

A 承認書

PPROVAL SHEET

客 戶

Customer name

深圳市悠易视科技有限公司

客戶料號

Customer P/N

品 名

Article Description

WiFi M5内置天线

建碩料號

Kingrf Part No.

KL8RF0024-R

承認號碼

Approval sheet No.

日 期

Date

2016.06.14

客戶承認

FOR CUSTOMER APPROVED

研發	結構:	審核:	核准:
	射頻:	審核:	
客戶審核:		客戶核准:	

承辦 Prepared By	審核 (Checked By)		
	制工 (ME)	品保 (QA)	開發 (R&D)
Jet	Allen	Killy	Sean



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1. Technical Specifications

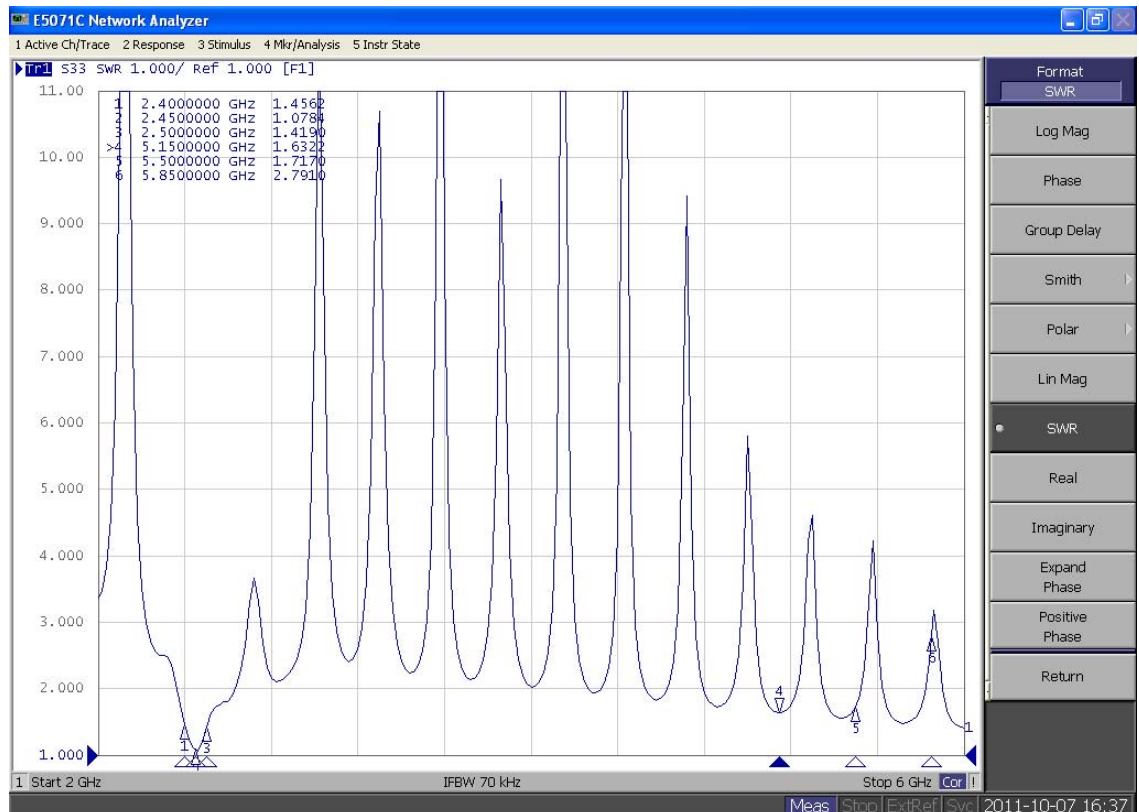
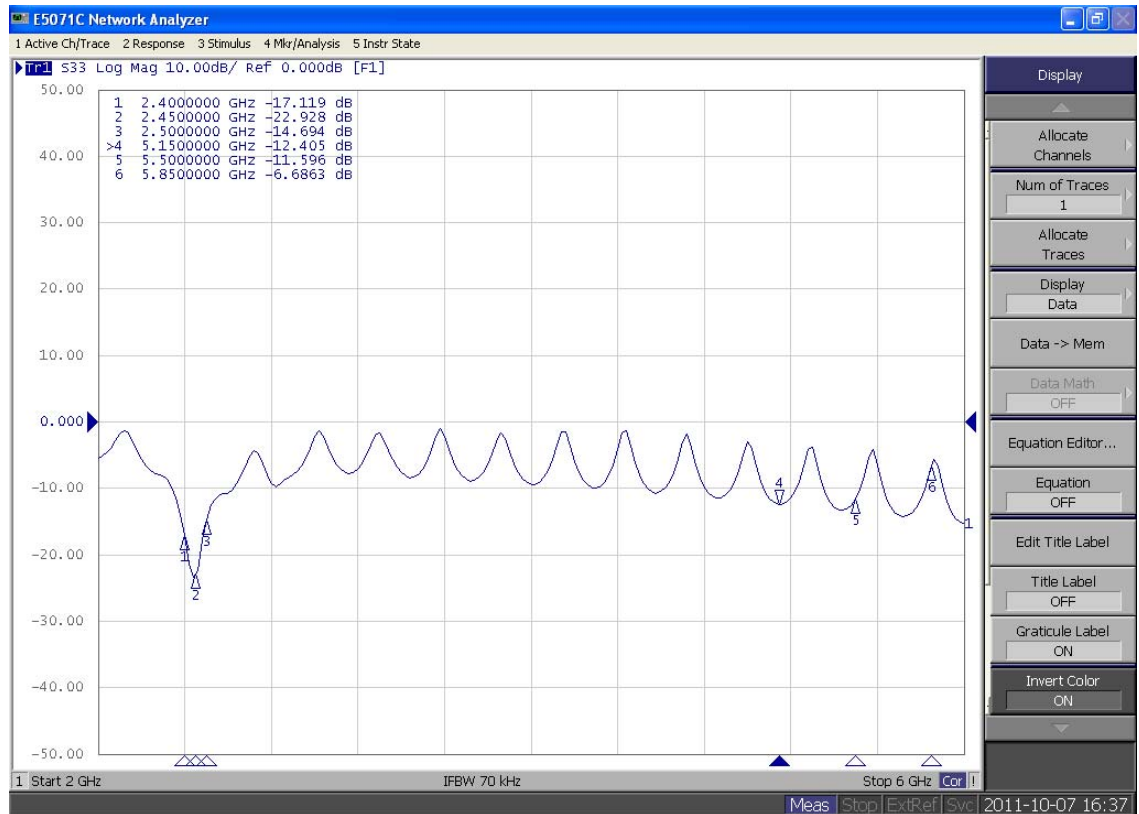
Information	
Customer Name: 深圳市悠易视科技有限公司	
Model Name: Android Tv Box	
Antenna Definition: Internal WIFI Antenna	
A. Electrical Characteristics	
Working Frequency	2400MHz~2500MHz
S.W.R.	2400MHz~2500MHz:<2.0
Antenna Gain	See Page 5~8
Efficiency	2400MHz~2500MHz:>75%
Impedance	50 Ohm
Polarization / Azimuth	Linear / Omni-directional
B. Mechanical Dimension	
Cable Length Of Main Ant	L:100mm(GRAY)
Cable Length Of Aux Ant	
C. Material	
Stamping Metal	FPC antenna
Coaxial Cable	50 Ohm / O.D.1.13mm
Mini Coaxial Connector	I-PEX PLUG
D. Environmental	
Operation Temperature	-20℃~ +65℃
Storage Temperature	-20℃~ +65℃

2. Antenna Testing Summary

Antenna	Frequency (MHz)	Return Loss	VSWR	Efficiency (%)	AVG Gain(dB)
WIFI Main antenna (GRAY)	2400	-17.11	1.45	65	2.91
	2450	-22.92	1.07	76	2.97
	2500	-14.69	1.41	67	3.04

3. Return Loss and S.W.R

3.1.1 Main antenna: Return Loss& S.W.R.

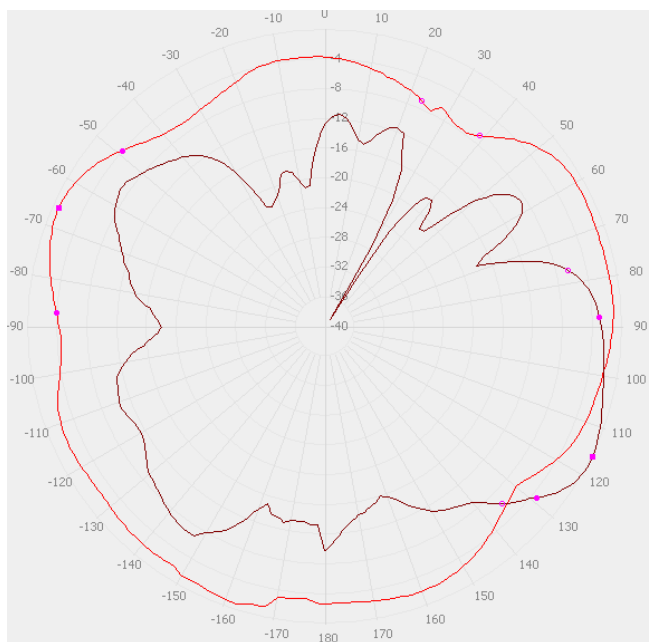


4. Peak Gain Table

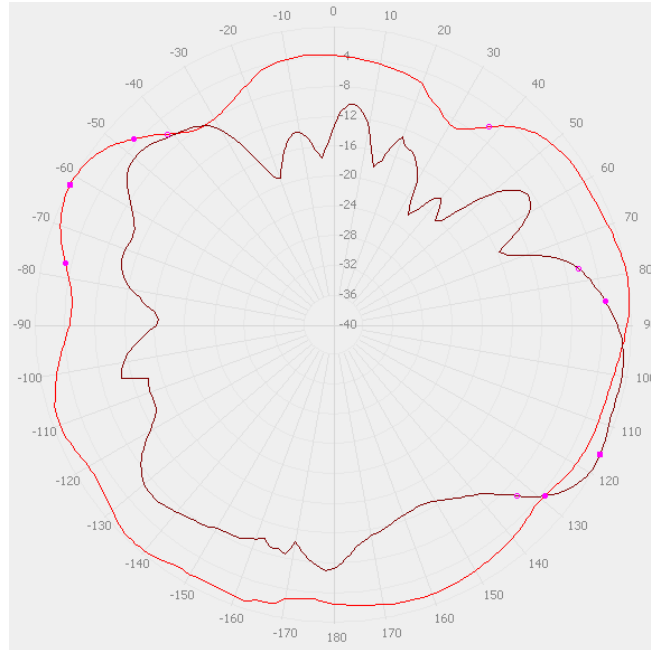
	Main antenna (Black)					
Frequency (MHz)	Horizontal (dBi)	Vertical (dBi)	Total(H + V) (dBi)			
2400	3.15	-0.26	2.91			
2450	3.3	-0.23	2.82			
2500	3.27	-1.72	3.00			

5. Pattern (Brown for Horizontal Polarization and Red for Vertical Polarization)

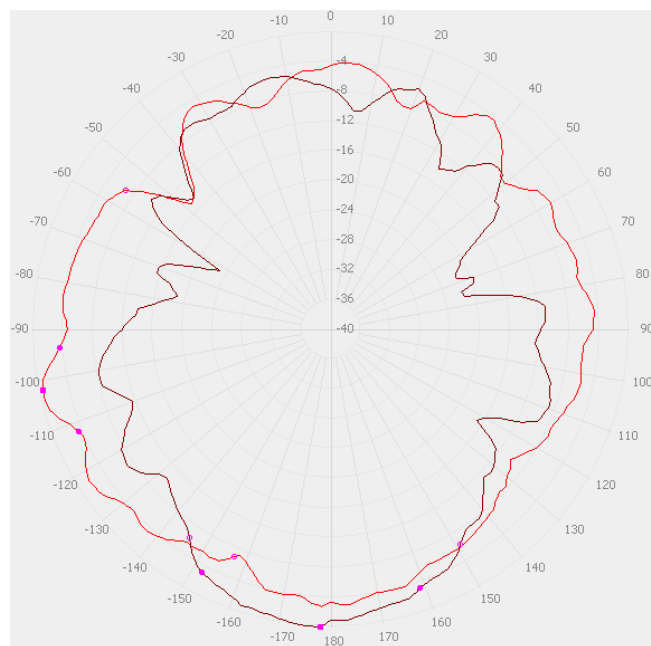
5.1.1 Main antenna: 2400MHz



5.1.2 Main antenna: 2450MHz



5.1.3 Main antenna: 2500MHz



6. Chamber Testing

Testing equipment specification:

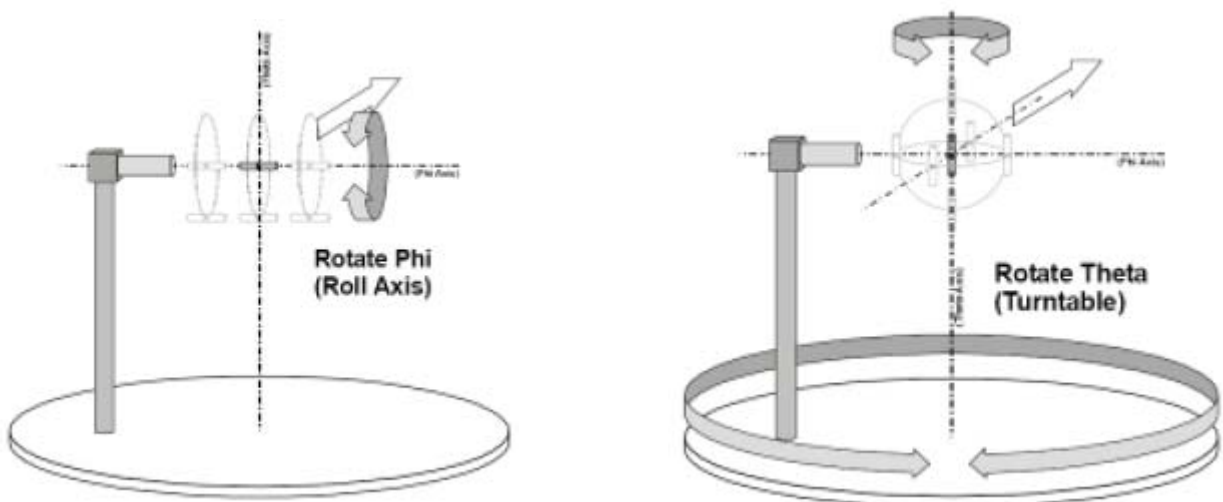
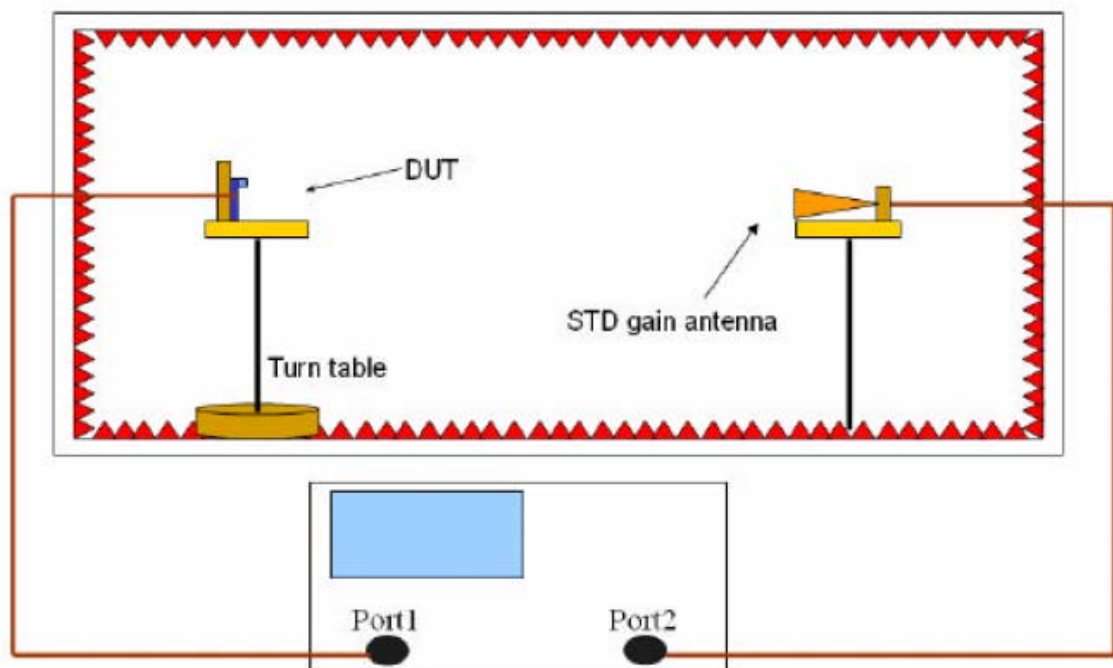
Antenna anechoic chamber dimension: 7*4*4m

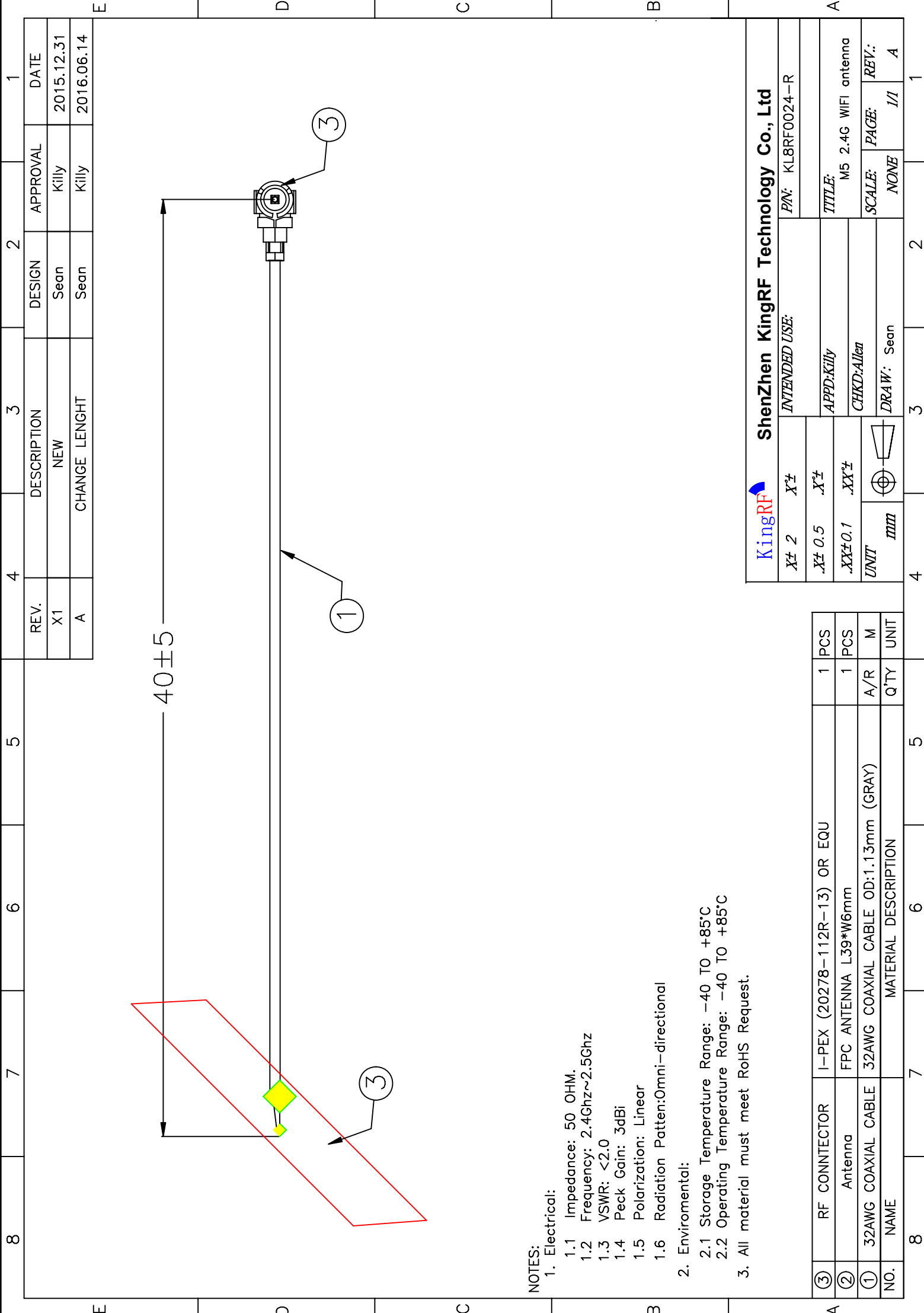
Quiet zone: 600mm @ 1GHz

Isolation: >100dB @ 1MHz~10GHz

Testing equipment: Agilent E5071C

Received antenna: 0.7~6.0GHz for Gain calibration double ridged Horn antenna





NOTES:

- 1. Electrical:
 - 1.1 Impedance: 50 OHM.
 - 1.2 Frequency: 2.4Ghz~2.5Ghz
 - 1.3 VSWR: <2.0
 - 1.4 Peck Gain: 3dBi
 - 1.5 Polarization: Linear
 - 1.6 Radiation Patten:Omni-directional
- 2. Enviromental:
 - 2.1 Storage Temperature Range: -40 TO +85°C
 - 2.2 Operating Temperature Range: -40 TO +85°C
- 3. All material must meet RoHS Request.

③	RF CONNTECTOR	I-PEX (20278-112R-13) OR EQU	1	PCS
②	Antenna	FPC ANTENNA L39*W6mm	1	PCS
①	32AWG COAXIAL CABLE	32AWG COAXIAL CABLE OD:1.13mm (GRAY)	A/R	M
NO.	NAME	MATERIAL DESCRIPTION	Q'TY	UNIT

KingRF Shenzhen KingRF Technology Co., Ltd

$X \pm 2$	$X \pm$	INTENDED USE:	P/N: KL8RF0024-R	
$X \pm 0.5$	$X \pm$	APPD:Killy	TITLE: M5 2.4G WIFI antenna	
$XX \pm 0.1$	$XX \pm$	CHKD:Allen	SCALE: NONE	PAGE: 1/1
UNIT	mm	DRAW: Sean	REV.: A	