

SPECIFICATION FOR APPROVAL

CUSTOMER NAME: 1931085 Ontario Ltd

PRODUCT NAME: Internal Antenna

CUSTOMER P/N: UB01NJ2D651A

UB P/N: UB01NJ2D651A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Allen	
APPROVED BY:		
DATE:	2021/04/27	

Contents

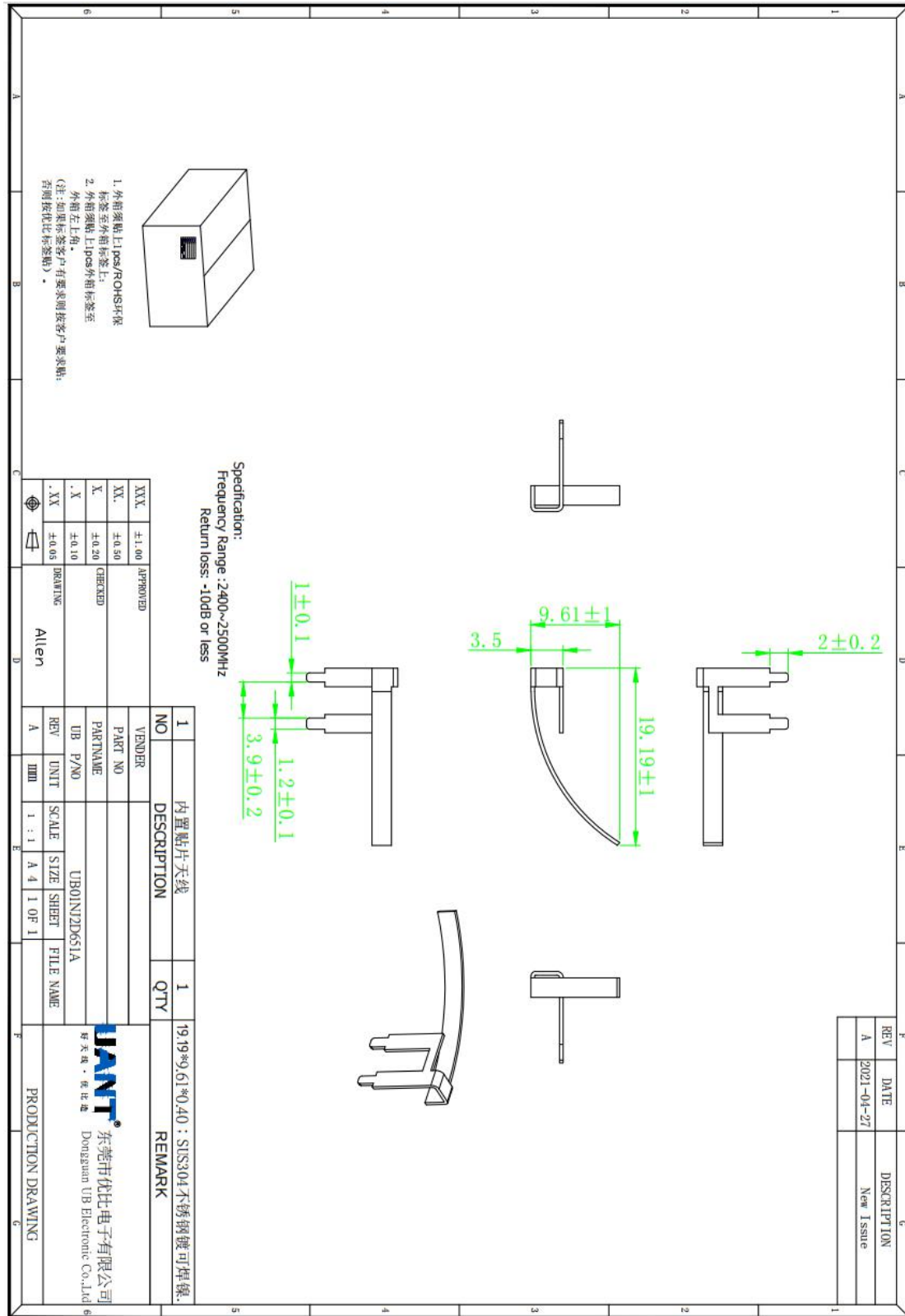
<i>Item</i>	<i>Description</i>
1.-----	Specification sheet
2.-----	Finished drawing
3.-----	Test report
4.-----	Antenna installation diagram

1.Specification sheet:

Product main technical parameters

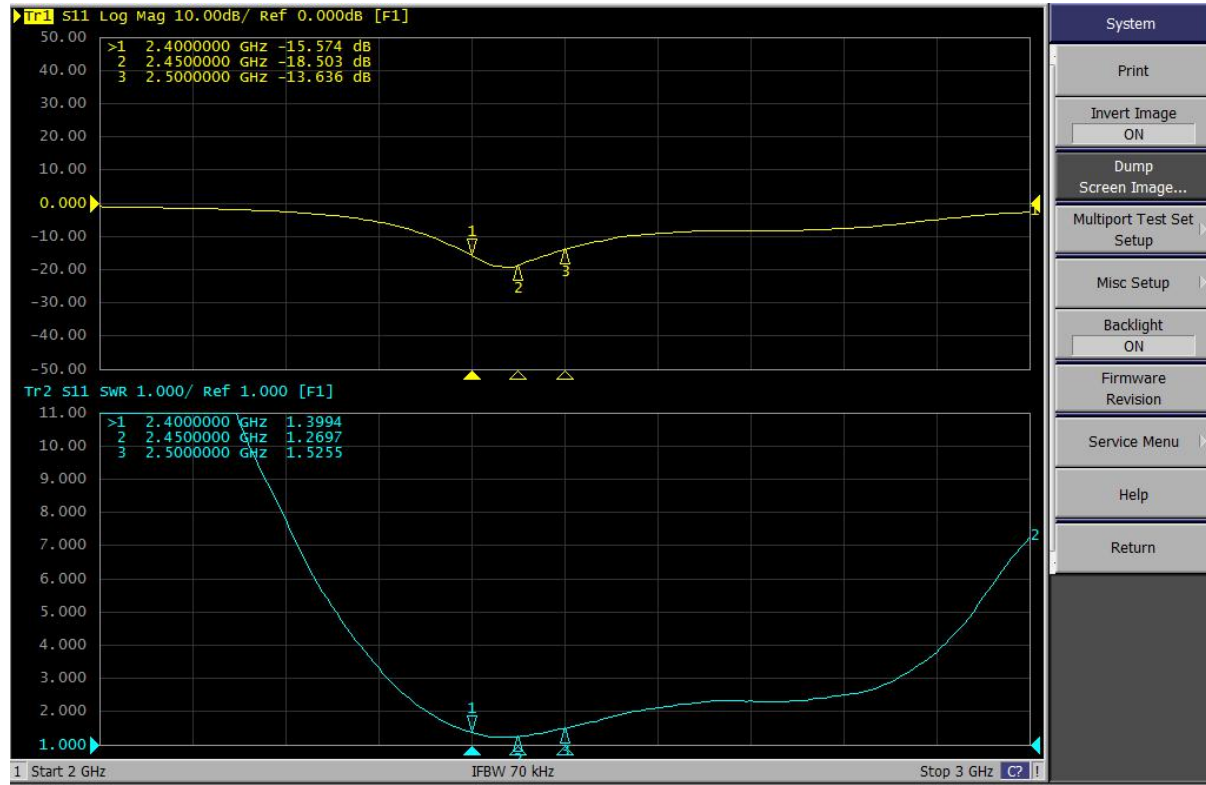
Main technical specifications	
Frequency Range (MHZ)	2400-2500
Impedance(Ω)	50
Gain(dBi)	1.45
VSWR	≤ 1.92
Polarization	Linear
Connector Type	DIP
Physical Properties	
Antenna Base	Hardware
Operating Temp	-20℃~+50℃
Storage Temp	-20℃~+50℃

2. Finished drawing:



3. Test report(Only prototype test report)

3.1: Network analyzer test report



3.2:Darkroom 2D、3D Raditation Pattern(Complete machine data)

3.2.1 Efficiency and gain

Frequency (MHz)	Efficiency (%)	Peak Gain / dB
2400	52.88	1.3
2450	52.42	1.45
2500	51.52	1.07

3.2.2 Active test report

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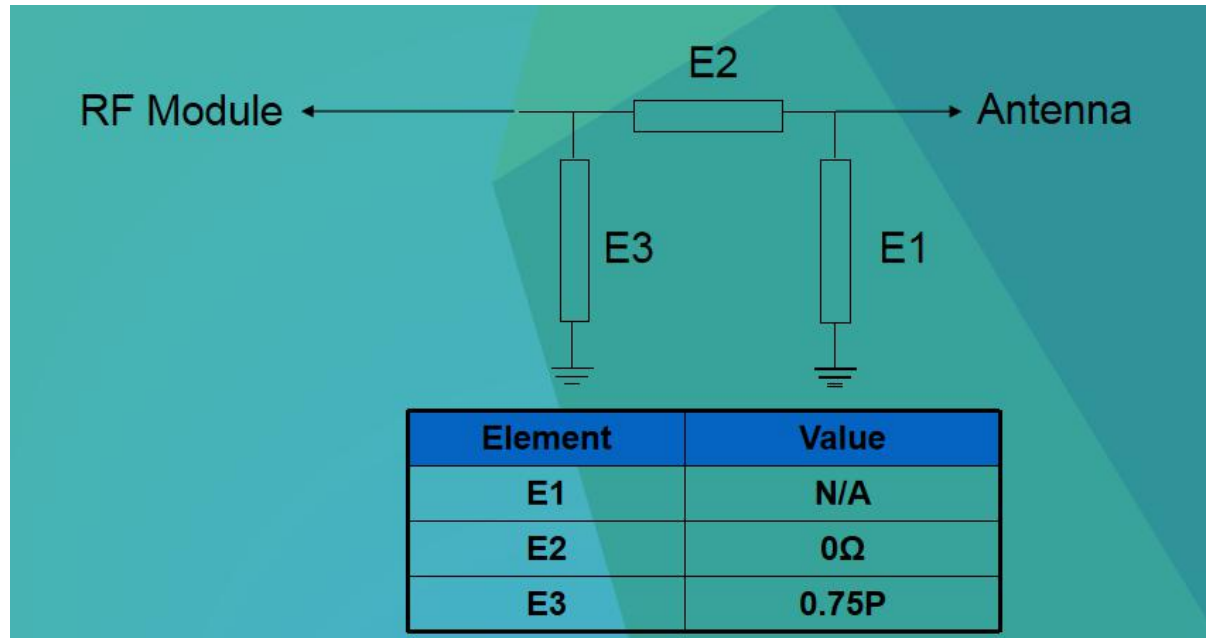
Item	Measurement	Azimuths	Elevations	Standard	Band	Channel	Frequency	Max	Min	Total
1	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	1	2412	16.08	-16.38	15.45
2	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	6	2437	17.91	-10.13	15.89
3	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	11	2462	17.24	-8.78	15.45
4	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	1	2412	73.32	33.73	70.81
5	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	6	2437	81.76	53.71	79.02
6	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	11	2462	82.4	55.44	79.85

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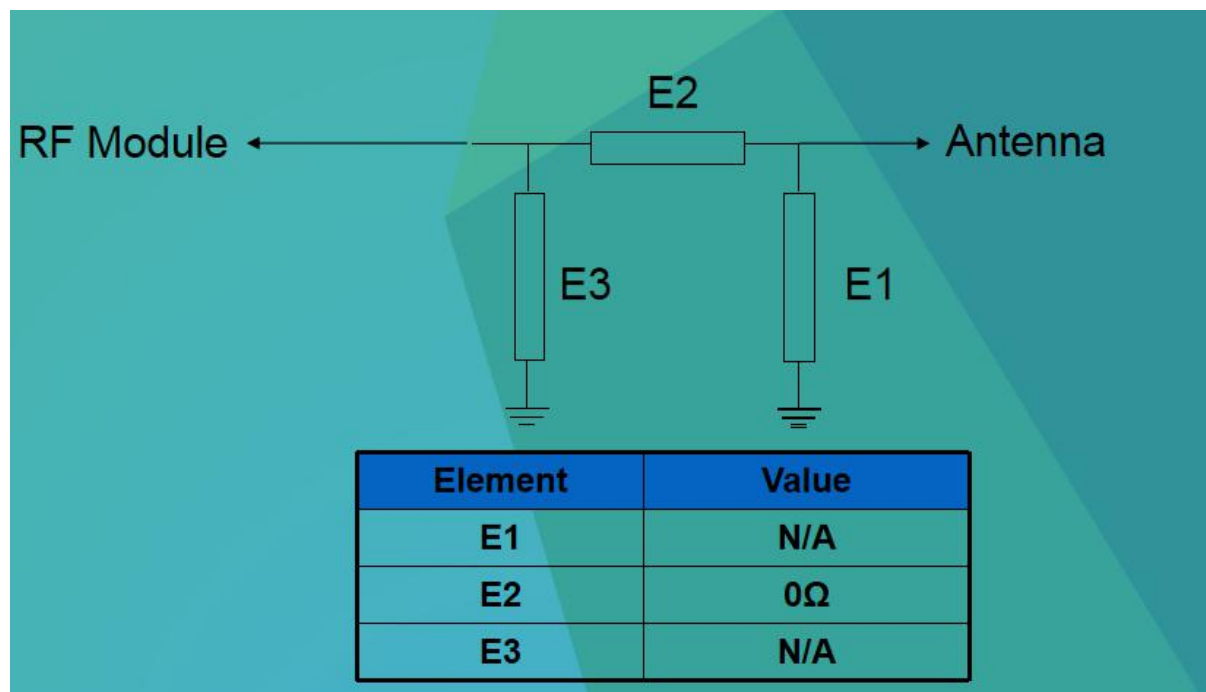
Item	Measurement	Azimuths	Elevations	Standard	Band	Channel	Frequency	Max	Min	Total
1	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	1	2412	16.78	-6.26	14.65
2	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	6	2437	19.35	-4.89	16.78
3	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	11	2462	18.7	-3.64	16.08
4	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	1	2412	50.22	26.02	46.43
5	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	6	2437	51.45	28.37	47.79
6	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	11	2462	48.73	25.3	45.4

3.2.2 Matching circuit

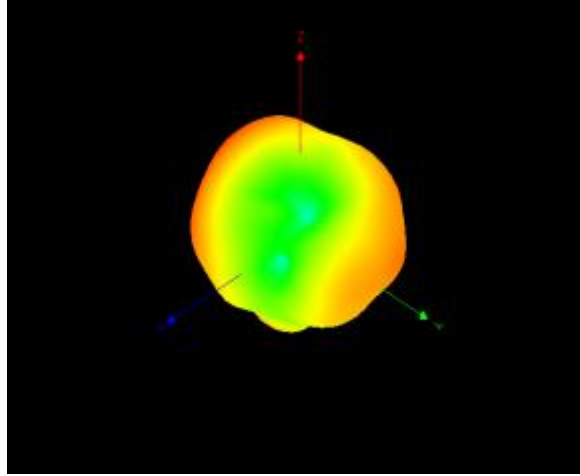
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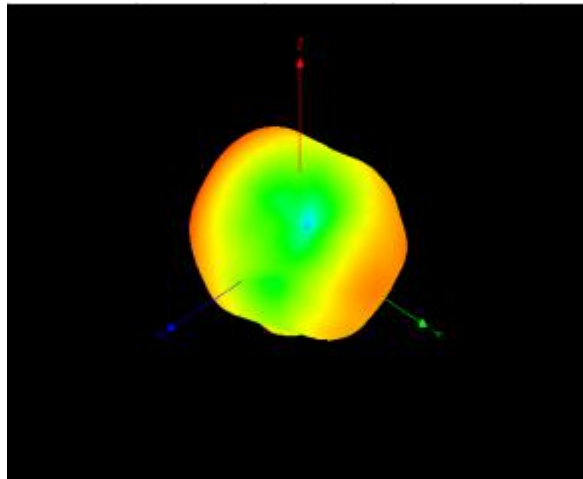
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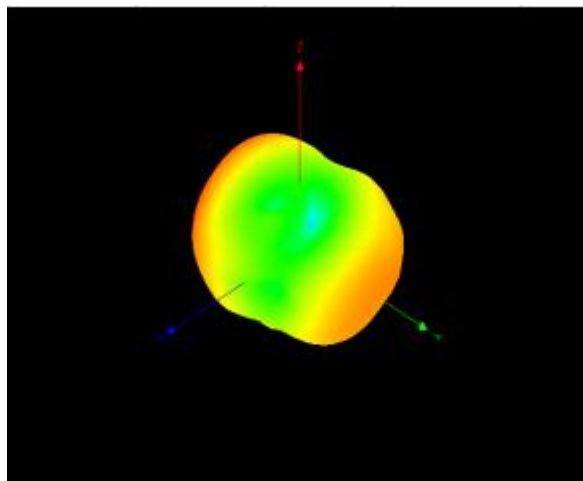
3.2.3 2D/3D Field pattern diagram



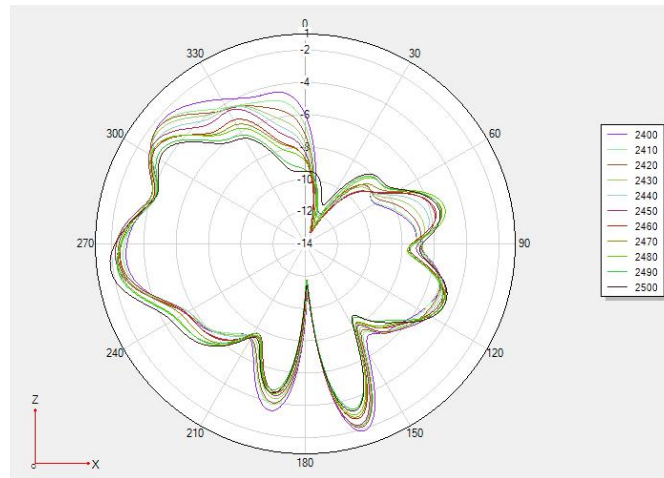
2400MHz



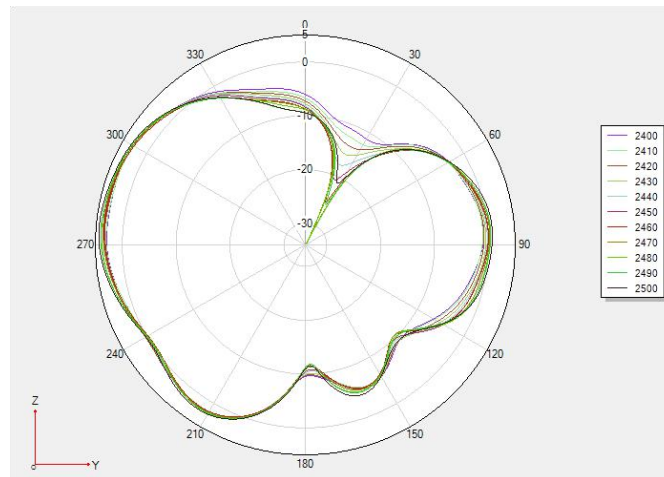
2450MHz



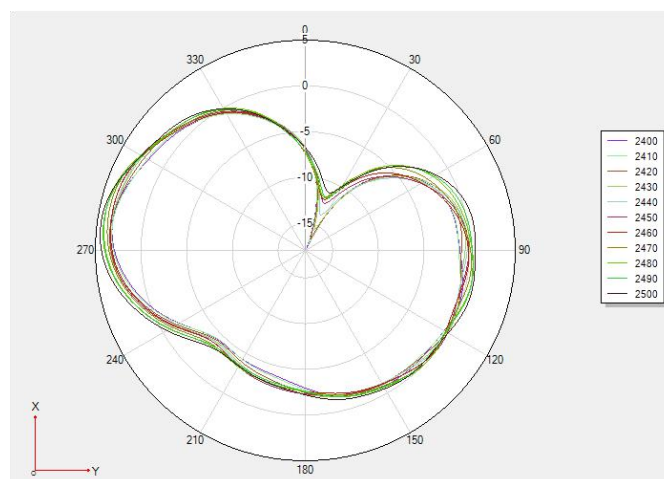
2500MHz



Phi 0 2D 图



Phi 90 2D 图



Theta 90 2D 图

4. Antenna installation diagram:

