
Antenna Gain Test Report

Client Name: Huizhou Desay SV Automotive Co., Ltd.

Client Address: 103, Hechang 5th Road West, Zhongkai National
Hi-tech Industrial Development Zone, Huizhou,
Guangdong, P.R. China

Product Name: *CAR MULTIMEDIA*

Manufacture: Huizhou Desay SV Automotive Co., Ltd.

Antenna Type: PCB

Antenna Size: BT 8*25MM , WIFI 8*13mm

Project Engineer: Huang Zongchao

Test Standards: ANSI/IEEE Std149-2021

Test Result: *PASS*

Issued Date: 2023.3.1

1 Test Equipment Information

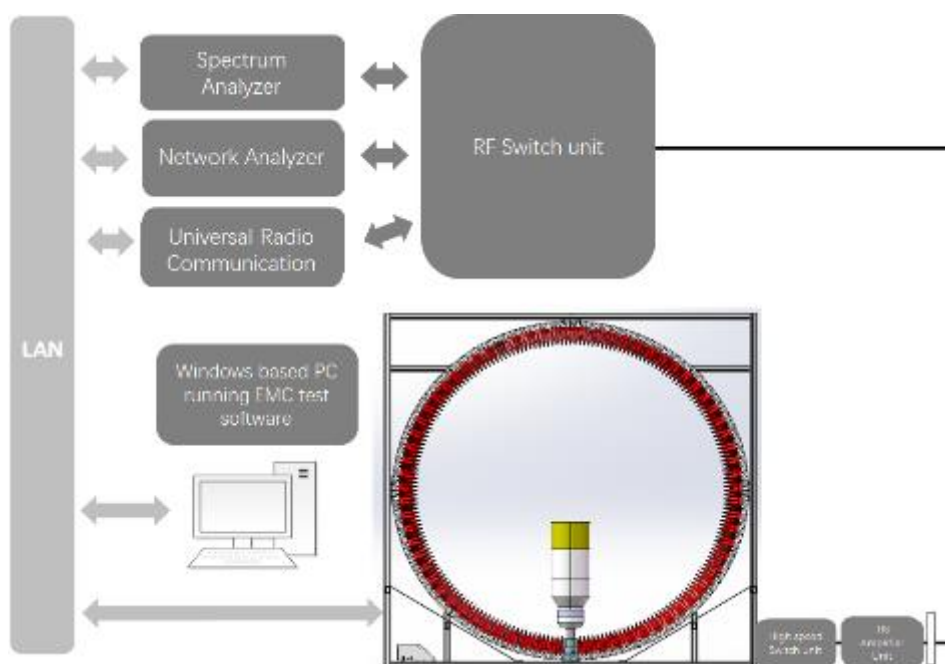
Equipment	Manufacturer	Mode No.	Serial No.	Cal date	Cal Due
Test Chamber	Beijing Hwa-Tech Information System Co., Ltd	WrlessLab-72	Z6102211215001	/	/
Test Software	ETS-Lindgren	EMQuest V1.12	1496	/	/
Network Analyzer	ROHDE&SC HWARZ	ZNB Vector Network Analyzer 100kHz-20GHz	/	2022.07.27	2023.07.27
Notebook fixture	ETS-Lindgren	/	/	/	/
Pad fixture	ETS-Lindgren	/	/	/	/

2 Test Method

2.1 Test Standard and Test Method:

Name	Parameter	Method	Standard no.
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149- 2021

2.2 Test equipment:



2.2 Lab Name: Huizhou Desay SV Automotive WirelessLab

2.3 Lab Address: No.6, Huitai North Road, Huinan Technology Park, Huizhou, Guangdong, P.R. China

2.3 Tester: Wei Haihong

2.5 Test date: 2023-02-24

3 Test Temperature and Humidity

Temperature: 25.0°C

Humidity: 65%

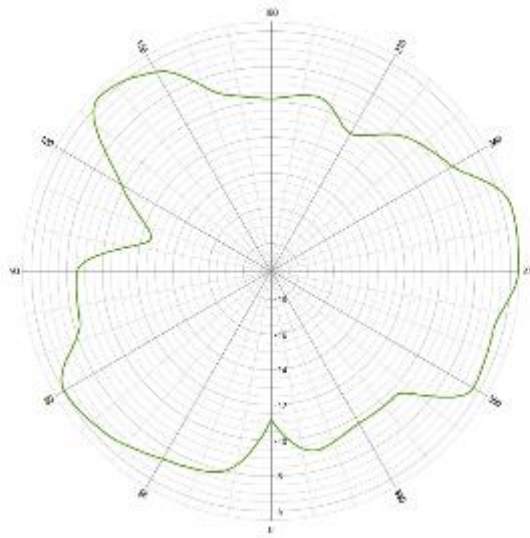
4 Test Result

WIF Antenna		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	21.45	-0.759
2444	22.58	-0.835
2448	21.47	-0.906
2484	15.84	-2.07
5150	22.98	0.372
5500	24.45	1.049
5850	16.14	-0.123

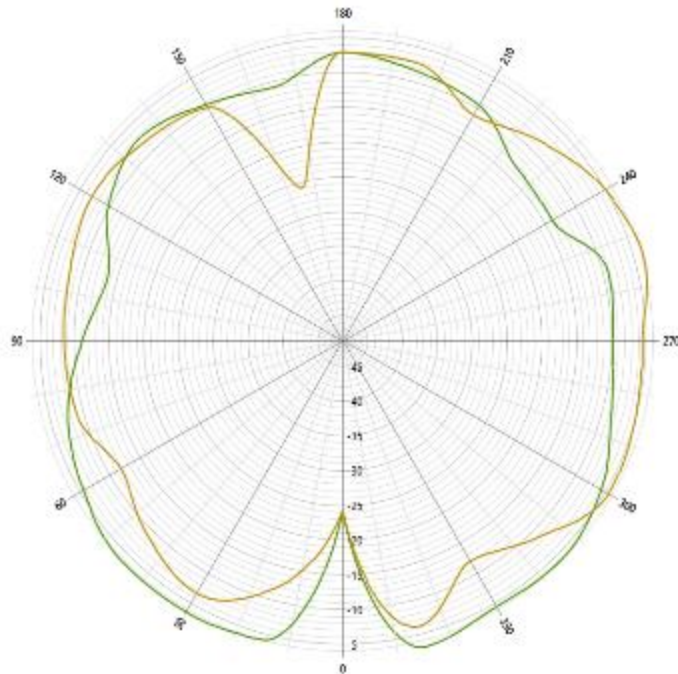
BT Antenna		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	17.98	-2.241
2440	18.15	-1.775
2444	18.91	-1.9
2484	18.58	-1.336

5 Polarization Pattern Photos

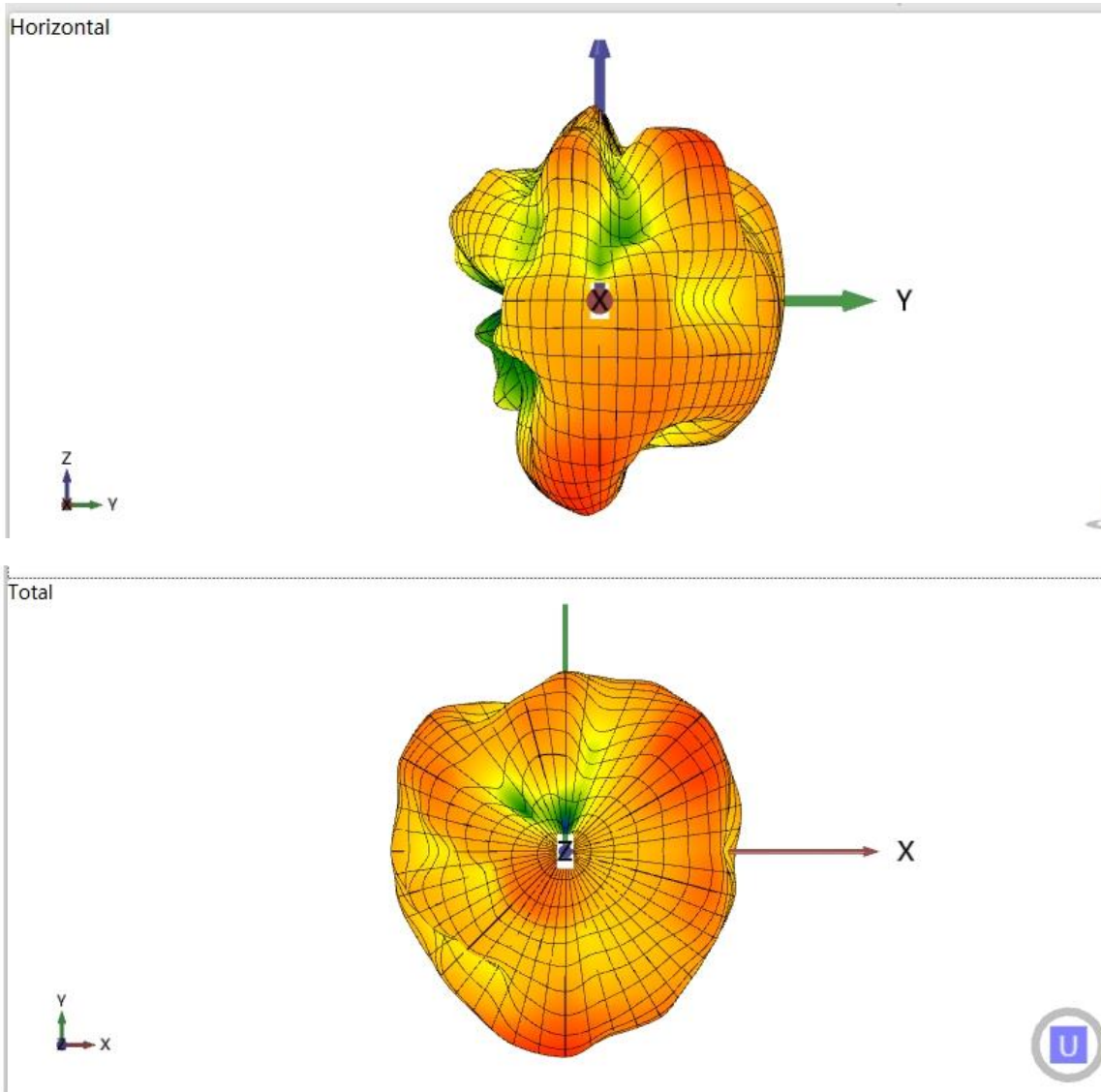
Theta Polarization(Theta Angle=90°)



Phi Polarization(Theta Angle=90°)



Total 3D Plot(Fre.2500MHz)



END OF REPORT