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# Antenna Reports

Test lab: Speed lab (ETS)

Issue date: 2023/11/15

**Model name:**

**WWAN**

**1st source (0°) : V0.6 1110    2nd source (60°) : V0.6 1110**

**1st source (0°) : ST6919-TOP0 SPD V0.4 1115    2nd source (60°) : TOP60 SPD V0.4 1114**

**WLAN**

**1st source (0°) : TOP0-WLAN SPD V0.2 1116    2nd source (60°) : TOP60-WLAN SPD V0.1 1116**

**Brand name: SPEED**

### 1、 Peak Gain

#### ANT2

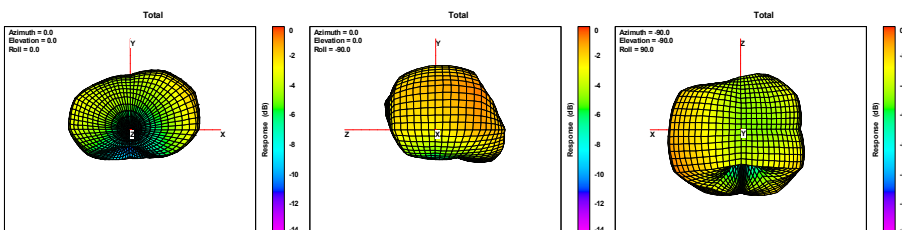
Antenna type: IFA

GPS/WLAN Peak Gain (dBi)			
<b>1550-1650MHz</b>	-1.42	<b>2400-2500MHz</b>	-1.64

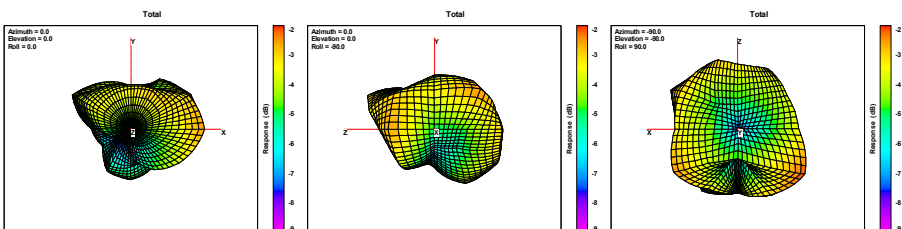
Antenna gain was measured in the anechoic chamber, 3D scan was exercised, and the highest numbers are reported in this document

( Right view – Rear view – Left view – Front view)

#### GPS (1575 MHz)



#### WIFI 2.4G (2450 MHz)



#### ANT3

Antenna type: IFA

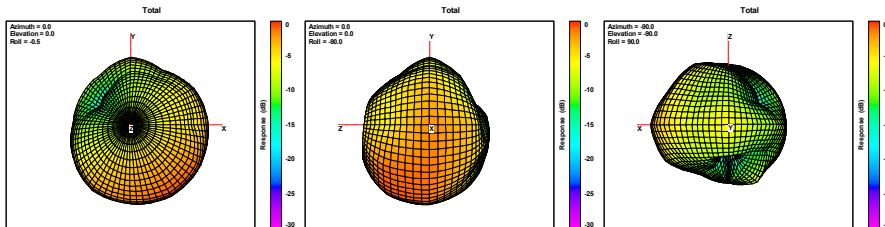
<b>WLAN Peak Gain (dBi)</b>	<b>Peak Gain(dBi)</b>
<b>5150~5250MHz</b>	-2.15
<b>5250~5350MHz</b>	-2.15

5470~5725MHz	-5.32
5725~5850MHz	-5.32
5925~7125MHz	-5.32

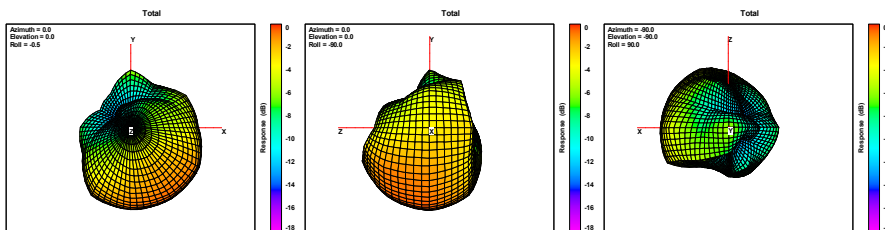
Antenna gain was measured in the anechoic chamber, 3D scan was exercised, and the highest numbers are reported in this document

( Right view – Rear view – Left view – Front view)

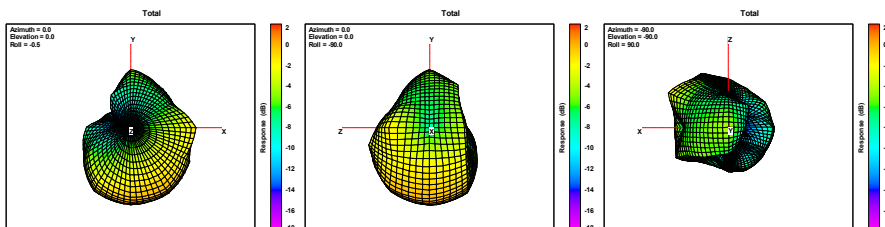
### WIFI 5G ( 5200 MHz)



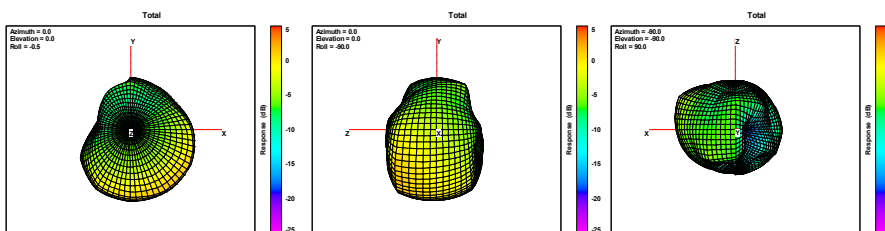
### WIFI 5G ( 5400 MHz)



### WIFI 5G ( 5600 MHz)



### WIFI 5G ( 5800 MHz)



ANT4

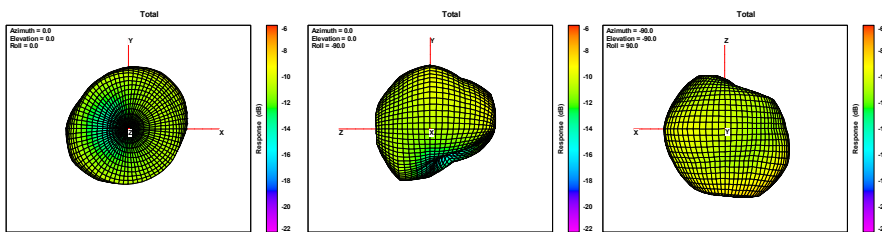
Antenna type: PIFA

GPS/WLAN Peak Gain (dBi)	Peak Gain(dBi)
1150-1250MHz	-7.27
2400-2500MHz	-2.31
5150~5250MHz	-2.03
5250~5350MHz	-2.03
5470~5725MHz	-5.45
5725~5850MHz	-5.45
5925~7125MHz	-5.45

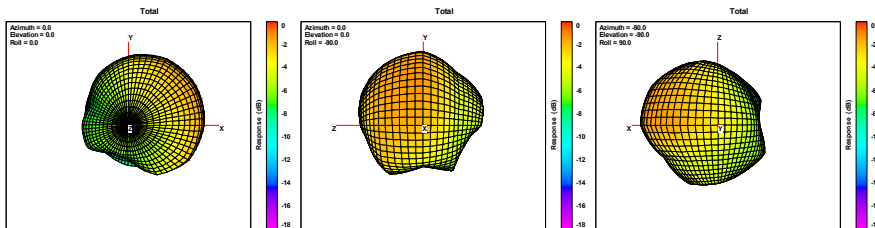
Antenna gain was measured in the anechoic chamber, 3D scan was exercised, and the highest numbers are reported in this document

( Right view – Rear view – Left view – Front view)

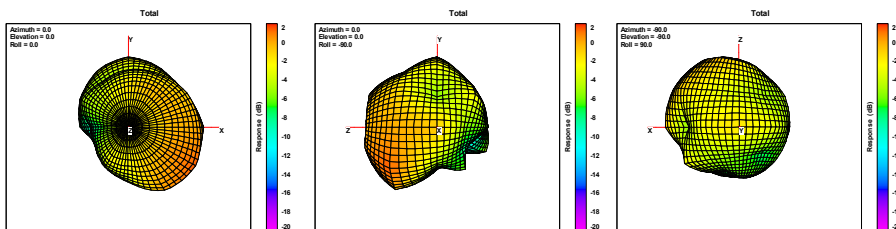
GPS (1176 MHz)



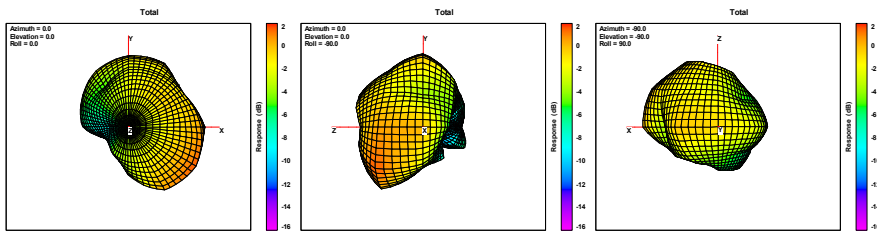
WIFI 2.4G (2450 MHz)



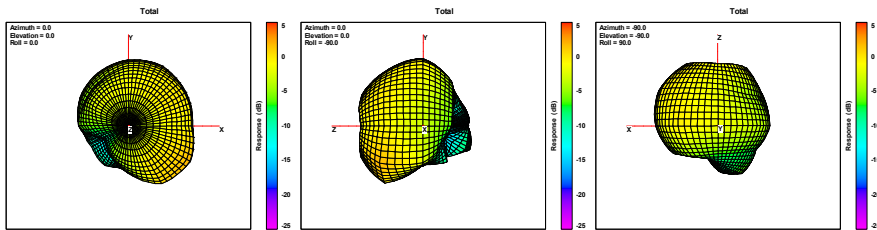
WIFI 5G ( 5200 MHz)



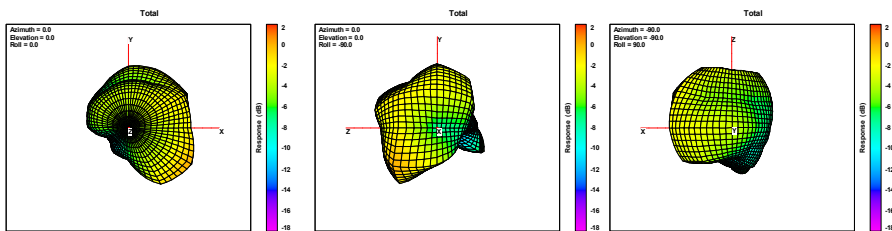
WIFI 5G ( 5400 MHz)



### WIFI 5G ( 5600 MHz)



### WIFI 5G ( 5800 MHz)



### 3、Antenna Manufacturer and address

Manufacturer: Huizhou Speed Wireless Technology Co.,Limited

Address: Huize Avenue, Shangxia District, Dongjiang Hi-Tech Industrial Park, Shuikou, Huizhou City, Guangdong Province

### 4、Antenna type

IFA/PIFA

NFC: LOOP Antenna, 54mm\*38mm

### 5、Test instrument and calibration date

GTS 2800 calibration date: 20231006

CMW500 calibration date: 20230927

Keysight E5071C calibration date: 20231028

### 6、Test engineer signature

# Eddy

## 7、 Test software

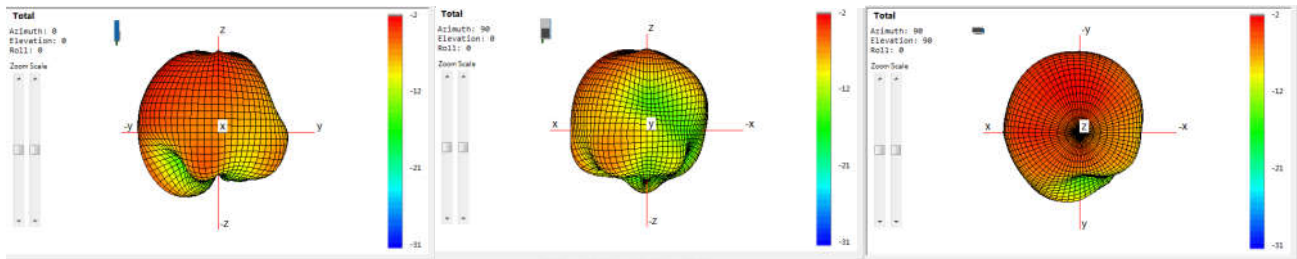
GTS2800

WIFI 6E gain: (Ant3)

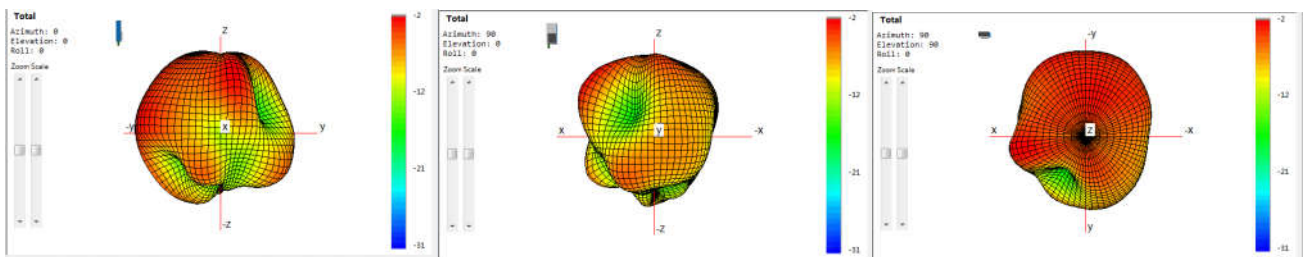
WLAN Peak Gain (dBi)	Peak Gain(dBi)
UNII-5	-5.32
UNII-6	-5.32
UNII-7	-5.32
UNII-8	-5.32

Worst plot:

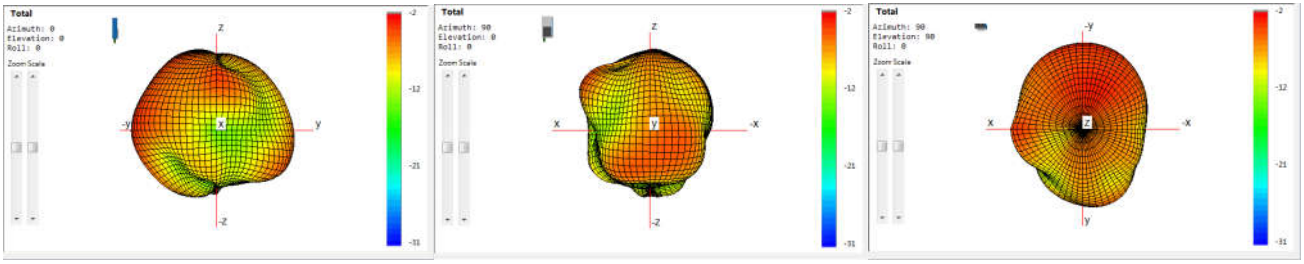
WIFI 6E ( UNII-5)



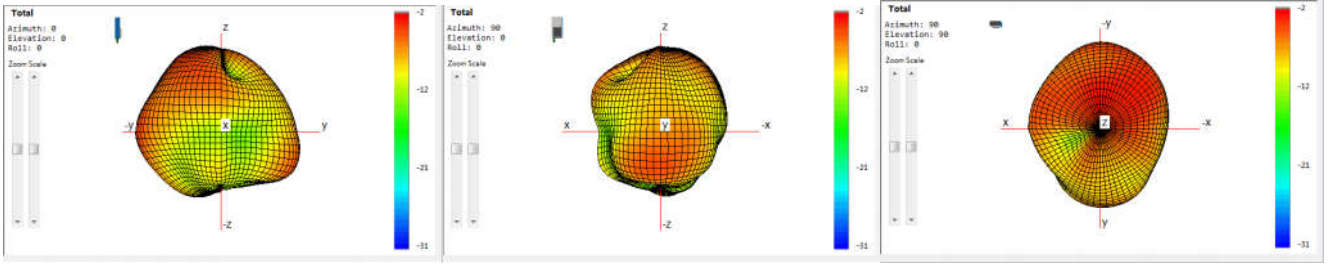
WIFI 6E ( UNII-6)



WIFI 6E ( UNII-7)



## WIFI 6E ( UNII-8)

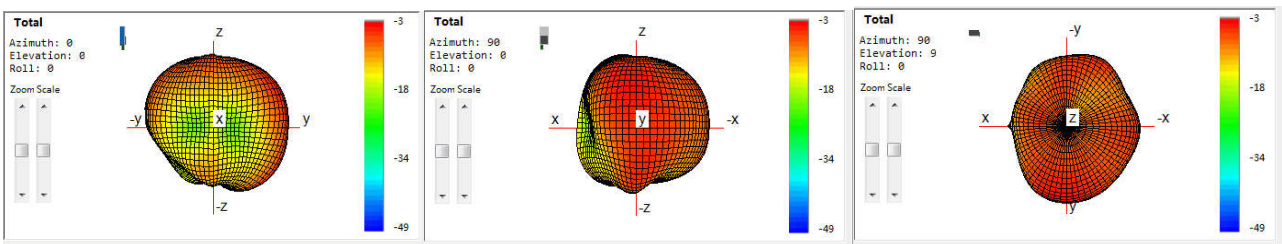


WIFI 6E gain: (Ant4)

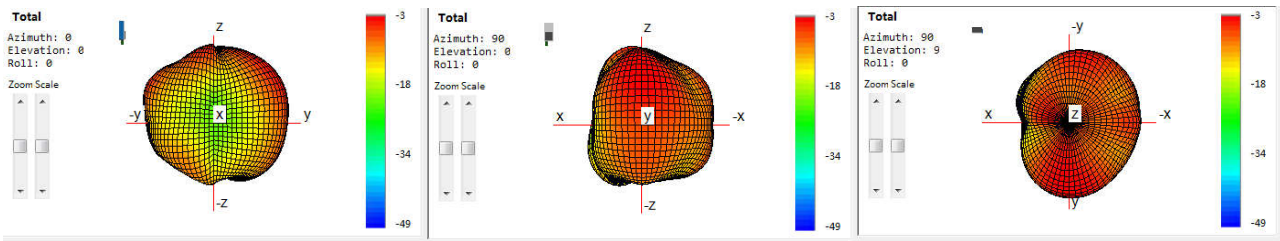
WLAN Peak Gain (dBi)	Peak Gain(dBi)
UNII-5	-5.45
UNII-6	-5.45
UNII-7	-5.45
UNII-8	-5.45

Worst plot:

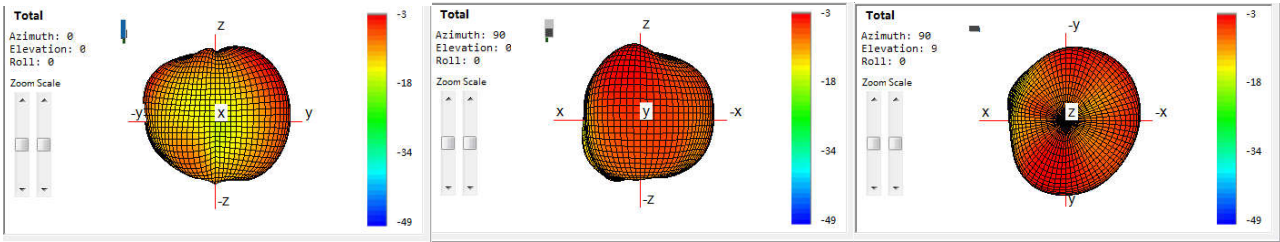
## WIFI 6E ( UNII-5)



## WIFI 6E ( UNII-6)



## WIFI 6E ( UNII-7)



## WIFI 6E ( UNII-8)

