

Pelican BT Antenna report

Testing Company: Tonly Technology Co., Ltd.

Address: Section 37, Zhongkai High-tech Development Zone, Huizhou
City, Guangdong Province, 516006 China

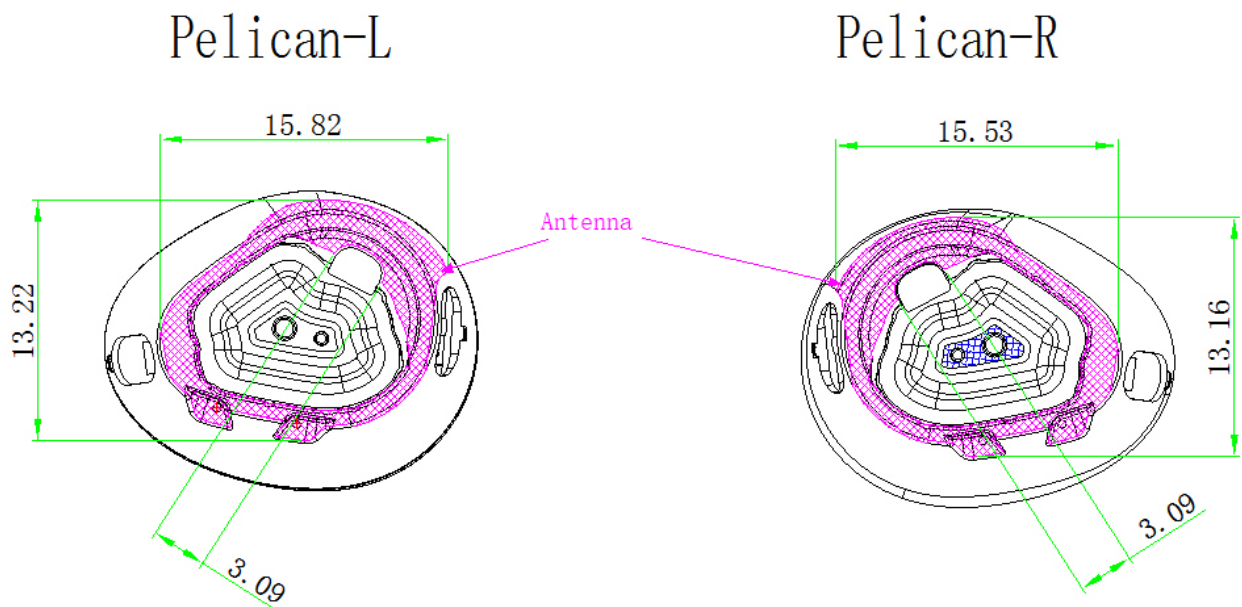
Test Engineer: xiaoyu ye

Check: qin cai

Date:2023-01-03

Versions: 1.0

一、Antenna Size



二、Antenna photo (Please refer to Antena photos document)

三、Test setup photo (Please refer to Antena photos document)

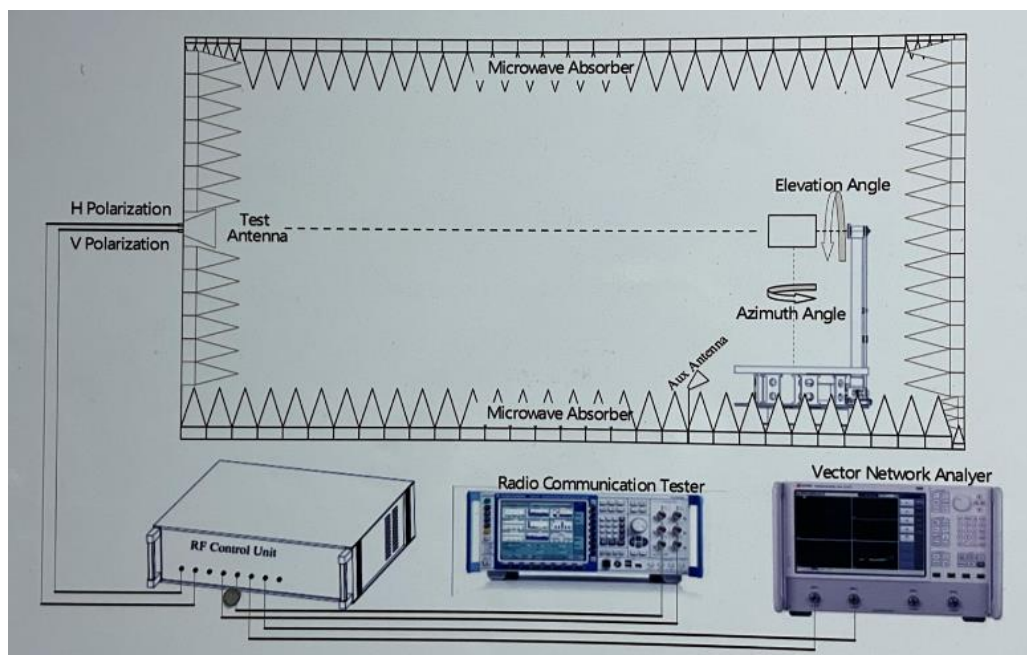
四、Test standard

Name	Parameter	Method	Standard no.
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979

五、Equipment list

Equipment	Manufacturer	Model No	Serial No.	Last Cal.	Due Date
Network Aanlyzer	Agilent	E5071C	MY46630767	2022. 4. 28	2023. 4. 27

六、Test configuration diagram



Test step flow:

- 1) Maintain the test ambient temperature of 23 ± 2 C, the instrument is powered on and preheated for more than 30 minutes;
- 2) Turn on the darkroom power supply, connect the test cable, and set up the sample according to the standard;
- 3) Outline sets the test content objectives and conducts calibration tests;
- 4) Run the software, when the test is completed, export the corresponding test diagram and test data, and save to the corresponding directory.

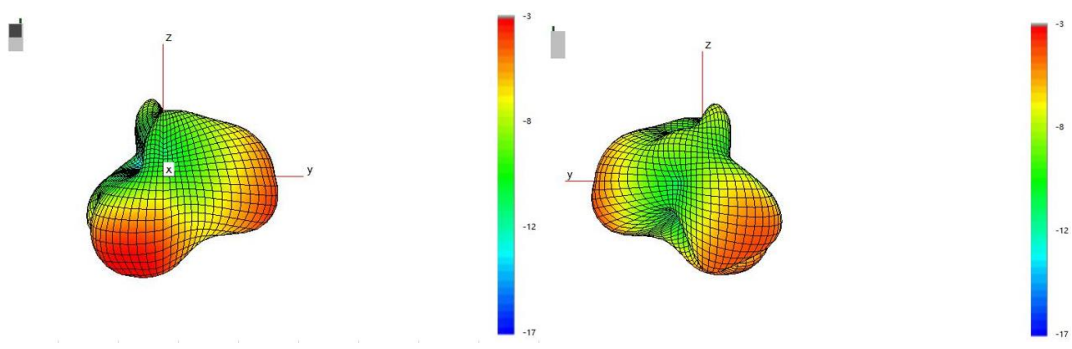
七、Antenna gain

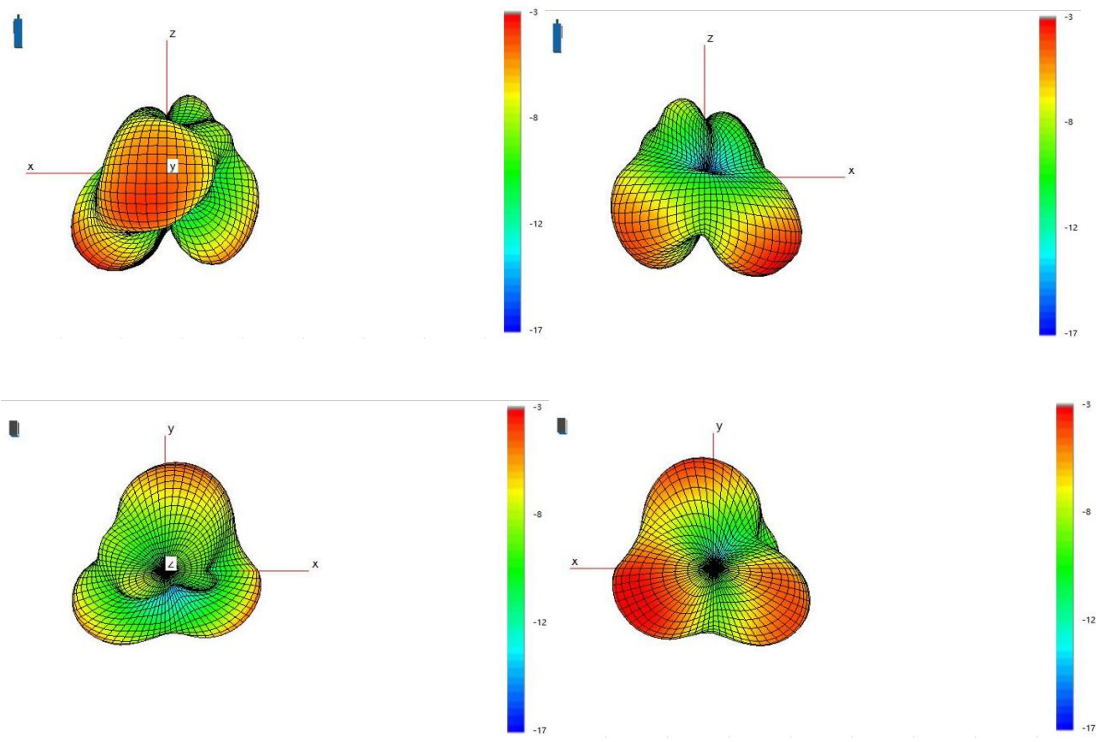
Left -BT Antenna Passive Test			
Freq(MHz)	Gain(dB)	Efficiency(dB)	Efficiency(%)
2400	-3.08	-7.61	17.34
2410	-3.26	-7.58	17.47
2420	-3.30	-7.61	17.35
2430	-3.45	-7.68	17.04
2440	-3.45	-7.69	17.02
2450	-3.24	-7.51	17.73
2460	-3.08	-7.29	18.64
2470	-3.00	-7.17	19.18
2480	-3.19	-7.19	19.11

Right -BT Antenna Passive Test			
Freq(MHz)	Gain(dB)	Efficiency(dB)	Efficiency(%)
2400	-3.92	-7.93	16.12
2410	-3.91	-7.95	16.04
2420	-3.89	-7.93	16.09
2430	-3.89	-7.93	16.12
2440	-3.76	-7.82	16.51
2450	-3.58	-7.63	17.27
2460	-3.44	-7.49	17.82
2470	-3.36	-7.37	18.30
2480	-3.21	-7.36	18.36

八、Antenna test data

Left- Antenna





Right- Antenna

