

Antenna Test Report

Customer	
Project	
Antenna Revision	
Product Description	
Product No	
DATE	2023. 09. 22

Product Overview & Dimension

Front



Purpose

This report is to measure the performance of BT antenna for **S058**. The antenna operating frequency at **2.4~2.5GHz**, All test data are showed as below.

Content

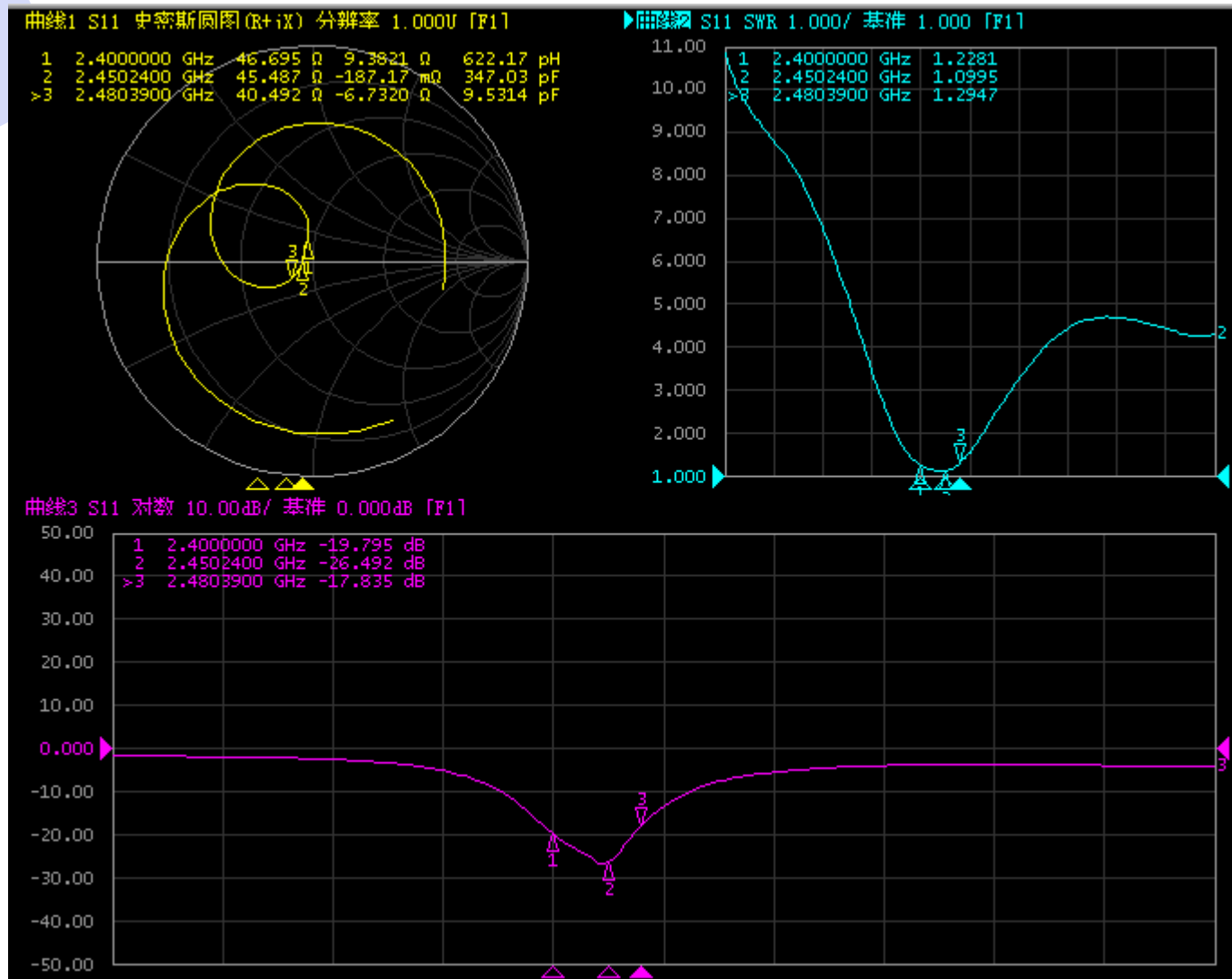
1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 S11 Parameter
 - 4.2 Test coordinate
 - 4.3 2D Pattern
 - 4.4 OTA Data
 - 4.5 BT Boot measured
5. Antenna Assembly & environmental processing

2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C

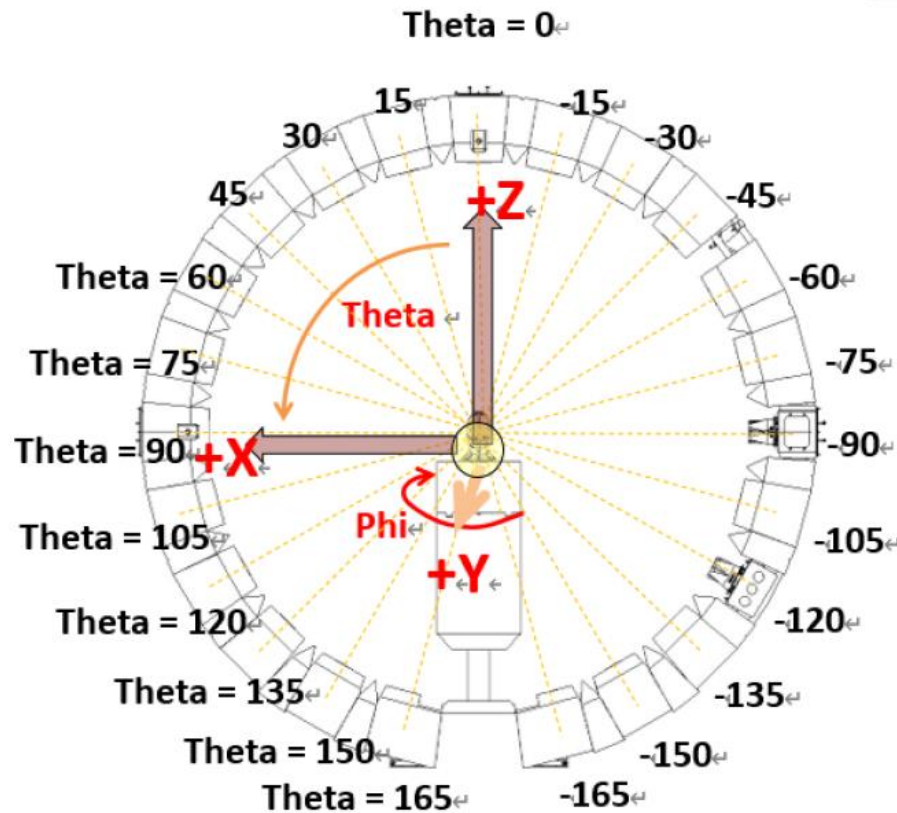


S11—(WIFI ANT)



Test Result

Sample status & coordinates



Test Result

Gain & Efficiency——WIFI- ANT

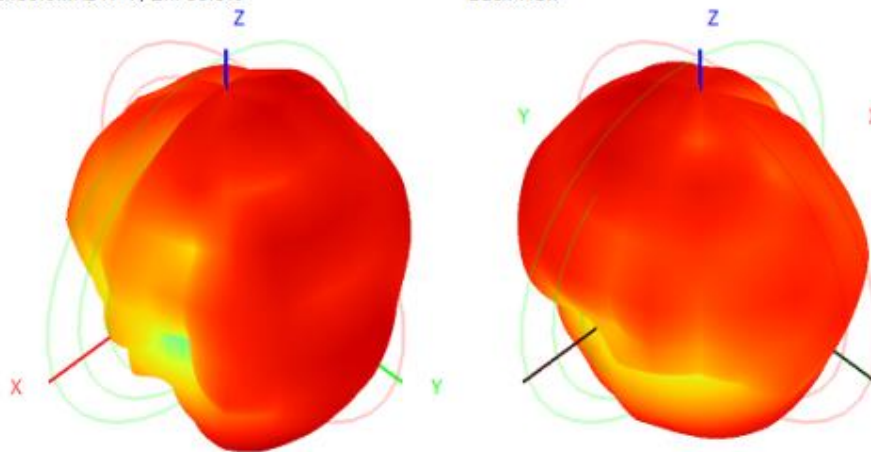
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	36.33	1.84
2410	38.46	1.96
2420	37.48	1.85
2430	38.18	1.99
2440	38.98	1.86
2450	38.99	2.44
2460	38.22	2.58
2470	38.58	2.41
2480	36.64	2.04
2490	36.34	1.83
2500	36.17	1.48

Test Result

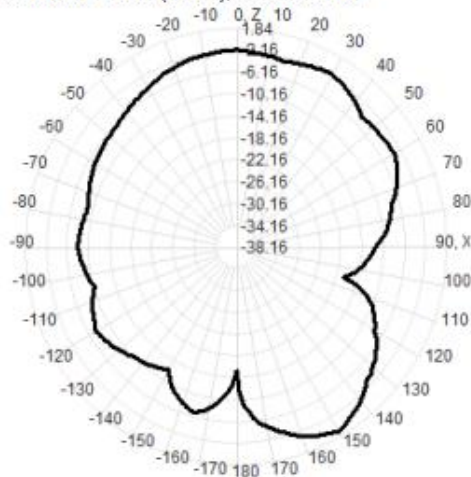
2D&3D — **WIFI- ANT**

2400.0MHz H+V, Eff: 36.3%

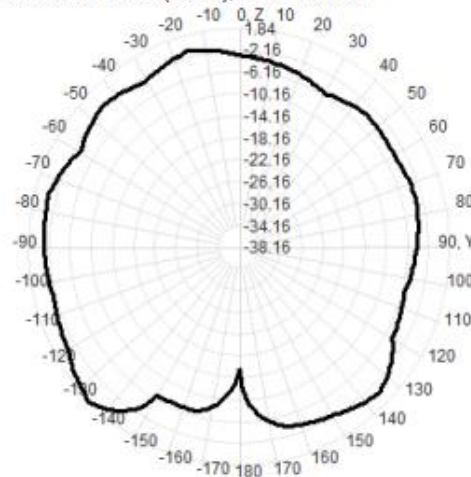
Back View



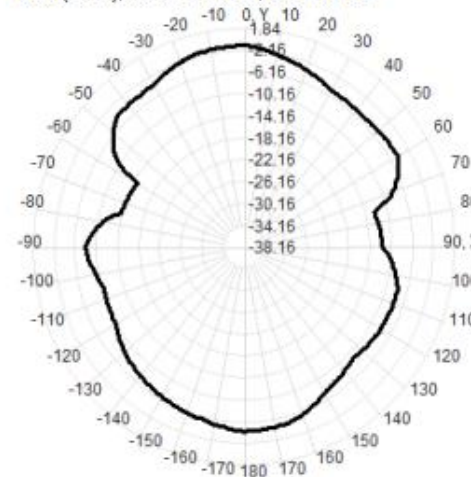
2400.0MHz Total(E1-XZ), Max= 0.52dBi



2400.0MHz Total(E2-YZ), Max= 1.84dBi



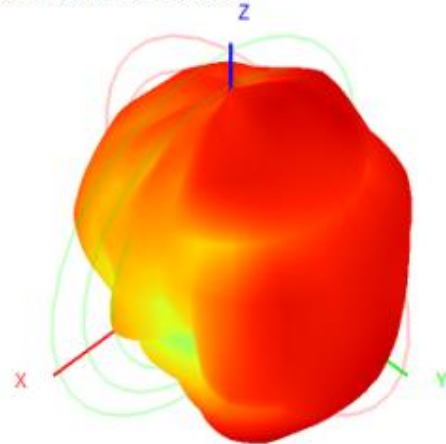
Total(H-XY), Max= -1.25dBi, CirD=13.49



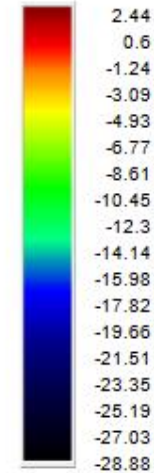
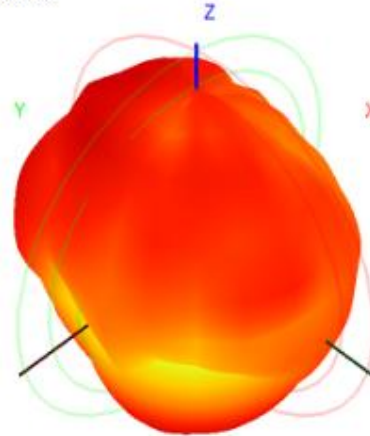
Test Result

2D&3D — WIFI-ANT

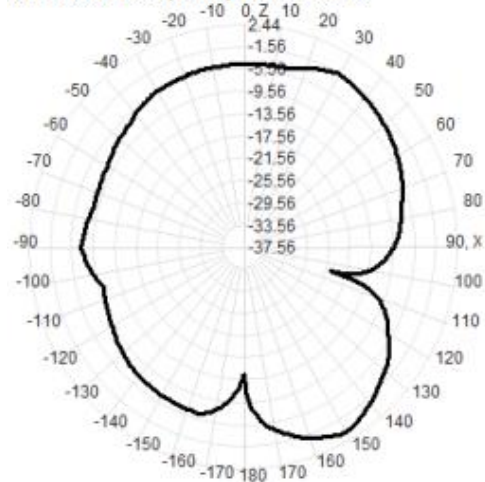
2450.0MHz H+V, Eff: 39.0%



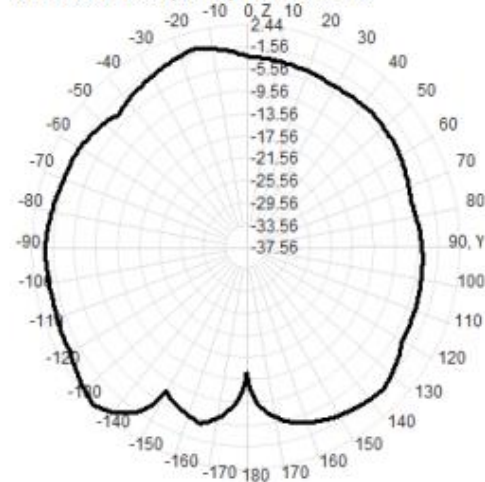
Back View



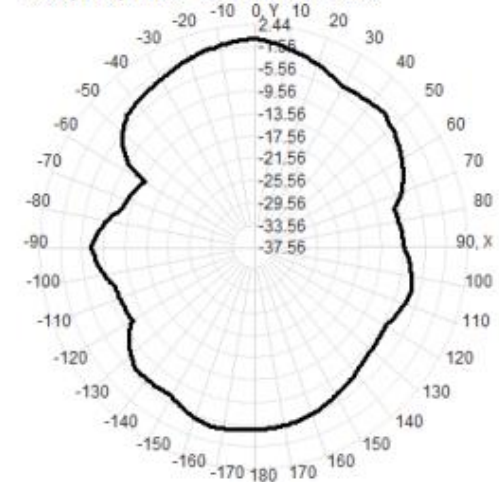
2450.0MHz Total(E1-XZ), Max= 0.72dBi



2450.0MHz Total(E2-YZ), Max= 2.44dBi



Total(H-XY), Max= -0.17dBi, CirD=13.99

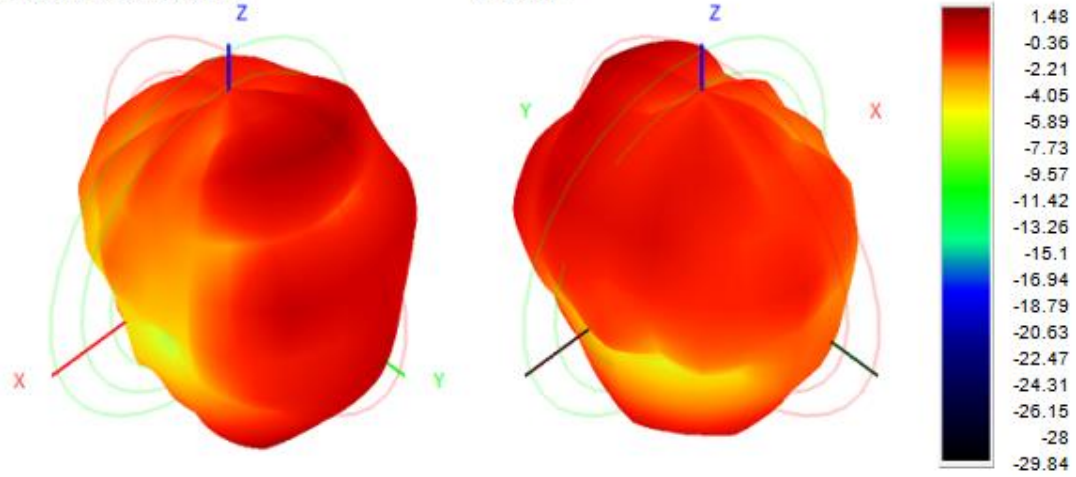


Test Result

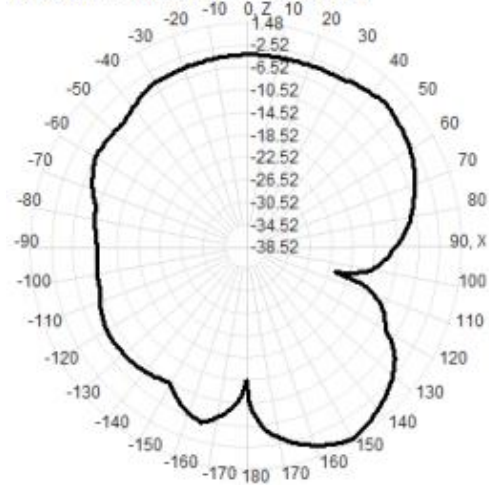
2D&3D — **WIFI- ANT**

2500.0MHz H+V, Eff: 36.2%

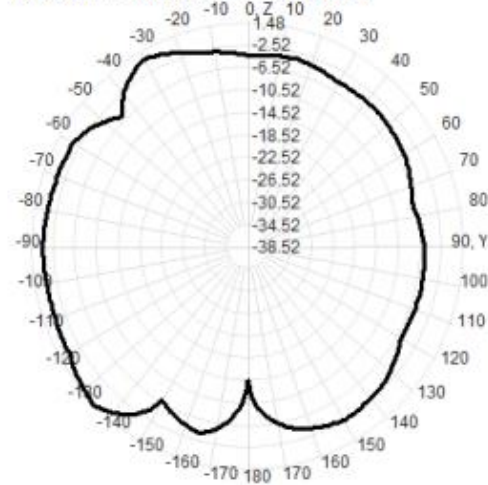
Back View



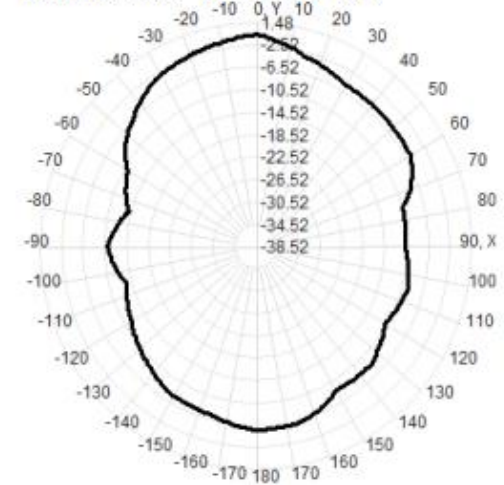
2500.0MHz Total(E1-XZ), Max= 0.99dBi



2500.0MHz Total(E2-YZ), Max= 1.48dBi



Total(H-XY), Max= -0.68dBi, CirD=13.56



Thanks for your comment!

◆ 深圳市合拓科技有限公司

◆ 深圳：深圳市宝安区西乡恒丰工业城C6栋1202B

◆ RF：胡雪文