

Antenna Specifications

FCC ID: 2AEUPBHAIC021

IC ID: 20271-BHAIC021

Model Number: 5CFYAB

Antenna Manufacturer's name	Speed
Antenna Manufacturer's Address	No.99 , Weixin Road , SIP , Suzhou , Jiangsu Province, China
Antenna Pattern	PIFA

Antenna Part Number: It's printing antenna on PCB, no part number for it.
Test date:2025/07/25

Frequency range of operation:

- Wi-Fi/BLE: 2400~2500MHz

Antenna type: PIFA

Antenna gain:

- Wi-Fi: 2.3dBi

Lab name: Speed

Lab address: No.99 , Weixin Road , SIP , Suzhou , Jiangsu Province , China

Measurement test method: Passive

Test equipment: ETS8500

Calibration due: 2026.7.20

OTA chamber: GTS-2800

Test engineer: Gao zhen hao

Equipment setup:



Software used:EMQuest

Test set-up:

- 1.Place the DUT at the center of the turntable,
- 2.Connecting the test cable to the DUT, and use the EMQuest software for passive measurement.
- 3.During the measured process, ETS8500 will conduct radiation testing with the DUT through a horn antenna; then the turntable will rotate a horizontal 180- degree.
4. After, a complete measurement of spherical 3D is completed.

Setup photograph:

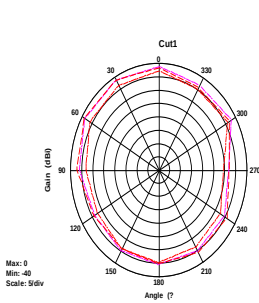
	Effi AVG	Peak gain
	-3.1	2.3
Frequency (MHz)	Tot. Rad. Pwr. (dBm)	Gain (dBi)
2400	-4.3	-0.4
2410	-3.7	0.1
2420	-3.3	0.5
2430	-3.2	1.0
2440	-3.0	1.4
2450	-2.7	1.8
2460	-2.7	2.1
2470	-2.6	2.3
2480	-2.8	2.3
2490	-2.8	2.2
2500	-2.9	2.1

Antenna radiation pattern: Linear

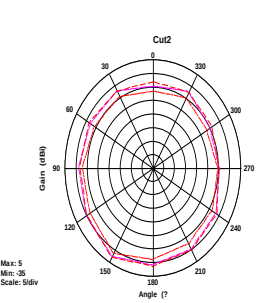
2D Radiation Pattern :

WIFI/BLE Antenna:

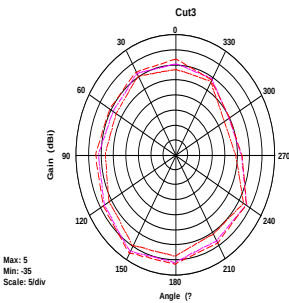
2400MHz



2450MHz



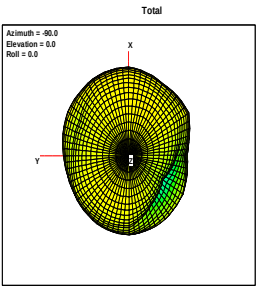
2500MHz



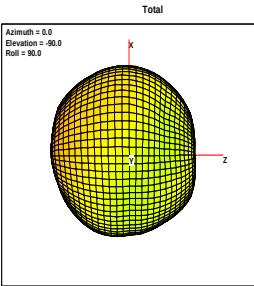
3D Radiation Pattern

WIFI/BLE Antenna :

XY-Plane



XZ-Plane



YZ-Plane

