

Acknowledgement

SPECIFICATION FOR APPROVAL

CUSTOMER NAME: Guoguang Electric Company Limited

PRODUCT NAME: 2.4G BT internal antenna L=75mm

CUSTOMER P/N: EAN00306

Ren Feng P/N: U00T02S000N02639 REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Huang Lei	
AUDITOR BY:	Liu Xiaolin	
APPROVED BY:	Yao Dingjun	
DATE:	2022-12-23	

Contents

<i>Item</i>	<i>Description</i>
一、 -----	Change of resume
二、 -----	Specification sheet
三、 -----	Finished drawing
四、 -----	Antenna position diagram
五、 -----	Test report
六、 -----	Raw material list

一、 Change your resume

REV	DATE	Change record
A	2022-12-23	Initial release
B	2023-02-16	Change line long exposed
C	2023-03-03	Replacement board

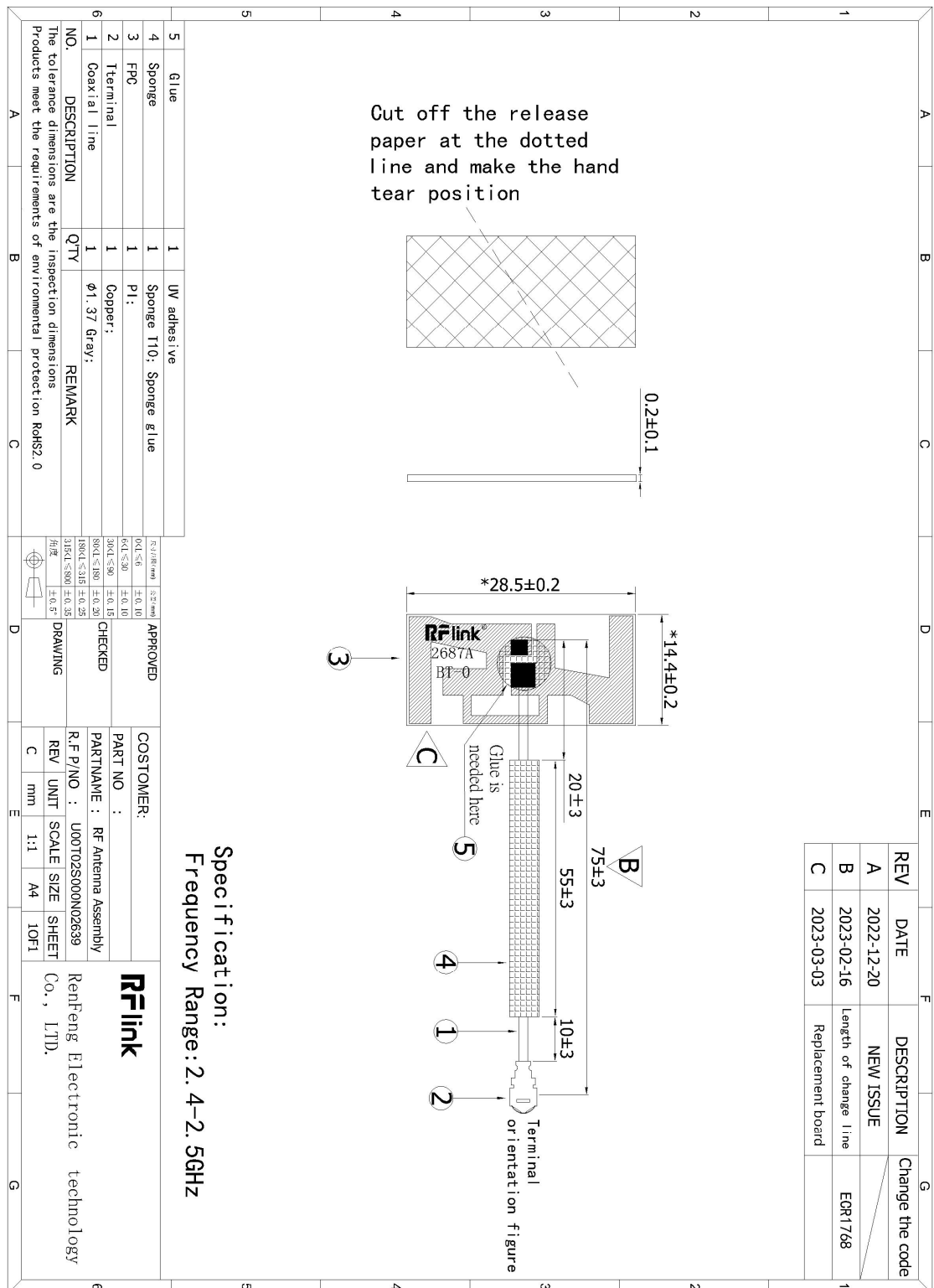
二、 Specification sheet:

Product main technical parameters

Main technical specifications		Main technical specifications	
Frequency Range (MHZ)	2400-2500	Frequency Range (MHZ)	2400-2500
Impedance(Ω)	50	Impedance(Ω)	50
Peak Gain(dBi)	$2.4G \leq 3.80$	Peak Gain(dBi)	$2.4G \leq 3.80$
VSWR	≤ 2.0	VSWR	≤ 2.0
Radiation	Omni-directional	Radiation	Omni-directional
Connector Type	I-PEX	Connector Type	I-PEX
Physical Properties		Physical Properties	
Antenna cover	FPC	Antenna cover	FPC
Operating Temp	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$	Operating Temp	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
Storage Temp	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$	Storage Temp	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$

三、Finished product drawing & packing drawing:

2.1、Antenna size diagram



2.2、Packing specification

Product packaging		Individual product		Inner bag packing		PE bag		Inner pocket tag		Packing outer box	
1		2		3		4		5		6	
A		B		C		D		E		F	
G		H		I		J		K		L	
M		N		O		P		Q		R	
S		T		U		V		W		X	
Y		Z		AA		AB		AC		AD	
AE		AF		AG		AH		AI		AJ	
AK		AL		AM		AN		AO		AP	
AQ		AR		AS		AT		AU		AV	
AW		AX		AY		AZ		BA		BB	
BC		BD		BE		BF		BG		BH	
BI		BJ		BK		BL		BM		BN	
BO		BP		BQ		BR		BS		BT	
BU		BV		BW		BX		BY		BZ	
CA		CB		CC		CD		CE		CF	
CG		CH		CI		CJ		CK		CL	
CM		CN		CO		CP		CQ		CR	
CS		CT		CU		CV		CW		CX	
CY		CZ		DA		DB		DC		DD	
DE		DF		DG		DH		DI		DJ	
DK		DL		DM		DN		DO		DP	
DQ		DR		DS		DT		DU		DV	
DW		DX		DY		DZ		EA		EB	
EC		ED		EE		EF		EG		EH	
EI		EJ		EK		EL		EM		EN	
EO		EP		EQ		ER		ES		ET	
EU		EV		EW		EX		EY		EZ	
FA		FB		FC		FD		FE		FF	
FG		FH		FI		FJ		FK		FL	
FM		FN		FO		FP		FQ		FR	
FS		FT		FU		FV		FW		FX	
FY		FZ		GA		GB		GC		GD	
GE		GF		GG		GH		GI		GJ	
GK		GL		GM		GN		GO		GP	
GQ		GR		GS		GT		GU		GV	
GW		GX		GY		GZ		HA		HB	
HC		HD		HE		HF		HG		HH	
HI		HJ		HK		HL		HM		HN	
HO		HP		HQ		HR		HS		HT	
HU		HV		HW		HX		HY		HZ	
IA		IB		IC		ID		IE		IF	
IG		IH		II		IJ		IK		IL	
IM		IN		IO		IP		IQ		IR	
IS		IT		IU		IV		IW		IX	
IY		IZ		JA		JB		JC		JD	
JE		JF		JG		JH		JI		JJ	
JK		JL		JM		JN		JO		JP	
JQ		JR		JS		JT		JU		JV	
JW		JX		JY		JZ		KA		KB	
KC		KD		KE		KF		KG		KH	
KI		KJ		KK		KL		KM		KN	
KO		KP		KQ		KR		KS		KT	
KU		KV		KW		KX		KY		KZ	
LA		LB		LC		LD		LE		LF	
LG		LH		LI		LJ		LK		LL	
LM		LN		LO		LP		LQ		LR	
LS		LT		LU		LV		LW		LX	
LY		LZ		MA		MB		MC		MD	
ME		MF		MG		MH		MI		MJ	
MK		ML		MM		MN		MO		MP	
MQ		MR		MS		MT		MU		MV	
MW		MX		MY		MZ		NA		NB	
NC		ND		NE		NF		NG		NH	
NI		NJ		NK		NL		NM		NN	
NO		NP		NQ		NR		NS		NT	
NU		NV		NW		NX		NY		NZ	
OA		OB		OC		OD		OE		OF	
OG		OH		OI		OJ		OK		OL	
OM		ON		OO		OP		OQ		OR	
OS		OT		OU		OV		OW		OX	
OY		OZ		PA		PB		PC		PD	
PE		PF		PG		PH		PI		PJ	
PK		PL		PM		PN		PO		PP	
PQ		PR		PS		PT		PU		PV	
PW		PX		PY		PZ		QA		QB	
QC		QD		QE		QF		QG		QH	
QI		QJ		QK		QL		QM		QN	
QO		QP		QQ		QR		QS		QT	
QU		QV		QW		QX		QY		QZ	
RA		RB		RC		RD		RE		RF	
RG		RH		RI		RJ		RK		RL	
RM		RN		RO		RP		RQ		RR	
RS		RT		RU		RV		RW		RX	
RY		RZ		SA		SB		SC		SD	
SE		SF		SG		SH		SI		SJ	
SK		SL		SM		SN		SO		SP	
SQ		SR		SS		ST		SU		SV	
SW		SX		SY		SZ		TA		TB	
TC		TD		TE		TF		TG		TH	
TI		TJ		TK		TL		TM		TN	
TO		TP		TQ		TR		TS		TT	
TU		TV		TW		TX		TY		TZ	
UA		UB		UC		UD		UE		UF	
UG		UH		UI		UJ		UK		UL	
UM		UN		UO		UP		UQ		UR	
US		UT		UU		UV		UW		UX	
UY		UZ		VA		VB		VC		VD	
VE		VF		VG		VH		VI		VJ	
VK		VL		VM		VN		VO		VP	
VQ		VR		VS		VT		VU		VV	
VW		VX		VY		VZ		WA		WB	
WC		WD		WE		WF		WG		WH	
WI		WJ		WK		WL		WM		WN	
WO		WP		WQ		WR		WS		WT	
WU		WV		WX		WY		WZ		XA	
XB		XC		XD		XE		XF		XG	
XH		XI		XJ		XK		XL		XM	
XN		XO		XP		XQ		XR		XS	
XT		XU		XV		XW		XZ		YA	
YB		YC		YD		YE		YF		YG	
YH		YI		YJ		YK		YL		YM	
YN		YO		YP		YQ		YR		YS	
YT		YU		YV		YW		YZ		ZA	
ZB		ZC		ZD		ZE		ZF		ZG	
ZH		ZI		ZJ		ZK		ZL		ZM	
ZN		ZO		ZP		ZQ		ZR		ZS	
ZT		ZU		ZV		ZW		ZX		ZY	
ZZ											

Individual product

Packing instructions of inner bag:

1. Each bag contains 100pcs of products.
2. Use a pearl-cotton bag or rubber band to fix the wire
3. Each bag should be labeled accordingly

Inner bag packing

PE bag

Inner pocket tag

seal

Packing instructions for the outer box

1. RoHS label and 1pc label should be affixed to the outer box.
2. Each box contains 40 bags /4000pcs of products.

packing outer box

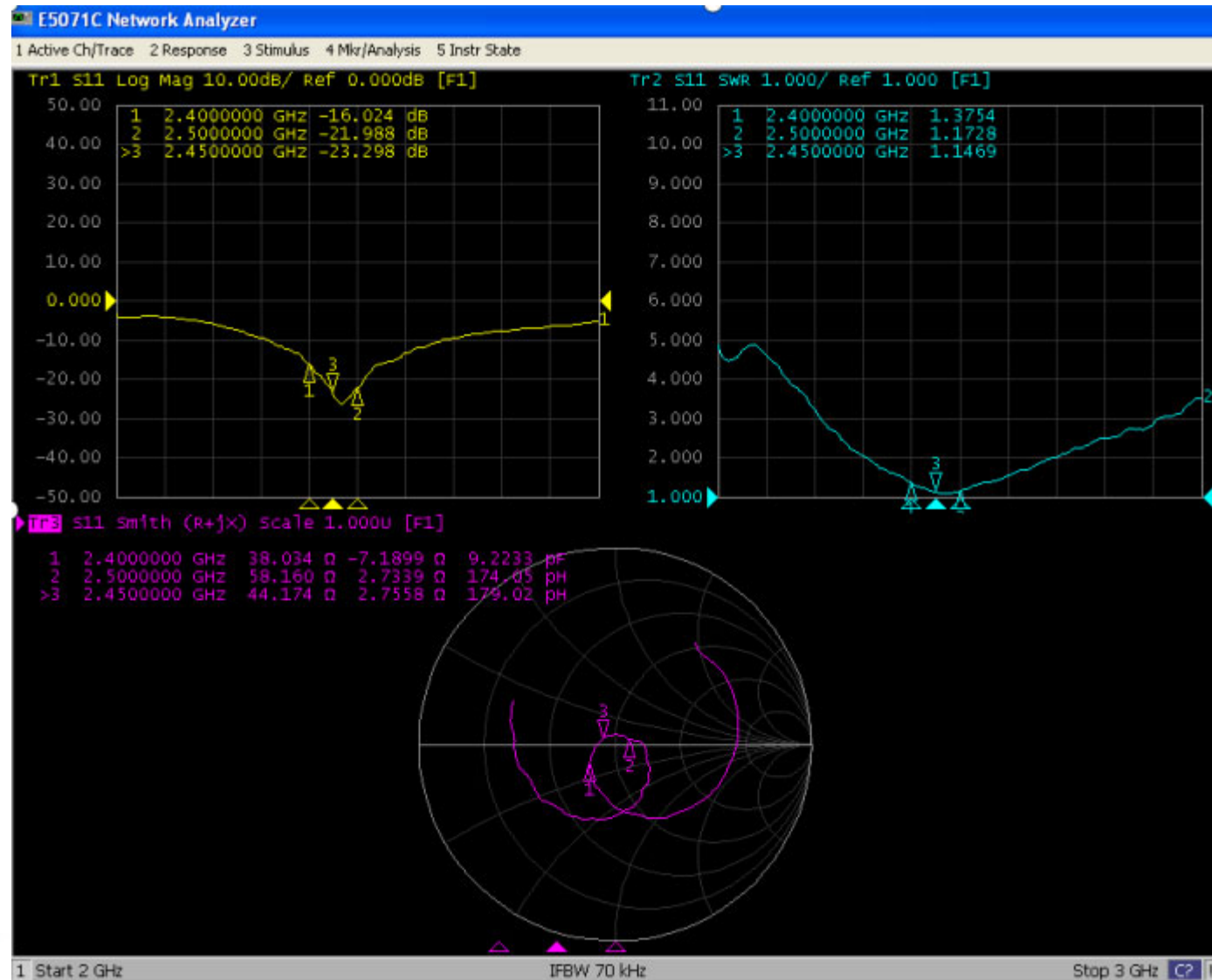
Outer box label

Products meet the requirements of environmental protection RoHS2.0

RF link

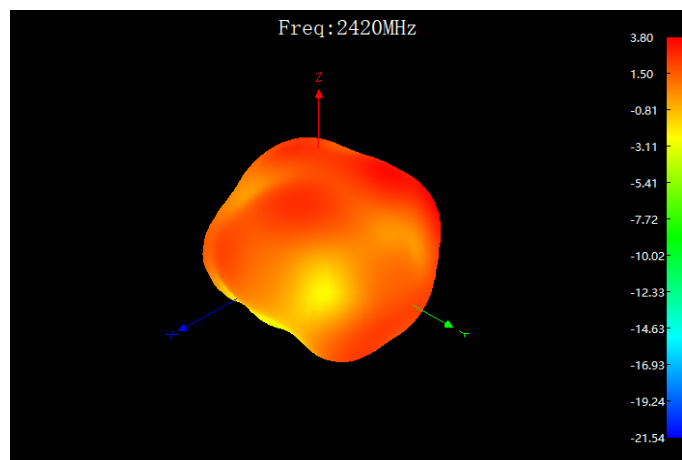
RenFeng Electronic technology Co.,LTD.

Measurement data--Return Loss -BT-2.4G

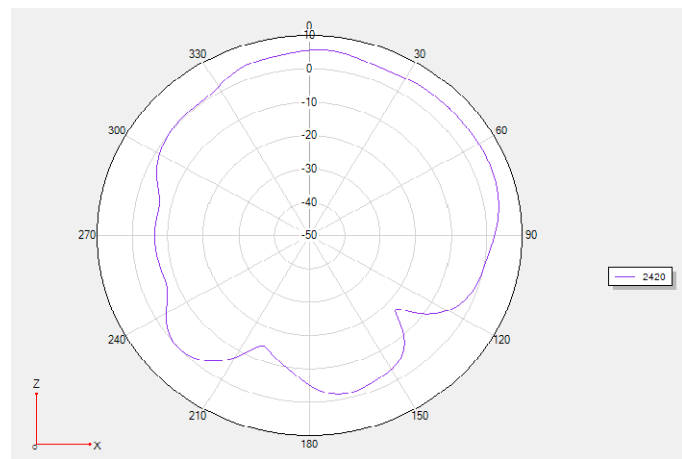




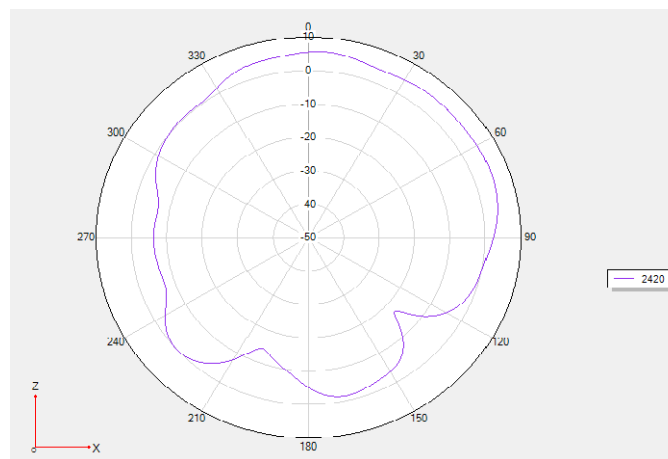
BT-最大增益点2420MHZ



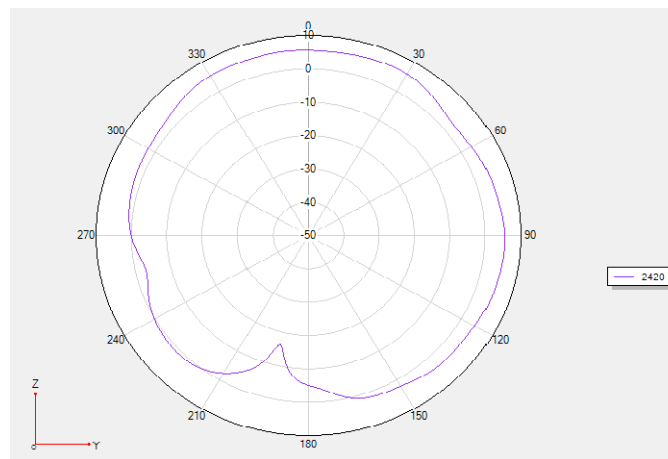
E1面



H面



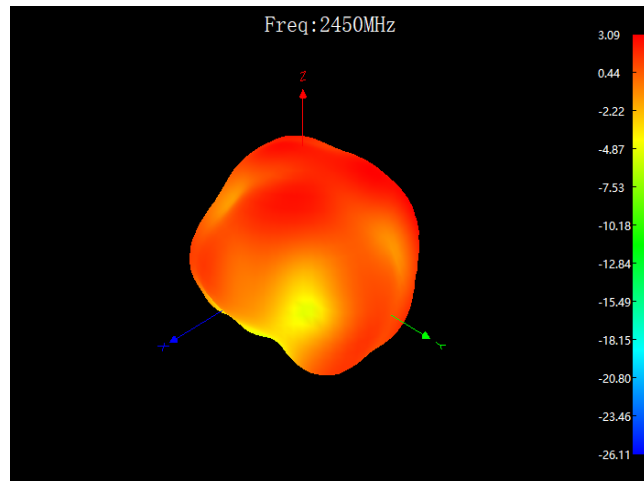
E2面



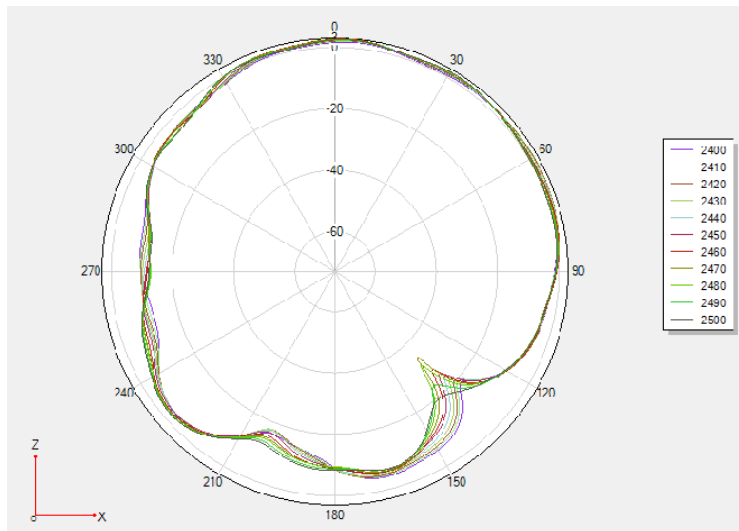
*The **Wireless Connection** Unlimited Wonderful*



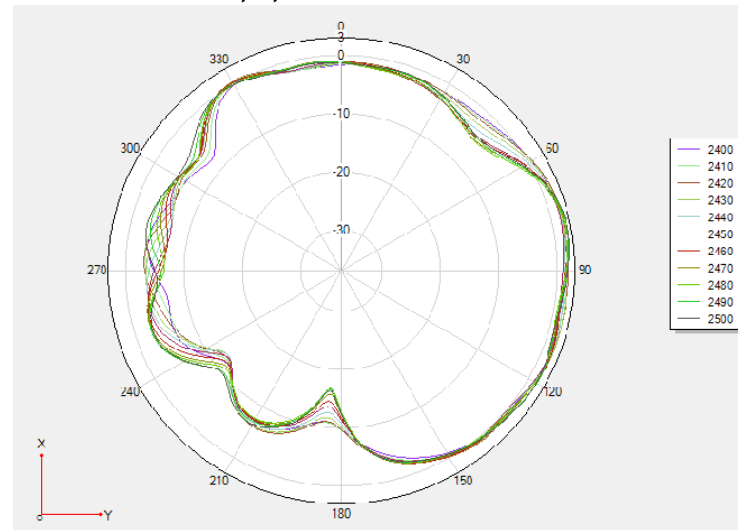
BT-2450MHZ



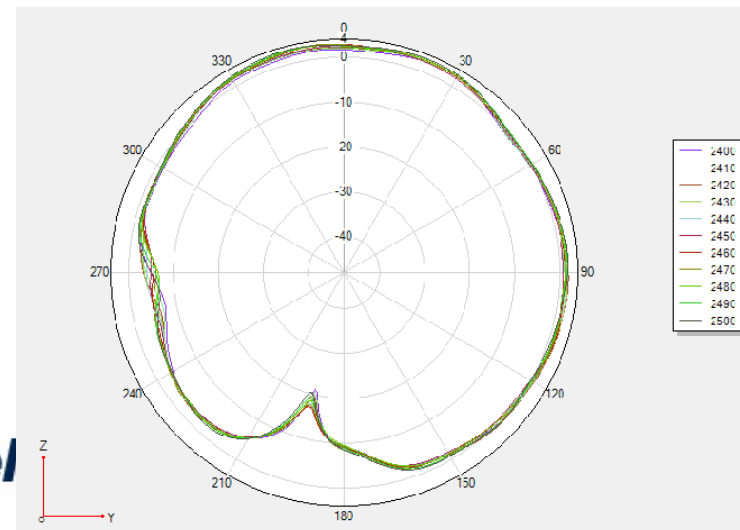
E1面



H面



E2面



Virel

Wonderful



BT-2.4G

Freq (MHz)	Effi (%)	Gain (dBi)
2400	72.61	3.45
2410	76.21	3.71
2420	80.35	3.8
2430	79.43	3.64
2440	77.62	3.23
2450	73.79	3.09
2460	79.07	3.31
2470	78.16	3.48
2480	74.64	3.32
2490	78.7	3.58
2500	82.79	3.72

The **Wireless Connection** *Unlimited Wonderful*

六、ROHS/ Raw material list:

Meet RoHS requirements。

Serial number	Name	Material	QTY	Unit	Supplier	UL certification number
1	FPC	PI	1	pc	Junyi	/
2	1.37 Coaxial line	Tinning/FEP	1	pc	China Ocean Unicom	/
3	Terminal	Phosphor bronze	1	pc	Kexincheng	/
4	Linear sponge	Sponge T10	1	pc	Pengsheng	/