

Signal Plus Technology co., Ltd.

SPECIFICATION FOR APPROVAL

DATE: 2025.06.10

REV.: A

CUSTOMER: Shanghai Huace Navigation Technology Co., Ltd.

CUSTOMER P/N:

PART NAME: 410-470MHz Soft Plastic Antenna with RP SMA Male

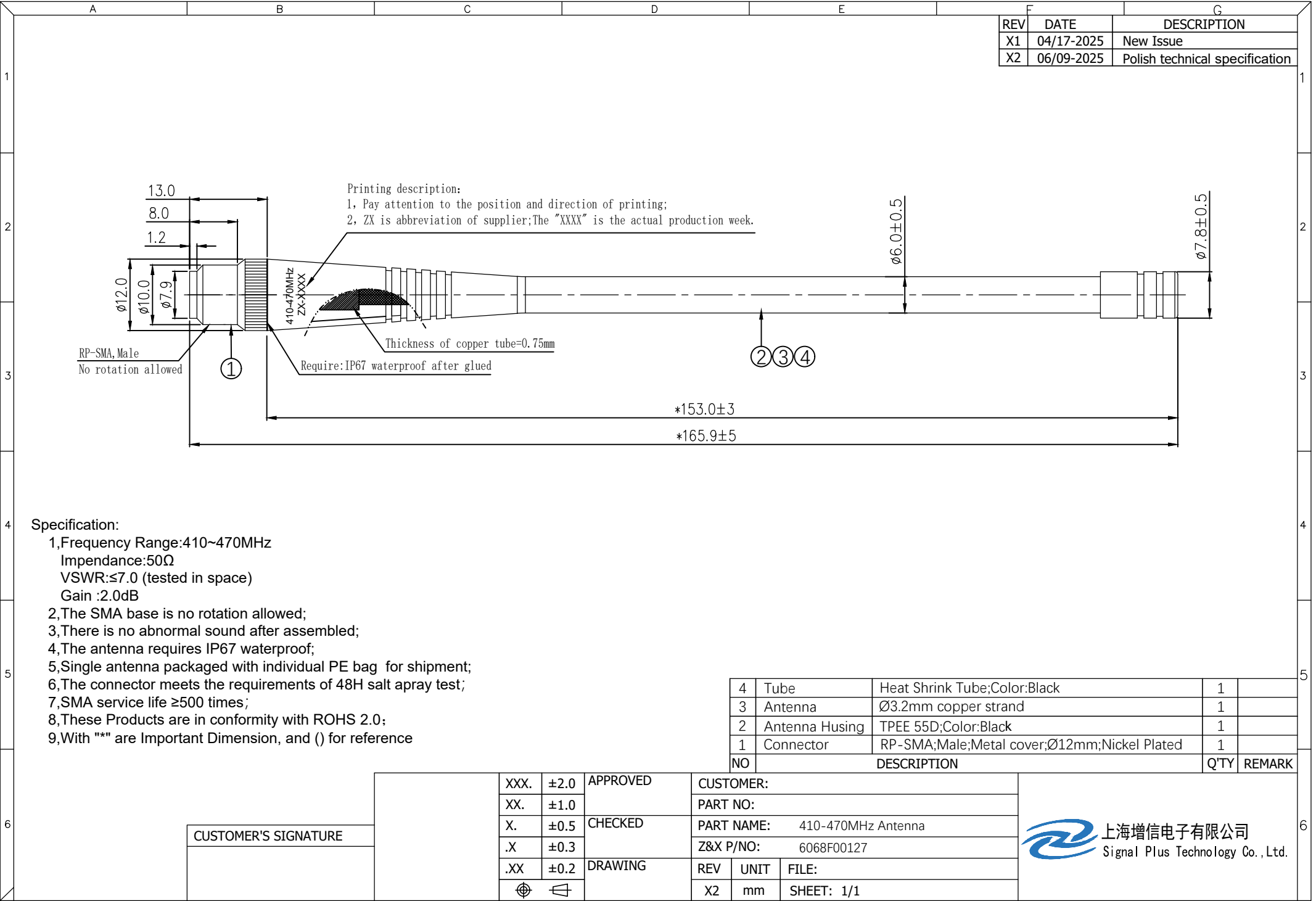
SUPPLIER P/N: 6068F00127

Date:	Q'TY:	Pcs
CUSTOMER APPROVED BY		
Approvaed by	Checked by	Confirmed by

SUPPLIER SIGNATURE		
Approvaed by	Checked by	Prepared by
Andy		Cindy

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Antenna Test Report

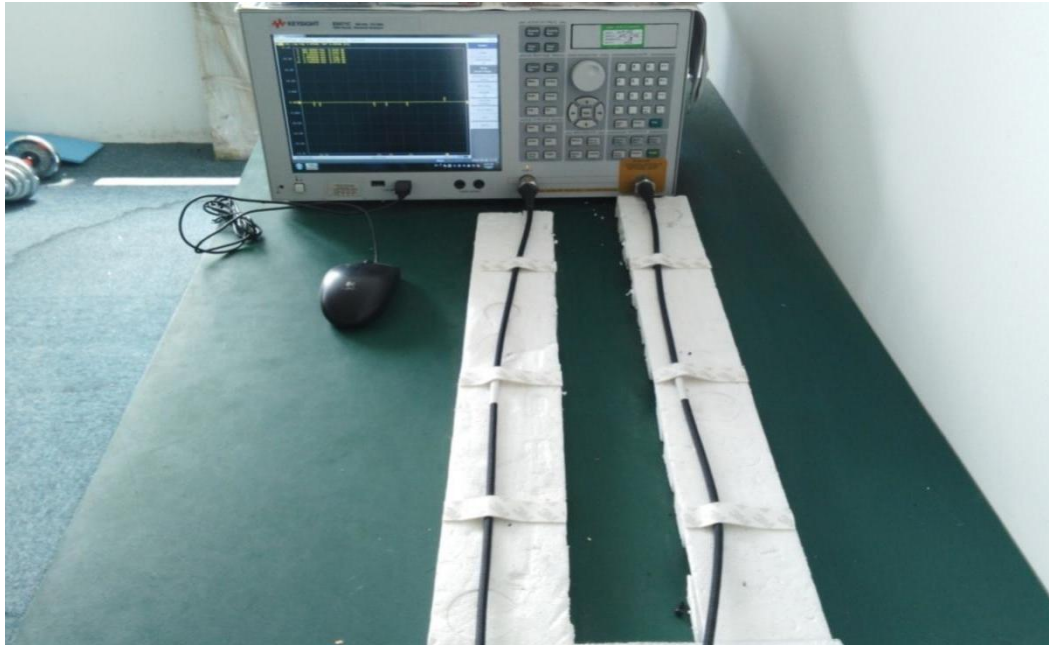
Manufacturer: GEOMATE POSITIONING PTE. LTD.
Address: 13 Tampines Lane #09-53 Singapore 528479

1. RF Fixture Experiment

1.1 Test Setup

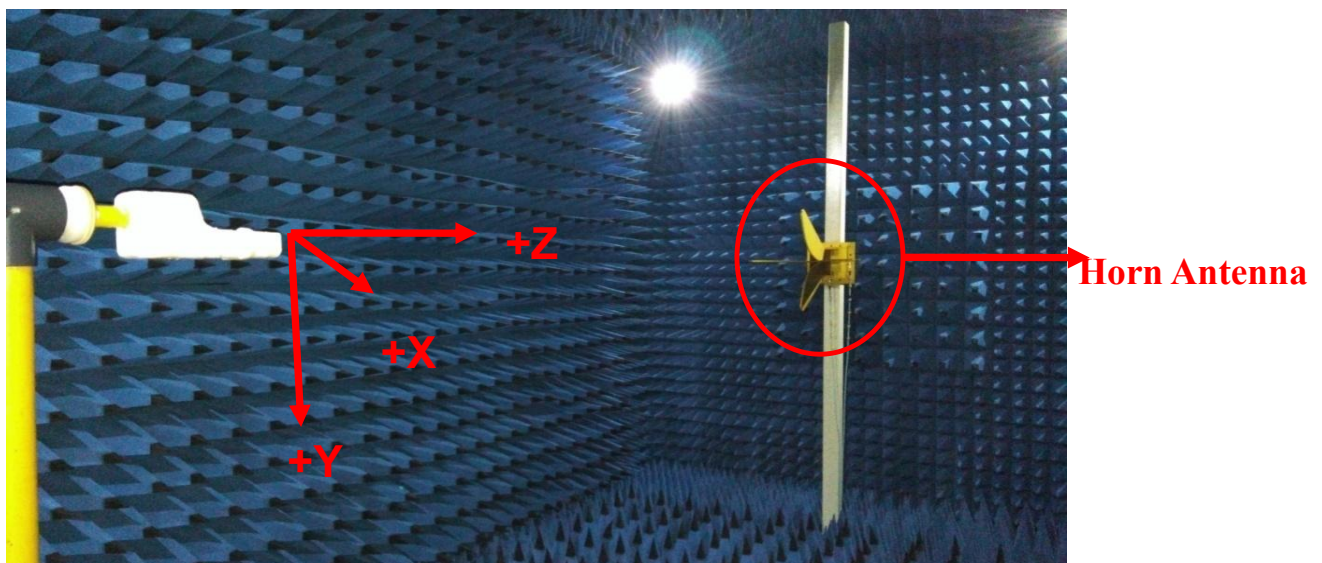
1.1.1 VNA Test Setup

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.

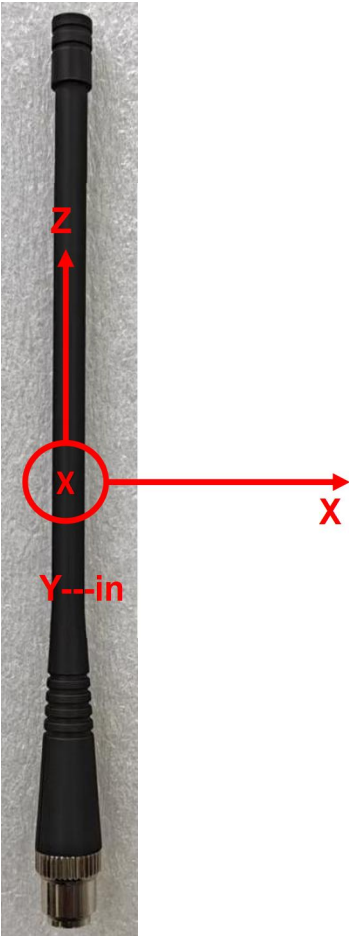


1.1.2 Anechoic Chamber Test Setup

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.



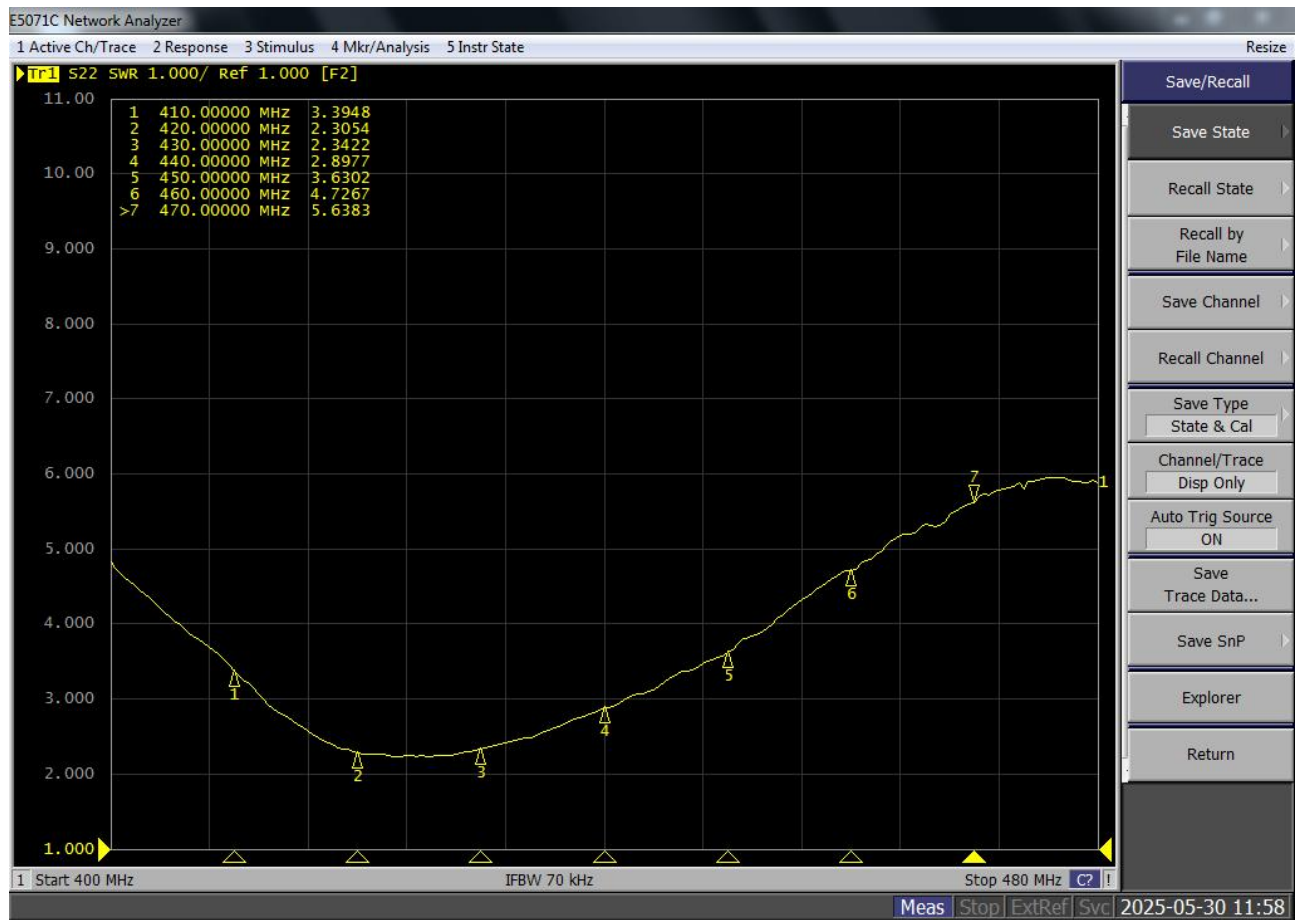
2.Antenna Solution



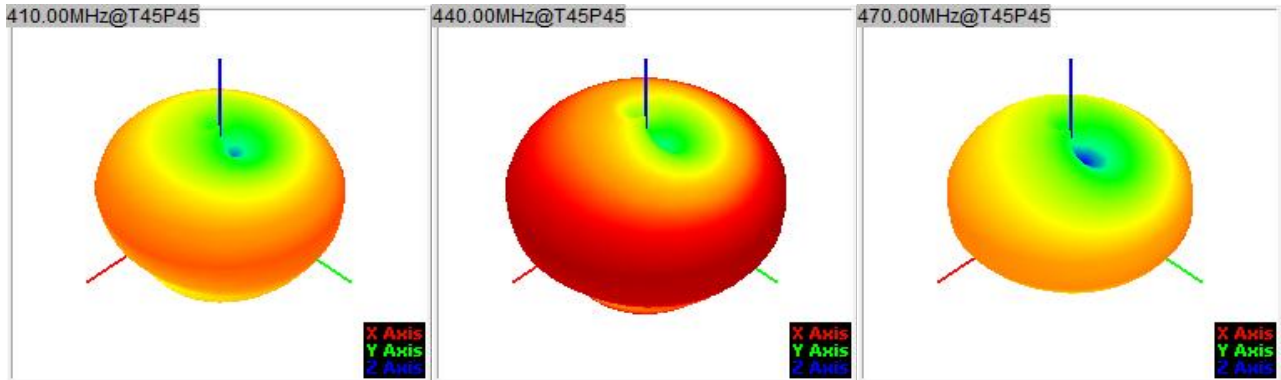
Data Preview

Freq.(MHz)	410	440	470
Gain(dBi)	-3.95	2.00	-4.12
Eff.%	21.60	76.22	18.00

S11



Radiation patterns:3D(410/440/470MHz)



Radiation patterns:2D(410/440/470MHz)

