



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.: C6319-510336-A(SZ2207-066)

REV.: X1

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :		
DATE :		

WHA YU GROUP

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

華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

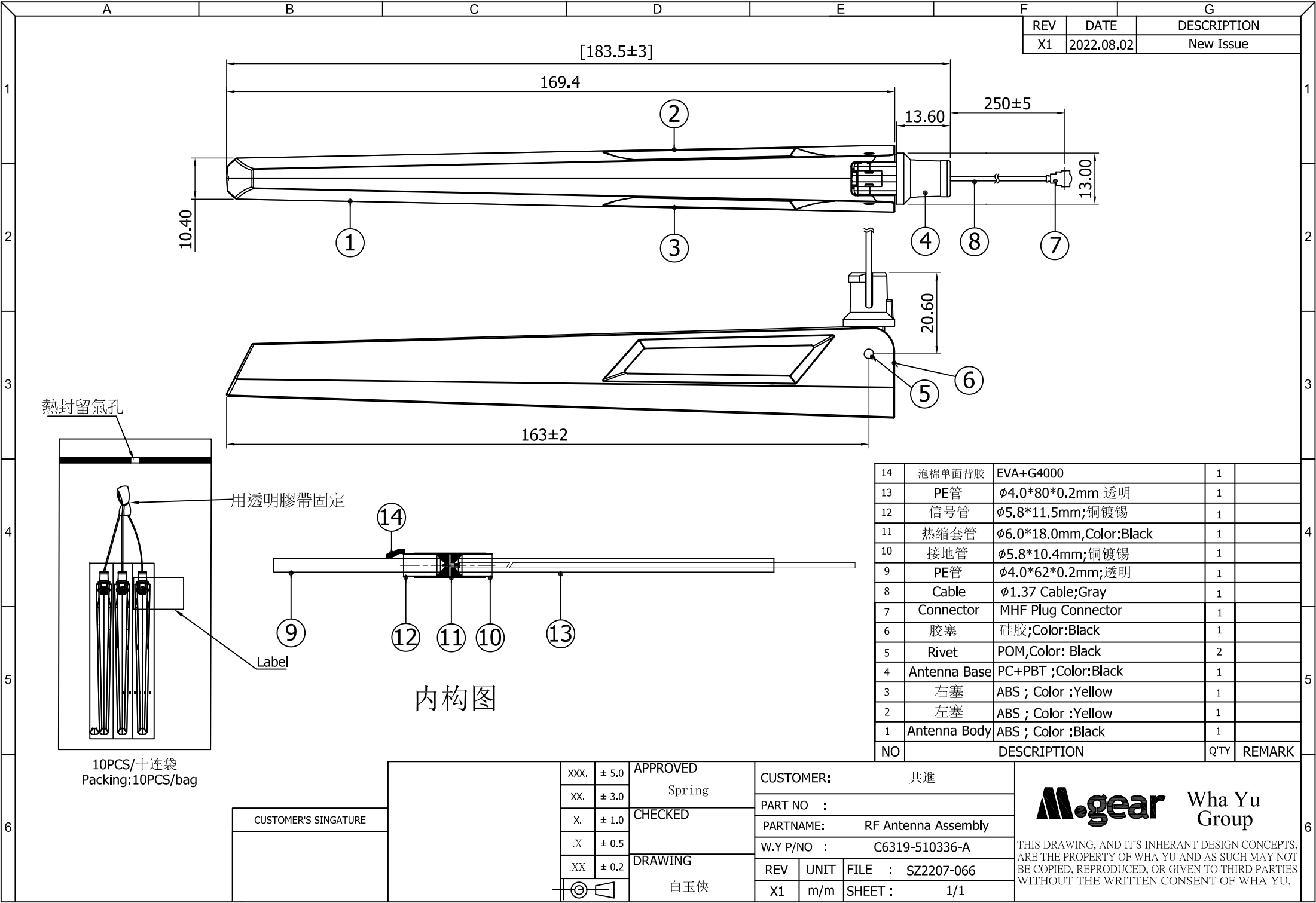
DONGGUAN AEON TECH CO.,LTD.(CHINA)

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;Gray	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

M.gear Wha Yu Group

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CUSTOMER'S SINGATURE	xxx.	± 5.0	APPROVED	CUSTOMER: 共進		
	xx.	± 3.0	Spring	PART NO :		
	x.	± 1.0	CHECKED	PARTNAME: RF Antenna Assembly		
	.X	± 0.5	DRAWING	W.Y P/NO : C6319-510336-A		
	.XX	± 0.2		REV	UNIT	FILE : S22207-066
			白玉俠	X1	m/m	SHEET : 1/1

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 / 5723600
Website : www.whayu.com
E-mail : market@whayu.com

Contents

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- Conclusion & Comments
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- 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

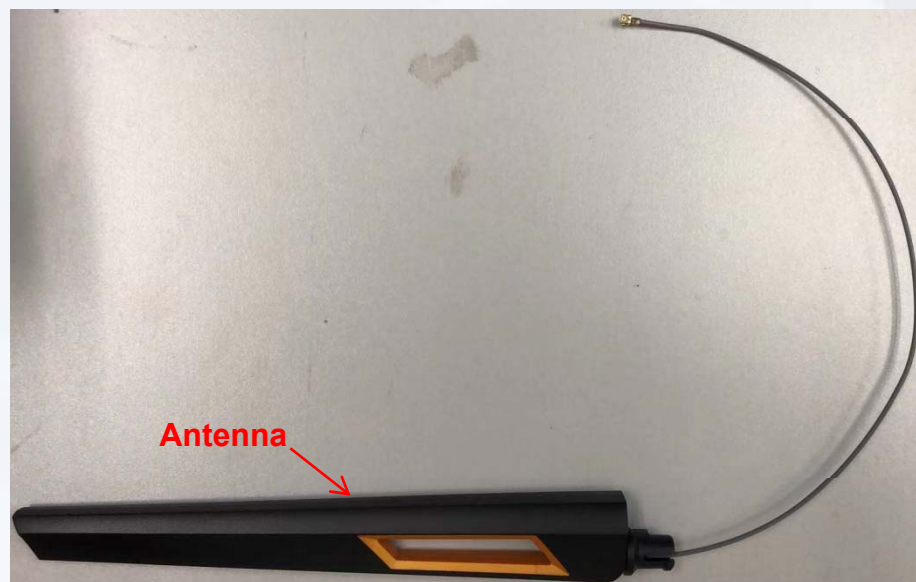
Requirements of Antenna Design

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

Requirements of Measurement

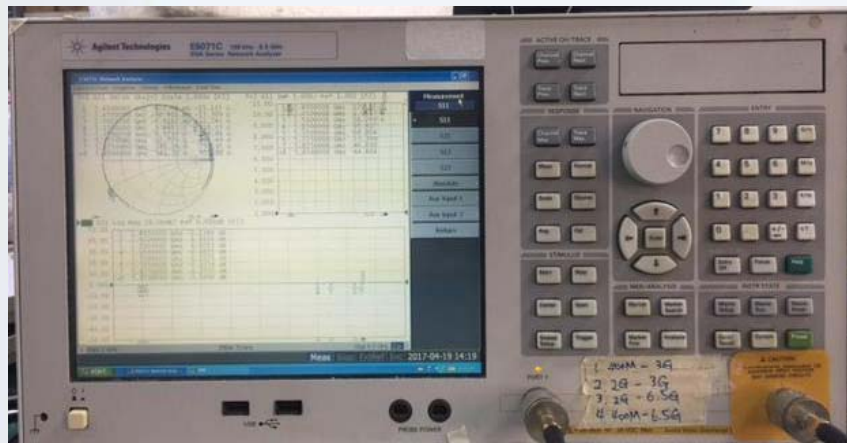
Test Item	Specification	Remark
VSWR	≤ 2.0	
Peak gain	≥ 2.0 dBi	
Efficiency	> 60 %	

Antenna Placement & Solution



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

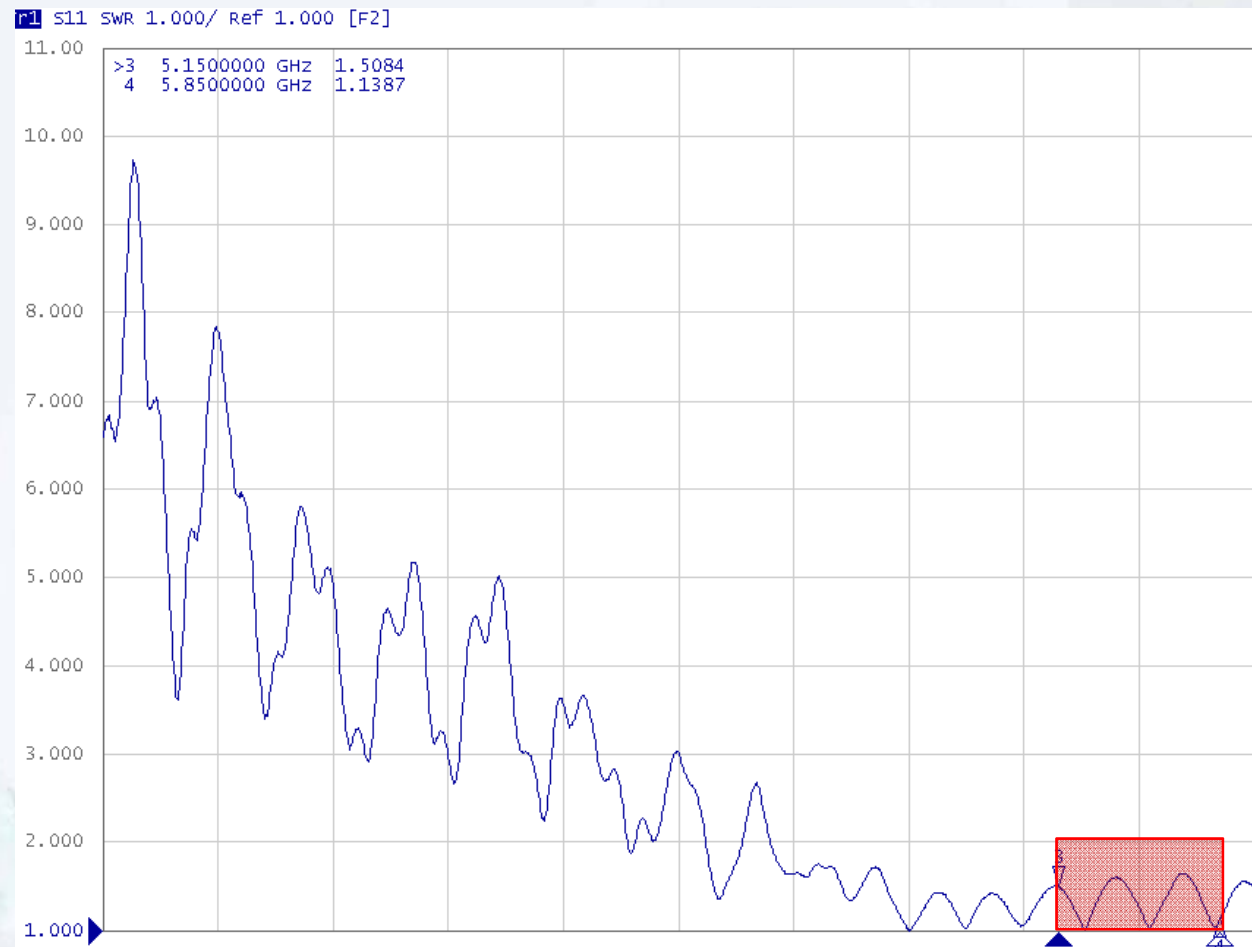
Test Setup for S-parameter Measurement



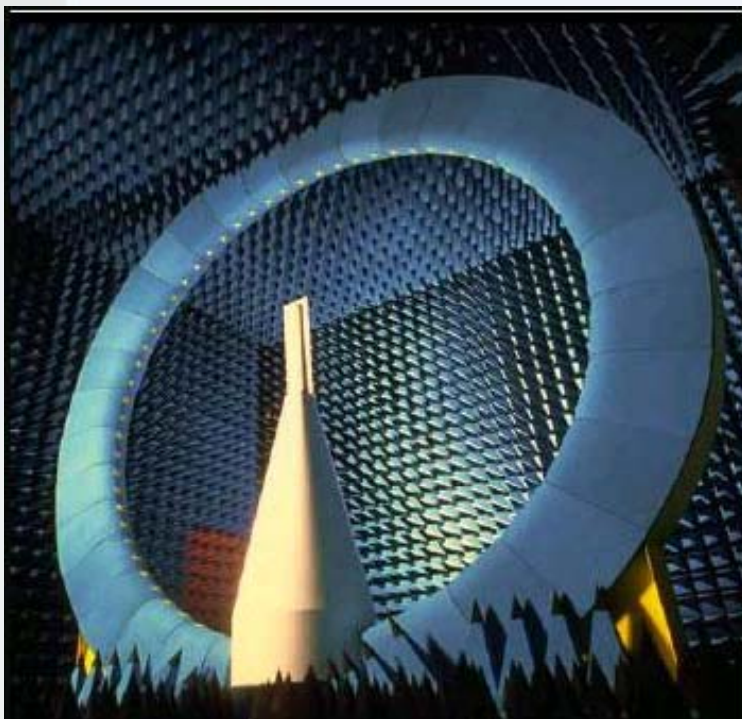
Equipment	Brand	Model	S/N
Network Analyzer	Keysight	E5071C	MY46107744

VSWR Results

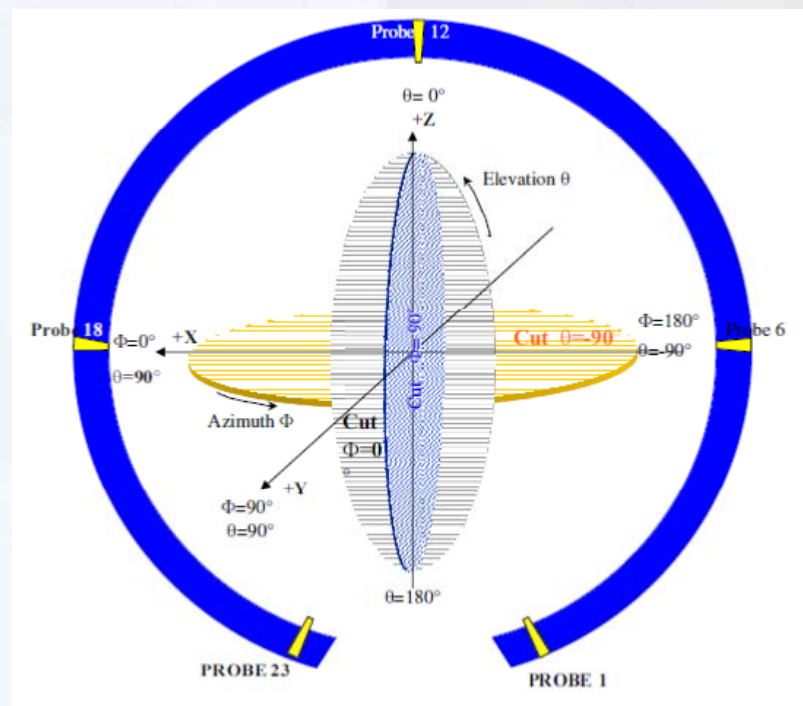
Antenna (5150~5850 MHz)



Chamber Information

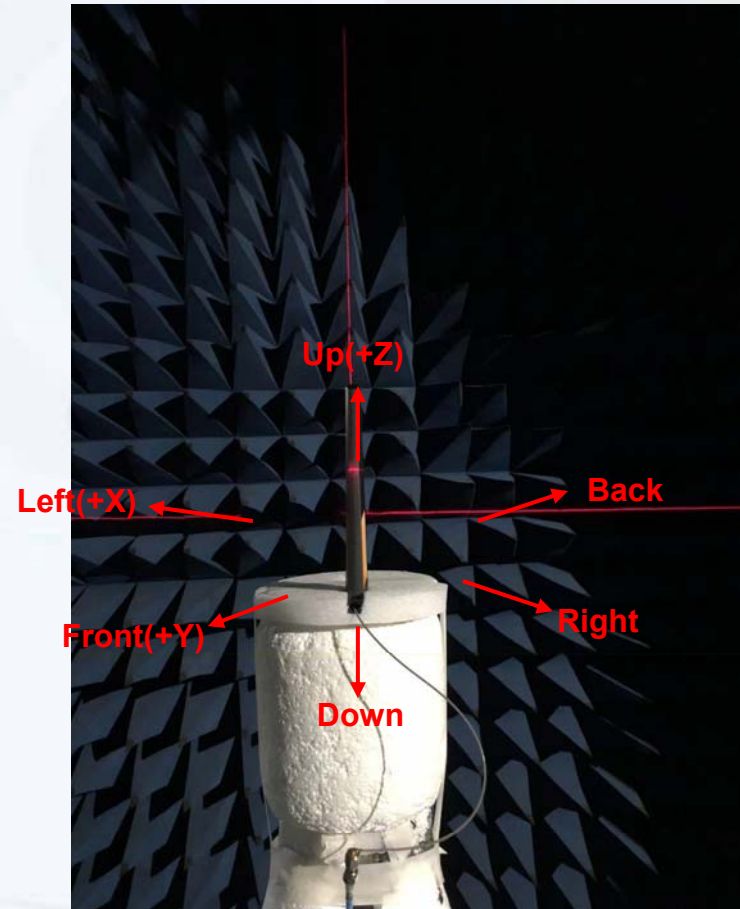
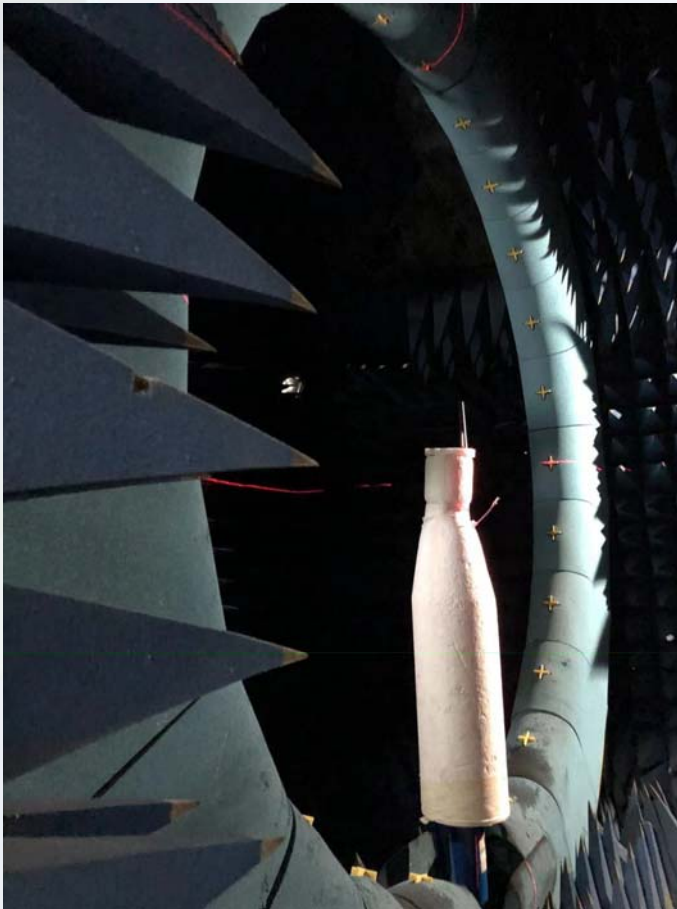


Chamber	Brand	Model	Location
SATIMO	SATIMO	SG-24	Suzhou TLSZ



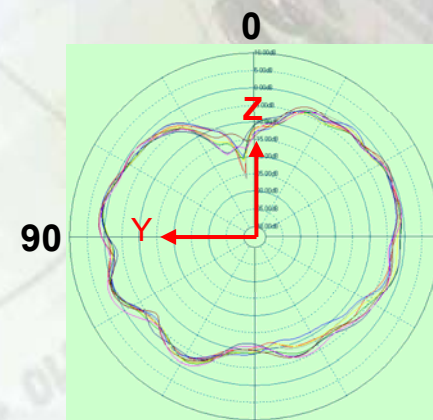
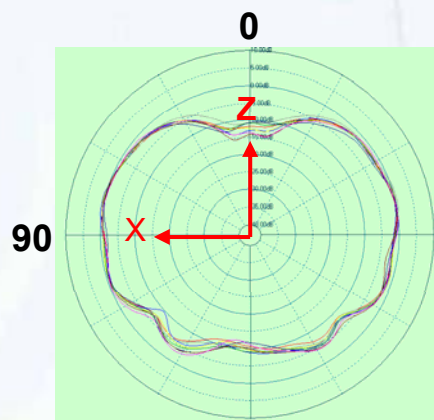
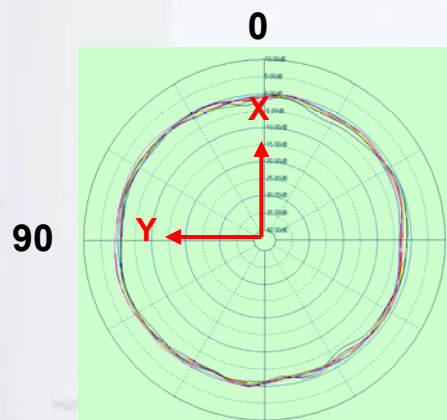
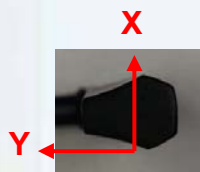
	θ	ϕ
Total angle	175°	360°
How many angle scan one point	5°	5°
Total scan point	36	73

Test Setup for Radiation Pattern Measurement



2D Radiation Pattern Results

Antenna



Results Summary

VSWR

Frequency	Antenna
5150MHz	1.50
5850MHz	1.13

Results Summary

Peak gain & Efficiency –Antenna

Frequency	Peak Gain (dBi)	Efficiency (%)
5150MHz	2.09	60
5250MHz	2.18	63
5350MHz	2.13	62
5450MHz	2.03	61
5550MHz	2.11	63
5650MHz	2.27	62
5750MHz	2.39	61
5850MHz	2.45	65