

Suzhou Point Positive Electronic Technology Co.,ltd

SPECIFICATION FOR APPROVAL

Customer	Hansong (NanJing) Technology Ltd		
Customer P/N	45-2-000509	Rev.	A1
Description	ANTENNA		
DRAWING P/N	RC12WFI0360A1		

CUSTOMER APPROVED BY STAMP	Approval	Quality	RD	Sales
	Roy	Hellen	Tak	Frank

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SPECIFICATION

1. Description	ANTENNA
2. Customer	Hansong (NanJing) Technology Ltd
3. Model No	RC12WFI0360A1
4. Part No	45-2-000509
5. Standard	WIFI
6. Antenna Profile	180mm (see Drawing)
7. Color	GREY
8. Electrical Characteristics	
Operating Frequency	2.4/5.8Ghz
Antenna Type	DUAL BAND
Polarization Type	Omni-directional
Type of Radiation	vertical or horizontal
Peak Gain	2.4~5.8G/ 1.5~2.5 dBi Typica
Impedance	50Ω
V.S.W.R	2:1 Max
9. Mechanical Characteristics	
Swivel	
Lead Length	L:180MM
Connector	MHF CON
10. Raw Material	
Coaxial Cable	MINI1.13
Housing/Hinge	FPC

Research & Development Department

Antenna Measurement

CUSTOMER

:ANT BANDWIDTH :2.4-5.8GHz/FPC PP098

TEST INSTRUMENT

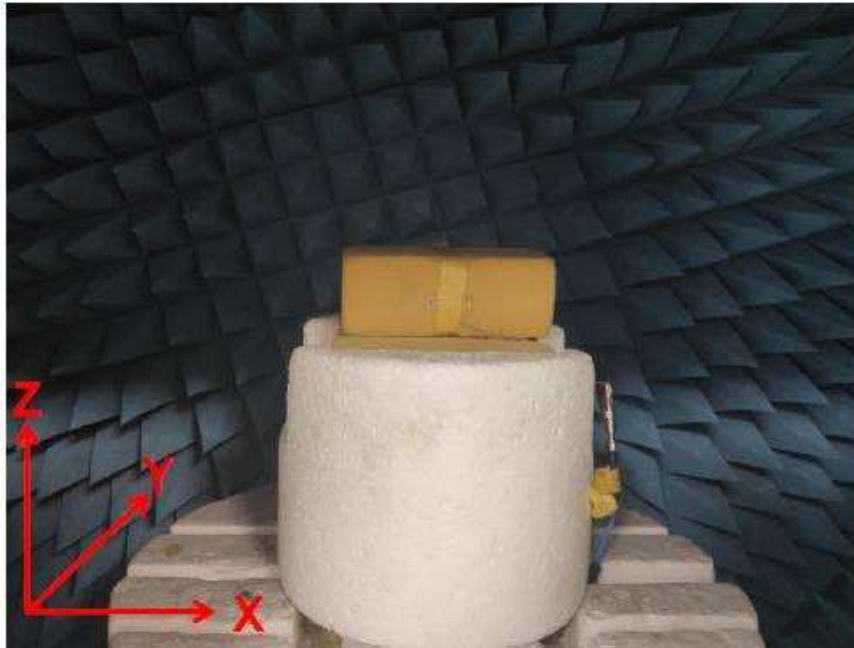
1. AGILENT E5071C

NETWORK ANALYZER

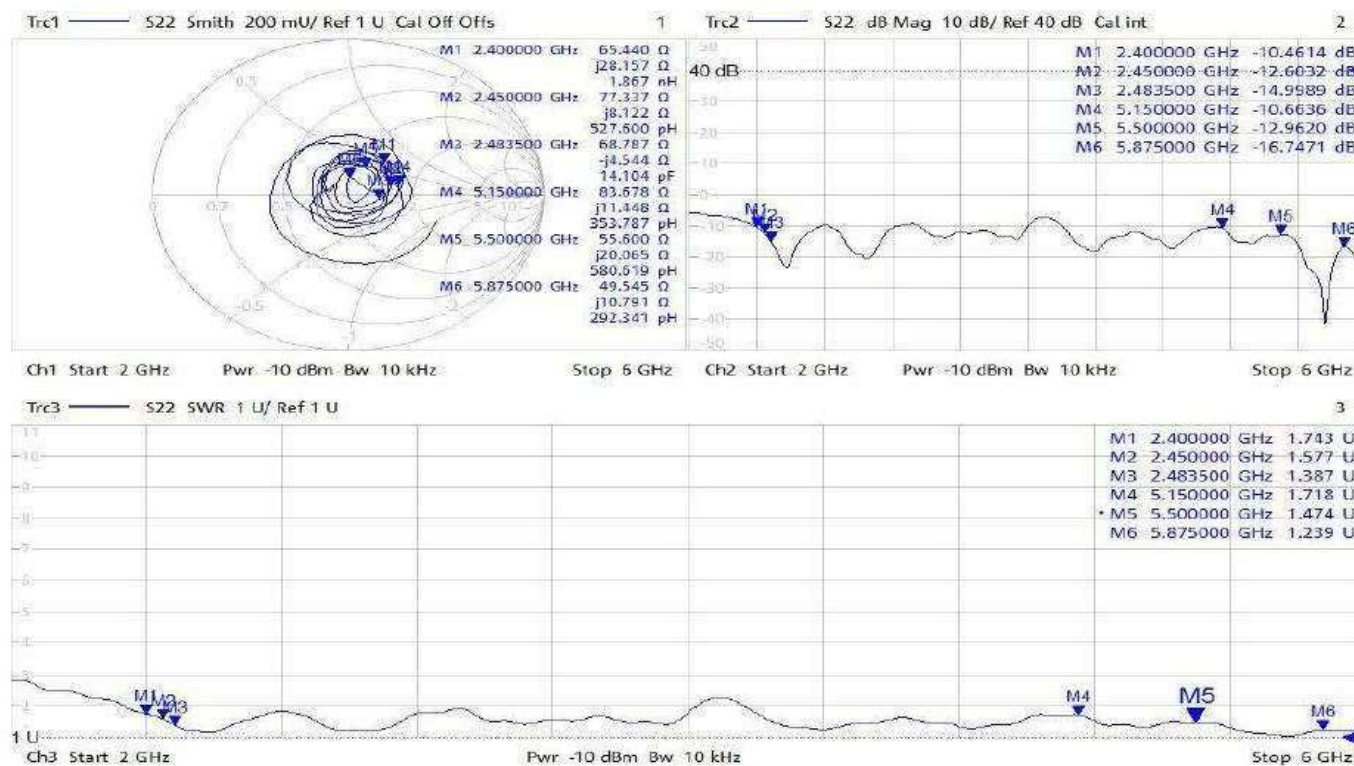
2.Sporton ETS OTA Chamber

ENGINEER: JASON_LI

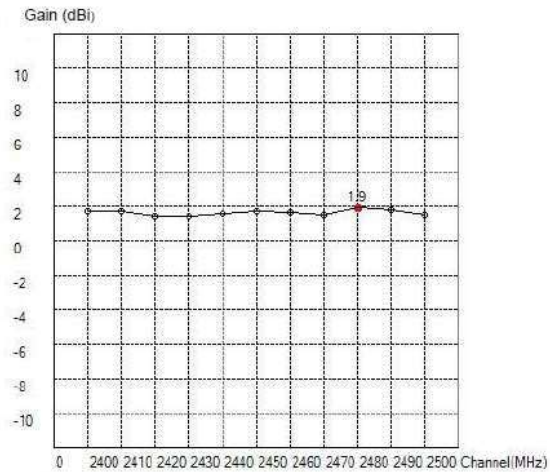
COORDINATE OF STRUCTURE:



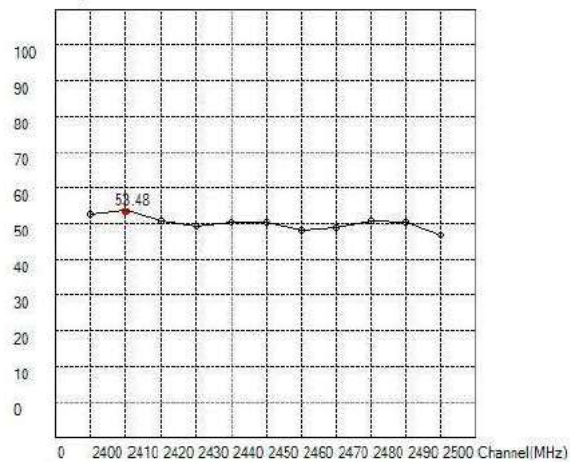
ANTENNA Return loss/Smith /vswr



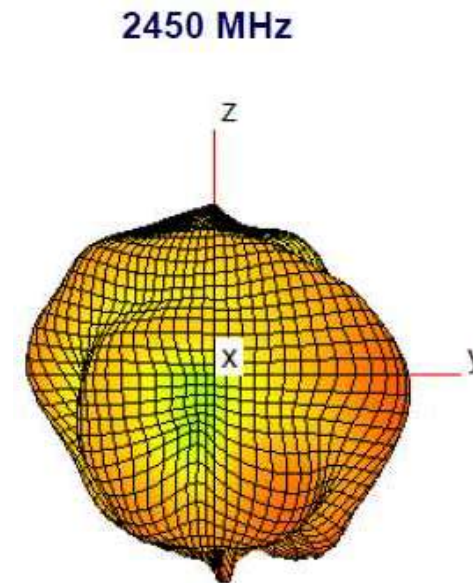
ANTENNA Gain/Efficiency



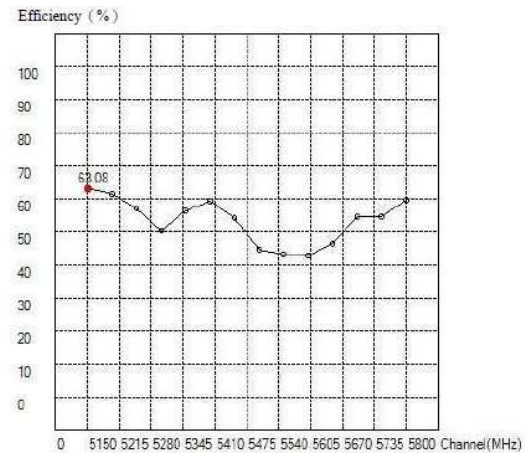
Maximum Peak Gain at 2480 MHz : 1.9 dBi
Efficiency (%)



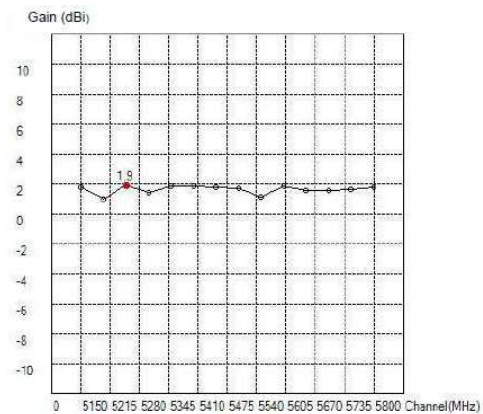
Maximum Efficiency at 2410 MHz : 53.48 %



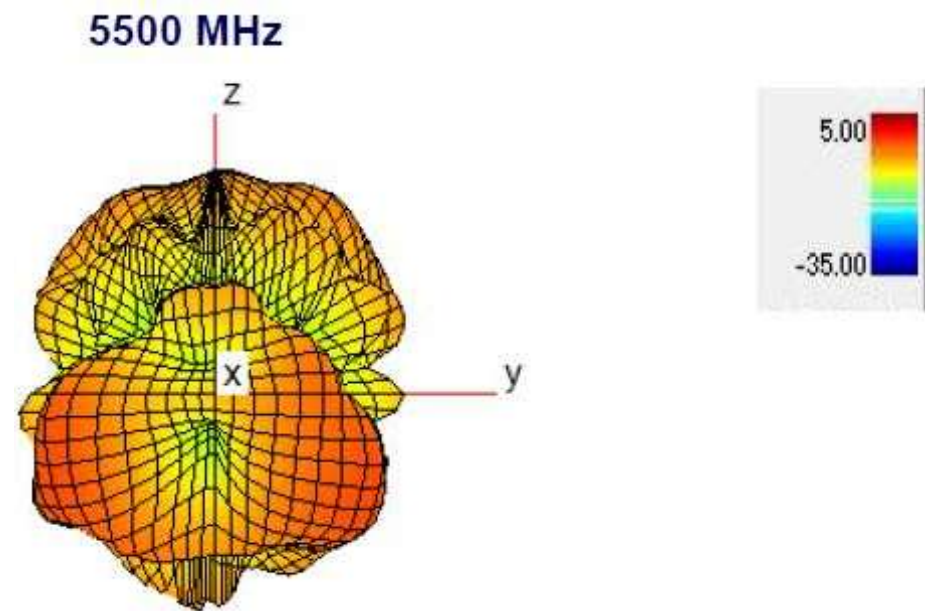
ANTENNA Gain/Efficiency



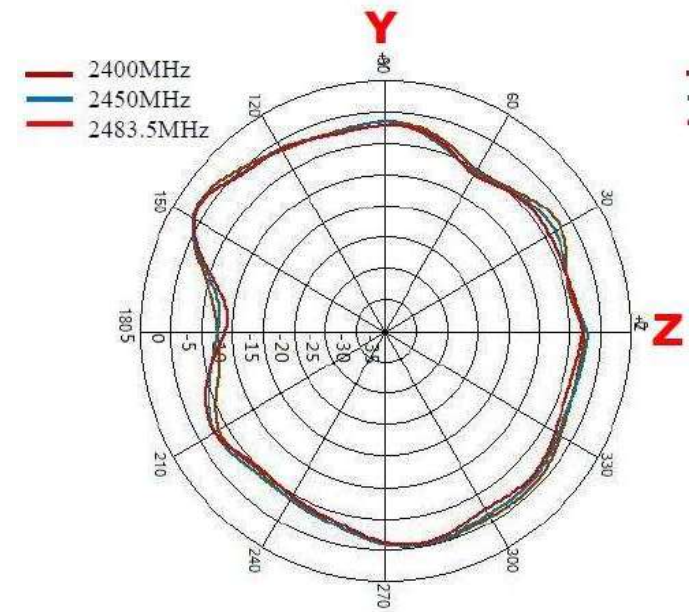
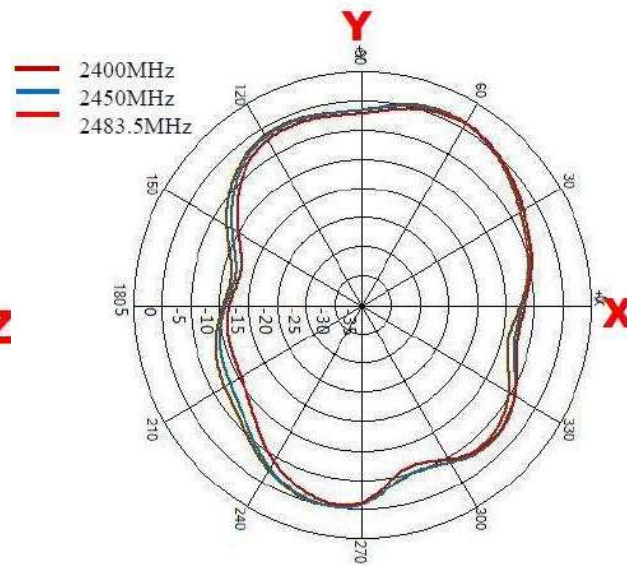
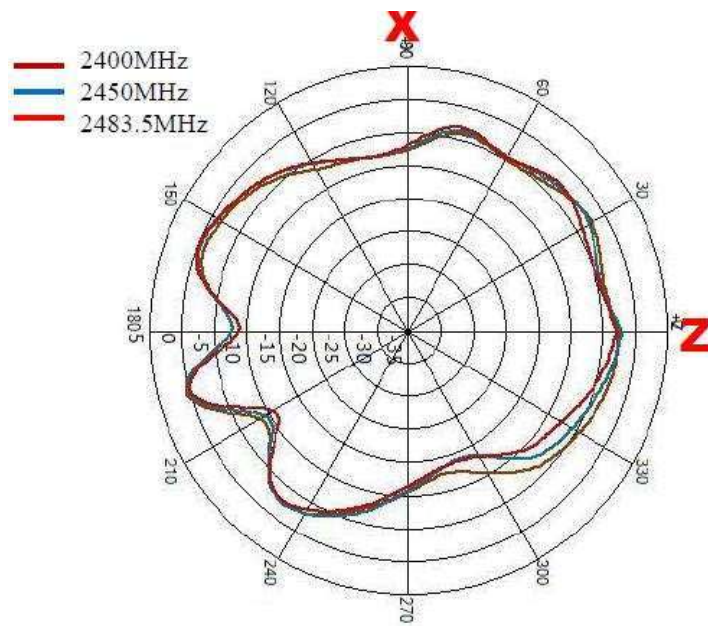
Maximum Efficiency at 5150 MHz : 63.08 %



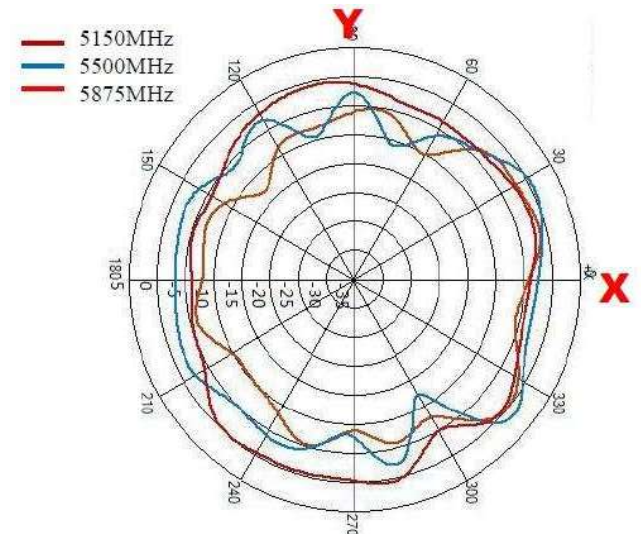
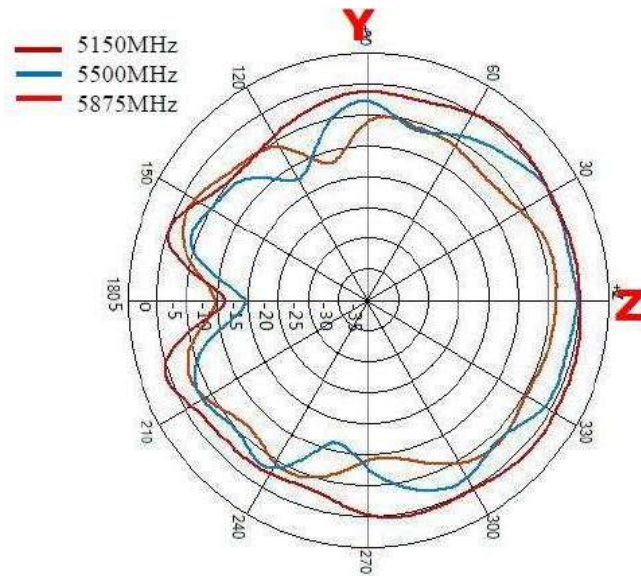
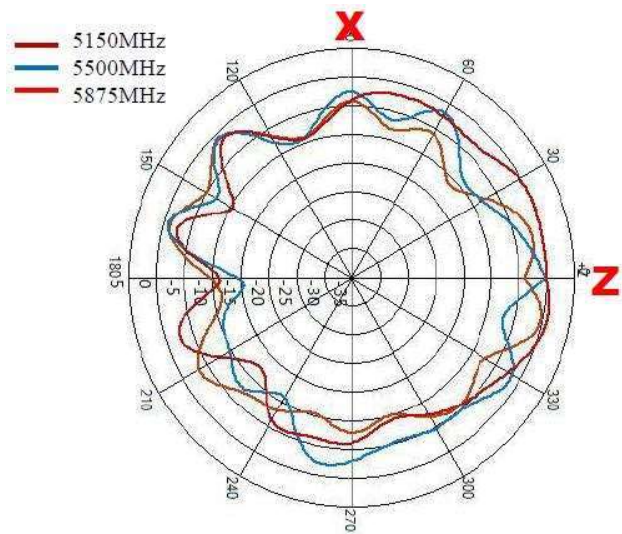
Maximum Peak Gain at 5250 MHz : 1.90 dBi



X-Z Plane/Y-X Plane/Y-Z Plane



X-Z Plane/ Y-Z Plane /Y-X Plane



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	0.51	-4.08	1.34	-2.03	1.29	-2.96
2450	0.19	-4.03	1.39	-2.16	1.28	-2.99
2483.5	-0.10	-4.35	1.18	-2.57	1.24	-3.40

	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	-0.35	-4.89	-1.94	-4.86	-0.94	-5.33
5500	-0.06	-3.89	0.25	-3.10	0.58	-3.09
5875	0.78	-3.06	1.23	-0.63	0.05	-2.28