

# Data Sheet

CUSTOMER: DELL

MODEL NAME: HS2404

CUSTOMER P/N: 1DJXR

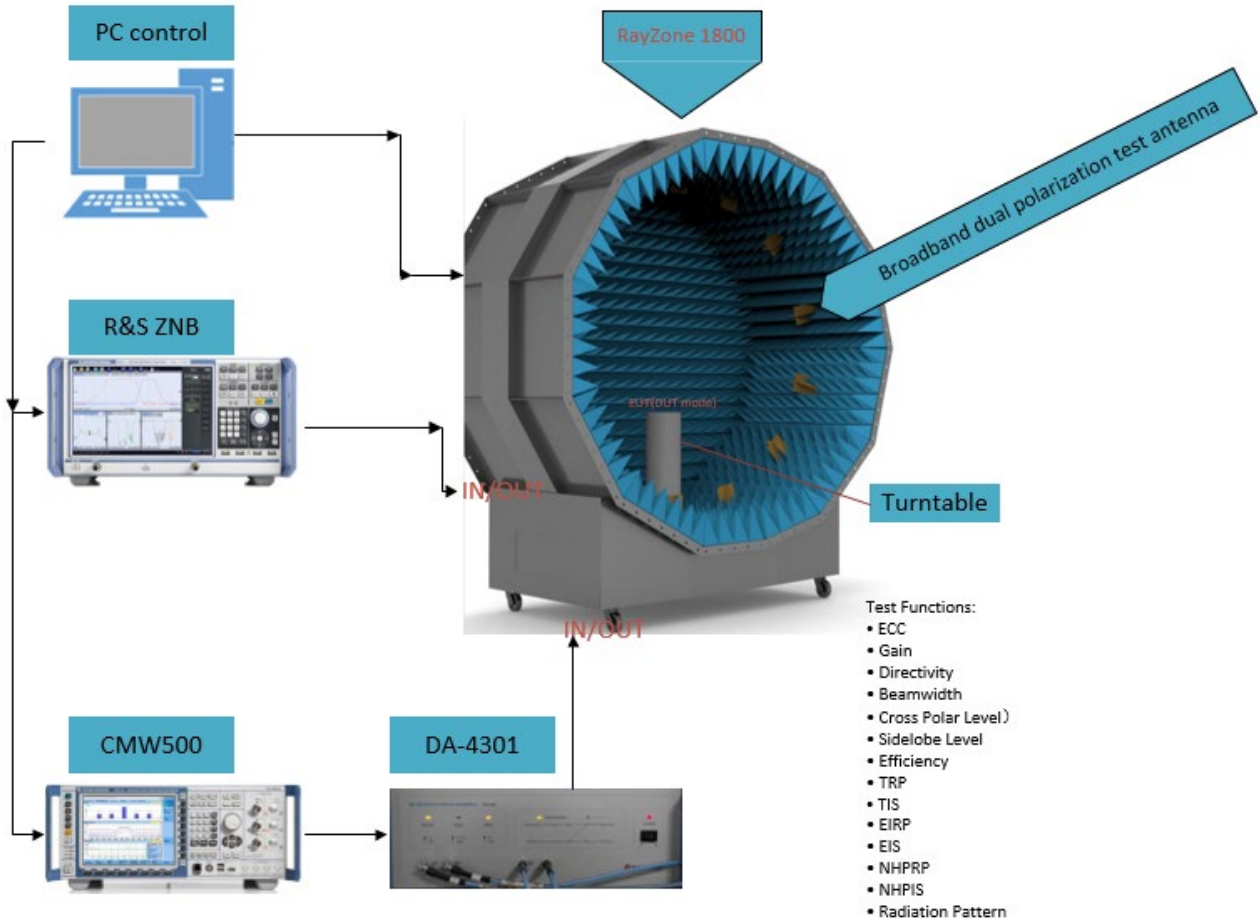
ICT P/N:  Top-link:240000945

<b>APPROVED</b>	
MANUFACTURER	CUSTOMER
<p>Shenzhen Top-link Technologies Co.,Ltd            Bld.1, 11, Furui Rd., Fuhai Street,            BaoAn District, Shenzhen            City,GuangDong Province, China</p>	
<i>PREPARED BY:</i>	<i>APPROVED BY:</i>
<i>CHECK BY:</i>	
<i>APPROVED BY:</i>	

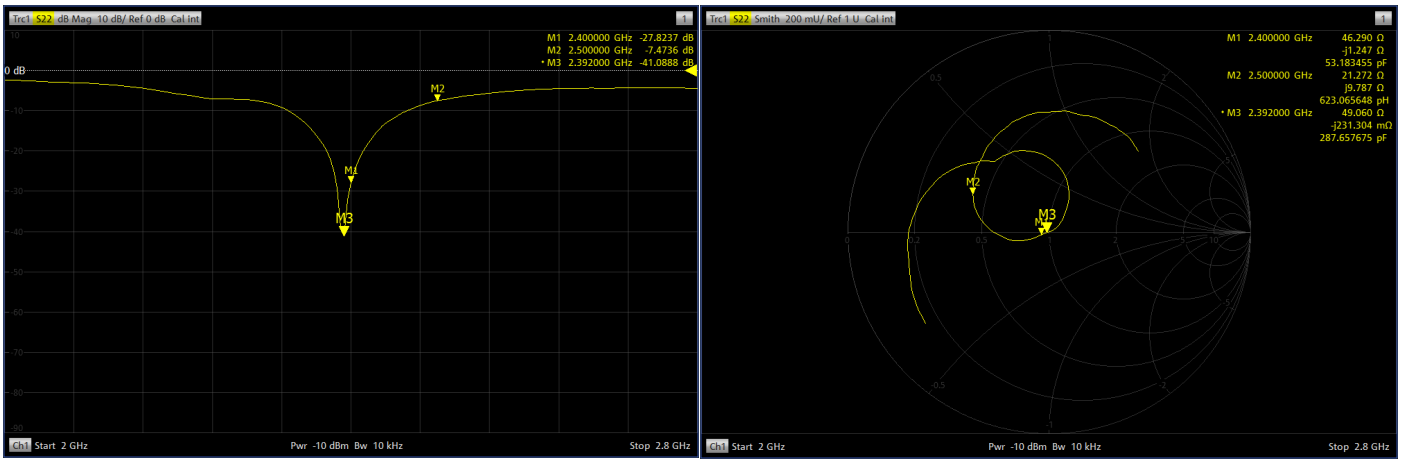
# Description

## Specifications

<b>Antennas Type</b>	Monopole Antenna for Bluetooth application	
<b>Impedance</b>	50Ω	
<b>Polarization</b>	Linear	
<b>Radiation pattern</b>	Omni-directional	
<b>S11</b>	2.40~2.50 GHz	-27.82Max
<b>Peak EIRP</b>	2.40~2.50 GHz	1.95dB
<b>Peak Gain</b>	2.40~2.50 GHz	1.95dBi
<b>Min EIRP</b>	2.40~2.50 GHz	-21.78dBi
<b>Average Gain</b>	2.40~2.50 GHz	1.42dBi



# Circuit Parameter

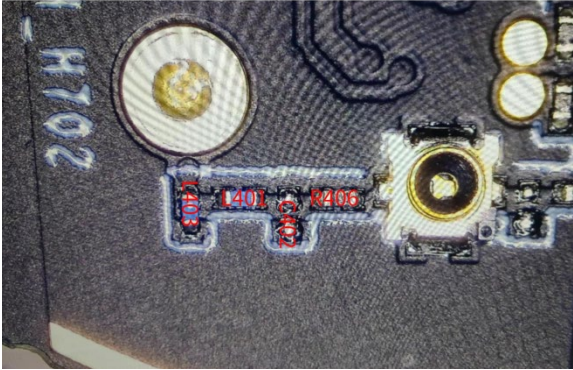


## Passive Test Result

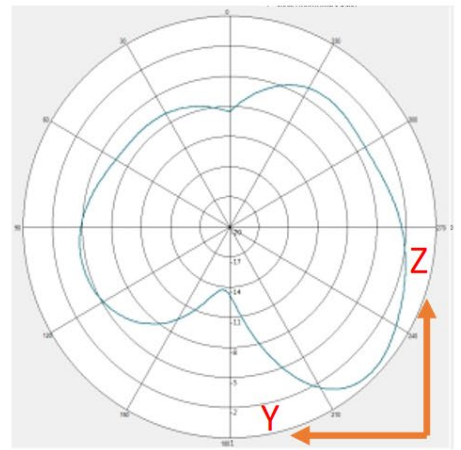
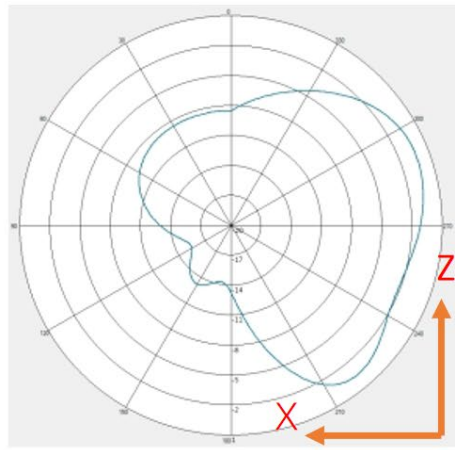
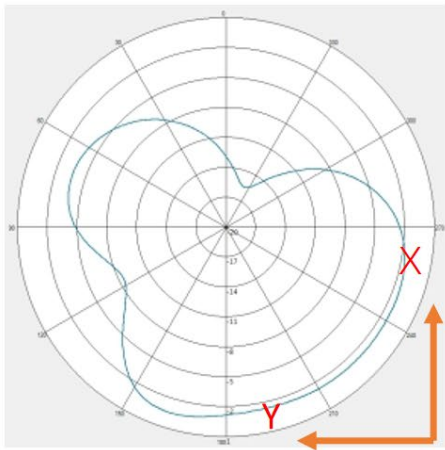
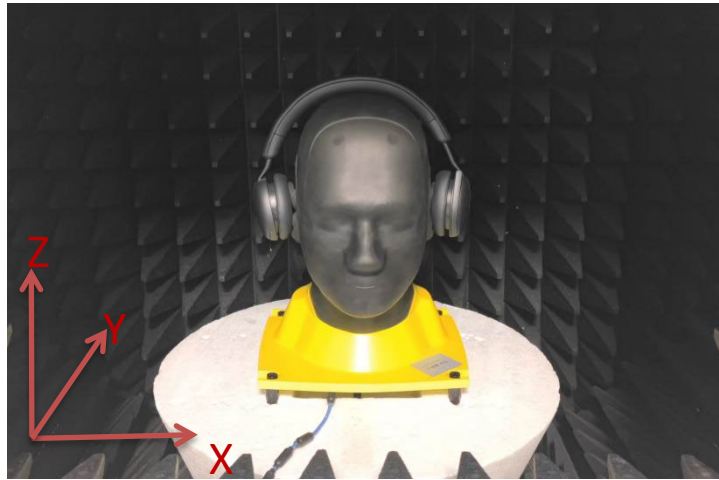
Frequency(MHz)	Efficiency(%)	PeakEIRP	MinEIRP
2400	35.12	1.95	-21.64
2410	35.44	1.74	-21.78
2420	36.11	1.63	-18.60
2430	37.16	1.60	-16.45
2440	36.95	1.41	-16.02
2450	37.00	1.18	-15.48
2460	37.72	1.25	-15.58
2470	37.10	1.03	-15.61
2480	36.98	1.23	-16.07
2490	37.41	1.31	-16.43
2500	36.40	1.28	-17.01

Matching Circuit:

match □ L401=5.1nH    C402=Null    L403=3.9nH    R406=0Ω



# Antenna Pattern



## Test procedure and Antenna photo

### Parameters (R85\_ZNB8/Passive/)

#### Test Setup

Trace Name : S21  
 Power : 0 dB  
 Bandwidth : 0.3 KHz  
 Average Factor : 1  
 Test Mode : Log  
 Skip Calibration : False

#### Angular Coordinator Setup

##### Phi

Step : 30

##### Theta(Ant No.)

Start : 0

End : 180

Step : 30

#### Display Setup

Display Frequency Mode : Auto

Display Frequency : MHz

#### Frequency List

Test Method : Linear Import Clear

	Start(MHz)	End(MHz)	Step(MHz)
1	2400	2500	10
2			

#### Added Pathloss Correction

Correction Method : None

