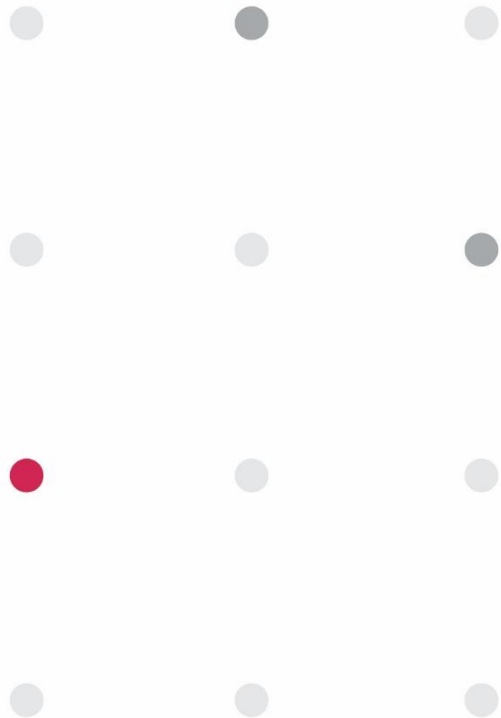


PSA

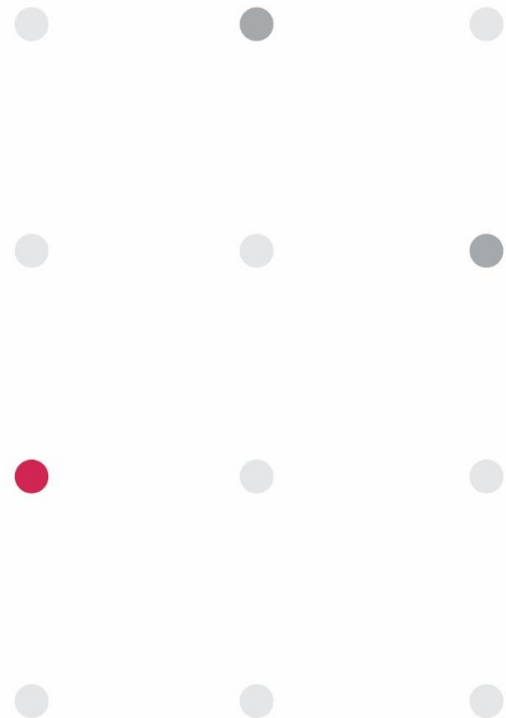
佳邦科技股份有限公司

INPAQ TECHNOLOGY CO., LTD.



PSA

PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.



迪芬尼Grand Cherokee 项目天线测试报告

Presented by: fuhang.niu, 华南研发

Checked by :Apple_Zhao

Approved by :Kevin_Yang

INPAQ Technology Co., Ltd.

Last updated in Mar.6th, 2023

Contents

- Revised History
- Requirement of Antenna Design and Measurement
- Antenna Placement & Solution
- VSWR & Return Loss Results
- Test Setup for Radiation Pattern Measurement
- 2D、 3D Radiation Pattern Results
- Results Summary (peak gain , efficiency)
- Conclusion

Revision History

Released Date	Version	Record
Dec.14 th ,2023	V0.0	首版调试
Mar.6 th ,2023	V0.1	新版机台调试

Requirements of Antenna Design and Measurement

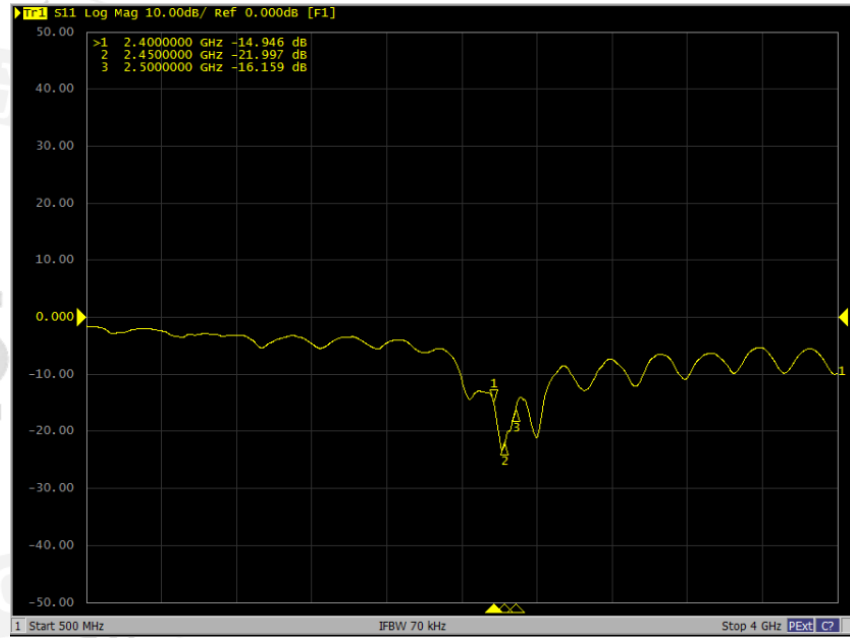
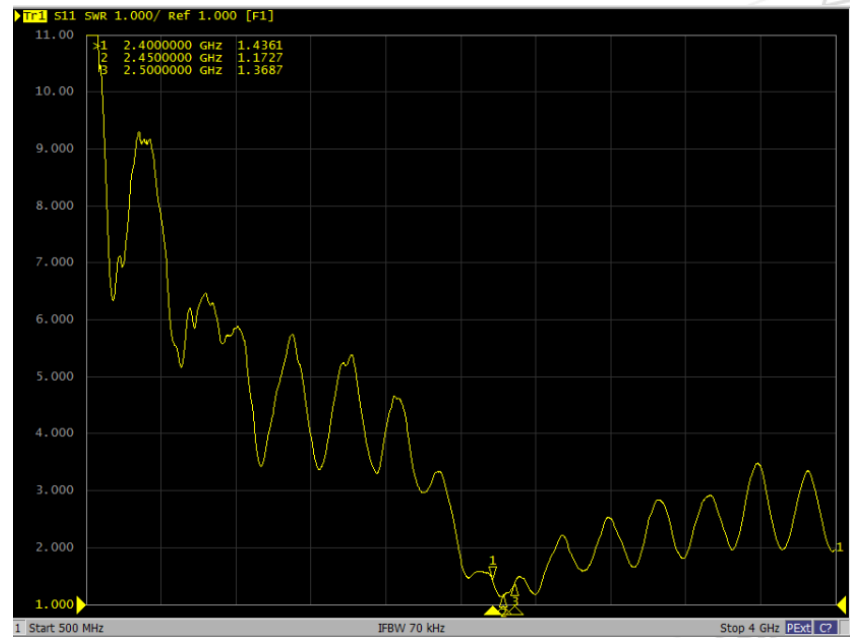
Requirements of Antenna Design

RF Function	Number of ANT	Frequency Band	Remark
BT	1	2400 –2500MHz	

Requirements of Measurement

Test Item	Specification	Remark
VSWR	N/A	
Peak gain	N/A	
Efficiency	N/A	
Isolation	N/A	

VSWR & Return Loss Results



Test Setup for Radiation Pattern Measurement

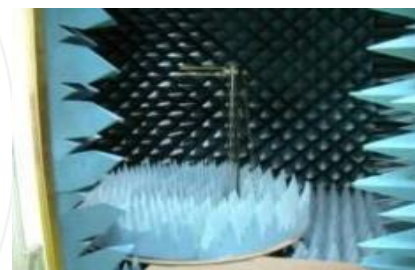
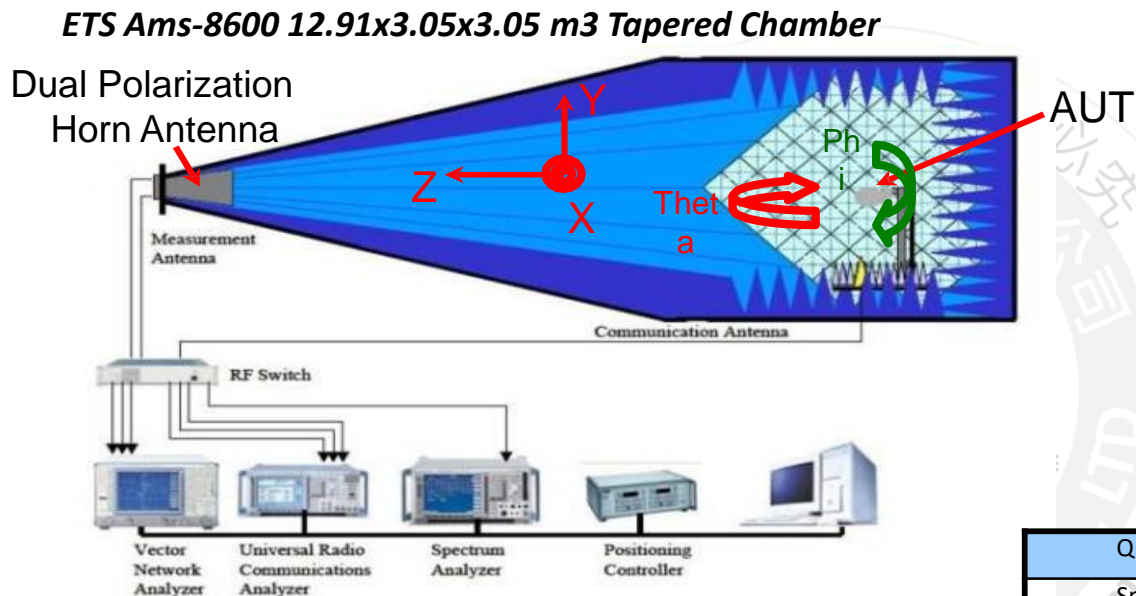
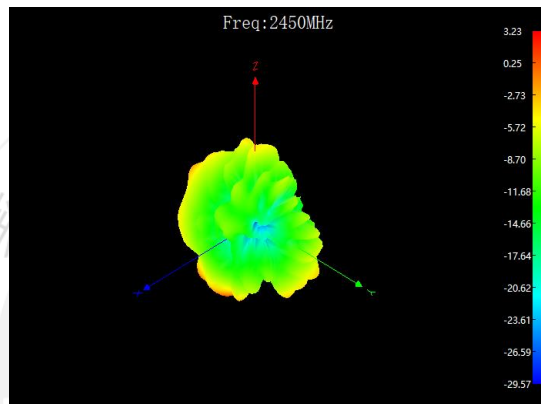


Figure 1: System diagram for test system including compact-size tapered anechoic chamber and optional test instrumentation

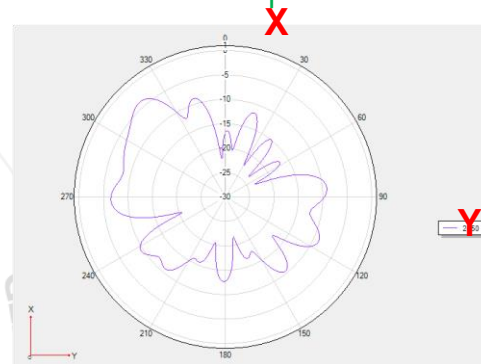


QUIPMENT	BRAND	MODULE TYPE
Spectrum	Agilent	E4402B
Signal Generator	Agilent	8960
Switch	Agilent	3499A
Switch	ETS	2090
Network Analyzer	Agilent	N5230A

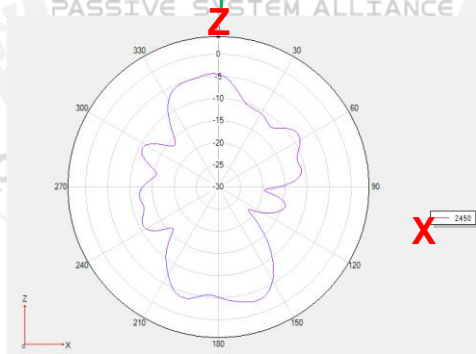
2D/ 3D Radiation Pattern Results



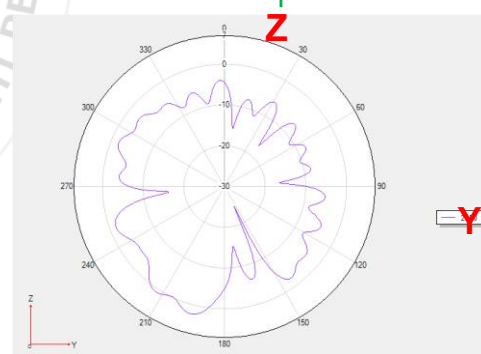
XY-H-plane



XZ-E1-plane



YZ-E2-plane



Results Summary-Peak Gain & Efficiency

Frequency (MHz)	BT		
	Efficiency / (dB)	Efficiency / (%)	Peak Gain (dBi)
2400	-2.64	54.45	3.27
2410	-2.67	54.08	3.47
2420	-2.6	54.95	3.86
2430	-2.62	54.7	3
2440	-2.62	54.7	3.16
2450	-2.54	55.72	3.23
2460	-2.53	55.85	4.02
2470	-2.56	55.46	3.93
2480	-2.62	54.7	3.76
2490	-2.55	55.59	3.75
2500	-2.72	53.46	3.46

Conclusion

1. 天线调试性能如下:

天线	BT
效率 (AVG) dB	-2.6

2. 调试后天线效率在**50%**以上, 后续以贵司最新需求进行天线调测并更新报告。

以上请知悉, 感谢!

Thank you

本資料均屬機密，僅供指定之收件人使用，未經寄件人許可不得揭露、複製或散佈本信件。

This message and any attachments may be legally privileged. Any unauthorized review, use or distribution by anyone other than the intended recipient is strictly prohibited. If you are not the intended recipient, please immediately notify the sender, completely delete this documents, and destroy all copies. Your cooperation will be highly appreciated.