Liteon_IC_80A

FCC Report_ Wifi

Date of Report:	2023/10 /02
Dept. :	WCB , Auden Techno Corp.
Prepared by:	Hank Li

Report History

Date	Rev.	Phase	Description
2023-10-02	Rev00	RFQ	FCC Repot for Wifi Antenna

Content

- Antenna Introduction
- Antenna Performance

Antenna Introduction

Information of Wifi Antenna

Date of Report	: 2023-10-02
Model No.	: IC_80A
Antenna Model Name	: D32787-00
Department	: WCB, Auden Techno Corp.
Prepare By	: Hank Li
Antenna Type	: Dipole
Assembly	: PCB + Coaxial Cable
PCB	: FR4
PCB Size	: 51mm x 20mm x 0.4mm

Freq. Range	2400~ 2500MHz
Peak Gain	3.3dBi
Connector	IPEX I
Impedance	50Ω

Antenna Performance_ WLAN Antenna

Test Lab Environment Conditions

Temperature	20℃ to 28℃
Humidity	30% to 70%

Test Equipment List

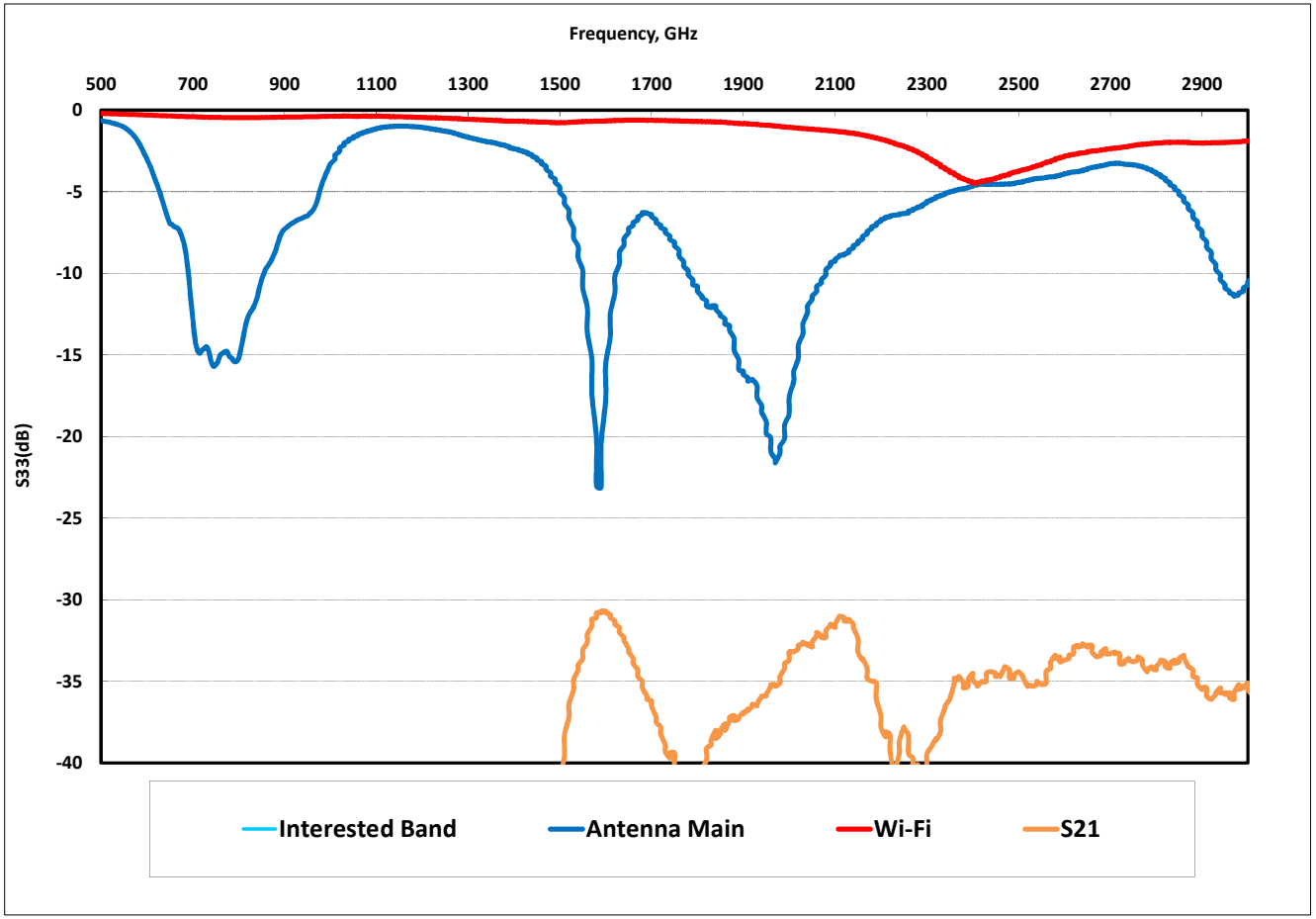
Type of Equipment	Model Number	Calibration Due Date
Antenna Chamber	GTS2800	14 May 2024
Vector Network Analyzer	Agilent Technologies E5071B	14 May 2024

Test Date: 2023/03/06
Issued: 2023/03/06
Test Location: No. 19, Lane 772, Heping Road, Bade District, Taoyuan City, 334

Test Procedure

Device Under Test mounted on Antenna Chamber turntable as shown in Appendix A. Measurements, including conducted power, TRP, and Peak EIRP and obtained by the TS8991 test system across low, mid and hi portions of the frequency band and across a 360 degree sphere. Peak antenna gain is determined from the maximum EIRP measured across the sphere with respect to the conducted power.

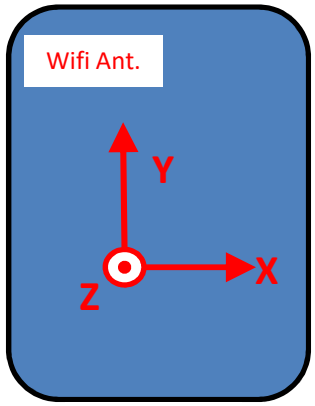
Wifi_ S11


Frequency, GHz
500
700
900
1100
1300
1500
1700
1900
2100
2300
2500
2700
2900
0
-5
-10
-15
-20
-25
-30
-35
-40
S33(dB)
Interested Band
Antenna Main
Wi-Fi
S21

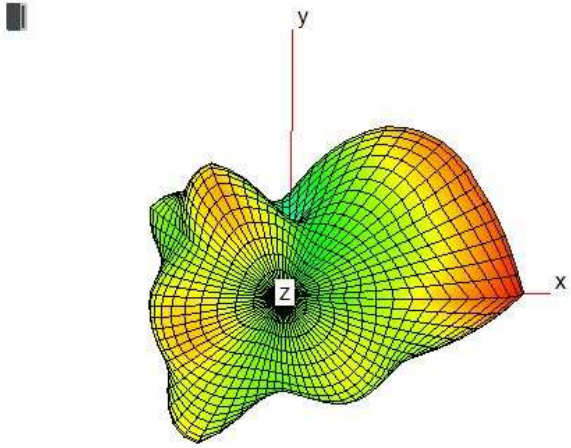
Wifi_ Efficiency

Chamber	Auden GTS Chamber		
Antenna	2019-04-02		
	Wi-Fi		
Freq (MHz)	eff (dB)	peak gain	eff (%)
2400	-3.0	3.3	49.7
2448	-2.8	3.2	52.5
2500	-3.5	3.0	45.1

Wifi_ 3D Radiation Pattern



Top view



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