



上海增信电子有限公司
Signal Plus Technology Co., Ltd.

Antenna Test Report

SPL1204

Revision History

Revision	Note	Date
V1	New Issue	2025.03.31

Data Preview

BT:

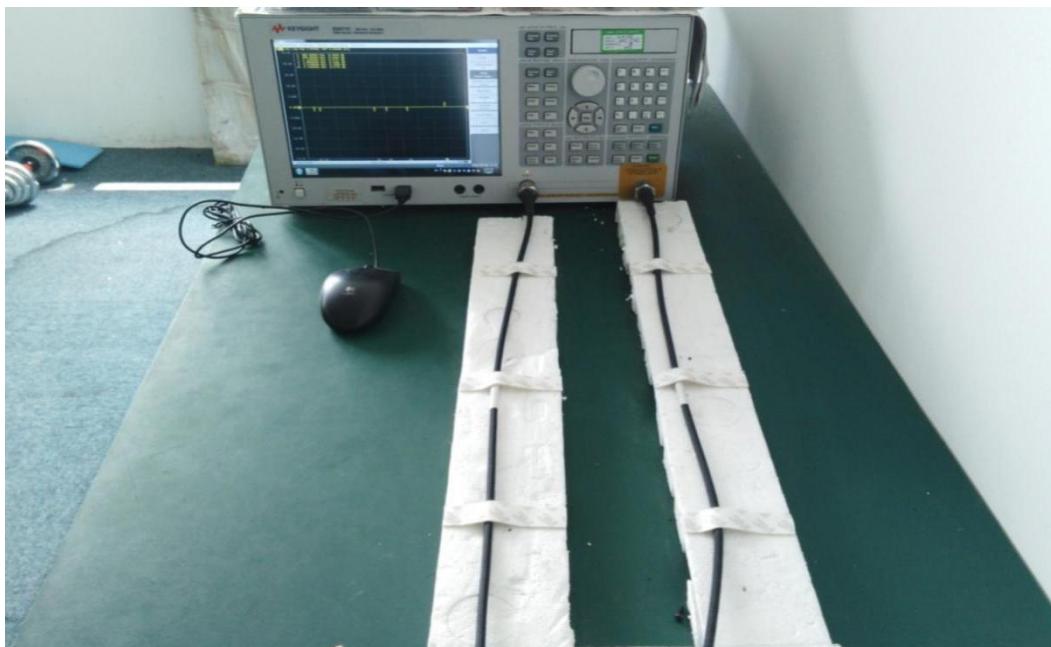
BT			
VSWR	1.61	1.64	1.97
Gain(dBi)	2.15	2.20	1.36
Eff. (%)	47.8%	46.6%	42.5%

1. RF Fixture Experiment

1.1 Test Setup

1.1.1 VNA Test Setup

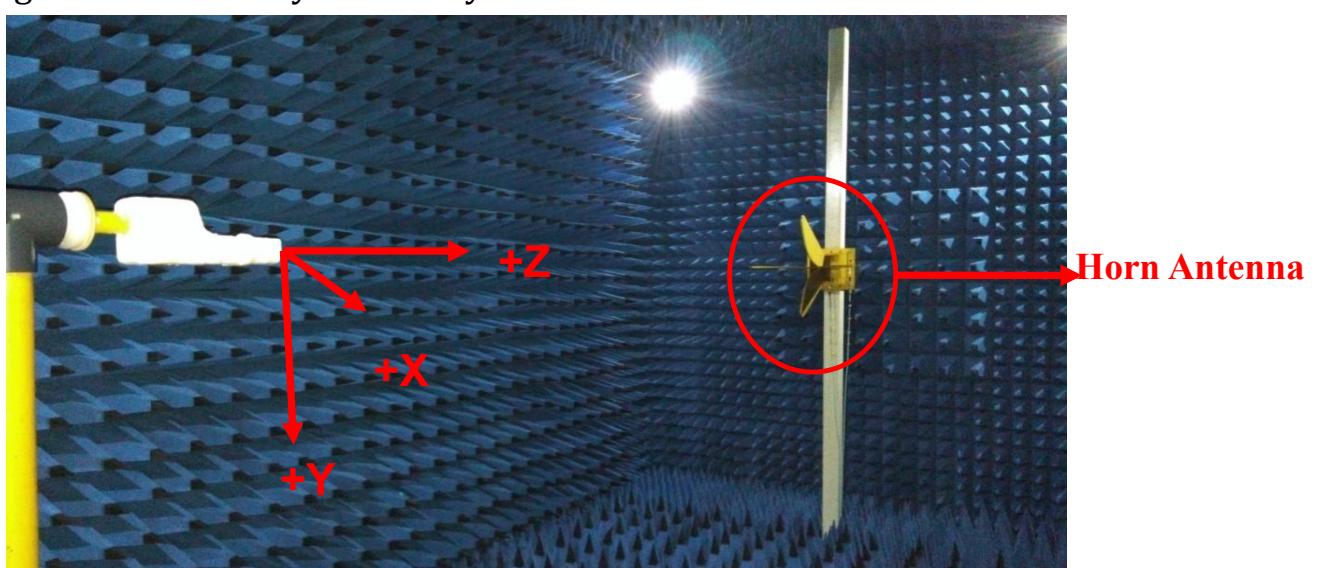
VSWR and Return Loss measurements (S11) were performed using an KeySight E5071C Network Analyzer. The isolation between antennas is also tested. The testing was performed with apparatus in free space.



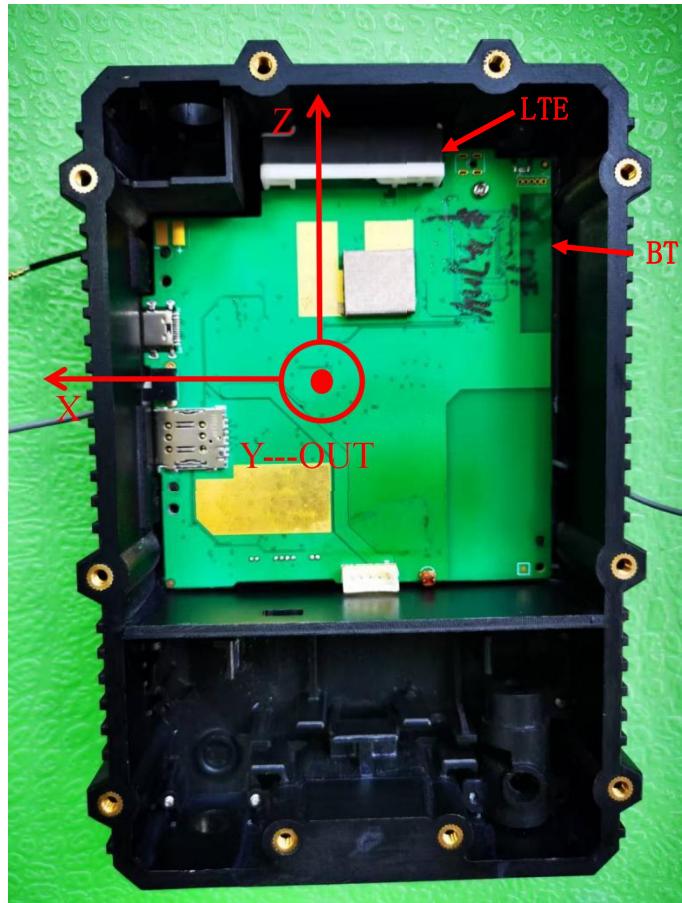
1.1.2 Anechoic Chamber Test Setup

The gain of the antenna was measured in the anechoic chamber.

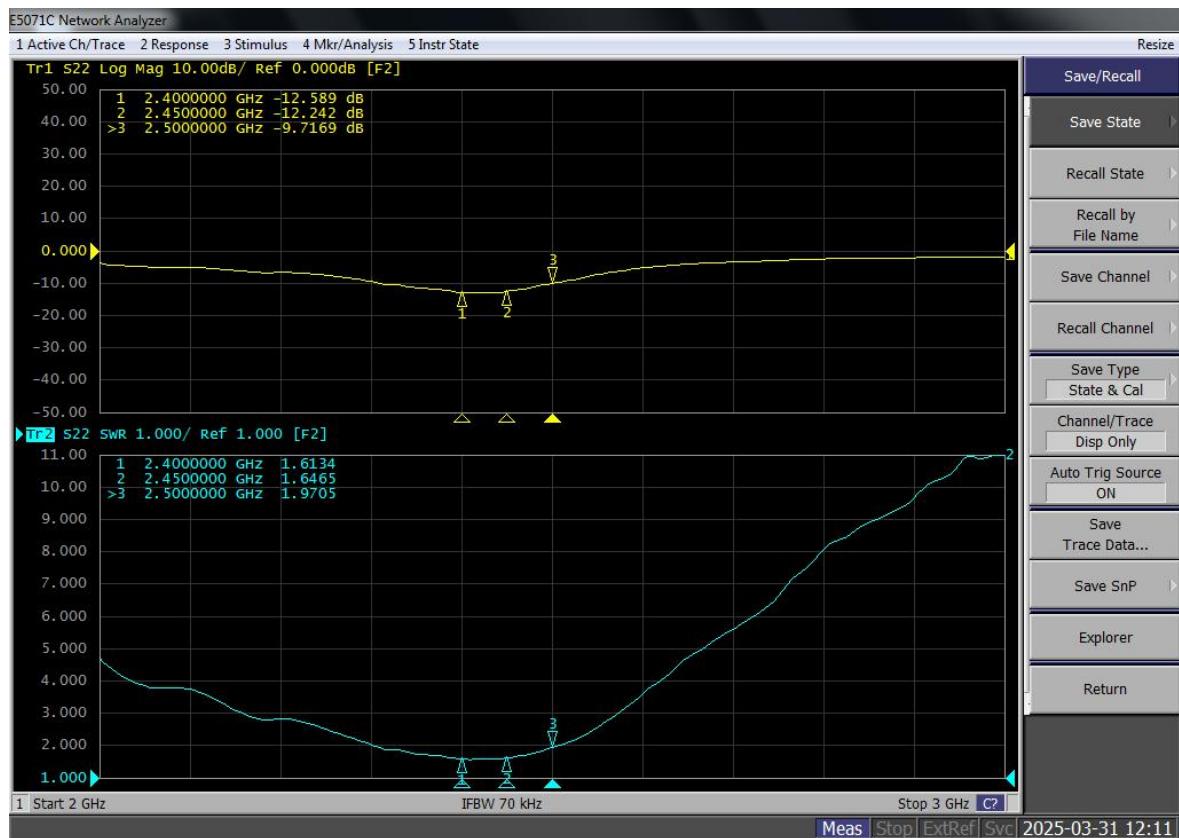
The chamber provides less than -30 dB reflectivity from 400 MHz through 6 GHz. The chamber size is: 7m*4m*3m. The measurement results are calibrated using a leaky wave horn standard. We can measure the antenna gain and efficiency accurately.



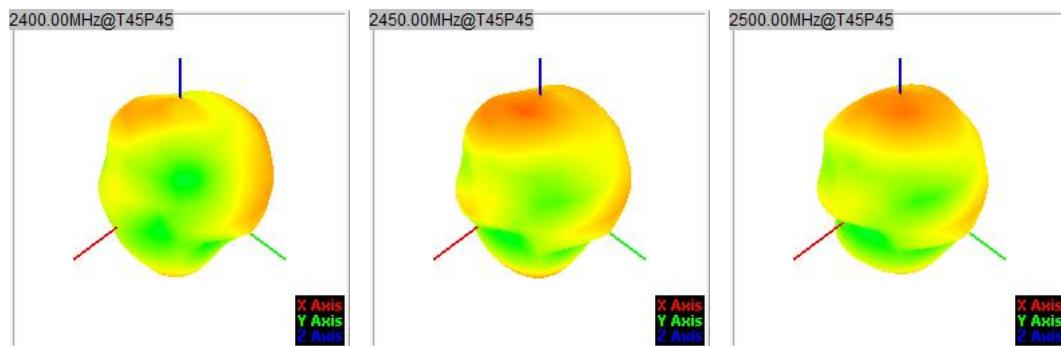
2.Antenna Solution



S11(BT):



Radiation patterns:3D



Radiation patterns:2D

2450MHz

