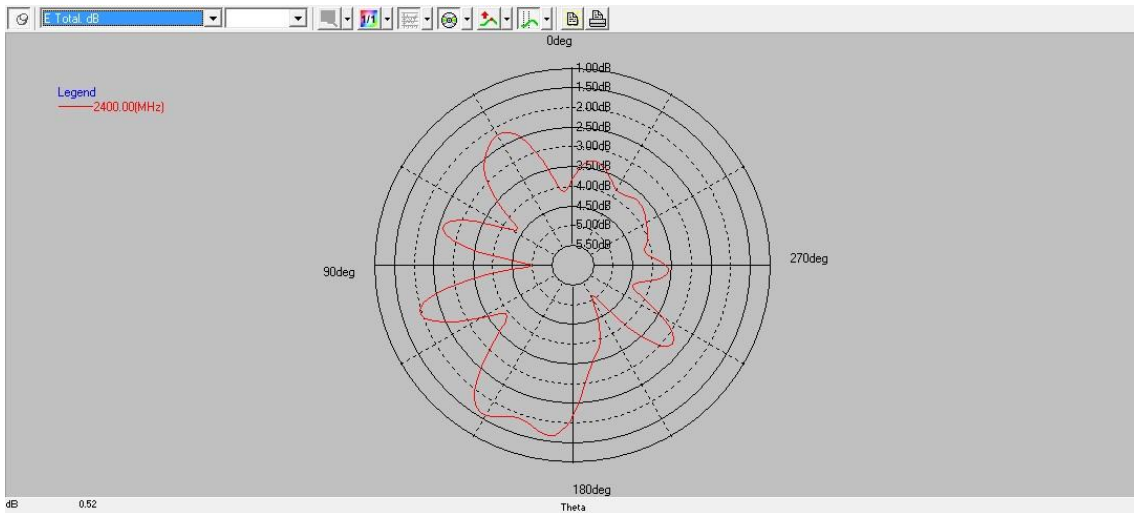


PHI 0 angle

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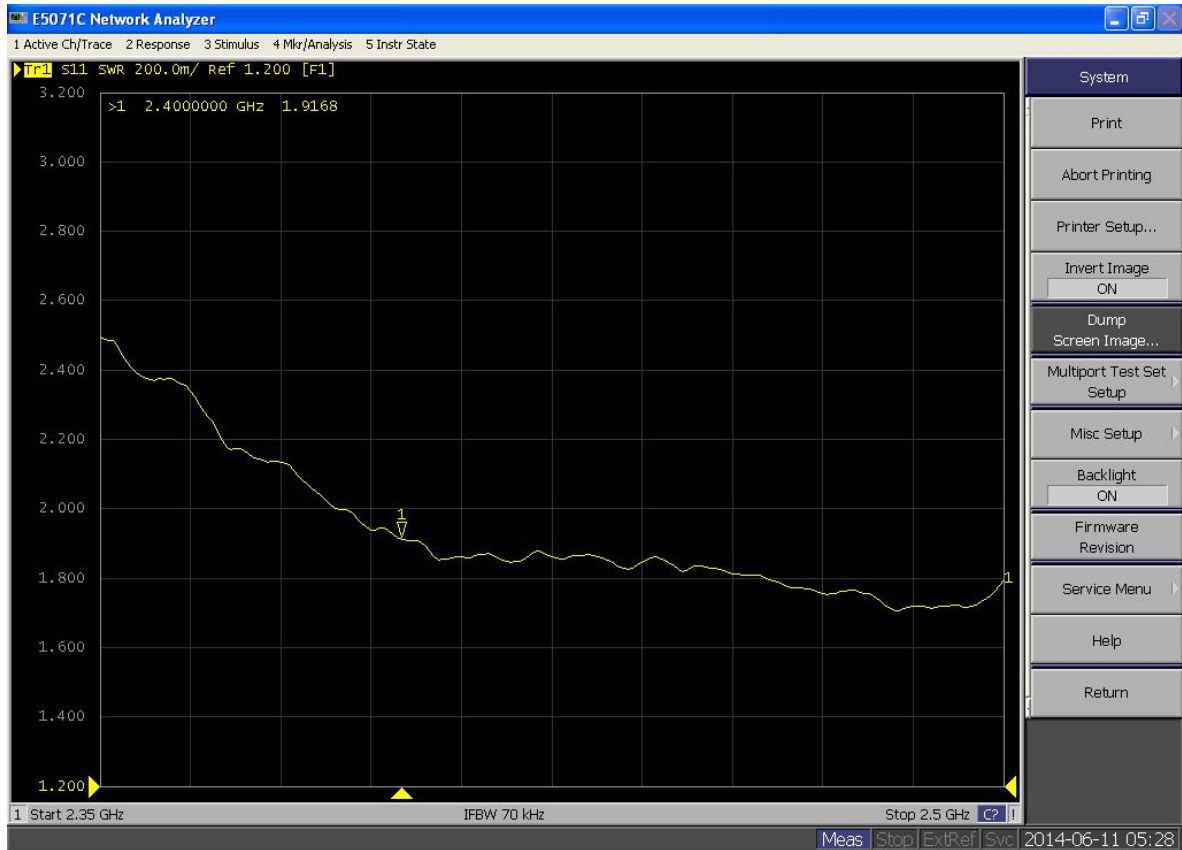
PHI 90 angle



THETA 90 angle

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Standing wave pattern:



5. RF Logic

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6. RF Picture of Real Products

Refer to internal Photos