

Antenna Test Report

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Project Name: 飞利浦车载
Author: 欧华
Update: 2026-04-22

项目概况

OverView

CUSTOMER NAME	宝纳生	PROJECT NAME	飞利浦车载
Items	Details		
• FREQUENCY	2400MHz-2500MHz		
• PROJECT TYPE			
• ANTENNA SPACE			
• FEED & GROUND PAD			
• SENSITIVE ELEMENTS			
• ANTENNA TYPE			
• PCB			
• OTHERS			

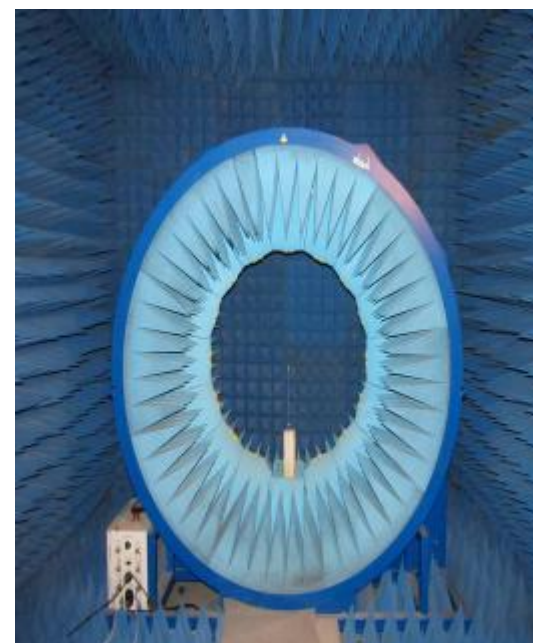
历史报告记录

Revision History

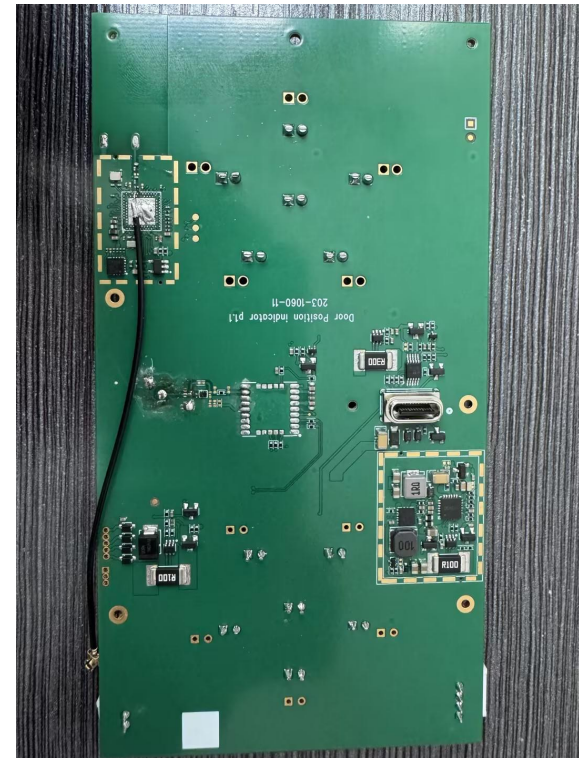
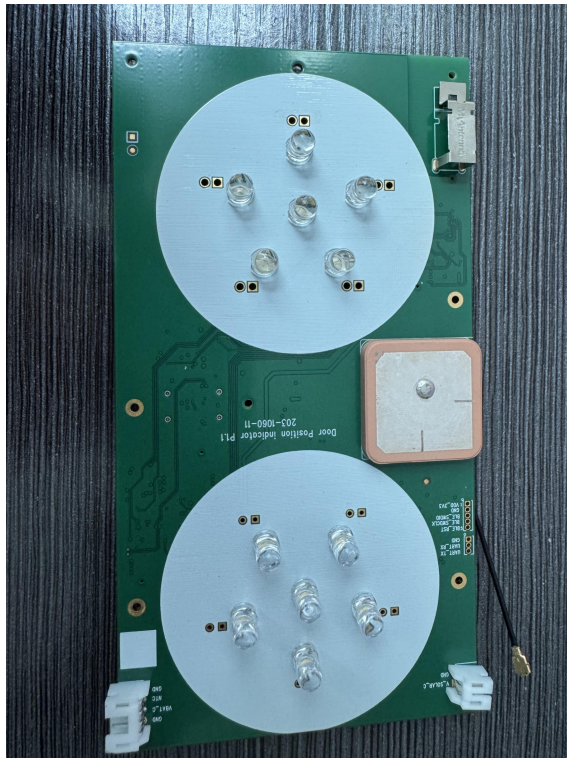
日期 (Date)	版本 (Revision)	负责人 (Author)	更改原因 (Description of changes)
2026-04-22	A	欧华	测试报告

Test Item & Equipment

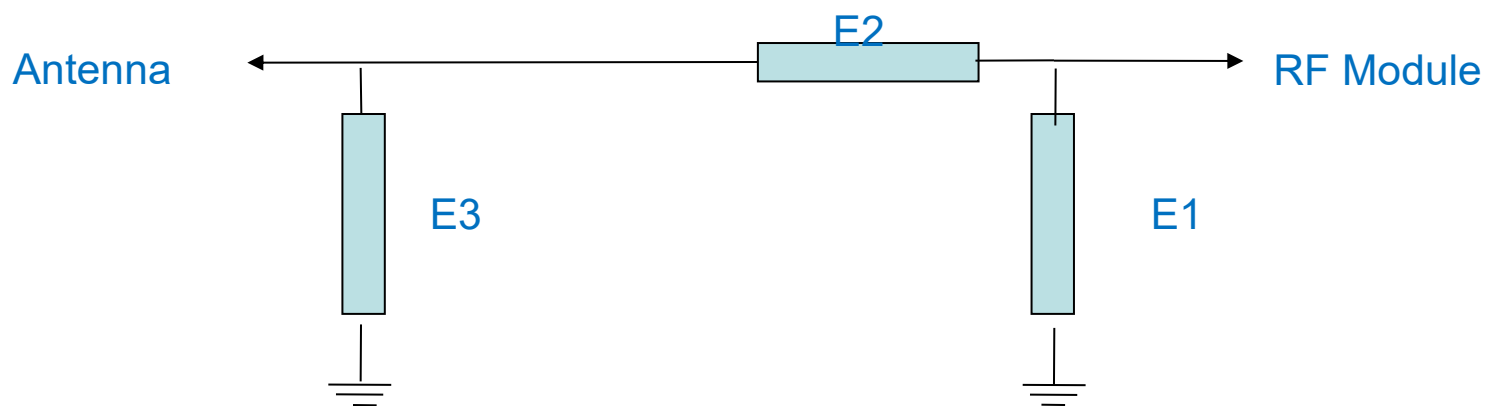
List	Test Item	Equipment	
1.S Parameter	VSWR, Return Loss	Agilent VNA	
2.Active Test	TRP, TIS	Agilent 8960	RayZone2800
3.Passive Test	Gain, Efficiency, Pattern	Agilent E5071C	



整机图片



Matching Circuit



Element	Value
E1(0402)	NC
E2(0402)	2.7pF
E3(0402)	4.3nH

2026-4-22

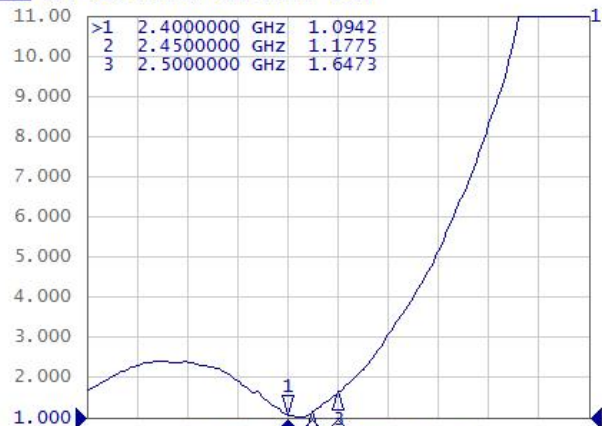
天线无源数据

E5071C Network Analyzer

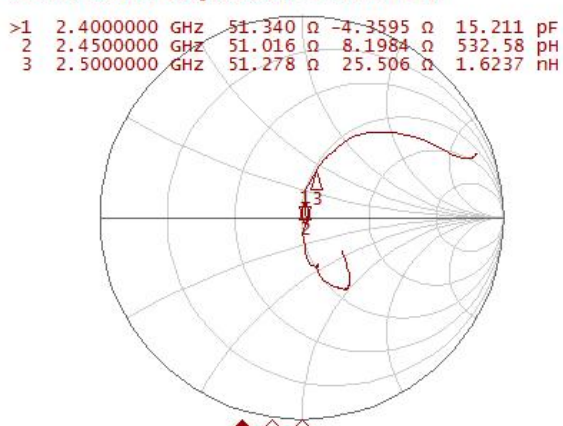
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize

Tr1 S11 SWR 1.000/ Ref 1.000 [F1]



Tr2 S11 Smith (R+jX) Scale 1.000U [F1]



Tr3 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]



1 Start 2 GHz

IFBW 70 kHz

Stop 3 GHz PExt C?

Hold Stop ExtRef Svc 2026-04-10 19:22

Trigger

Hold

Single

Continuous

Hold

All Channels

Continuous

Disp Channels

Trigger Source

Internal

Trigger Event

On Sweep

Trigger Scope

All Channel

Restart

Trigger

Ext Trig Input

Negative Edge

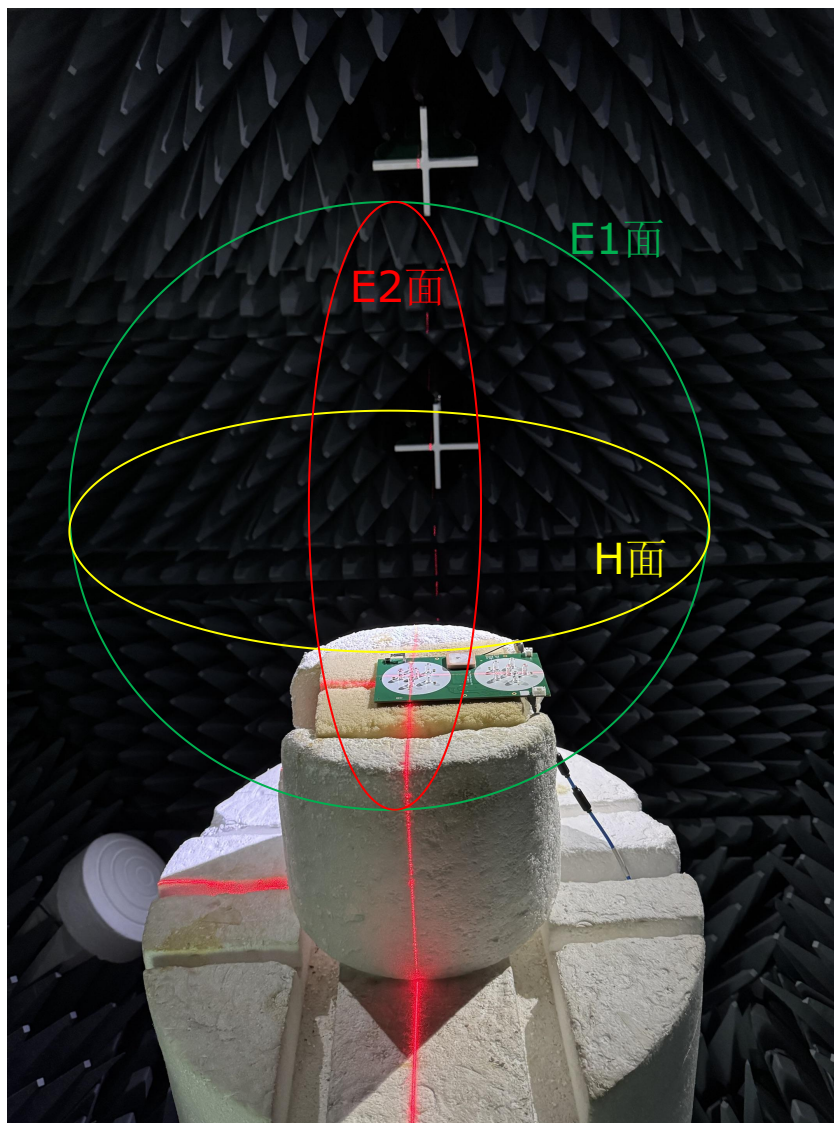
Trigger Delay

0.0000 s

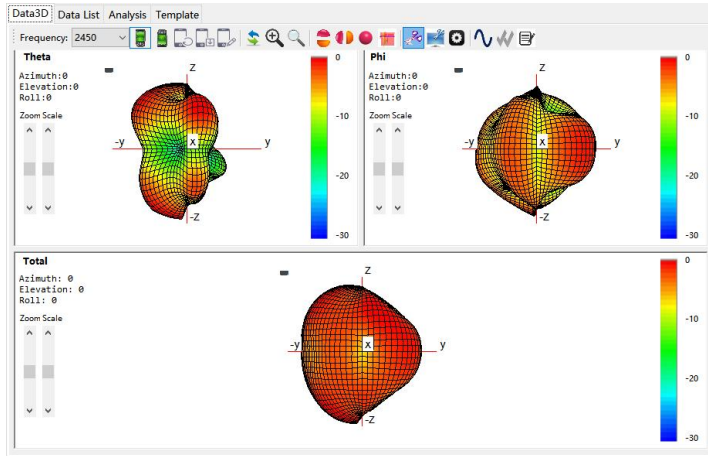
天线无源数据：

Freq (MHz)	Gain (dBi)	Efficiency (%)
2400	0.86	52.69
2410	0.84	52.17
2420	0.74	52.75
2430	0.9	55.62
2440	1	57.76
2450	1.19	60.11
2460	1.23	61
2470	1.19	61.26
2480	1.13	61.25
2490	1.04	60.65
2500	1.07	59.95

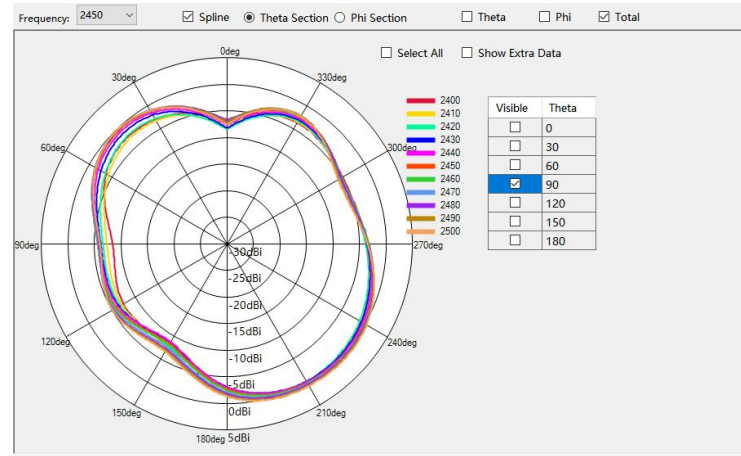
天线暗室测试坐标示意图



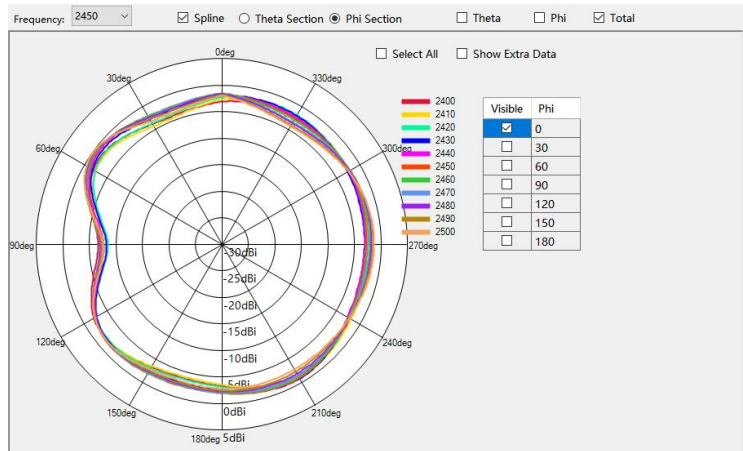
天线2D/3D方向图（2450MHz）



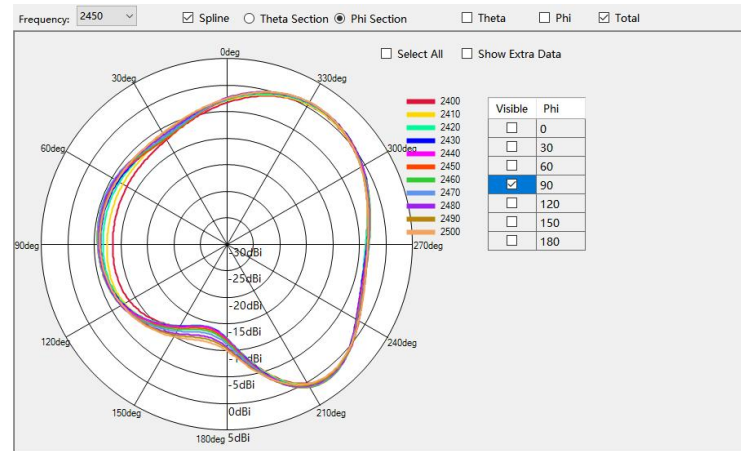
3D



H



E1



E2