



WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)

DONGGUAN AEON TECH CO.,LTD.(CHINA)

SPECIFICATION FOR APPROVAL

CUSTOMER: 同維

PART NAME: RF Antenna Assembly

PART NO.: REVISION:

W. Y. P/NO.: C6319-510335-A(SZ2207-065) REV.: X1

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :		
DATE :		

WHA YU GROUP

WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)

譚裕實業股份有限公司

Address: No. 326, Sec. 2, Kung Tao 5 Road, Hsin Chu City, Taiwan, R.O.C.

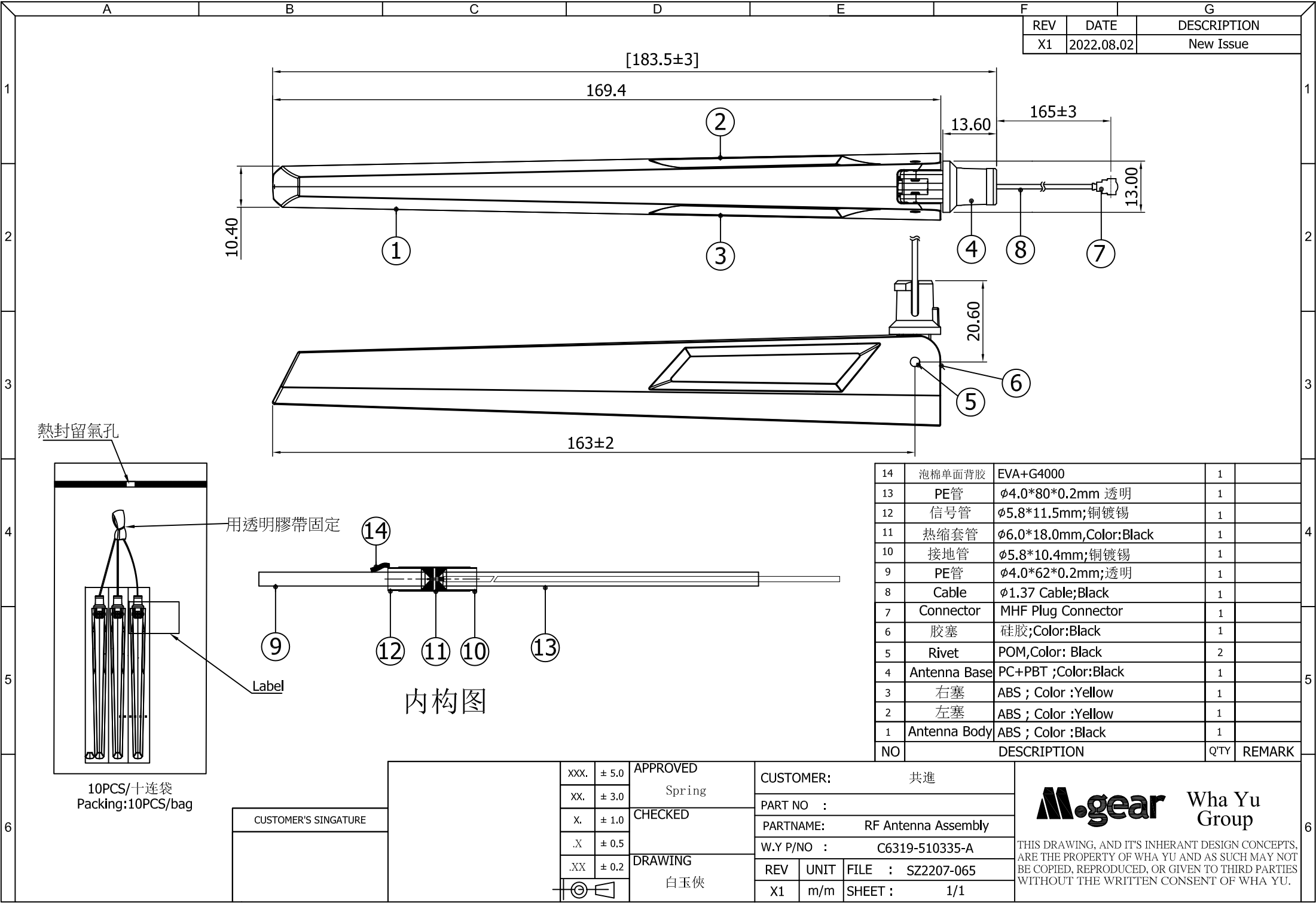
Tel:+886-3-5714225(REP.) Fax:+ 886-3-5713853 · + 886-3-5723600

DONGGUAN AEON TECH CO.,LTD.(CHINA)

東莞台霖電子通訊有限公司

Address:Hupan Industrial District,Tai Ling Shan Town,Dong Guan City,Guangdong,China

Tel:+86-769-85655858 Fax:+86-769-85655258



REV	DATE	DESCRIPTION
X1	2022.08.02	New Issue

14	泡棉单面背胶	EVA+G4000	1	
13	PE管	φ4.0*80*0.2mm 透明	1	
12	信号管	φ5.8*11.5mm;铜镀锡	1	
11	热缩套管	φ6.0*18.0mm,Color:Black	1	
10	接地管	φ5.8*10.4mm;铜镀锡	1	
9	PE管	φ4.0*62*0.2mm;透明	1	
8	Cable	φ1.37 Cable;Black	1	
7	Connector	MHF Plug Connector	1	
6	胶塞	硅胶;Color:Black	1	
5	Rivet	POM,Color: Black	2	
4	Antenna Base	PC+PBT ;Color:Black	1	
3	右塞	ABS ; Color :Yellow	1	
2	左塞	ABS ; Color :Yellow	1	
1	Antenna Body	ABS ; Color :Black	1	
NO	DESCRIPTION		Q'TY	REMARK

CUSTOMER'S SINGATURE		xxx.	± 5.0	APPROVED Spring	CUSTOMER: 共進		
		xx.	± 3.0		PART NO :		
		X.	± 1.0	CHECKED	PARTNAME: RF Antenna Assembly		
		.X	± 0.5		W.Y P/NO : C6319-510335-A		
		.XX	± 0.2	DRAWING 白玉俠	REV	UNIT	FILE : S22207-065
		X1	m/m		SHEET : 1/1		



Wha Yu Group

THIS DRAWING, AND IT'S INHERANT DESIGN CONCEPTS, ARE THE PROPERTY OF WHA YU AND AS SUCH MAY NOT BE COPIED, REPRODUCED, OR GIVEN TO THIRD PARTIES WITHOUT THE WRITTEN CONSENT OF WHA YU.

Antenna Test Report

Version: V 1.00

Released Date: 2022/08/02

Prepared By: Xiao dong

Reviewed By: Daniel



WHA YU INDUSTRIAL CO., LTD.
TEL : 886-3-5714225 FAX : 886-3-5713853 / 5723600¹
Website : www.whayu.com
E-mail : market@whayu.com

Contents

- Revised History
- Conclusion & Comments
- Specification
- Antenna Placement & Solution
- Test Setup for S-parameter Measurement
- Return Loss Results
- Isolation Results
- Test Setup for Radiation Pattern Measurement
- 2D Radiation Pattern Results
- Results Summary (return loss, isolation, peak gain, efficiency)

Revision History

Released Date	Version	Record
2022/08/02	1.00	Antenna Testing Report NEW Project

Specification

Requirements of Antenna Design

RF Function	Number of ANT	Frequency Band	Remark
WIFI	1	5150~5850 MHz	

Requirements of Measurement

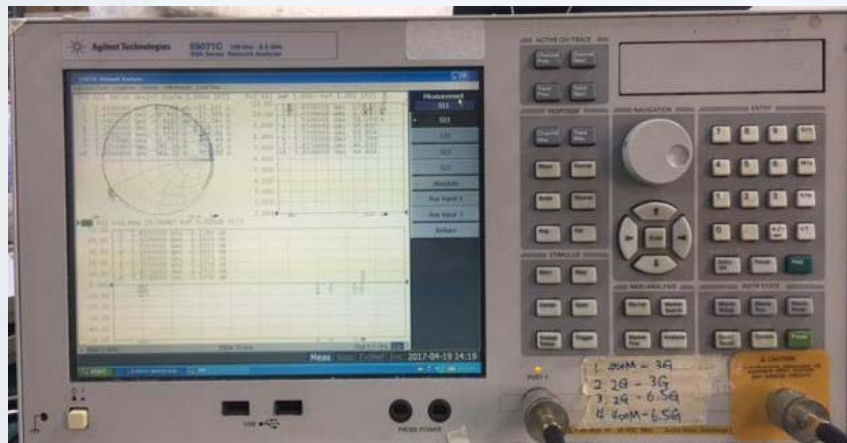
Test Item	Specification	Remark
VSWR	≤ 2.0	
Peak gain	≥ 2.0 dBi	
Efficiency	> 60 %	

Antenna Placement & Solution



Antenna	ANT Type	Size (L * W * H)	Cable Length (mm)	Cable Type
WIFI	Dipole	NA	NA	NA

Test Setup for S-parameter Measurement

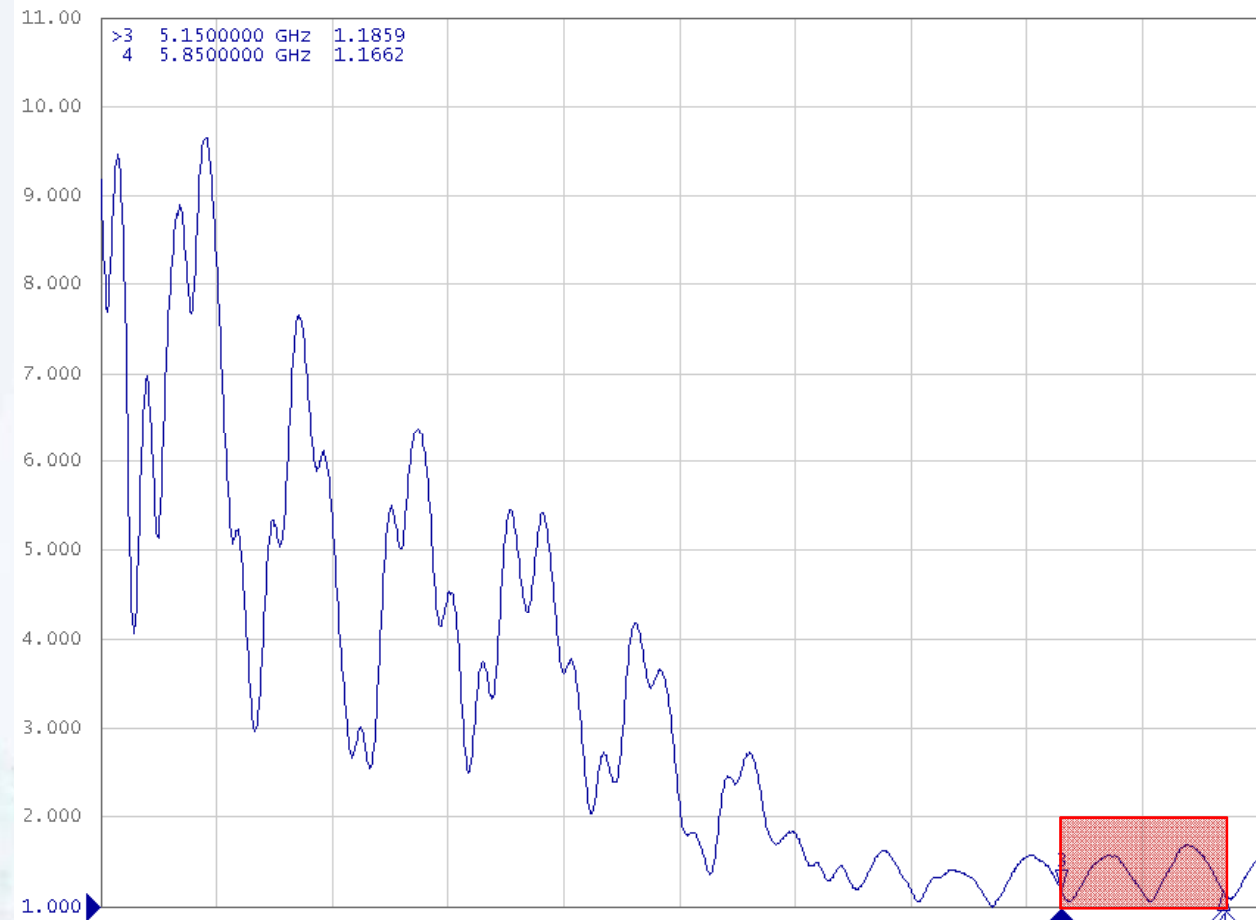


Equipment	Brand	Model	S/N
Network Analyzer	Keysight	E5071C	MY46107744

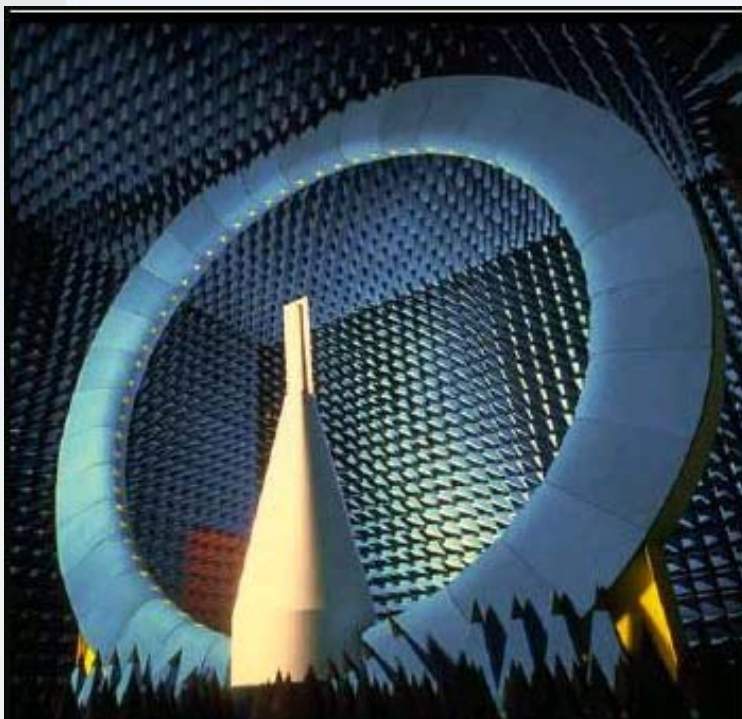
VSWR Results

Antenna (5150~5850 MHz)

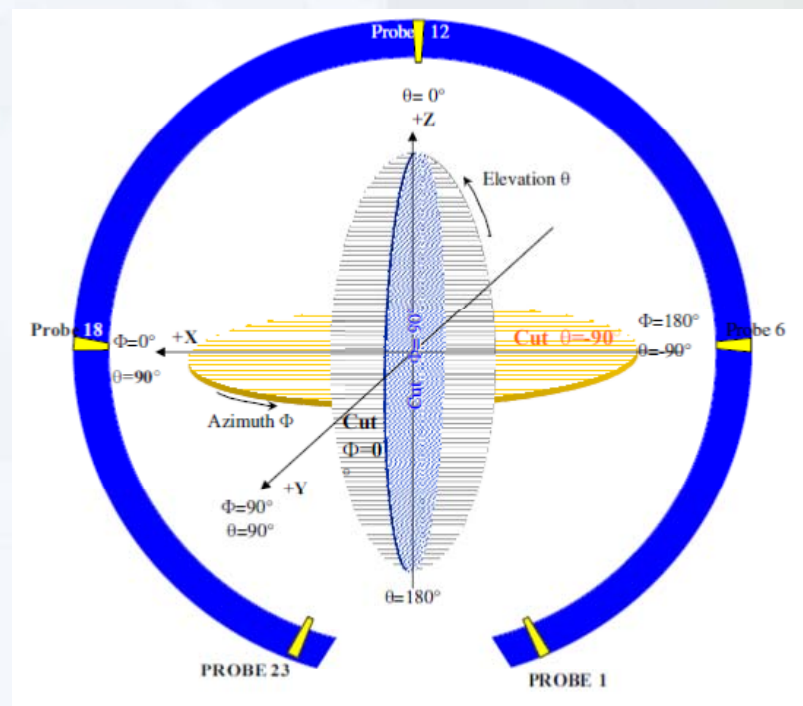
F1 S11 SWR 1.000/ Ref 1.000 [F2]



Chamber Information

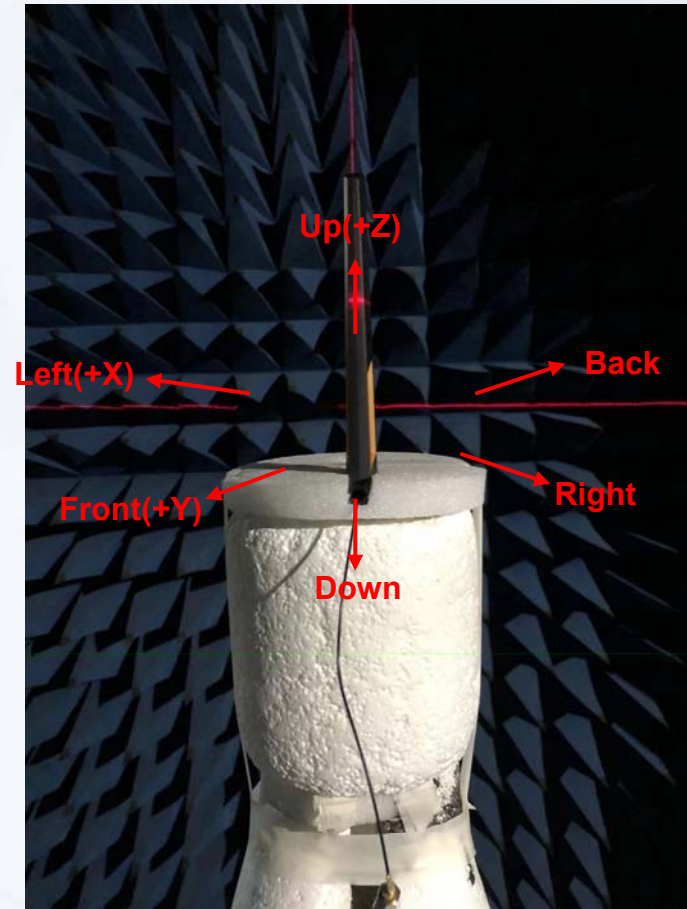
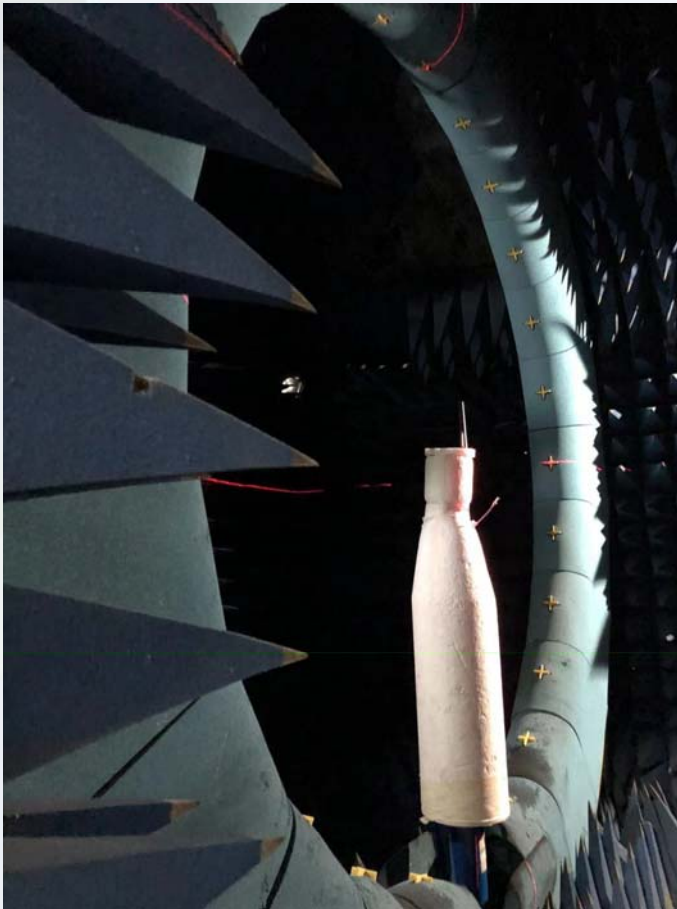


Chamber	Brand	Model	Location
SATIMO	SATIMO	SG-24	Suzhou TLSZ



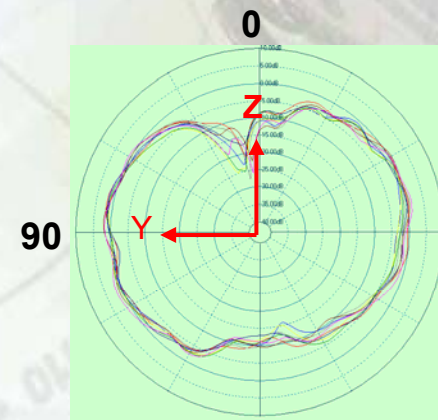
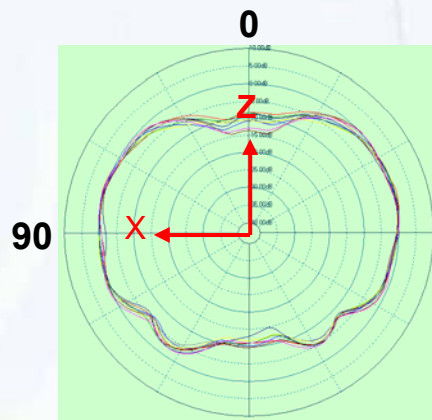
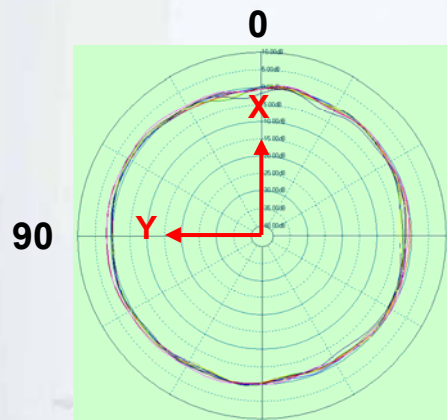
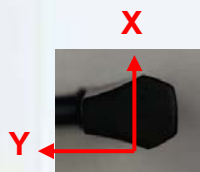
	θ	ϕ
Total angle	175°	360°
How many angle scan one point	5°	5°
Total scan point	36	73

Test Setup for Radiation Pattern Measurement



2D Radiation Pattern Results

Antenna



Results Summary

VSWR

Frequency	Antenna
5150MHz	1.18
5850MHz	1.16

Results Summary

Peak gain & Efficiency –Antenna

Frequency	Peak Gain (dBi)	Efficiency (%)
5150MHz	2.29	67
5250MHz	2.32	66
5350MHz	2.13	65
5450MHz	2.08	64
5550MHz	2.16	64
5650MHz	2.14	63
5750MHz	2.20	67
5850MHz	2.12	72