



APPROVAL SHEET

Customer Name APPOTRONICS Co., Ltd

Product Model E8

Customer P/N

Southstar P/N N14-0847-R0A

Production date 2020-03-24

Sample Version Version A

Southstar		
FICTION	DQE	R&D
Customer		
PUR	QC	R&D

Manufacturer: SHENZHEN SOUTH STAR TECHNOLOGY CO., LTD

Address-SZ: 8.10.16F, Building C6, Hezhou Hengfeng Industrial City, Xixiang,
Bao'an District, Shenzhen.

Address-SH: 103B, Building 10, Lane 198, Zhangheng Road, Zhangjiang Gaoke,
Shanghai.

TEL: 0755-27474071 FAX: 0755-29976316

WWW.SZ-SOUTHSTAR.COM

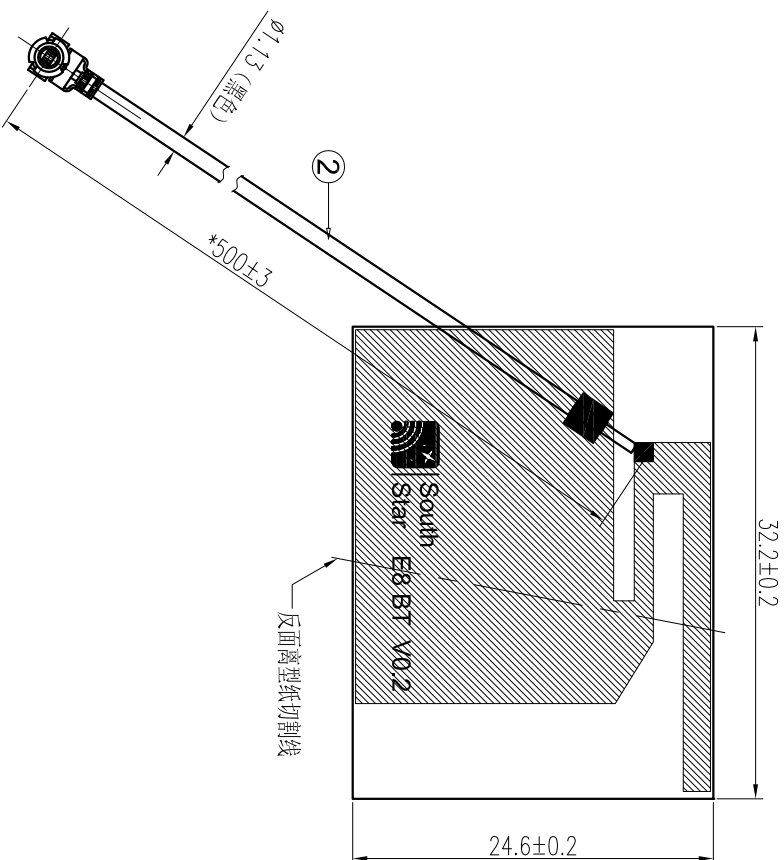
Version	Date	Change Description	NOTE
Rev. 01	2020. 03. 24	First Edition	

Index

1、	Cover • • • • •	1
2、	version • • • • •	2
3、	Index • • • • •	3
4、	The basic parameters • • • • •	4
5、	Product Drawing • • • • •	5
6、	Test Equipment & Conditions • • • • •	6
7、	Test Report • • • • •	7-8
8、	Installation method • • • • •	9

The basic parameters

A. Electrical Characteristics	
Frequency	2400MHZ~2500MHZ
VSWR	< 2
Efficiency	>45%
Impedance	50 Ohm
Polarization	Linear
Gain	<3dBi
B. Material & Mechanical Characteristics	
Material of Radiator	FPC black
Cable Type	Φ 1.13mm black
Connector Type	
Dimension	
C. Environmental	
Operation Temperature	- 20 °C ~ + 80 °C
Storage Temperature	- 20 °C ~ + 80 °C

[illegible]

Test Equipment & Conditions

1 Test Equipment

VSWR is tested by connecting Agilent E5071B to the mobile phone system.

2 Test Conditions

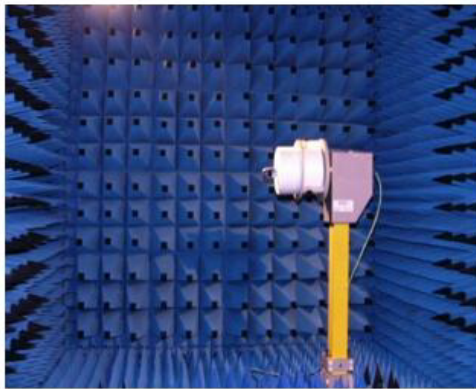
Chamber: ETS-743

TD-SCDMA test equipment :StarPoint S6010/Agilent 8960

LTE-TDD/FDD-SCDMA test equipment: StarPoint SP8011/CMW500

WCDMA/GSM/CDMA test equipment:Agilent 8960

Passive efficiency est equipment:Agilent Technologies E5071B



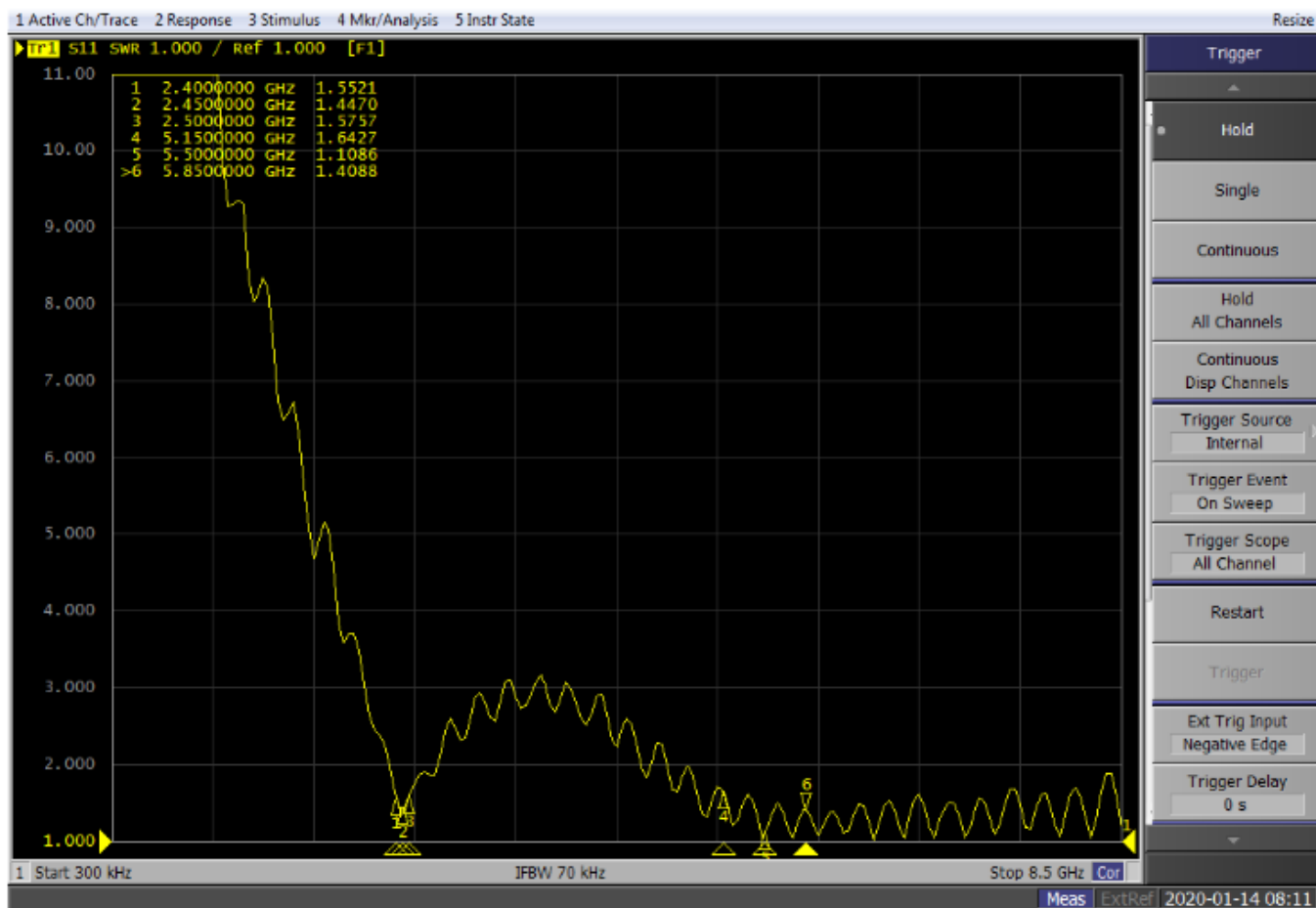
Chamber: ETS-743

TD-SCDMA test equipment :StarPoint S6010/Agilent 8960

LTE-TDD/FDD-SCDMA test equipment: StarPoint SP8011/CMW500

WCDMA/GSM/CDMA test equipment:Agilent 8960

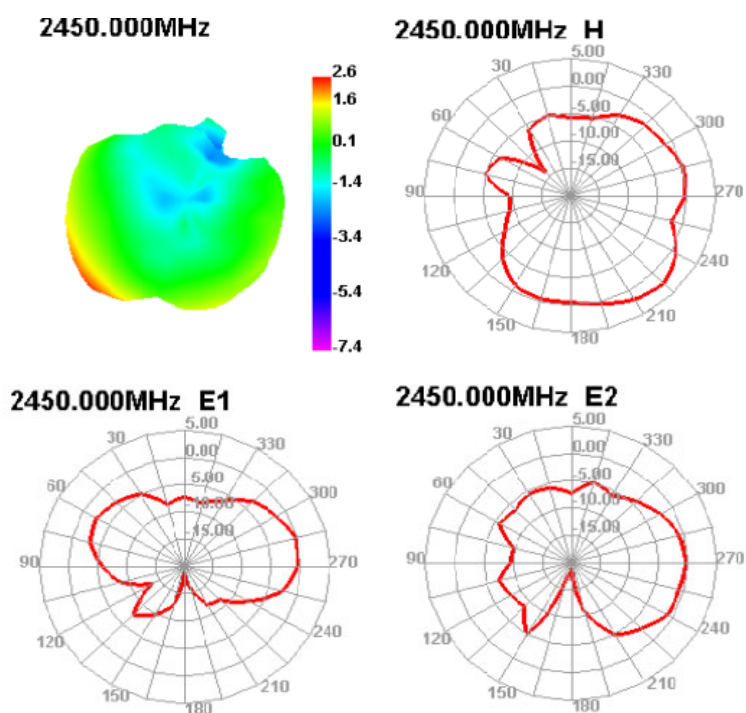
Passive efficiency est equipment:Agilent Technologies E5071B

Antenna Impedance: S11 (parameter)


Efficiency & gain:

Passive Test For WIFI-2.4G		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	45.18	2.88
2410	46.78	2.47
2420	45.55	2.46
2430	45.29	2.66
2440	46.48	2.25
2450	47.11	2.58
2460	46.53	2.14
2470	46.17	2.22
2480	46.56	2.69
2490	44.09	2.31
2500	45.4	2.12

Antenna 3D radiation pattern



Antenna assembly drawing:

