

SPECIFICATION FOR APPROVAL

DATE: 2025.06.25

REV.: A

CUSTOMER: AsiaTelco Technologies Co.

CUSTOMER P/N: _____

PART NAME: 2.4G BT ceramic antenna

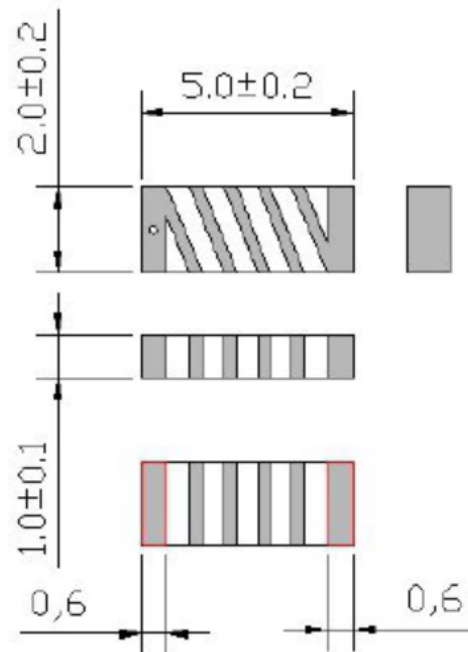
SUPPLIER P/N: DAG2400L502010XZB01

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 Dimensions





Antenna Test Report

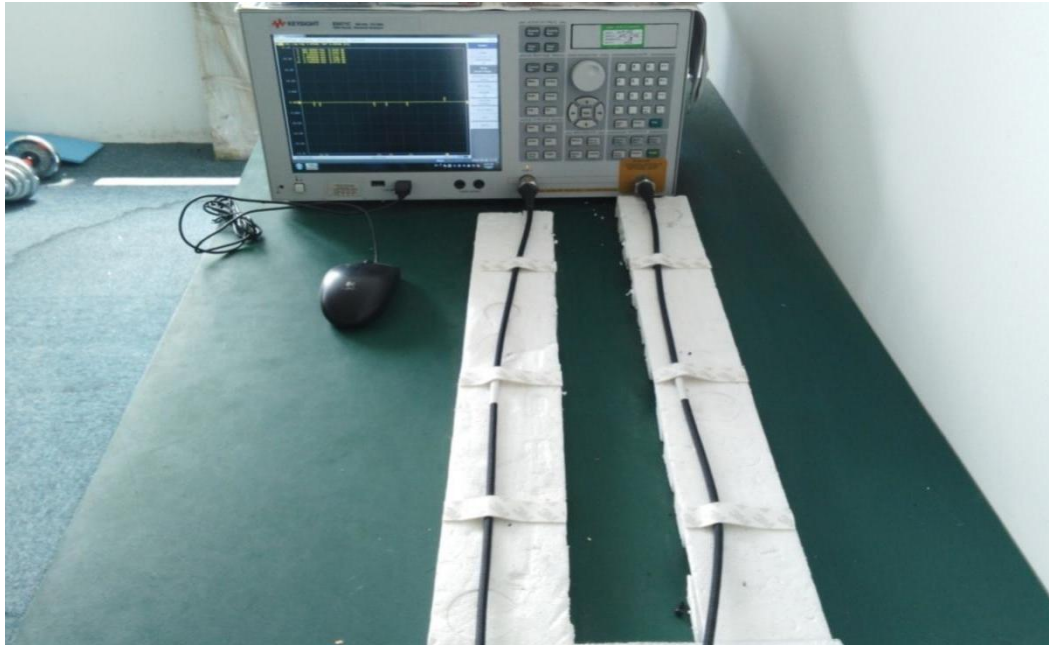
AD21-BT

1. RF Fixture Experiment

1.1 Test Setup

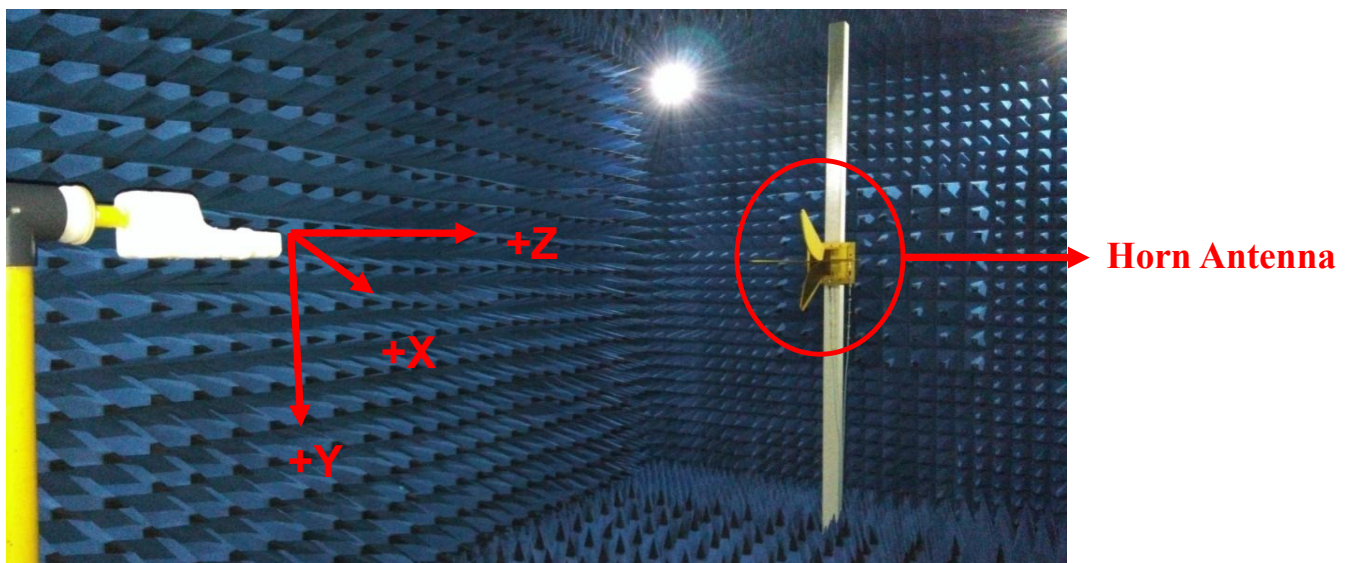
1.1.1 VNA Test Setup

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.

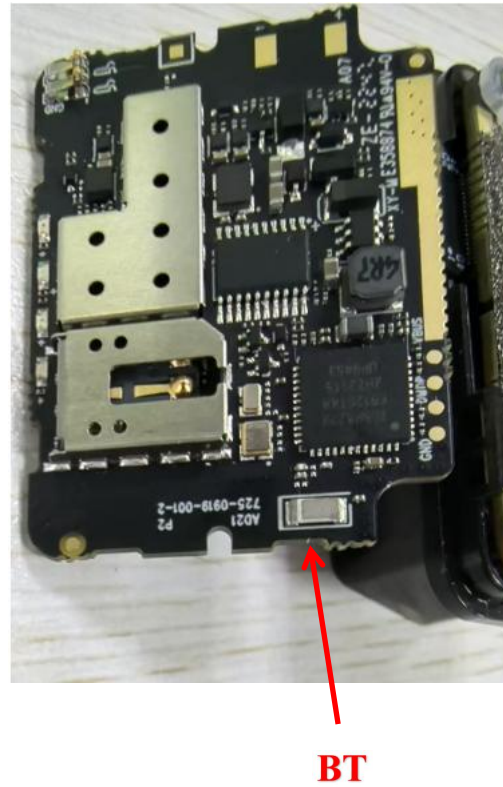
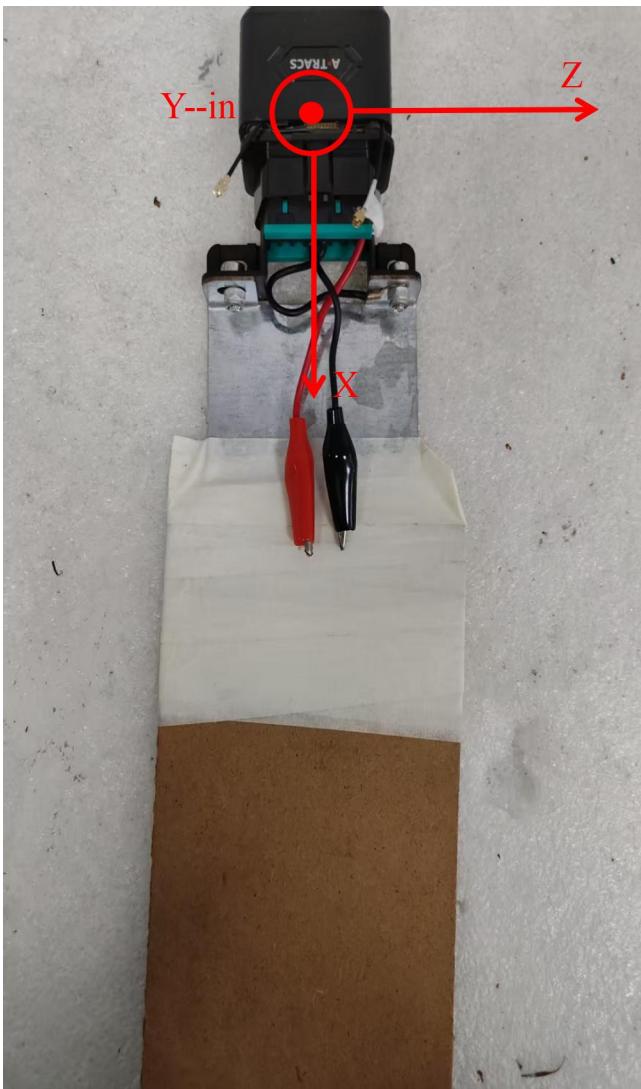


1.1.2 Anechoic Chamber Test Setup

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

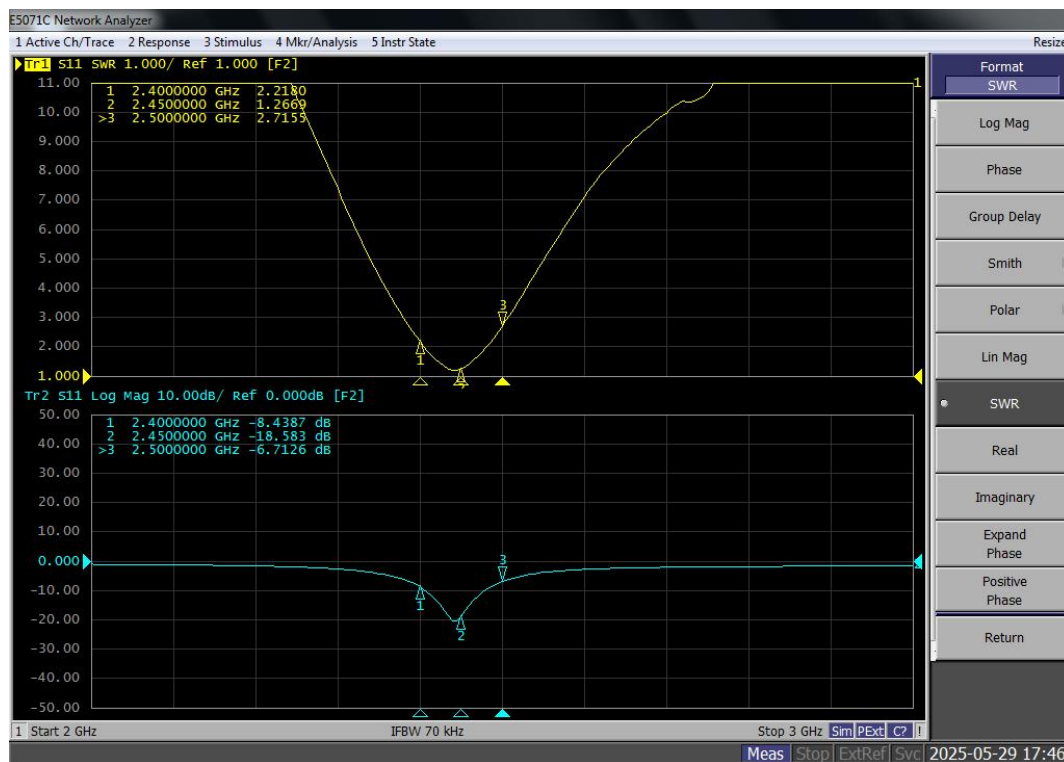


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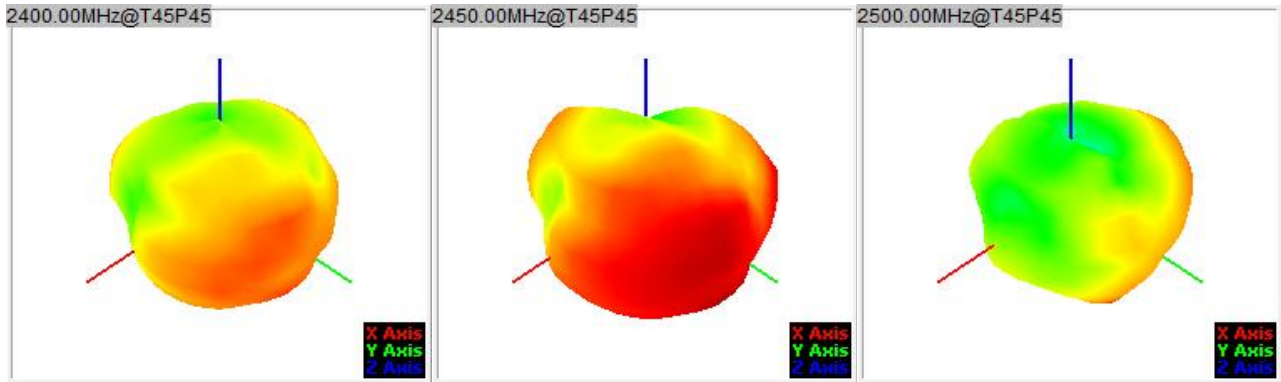
Freq.(MHz)	2400	2450	2500
VSWR	2.21	1.26	2.71
Gain(dBi)	-13.17	-10.96	-7.68
Eff.%	1.9	2.5	4.7

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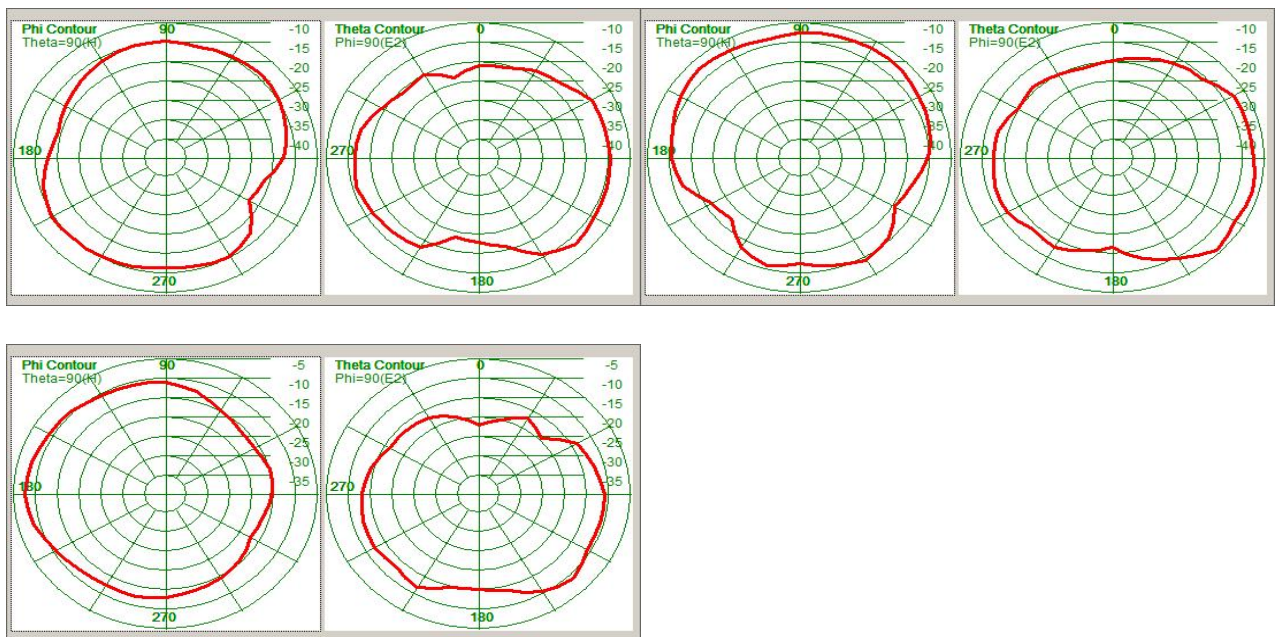
S11



Radiation patterns:3D(2400/2450/2500MHz)



Radiation patterns:2D(2400/2450/2500MHz)



3. RF matching circuit for different antennas

