



NB TIANLI

## SPECIFICATION REPORT

NBTL-QR-73-016

01

PAGE: 1/9  
older version: 0.1

# Specification of Antenna

**DESCRIBE:**

EG59 BULETOOH ANTENNA

**PRODUCTS:**

EG59

**PART NO:**

**APPLICATION:**

EG59

**DATE:**

2010-1-19

**PROVIDER:**

*Ningbo Tianli Communication Technical CO., LTD.*

<i>APPROVED BY VENDOR</i>			
Writer	Checker	Auditor	Approver
<i>APPROVED BY Hisense</i>			
Writer	Checker	Auditor	Approver

*Ningbo Tianli Communication Technical CO., LTD.*

*URL: [www.nbtianli.cn](http://www.nbtianli.cn)*

*TEL: +86 574 28526102 FAX: +86 574 28526111*



NB TIANLI

# SPECIFICATION REPORT

NBTL-QR-73-016

01

PAGE: 2/9  
older version: 0.1

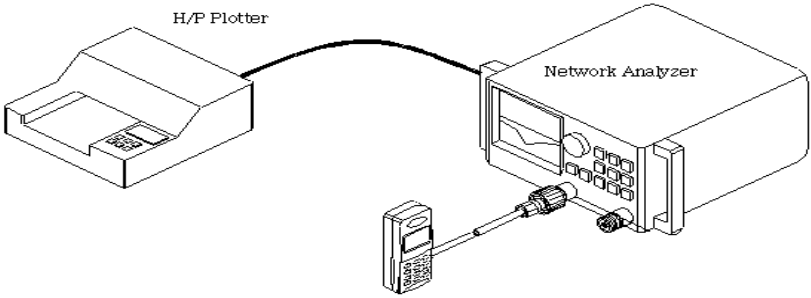
## LIST

<b>1. OBJECT</b> .....	<b>3</b>
<b>2. RF SPECIFICATION</b> .....	<b>3</b>
2.1. MATCHING CIRCUIT.....	3
2.2. VSWR & RETURN-LOSS.....	5
2.3. efficiency .....	6
<b>3. MECHANICAL SPECIFICATION</b> .....	<b>7</b>
3.1. PICTURE OF ANTENNA.....	7
3.2. DRAWING OF ANTENNA .....	8
<b>4. ANTENNA RELIABILITY TESTING REPORT</b> .....	<b>9</b>

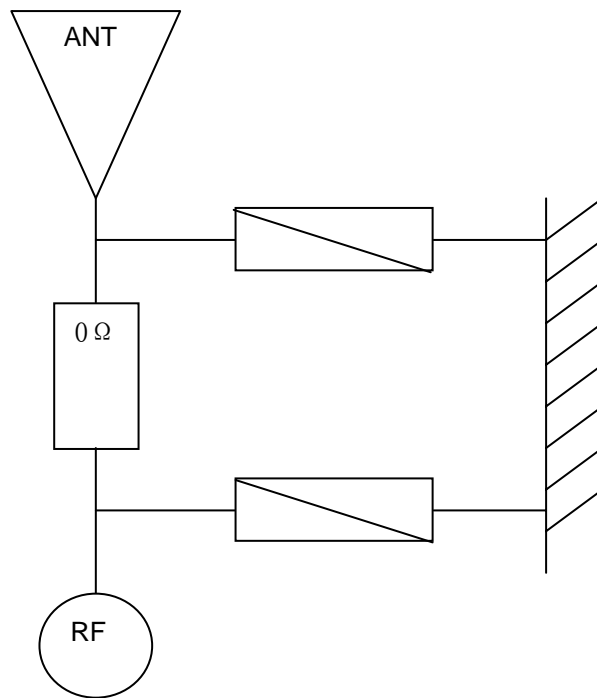
## 1. OBJECT

This Specification apply To Hisense EG59 mobile

## 2. RF SPECIFICATION

Electric performance	1. Frequency	Buletooth (2400`2483.5MHz)
	2. input impedance	50 Ω
	3. VSWR	For checking
		2400~2483.5MHz ≤4.0
		Test method:
		(一) . The antenna assembl on the mobile
		(二) With 50 Ω coaxial cable connection phone test points and network analyzer.
		(三) . put the mobile on the jig, test VSWR.
		(四) . See below
		
		(五) . Test environment without special provisions.
	4. power	5W
	5. working temperature	-25~+65°C

## 2.1. MATCHING CIRCUIT

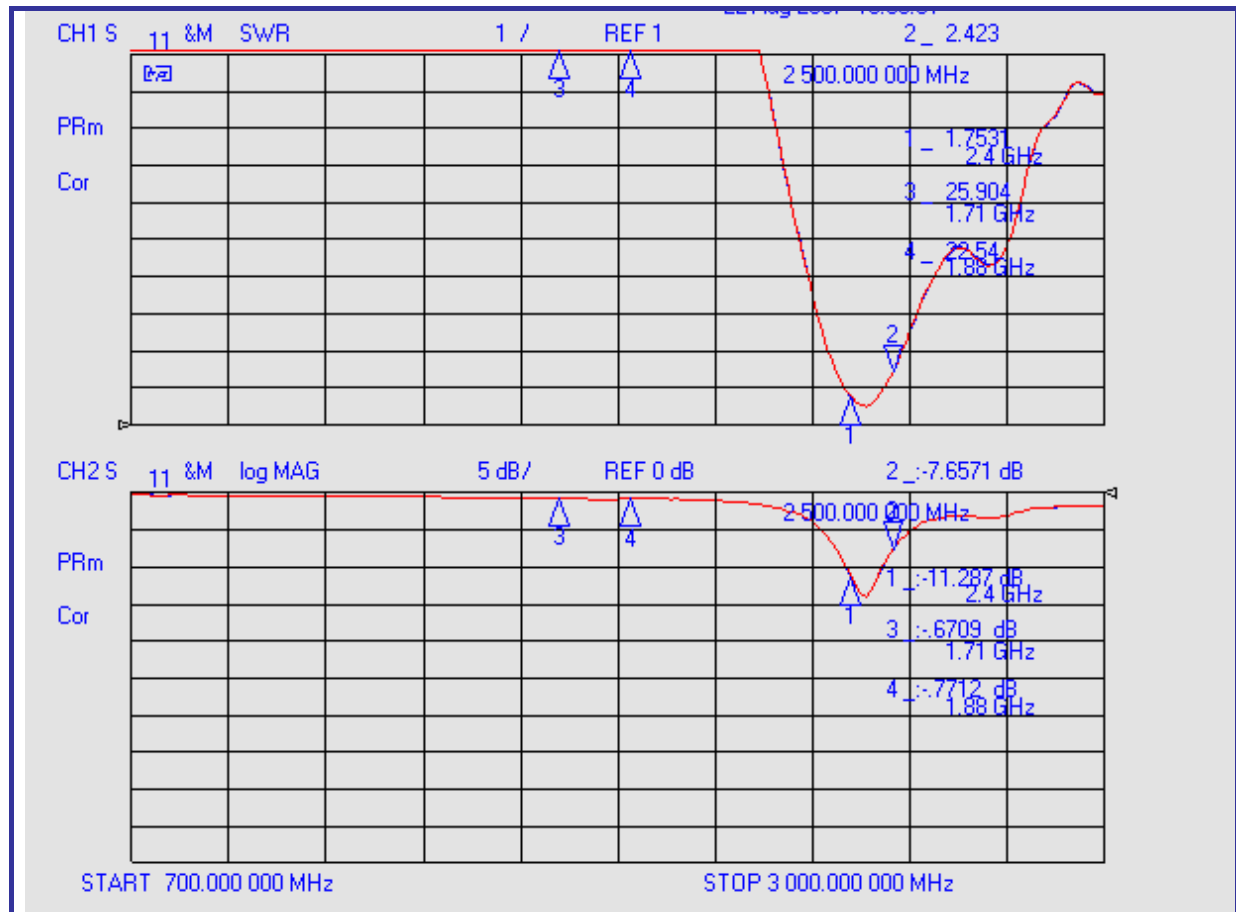


## 2.2. VSWR & RETURN-LOSS

Test condition:

Test Condition	Free space
Test equipment	hp 8753D
Date	2009.11.26

<b>Frequency (MHz)</b>	<b>2400</b>	<b>2500</b>		
<b>VSWR</b>	1.75	2.42		
<b>Return loss (dB)</b>	-11.28	-7.63		



2.3. EFFICIENCY AND GAIN

Frequency	Efficiency	Gain(dBi)
2400MHz	34.32%	-1.36
2410MHz	32.11%	-1.51
2420MHz	31.13%	
2430MHz	34.31%	
2440MHz	32.55%	-1.47
2450MHz	36.85%	-1.25
2460MHz	35.54%	
2470MHz	33.47%	
2480MHz	31.94%	-1.53
2490MHz	31.67%	
2500MHz	37.68%	-1.18

### 3. MECHANICAL SPECIFICATION

#### 3.1 PICTURE OF ANTENNA)

