



ShenZhen Eastong Electronic technology Co., LTD

## APPROVAL SHEET FOR C08

<b>Issued by</b>		<b>Checked by</b>	
<b>Confirmed by</b>		<b>Date</b>	<b>2024-12-09</b>
<b>Customer Confirm</b>			

Project: C08		Author: XUXIAORONG	File Name:  C08- <b>APP-RA</b>
Date: 2024-12-09			
Rev:	Language:	Check:	
A	ENG		
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## Revision History

Date	Revision	Description of Changes
2024-12-09	R:A	Antenna performance approved by customer

## 1 SUMMARY

## 2 GENERAL DESCRIPTION

### 2.1 Definitions

## 3 MECHANICAL DESCRIPTION

## 4 ELECTRICAL PERFORMANCE

### 4.1 Set-up

- 4.1.1 VSWR and return loss
- 4.1.2 Efficiency, Gain and TRP/TIS
- 4.1.3 Matching Circuit Description

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- 4.2.1 VSWR
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## 6 CONCLUSION

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# 1 Summary

This report summarizes the electrical results of the proposed antenna to support the C08 program. We test the antenna with the latest version handset .

## 2 General Description

### 2.1 Definitions

VSWR: Voltage Standing Wave Rate

## 3 Mechanical Description

## 4 Electrical Performance

### 4.1 Set-up

#### 4.1.1 VSWR and return loss

VSWR measurements ( $S_{11}$ ) were performed using an Agilent E5070B Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

#### 4.1.2 Efficiency, Gain and TRP/TIS

The gain of the antenna was measured in Dong Xin's 3D anechoic chamber in Shenzhen. The chamber is capable of doing tests from 380MHz to 6GHz. Coaxial chokes on the feed cable were used to mitigate surface currents. The measurement results are calibrated using dipole standards. For TRP and TIS the chamber uses a Agilent 8960 to establish the connection with the mobile device. During TRP tests the 8960 reads the power received through the chamber probes whilst during TIS tests the 8960 transmits through the probe. All data is afterwards corrected by a calibration table.

#### 4.1.3 Matching Circuit Description

No matching.

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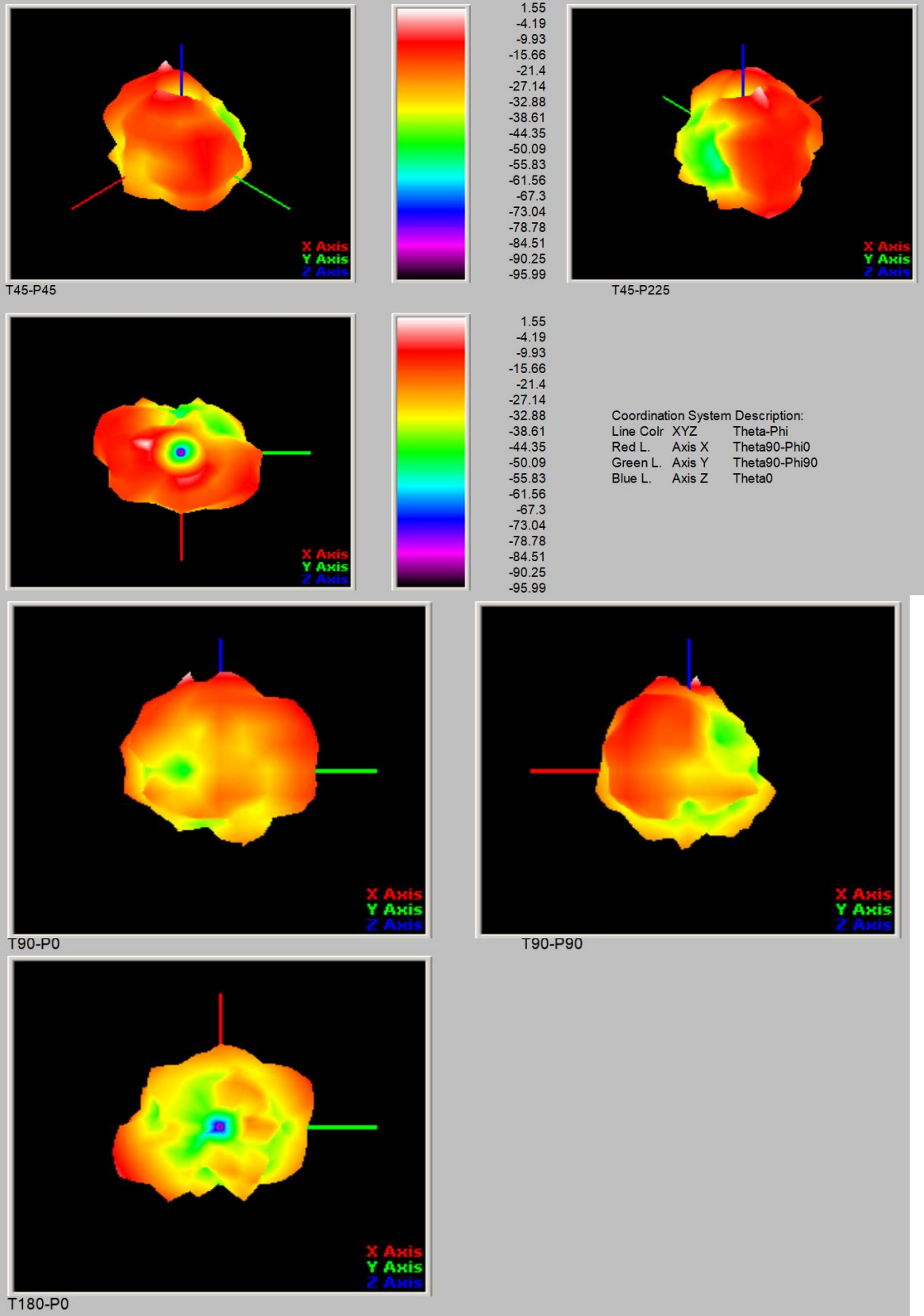
4.2 Measurement Data

Frequency range: 2400–2480MHz  
Max gain: 0.9dBi

**Address:** 409–411, Shanhai E-commerce Port, No.9 Huancheng Road, Yangmei Community, Ba ntian Street, Longgang District, Shenzhen

5 Mechanical drawing

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