

SPECIFICATION FOR APPROVAL

Product: Comnect_PG1830CR-2.4G-1 gray1.13RF Cable+Ipex, L=55mm

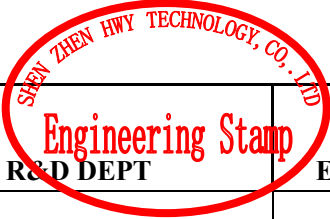
Model: HWY-24PCB-2G-1639

Part Number: 32030141

Written By : Xianjiang Yang

Issued Date: 2023.8.4

HWY:

 R&D DEPT	ENGINEER R&D DEPT	APPROVED
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Change resume

[illegible]

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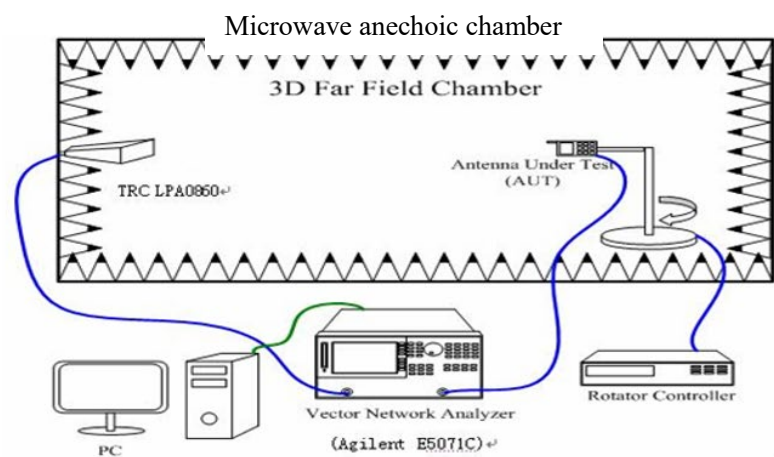
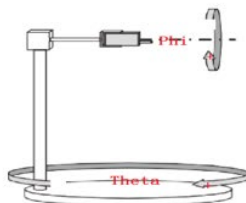
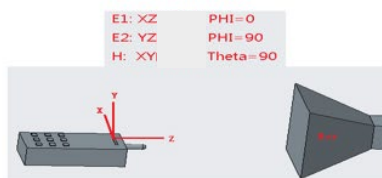
The basic parameters:

A. Electrical Characteristics	
Frequency	2.4 ~2.4835GHz
VSWR	≤ 2.0
Efficiency	>40%
Impedance	50 Ohm
Polarization	Linear
Gain	See the test report for details
Radiation	omnidirectional
B. Mechanical parameters	
Cable Type	1.13mm gray
Connector Type	I-pex
Dimension	L=55mm
Antenna Colour	green
C. Operating/ Storage Temperature	
Operation Temperature	- 20 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C

Test Equipment & Conditions

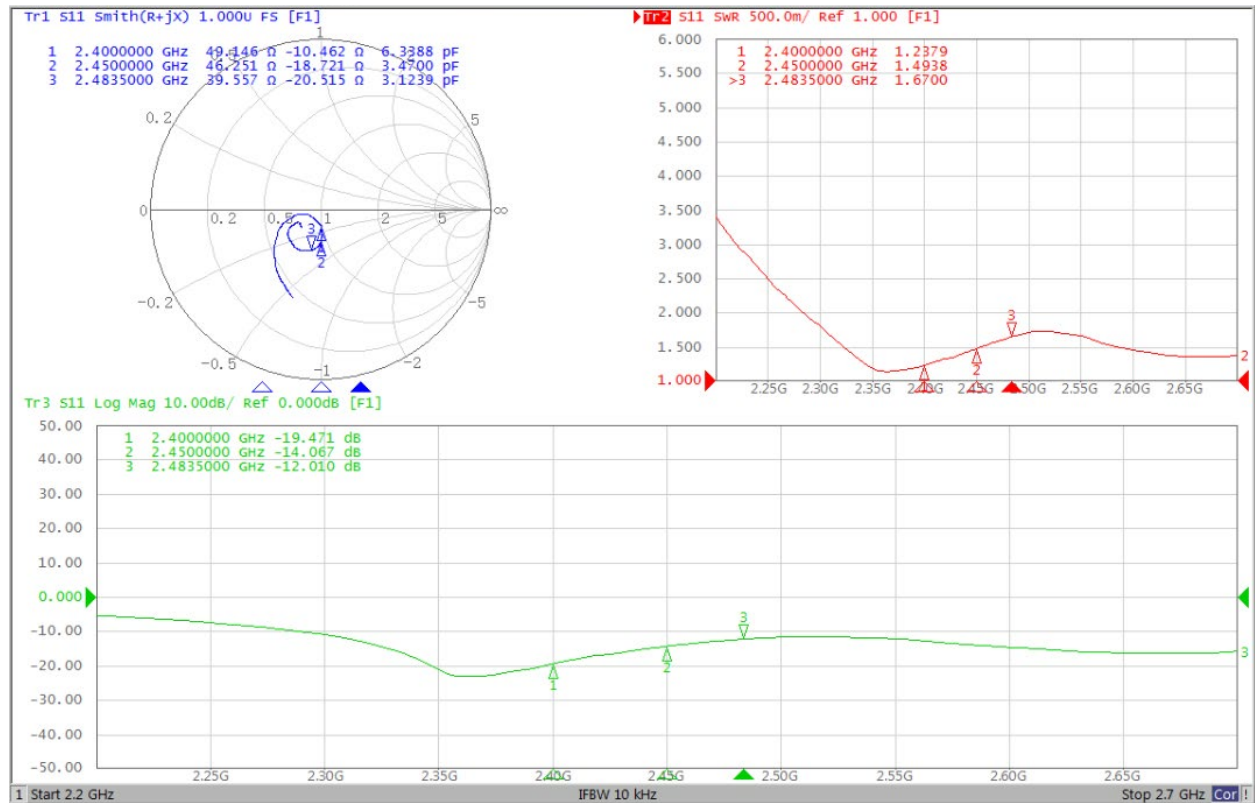
1. Network Analyzers :HP8753D
2. Communications Test Set:
3. 3D Chamber Test System:

network analyzer:HP8753D



Test Data:

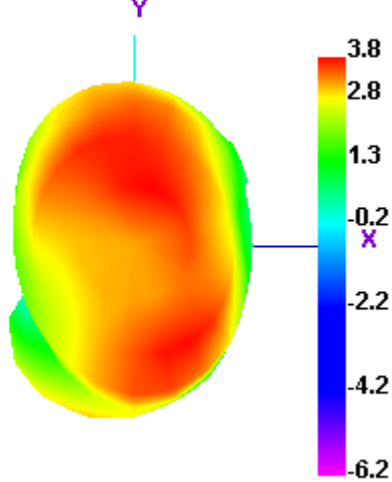
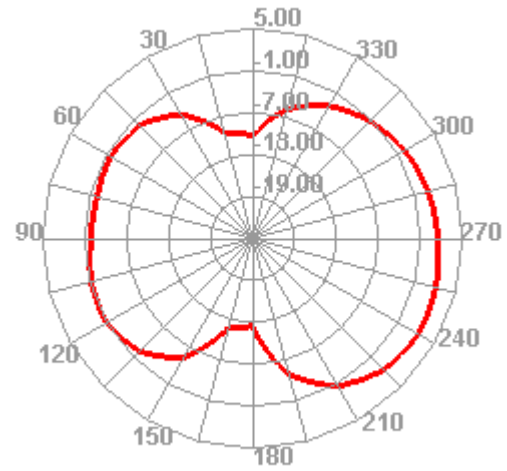
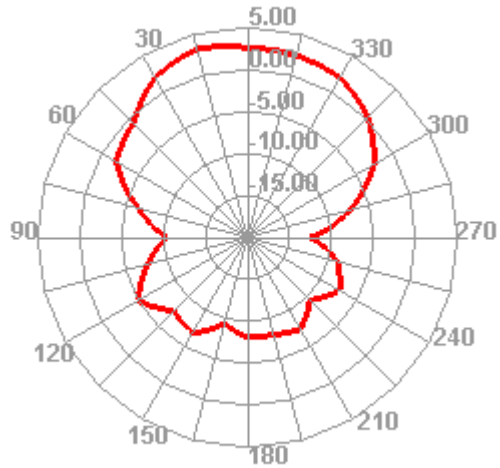
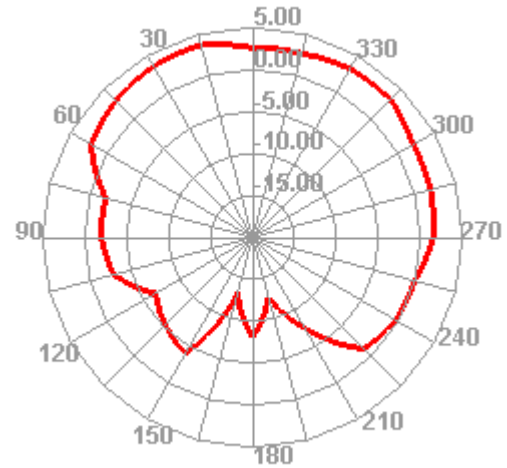
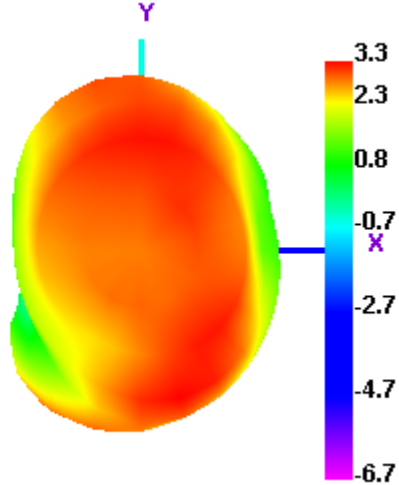
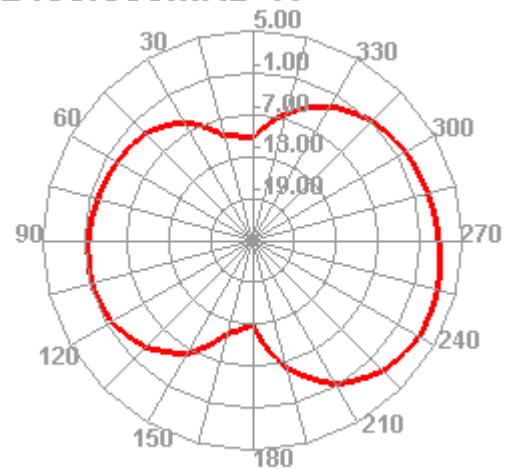
Reflection loss/ VSWR

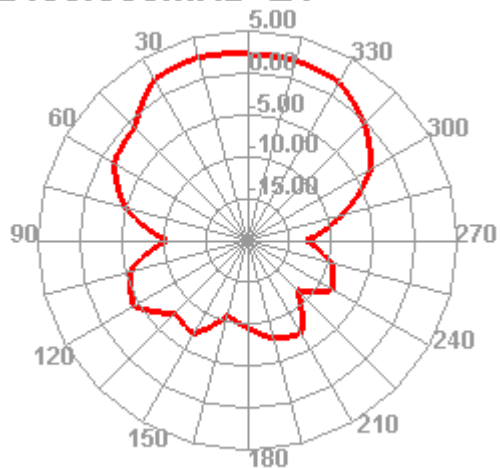
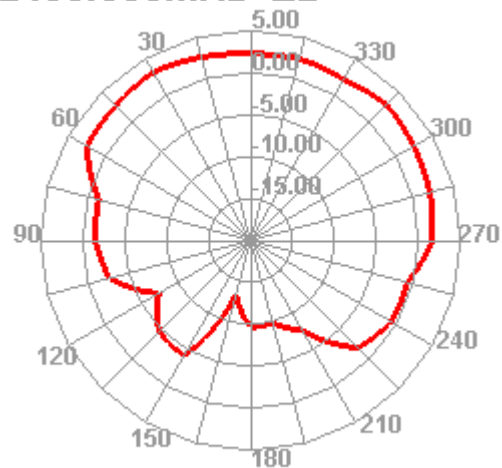
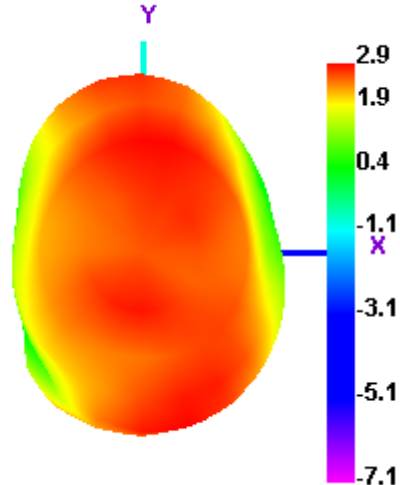
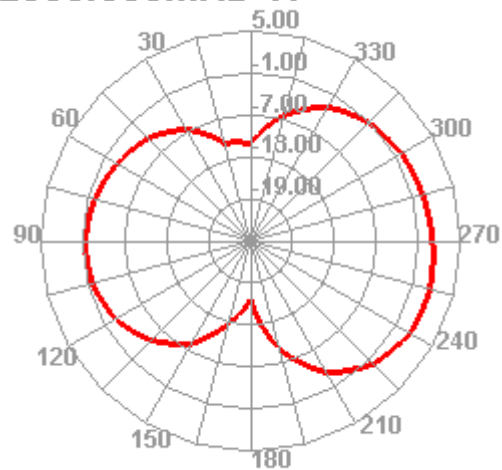
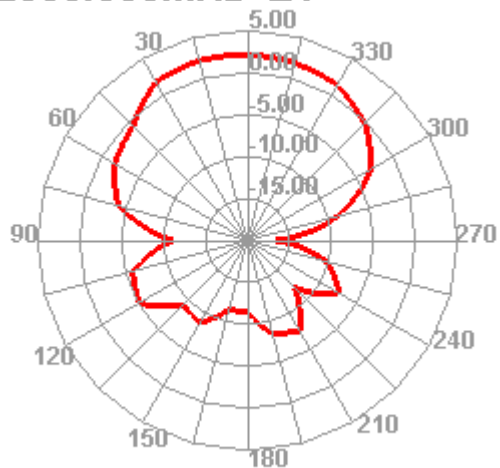
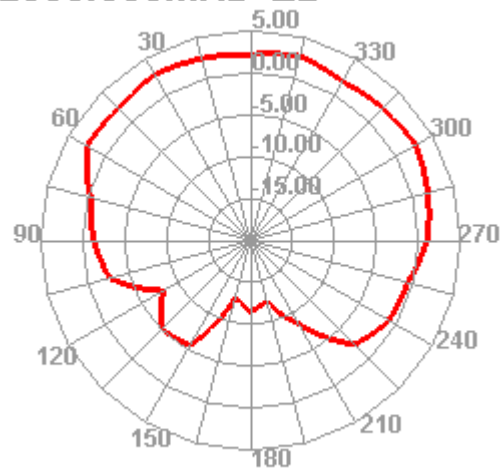


Efficiency & Gain:

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	78.67	-1.04	3.78	1.63
2410	78.33	-1.06	3.62	1.47
2420	76.92	-1.14	3.44	1.29
2430	80.18	-0.96	3.52	1.37
2440	79.3	-1.01	3.41	1.26
2450	75.96	-1.19	3.27	1.12
2460	69.72	-1.57	2.77	0.62
2470	70.35	-1.53	2.74	0.59
2480	69.95	-1.55	2.73	0.58
2490	72.76	-1.38	2.93	0.78
2500	71.32	-1.47	2.85	0.7

Patten

2400.000MHz**2400.000MHz H****2400.000MHz E1****2400.000MHz E2****2450.000MHz****2450.000MHz H**

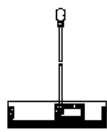
2450.000MHz E1**2450.000MHz E2****2500.000MHz****2500.000MHz H****2500.000MHz E1****2500.000MHz E2**

Antenna picture:

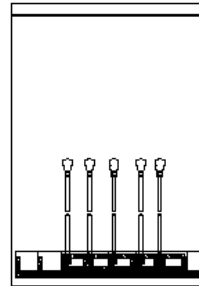


Product packaging specification

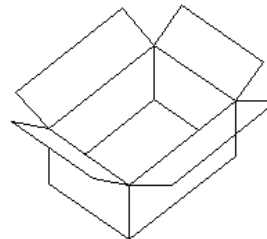
Product name:	External antenna
Description:	Except for customer special requirements
version :	V0



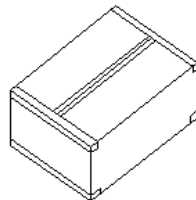
1. Antenna finished product



2. Antenna finished products are packed in PE bags. The quantity is subject to the actual situation.



3. Put the installed antenna into a cardboard box (subject to the actual quantity).



4. Seal the box and affix our company's label or a label as specified by the customer on the outside.