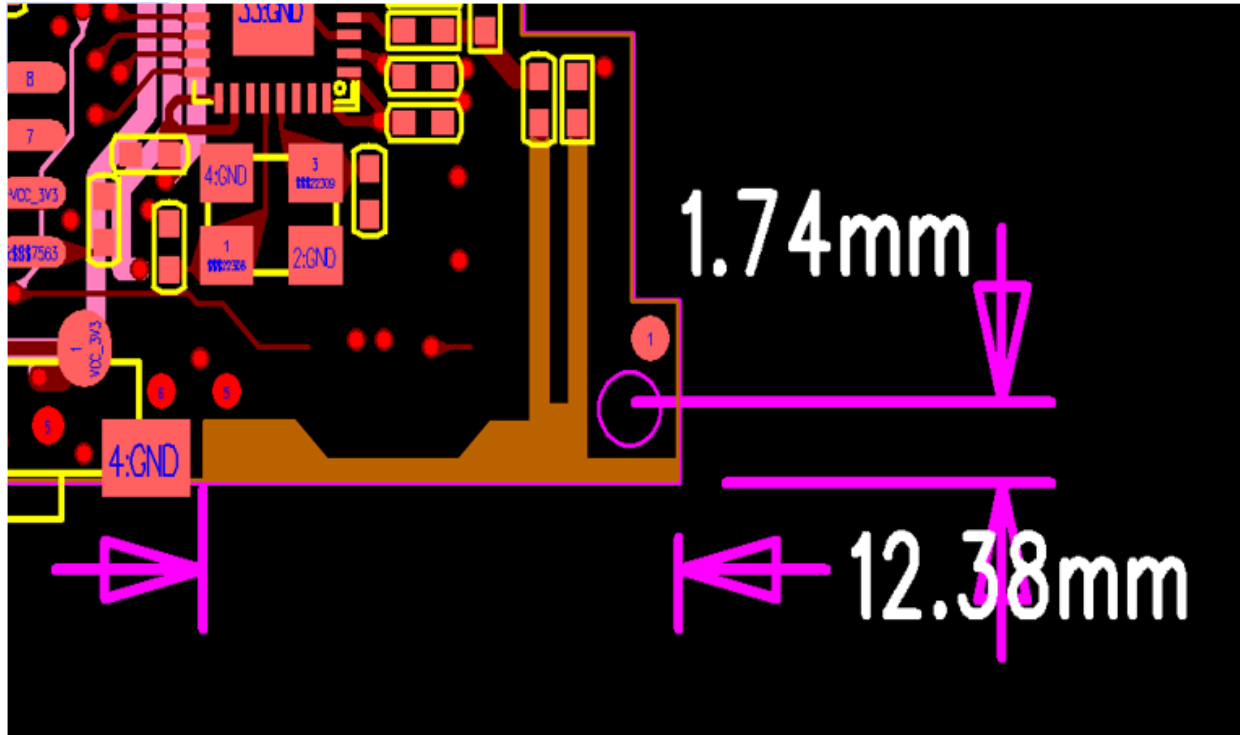


Antenna Test Report

Customer	
Project	
Antenna Revision	
Product Description	
Product No	
DATE	2025. 04. 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

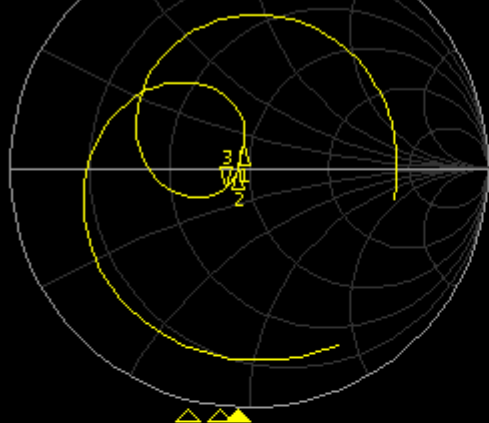
Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C



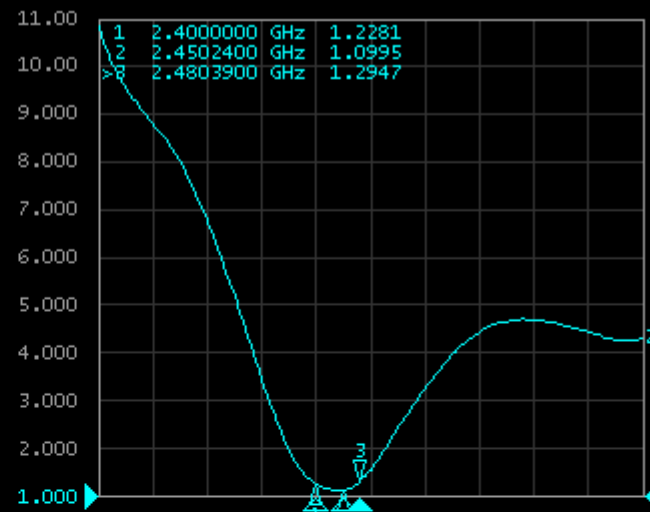
S11—(ANT)

曲线1 S11 史密斯圆图 (R+jX) 分辨率 1.000V [F1]

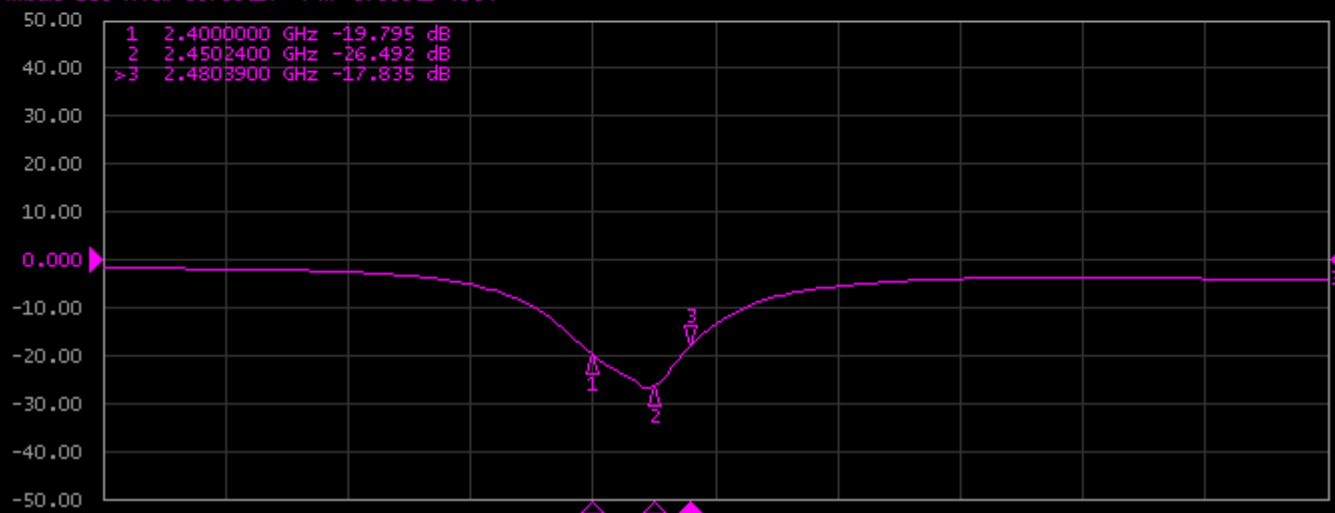
1	2.4000000 GHz	46.695 Ω	9.3821 Ω	622.17 pF
2	2.4502400 GHz	45.487 Ω	-187.17 m Ω	347.03 pF
>3	2.4803900 GHz	40.492 Ω	-6.7320 Ω	9.5314 pF



曲线2 S11 SWR 1.000/ 基准 1.000 [F1]

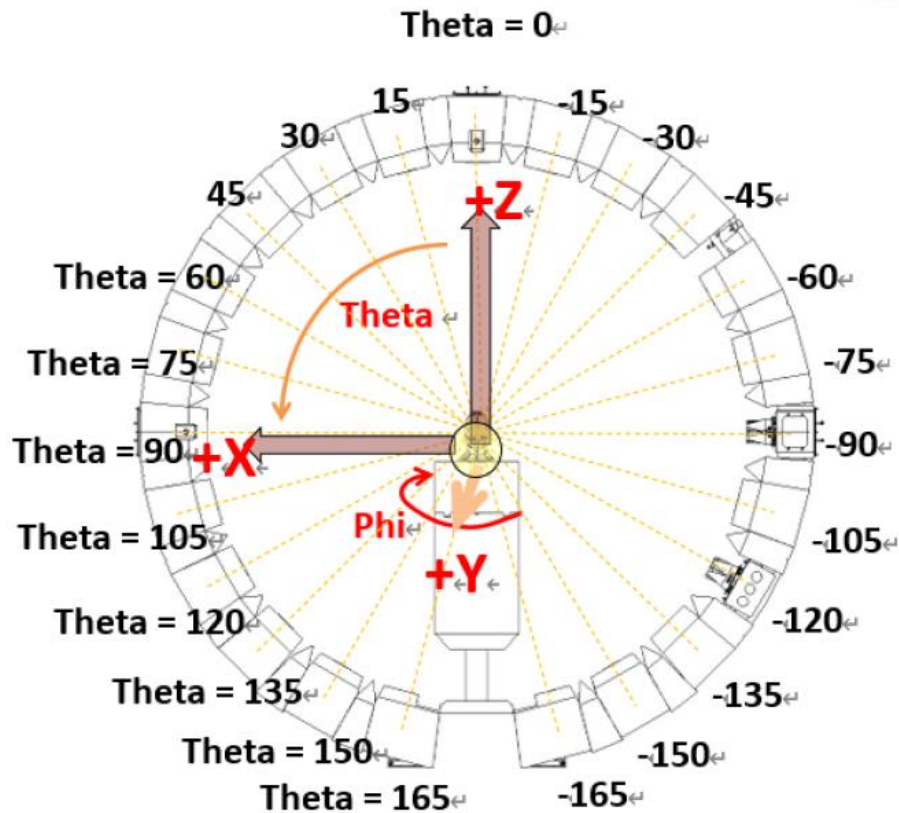


曲线3 S11 对数 10.00dB/ 基准 0.000dB [F1]



Test Result

Sample status & coordinates



Test Result

Gain & Efficiency — **ANT**

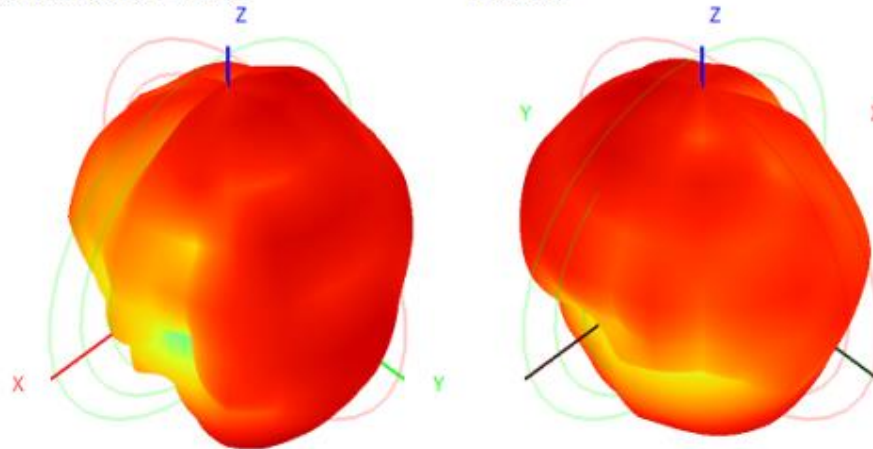
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	36.33	1.84
2410	38.46	1.96
2420	37.48	1.85
2430	38.18	1.99
2440	38.98	1.86
2450	38.99	2.44
2460	38.22	2.58
2470	38.58	2.41
2480	36.64	2.04
2490	36.34	1.83
2500	36.17	1.48

Test Result

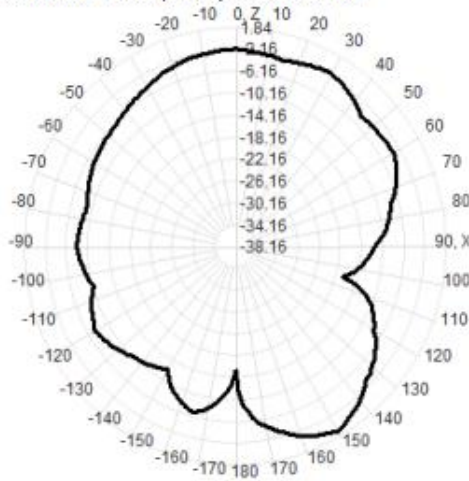
2D&3D — ANT

2400.0MHz H+V, Eff: 36.3%

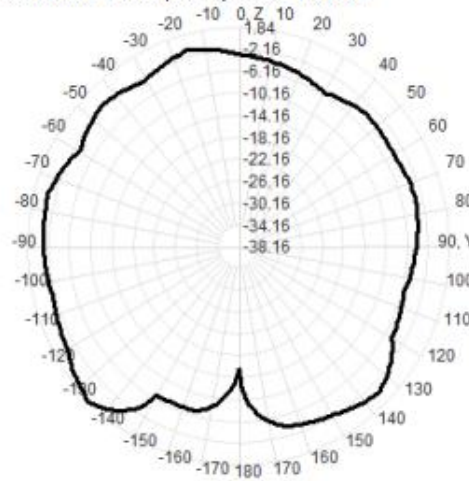
Back View



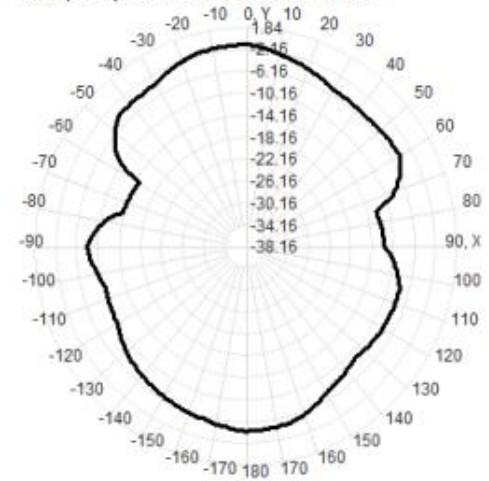
2400.0MHz Total(E1-XZ), Max= 0.52dBi



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



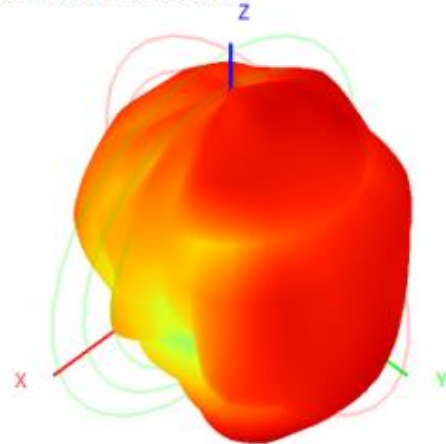
Total(H-XY), Max= -1.25dBi, CirD=13.49



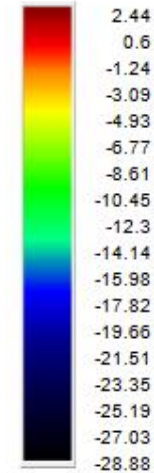
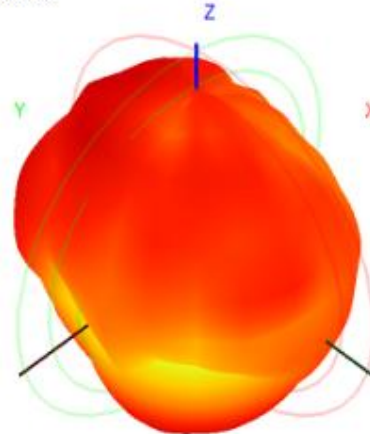
Test Result

2D&3D — ANT

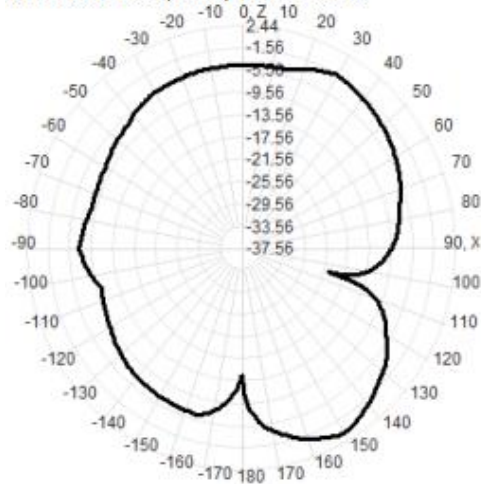
2450.0MHz H+V, Eff: 39.0%



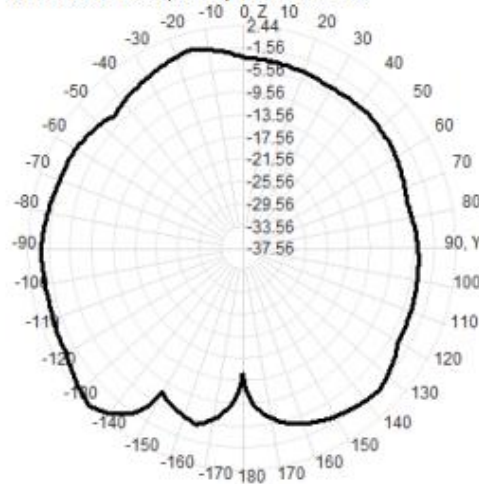
Back View



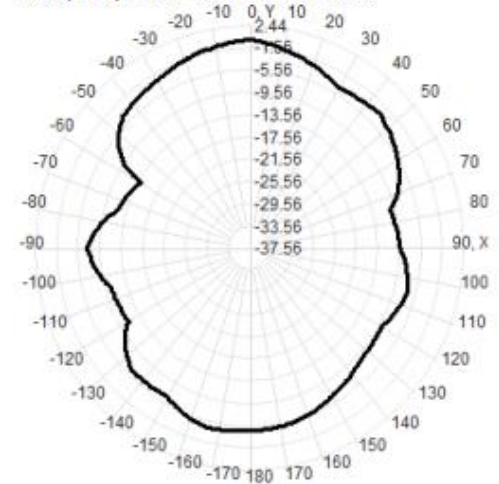
2450.0MHz Total(E1-XZ), Max= 0.72dBi



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



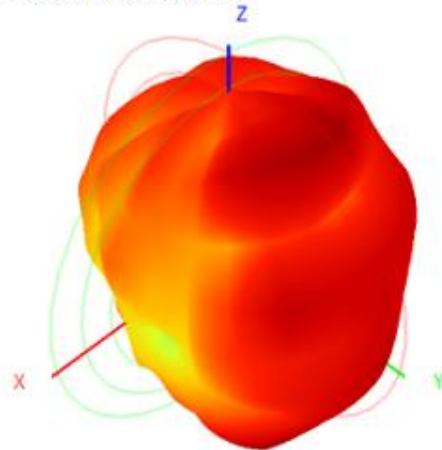
Total(H-XY), Max= -0.17dBi, CirD=13.99



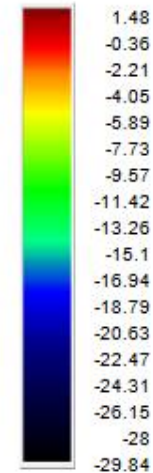
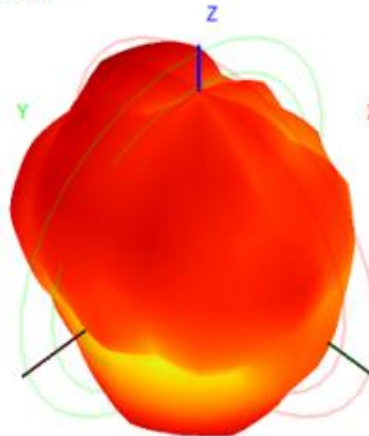
Test Result

2D&3D — ANT

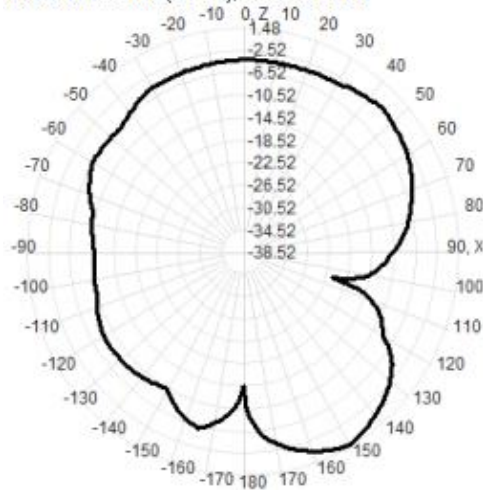
2500.0MHz H+V, Eff: 36.2%



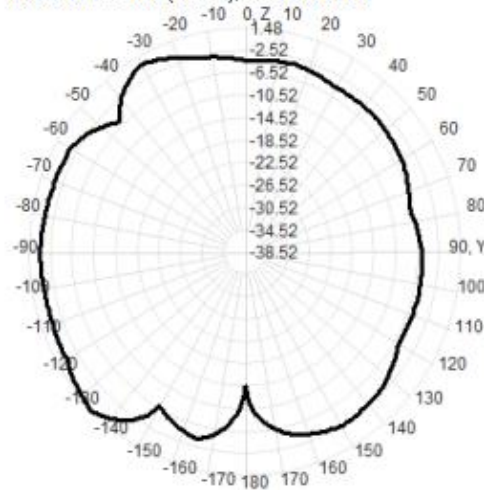
Back View



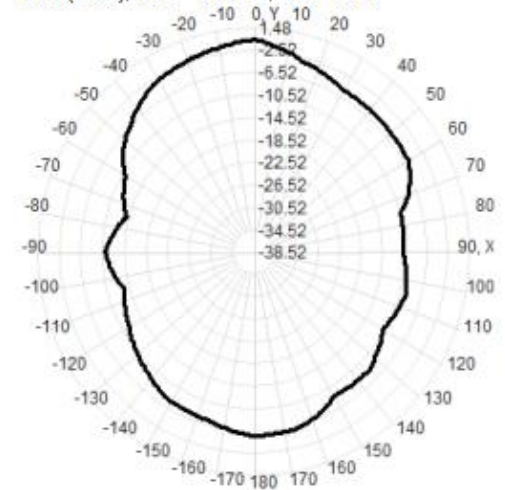
2500.0MHz Total(E1-XZ), Max= 0.99dBi



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



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



Thanks for your comment!

The slide features a white background with decorative elements in the corners. In the top-right and bottom-left corners, there are overlapping triangles in two shades of blue, creating a modern, geometric design.