

SPECIFICATION FOR APPROVAL

DATE: 2025.03.06

REV.: B

CUSTOMER: AsiaTelco Technologies Co.

CUSTOMER P/N:

PART NAME: Internal BLE antenna FPC and 1.13 white calbe
L230mm with RF CONN-1 for ZAZU

SUPPLIER P/N: 6001F00408

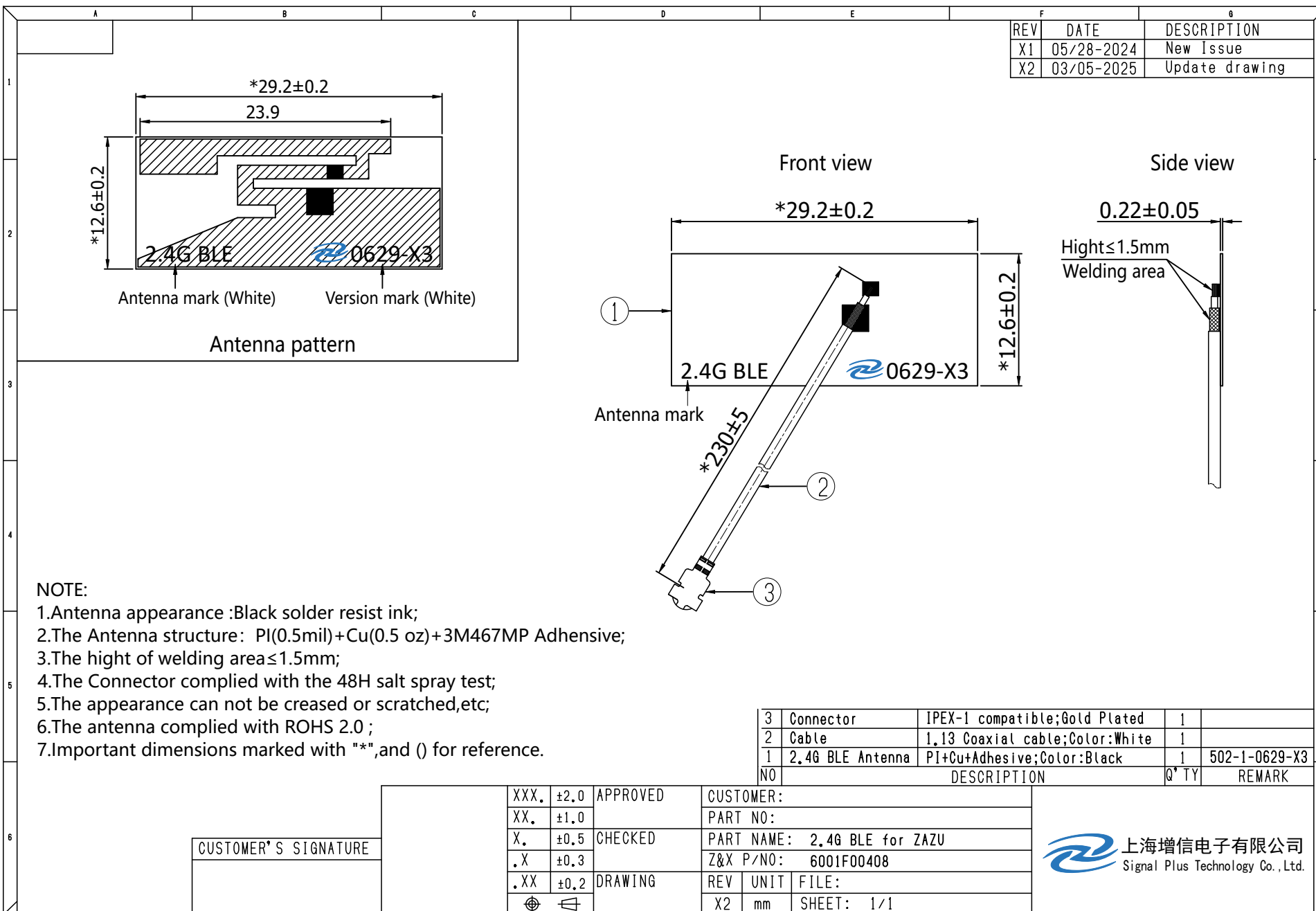
CUSTOMER APPROVED BY

Approved by	Checked by	Prepared by

SUPPLIER SIGNATURE

Approved by	Checked by	Prepared by
Jack		andy

ZX-QT-RD-0011-A1





Antenna Test Report

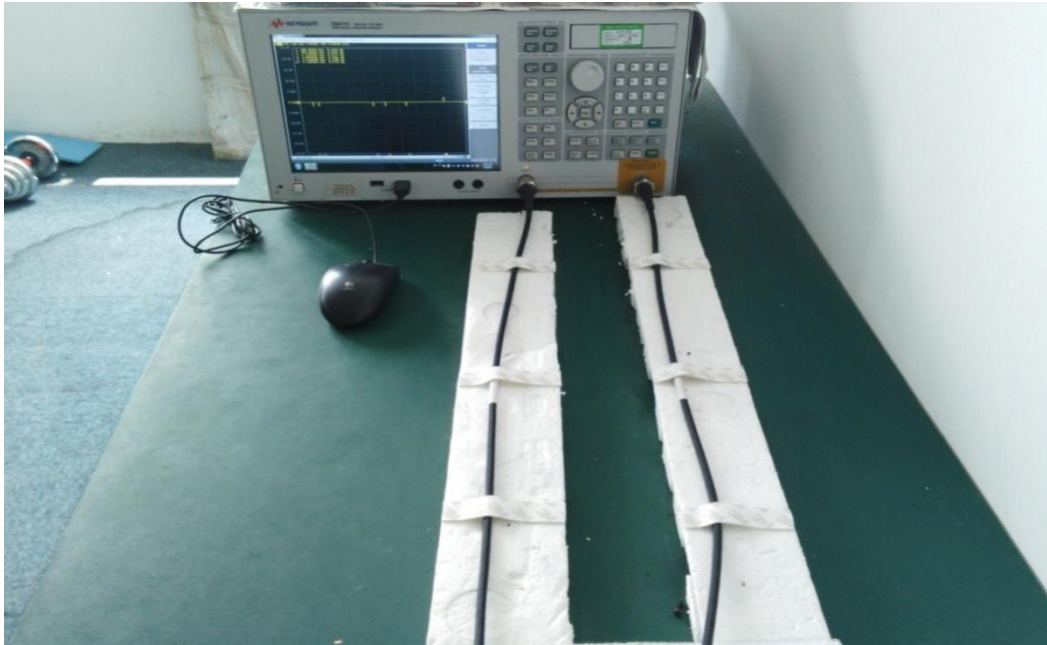
2.4G BLE (BT)

1. RF Fixture Experiment

1.1 Test Setup

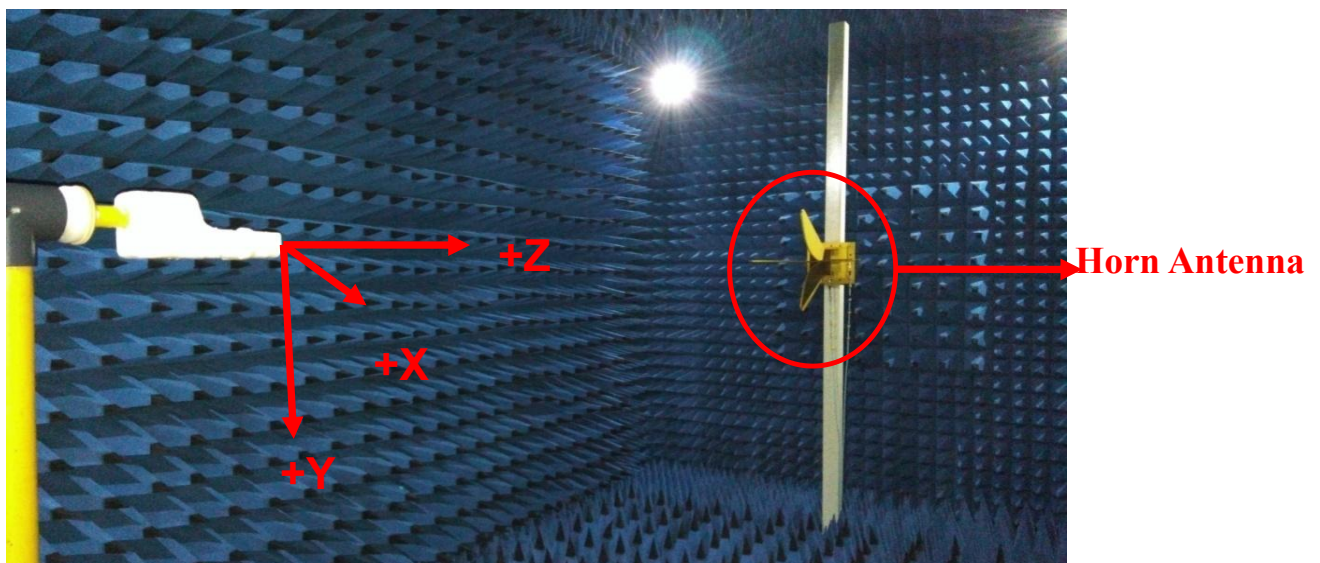
1.1.1 VNA Test Setup

VSWR and Return Loss measurements (S_{11}) were performed using an Keysight E5071C Network Analyzer. The isolation between antennas is also tested. The testing was performed with apparatus in free space.

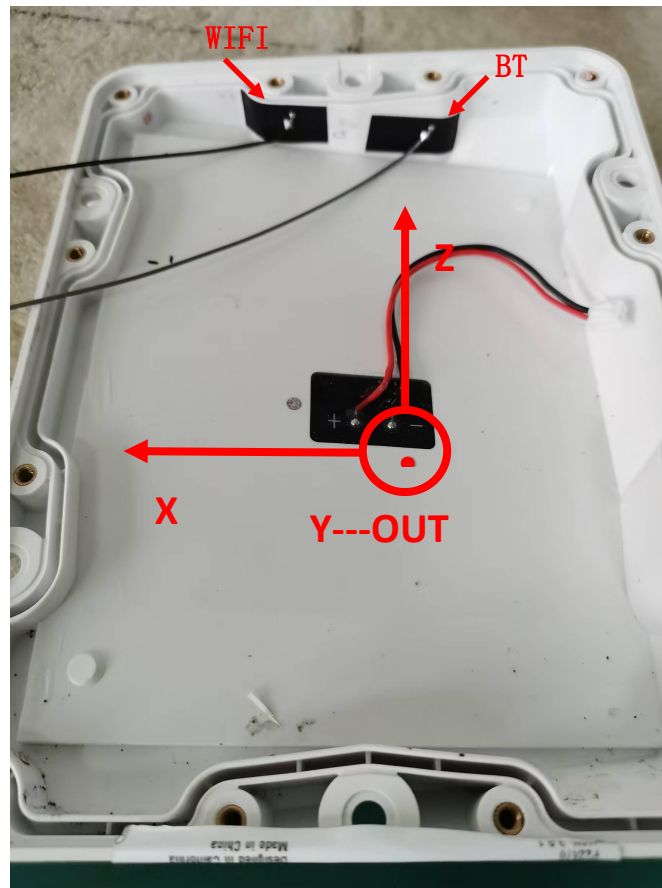


1.1.2 Anechoic Chamber Test Setup

The gain of the antenna was measured in the anechoic chamber. The chamber provides less than -30 dB reflectivity from 400 MHz through 6 GHz. The chamber size is: 7m*4m*3m. The measurement results are calibrated using a leaky wave horn standard. We can measure the antenna gain and efficiency accurately.



2. Antenna Solution

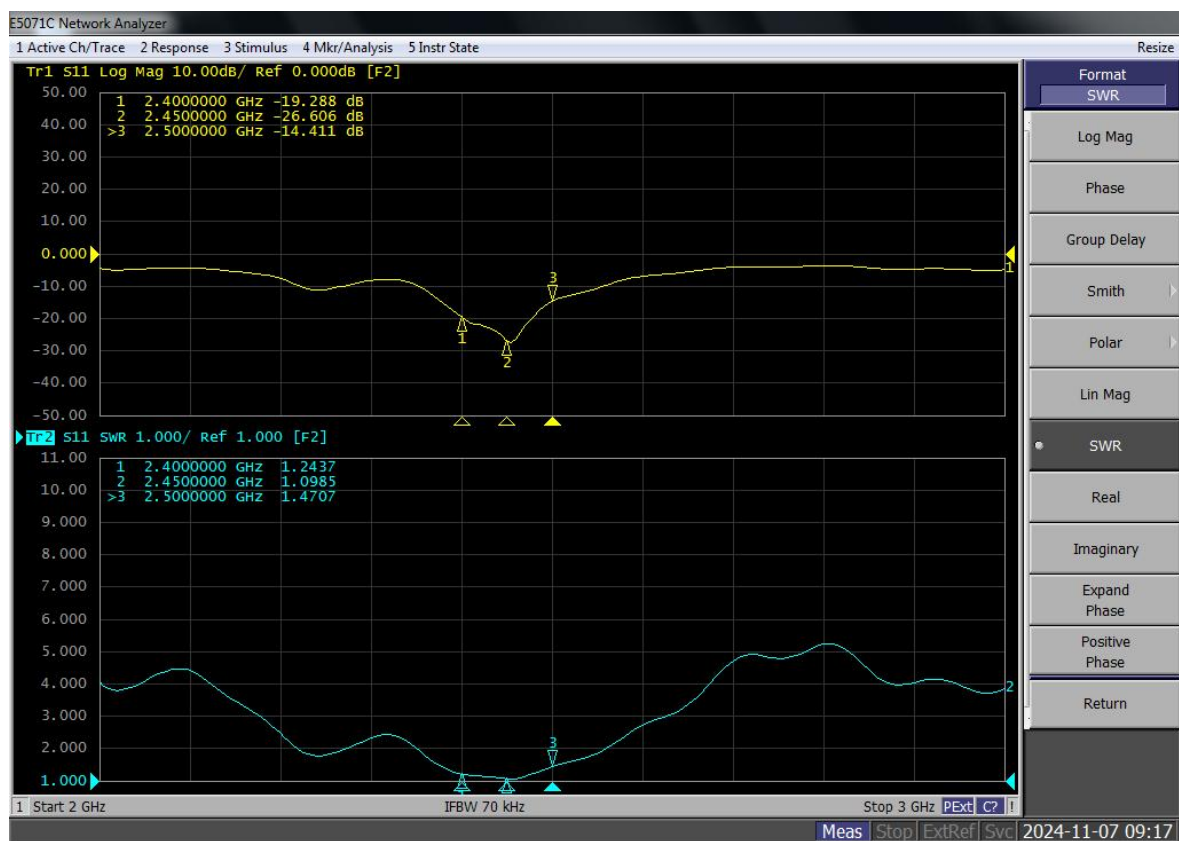


Data Preview

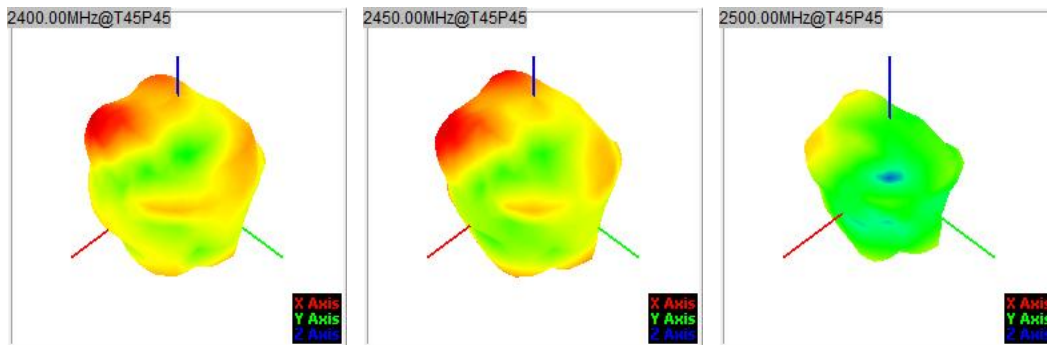
BT:

Freq.(MHz)	2400	2450	2500
VSWR	1.24	1.09	1.47
Gain(dBi)	5.01	6.69	5.99
Eff. (%)	50.1%	53.4%	48.2%

S11(BT):

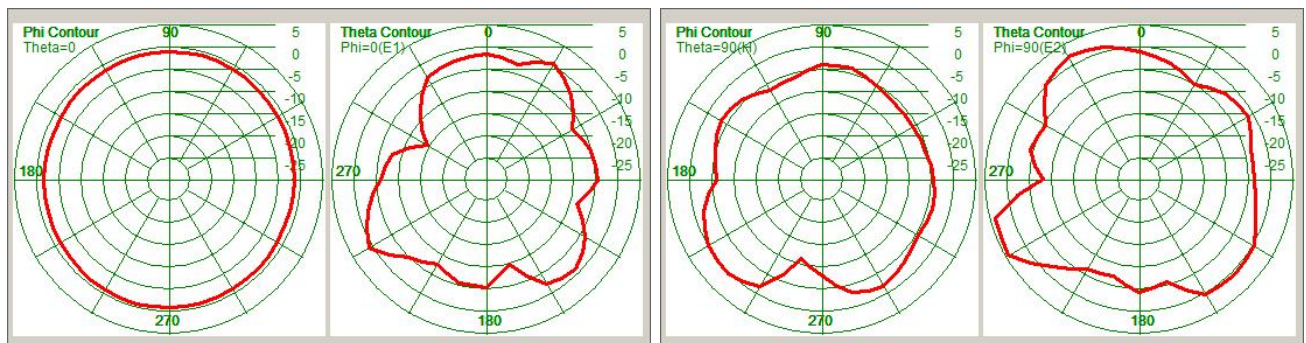


Radiation patterns:3D



Radiation patterns:2D

2450MHz



S21(WIFI&BT):

