

# WXT5L BT antenna report

**Manufacturer: Hui Zhou Gaoshengda Technology Co.,LTD**

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City,Guangdong,China**

**Test data: 2023.10.18**

ZHONG TIAN XUN TECHNOLOGY CO., LTD				
MANAGER CHECKED	MANAGER CHECKED	ME TESTED	RF TESTED	LISTER
		邹一麟	刘蒋军	



深圳市中天迅通信技术有限公司

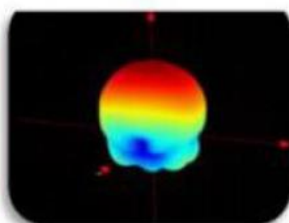
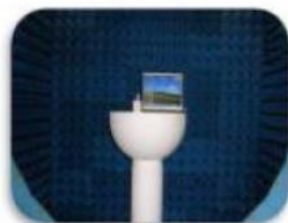
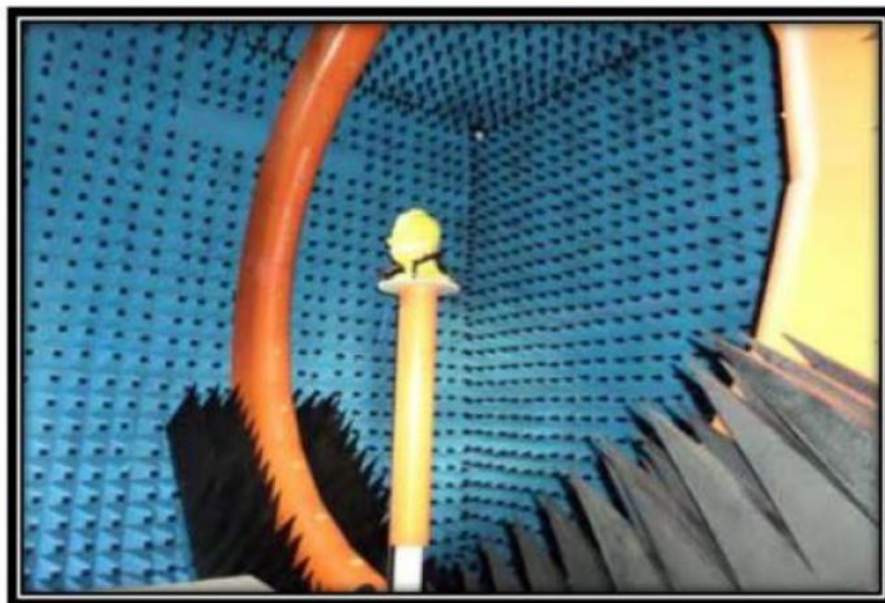
SHENZHEN ZHONGTIAN XUN Communication Technology Co., Ltd.

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Address: Tenada Industrial Park. Shilong Avenue. Shivan Town. Baoan District. Shenzhen

# Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

Testing range:

Support active, passive testing of GSM/CDMA/WCDMA/TD-SCDMA/LTE/WIFI/WLAN/WiMax/BT/GPS/MIMO/UWB within 0.4-6G.



# Test equipment

Equipment	Manufacturer	Model No.	Series	Last cal.	Dul date
网络分析仪	Keysight	E5071C	MY47002902	2023. 04. 20	2024. 04. 19
网络分析仪	Agilent	E5071C	MY46521960	2023. 04. 20	2024. 04. 19
SG24天线测试系统	SATIMO	SG24		2023. 04. 20	2024. 04. 19

Test software	Satimo.Spm
Test standard	GB/T 9410-2008

# Test procedure

## Test Step Flow

1. Maintain the test ambient temperature of 23±2 C, the instrument is powered on and preheated for more than 30 minutes
2. Turn on the darkroom power supply, connect the test cable, and set up the sample according to the standard
3. Outline sets the test content objectives and conducts calibration tests
4. Run the EMQuest OTA software, the test is complete, export the corresponding test diagram and test data, and save to the corresponding directory

## Test Principle

The test principle can be seen in accordance with the standard ANSI/IEEE std 149-2021

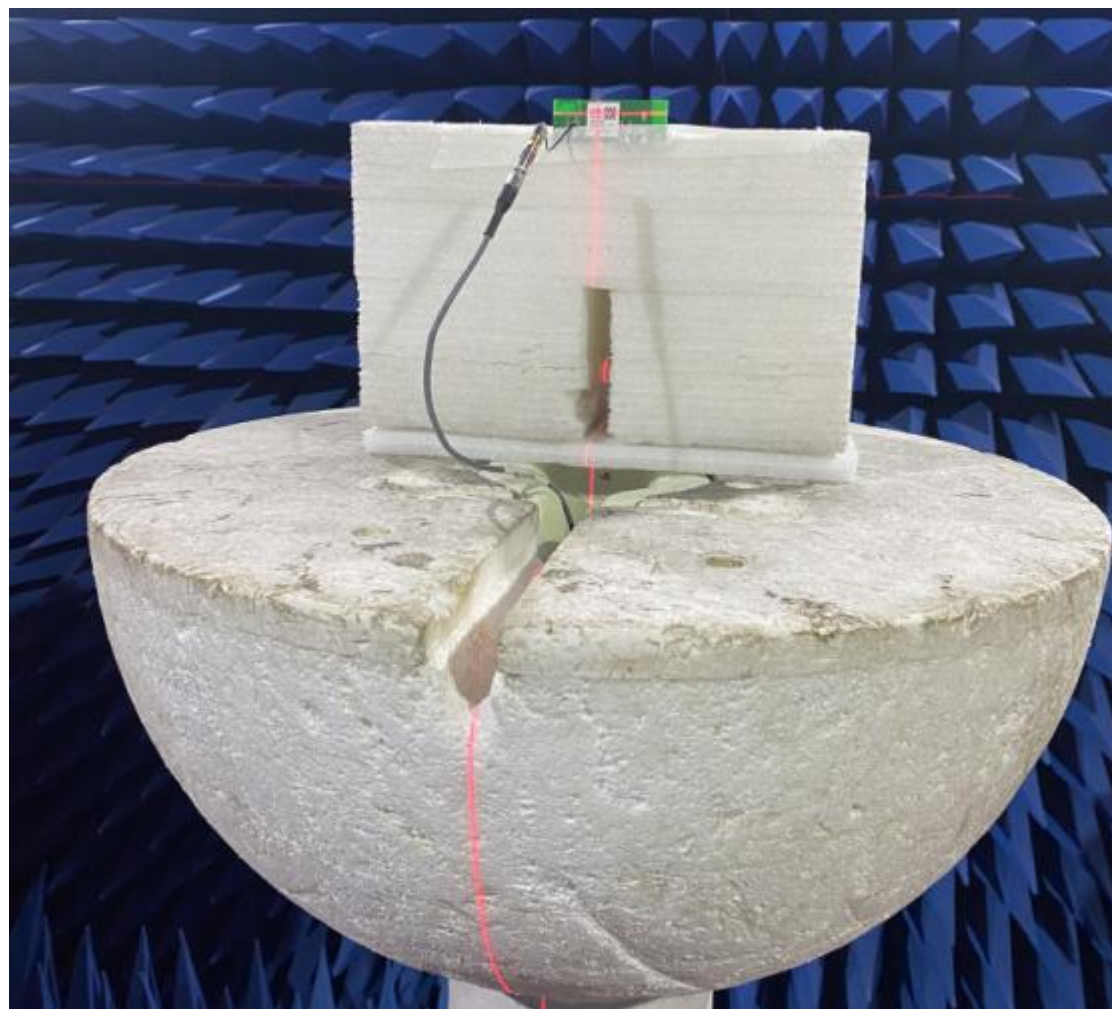
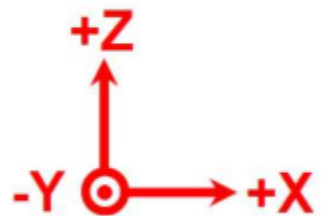
## Test Conditions

1. The analyte, the network analyzer for testing, the test equipment and the test cable connector should have good reliability, stability, dynamic range and measurement accuracy to ensure the correctness of the measurement accuracy
2. The measuring instrument should have a certificate of conformity and be within the effective calibration period
3. The analyte should be complete and undamaged, and the test environment should be kept clean

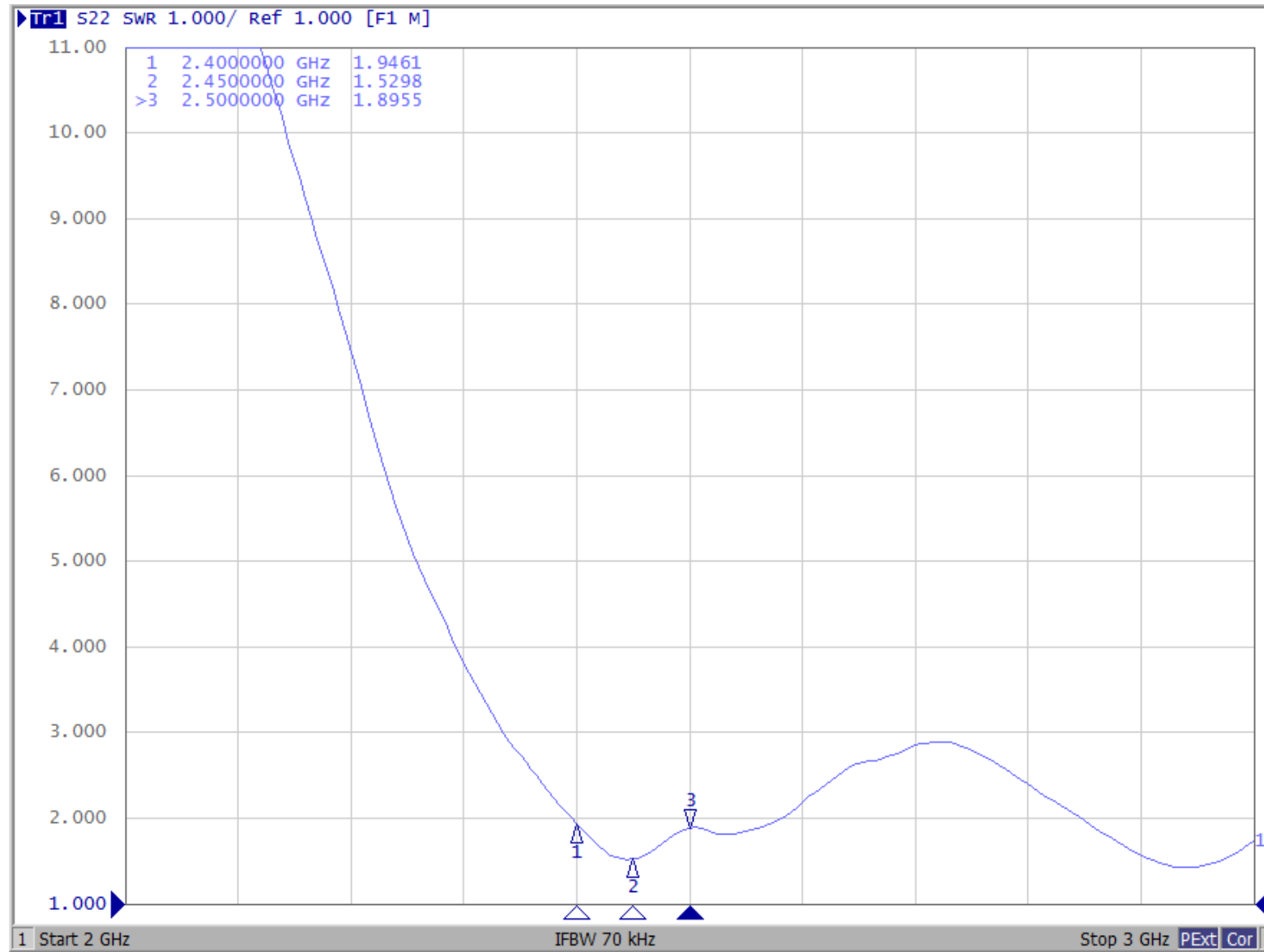
# Test photo



# Test environment

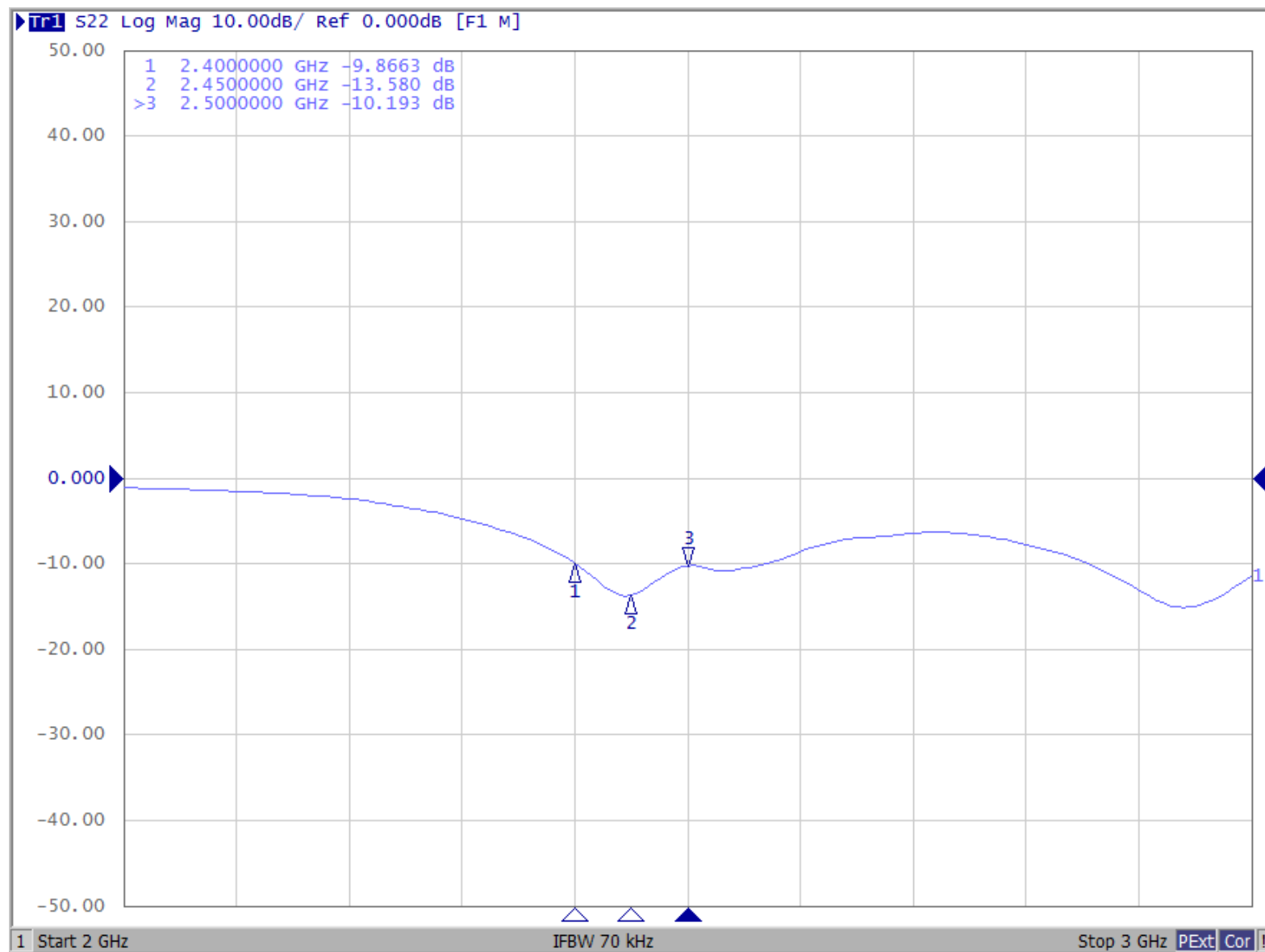


# Test data (BT-VSWR)





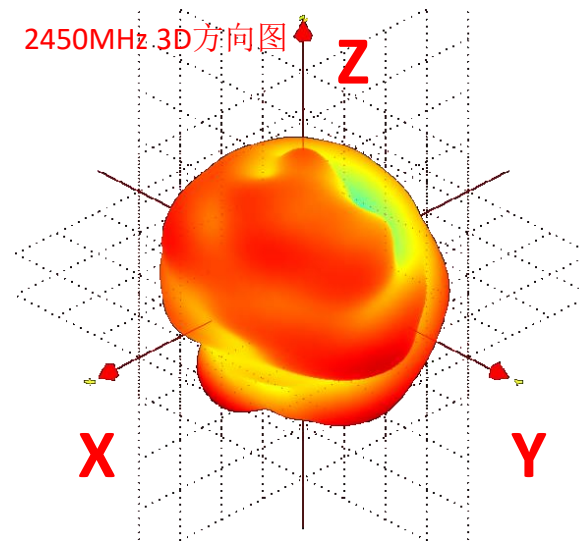
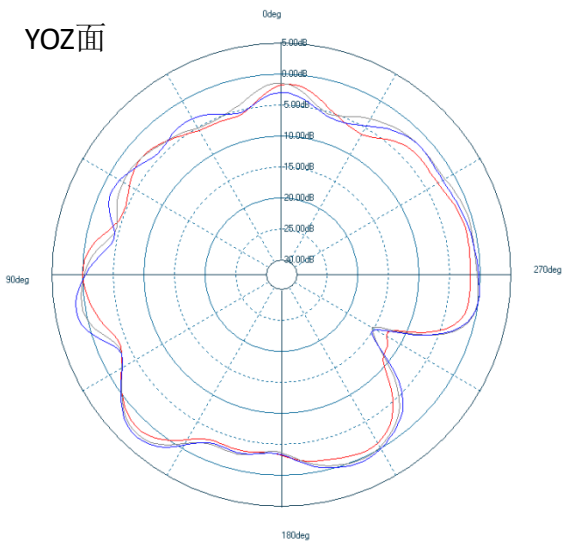
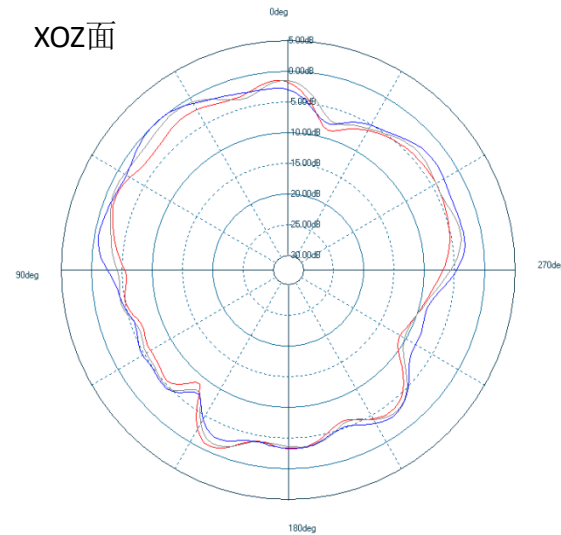
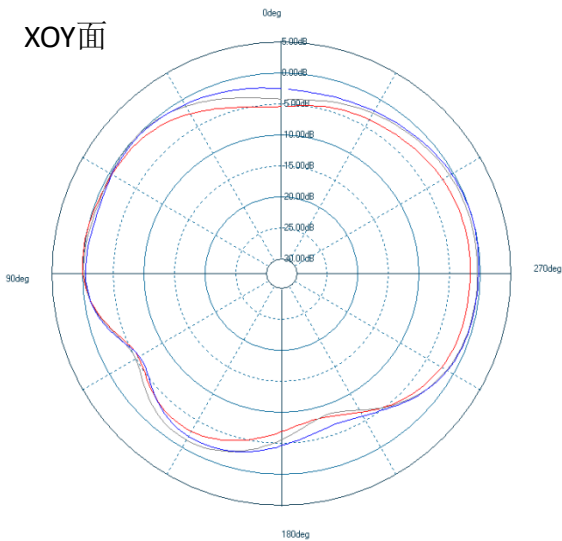
# Test data (BT-return loss)



## Test data (BT- Efficiency/Gain )

Frequency Mhz	Efficiency		Peak Gain
	%	dB	dB
2400	47.07	-3.27	3.62
2410	46.54	-3.32	3.33
2420	49.56	-3.05	3.48
2430	51.24	-2.90	3.31
2440	52.86	-2.77	3.61
2450	53.11	-2.75	3.90
2460	52.73	-2.78	3.93
2470	55.40	-2.57	3.84
2480	55.74	-2.54	3.77
2490	55.57	-2.55	3.92
2500	55.06	-2.59	3.99

# Test data ( Directional drawing of horizontal plane )



# Thank You

