

**Shenzhen Sungy Technology Co.,Ltd**

NO.34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province, China

# **SPECIFICATION**

<b>Ant. type(PIFA):</b>	YES
<b>Ant. type(Monopole):</b>	NA
<b>Ant. type(Loop):</b>	YES
<b>Ant. type(Loop-Couple):</b>	

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**DATE:** 20230210

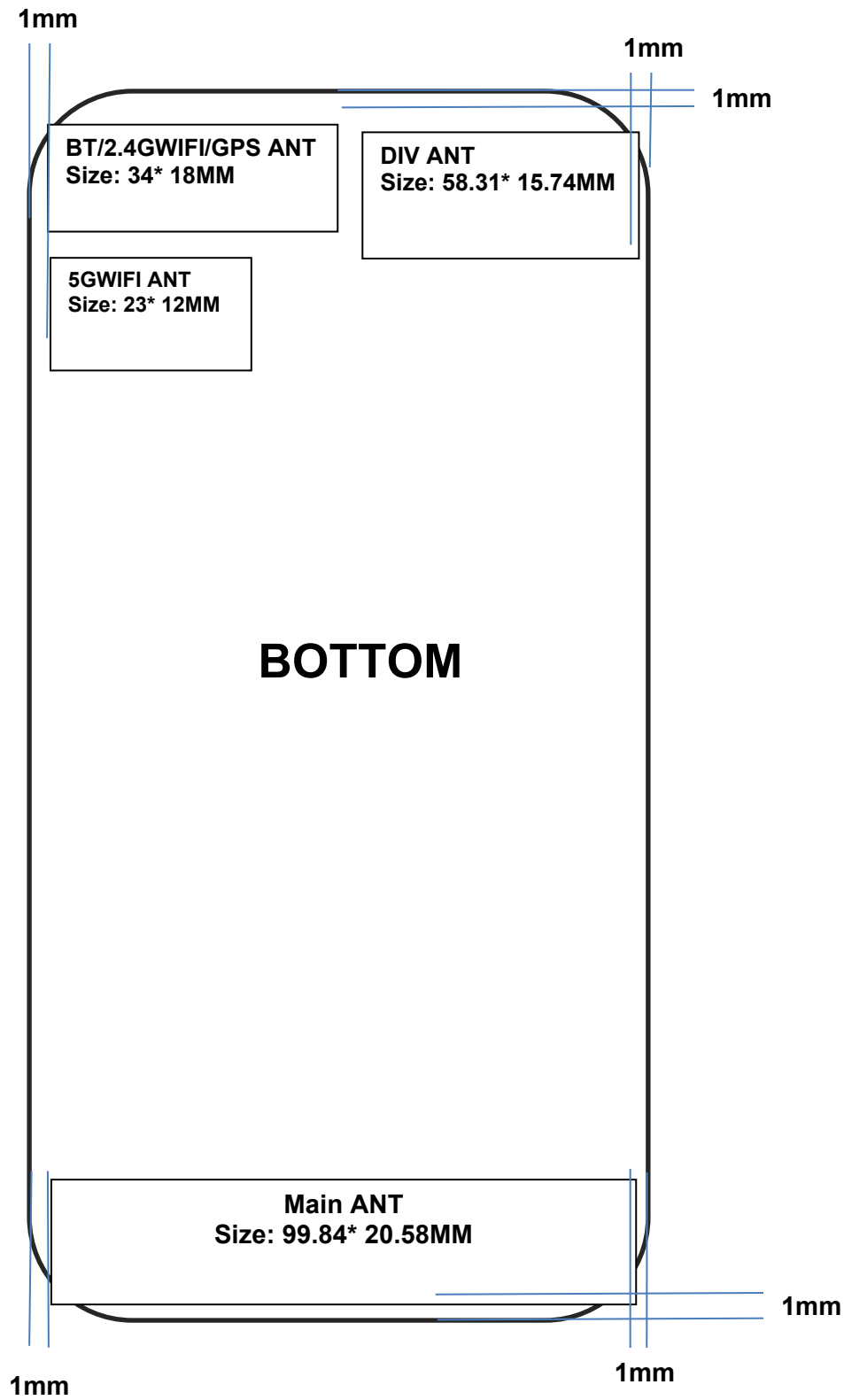
**DATASHEET REVISION:** V1.0

**MANUFACTURE:** Shenzhen Sungy Technology Co.,Ltd

**Manufacturer Address:**

NO.34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province, China

## Antenna Placement



## **Summary table**

<b>Check Items</b>	<b>Information</b>	<b>Page</b>
Manufacturer	Shenzhen Sungy Technology Co.,Ltd	1
Manufacturer Address	NO.34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province, China	1
Antenna pattern / Test data (Tx Antenna, Rx antenna, GPS, WiFi, etc)	Included frequency, antenna gain, type	4-6
Test Setup	Test Environment, list of calibrated test equipment	7

## Antenna Performance

### Ant.1(main antenna)

Description

Frequency Range	600-2700MHz;
Impedance	50Ω
Peak Gain	-1.7dBi
Admitted Power	N/A
Cable	N/A
Antenna Type	Loop
Connector	N/A
Process	N/A

### Ant.2(div antenna)

Description

Frequency Range	600-2700MHz;
Impedance	50Ω
Peak Gain	-1.2dBi
Admitted Power	N/A
Cable	N/A
Antenna Type	PIFA
Connector	N/A
Process	N/A

### Ant.2(gps wifi antenna)

Description

Frequency Range	1555-1595MHz; 2400-2500MHz;
Impedance	50Ω
Peak Gain	-0.6dBi
Admitted Power	N/A
Cable	N/A
Antenna Type	PIFA
Connector	N/A
Process	N/A

### Ant.4(5g wifi antenna)

Description

Frequency Range	5150-5850MHz;
Impedance	50Ω
Peak Gain	-1.3Bi
Admitted Power	N/A

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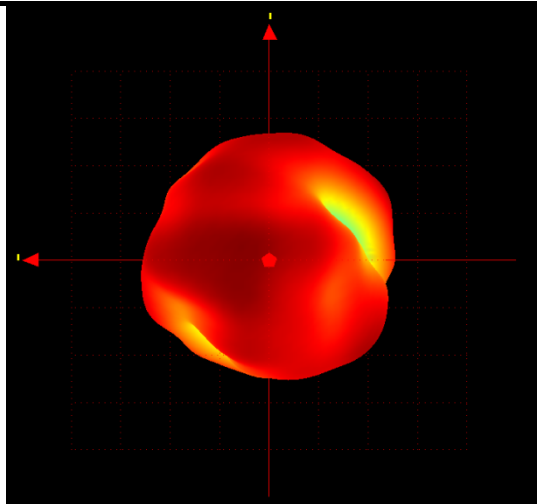
<b>Cable</b>	N/A
<b>Antenna Type</b>	PIFA
<b>Connector</b>	N/A
<b>Process</b>	N/A

## Antenna Efficiency(test in anechoic chamber)

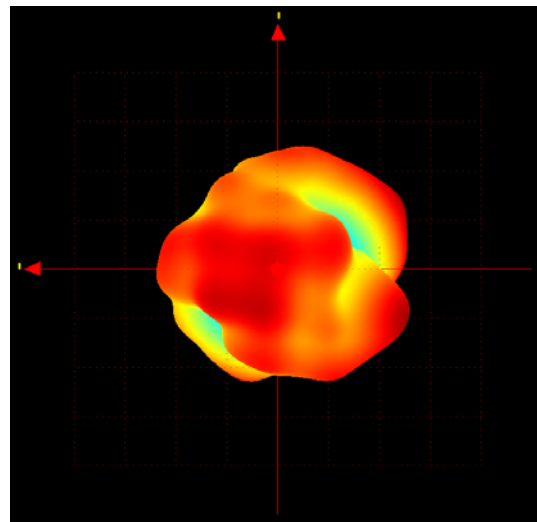
band	main		div	
	peak	average	peak	average
gsm 850	-2	-5.7	-6.6	-9.8
gsm 1900	-1.7	-4.5	-1.2	-3.8
wcdma 2	-1.7	-4.5	-1.2	-3.8
wcdma 4	-1.4	-4.1	-2.5	-5.3
wcdma 5	-2	-5.7	-6.6	-9.8
lte 2	-1.7	-4.5	-1.2	-3.8
lte 4	-1.4	-4.1	-2.5	-5.3
lte 5	-2	-5.7	-6.6	-9.8
lte 12	-2.8	-6.8	-6	-9.2
lte 13	-3.2	-6.9	-6.2	-9.5
lte 25	-1.7	-4.5	-1.2	-3.8
lte 26	-2	-5.7	-6.6	-9.8
lte 66	-1.4	-4.1	-2.5	-5.3
lte 71	-4.5	-7.8	-8	-11.1
lte 41	-3.4	-5.8	-3.9	-6.2
gps	-0.6	-3.7		
2.4g wifi	-1.1	-4.2		
5g wifi	-1.3	-4.5		

## Antenna 3D Radiation Pattern

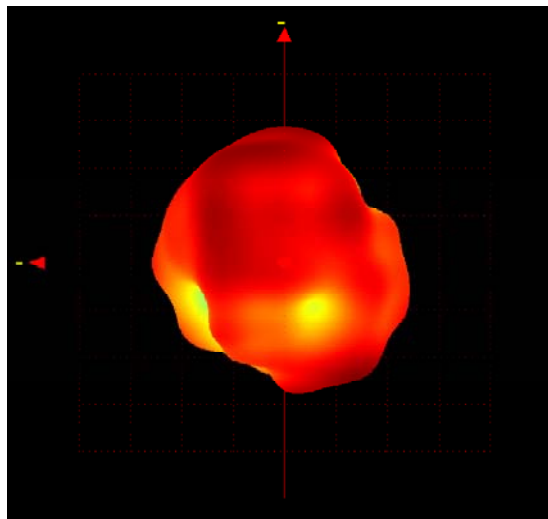
## a. Main Antenna



b. Div Antenna

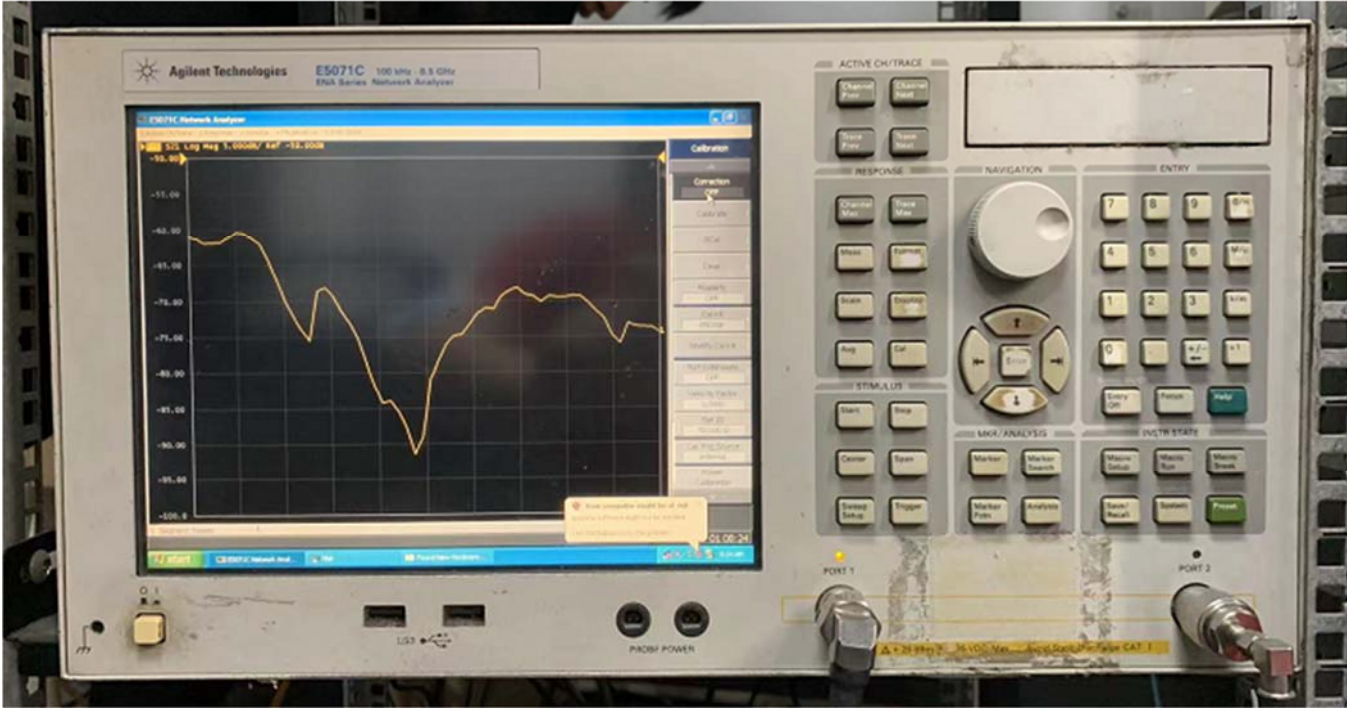


c. GPS/BT/WiFi Antenna



## Test setup

Test Environment, list of calibrated test equipment



AgilentE5071C ↑



Calibration Date : 20220712