



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd.

规格承认书

SPECIFICATION FOR APPROVAL

日期 Date	2023/03/13
编号 File No	23031301
版本 Revision	1.0

客户
CUSTOMER: 方位

客户料号
CUSTOMER NO: LEADA100045A0

品名
PART NAME: 1787-1937MHz Antenna L=105mm MHF

供方料号
SUPPLIER NO: YJL01.106.050.301A

送样日期Date: 送样数量Q “TY:

客户确认CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
 ChenGuoqiang	XieLi	ChenXingyi

YJ-RD-F04-A

add: 东莞市长安镇沙头社区木鱼路59号元富工业区
Yuanfu Industrial Zone, 59 Muyu Road, Shatou Community, Changan Town, Dongguan City
Tel:0769-82586086Fax:0769-82586086



承认书项目表

NO	内 容 (Contents)	页 数 (Number of Page)	页 码 (Page Code)
1	承认书封面 (Spec Cover)	1	1
2	承认书项目表 (Spec Item)	1	2
3	工程成品图 (Drawing)	1	3
4	天线规格 (Antenna Specification)	1	4
5	S参数测试 (S Parameter)	1	5
6	无源测试 (Passive Test)	3	6 ~ 8
7	方向图 (Radiation Pattern)	4	9 ~ 12
8	天线装配图 (Antenna Profile)	2	13 ~ 14
9	材质证明 (Material Certificate)	36	15 ~ 50
10	RoHS报告 (RoHS Test Report)	**	**
11	N/A	N/A	N/A
12	-	-	-
13	-	-	-

RoHS

Compatible

CUSTOMER

PART NO

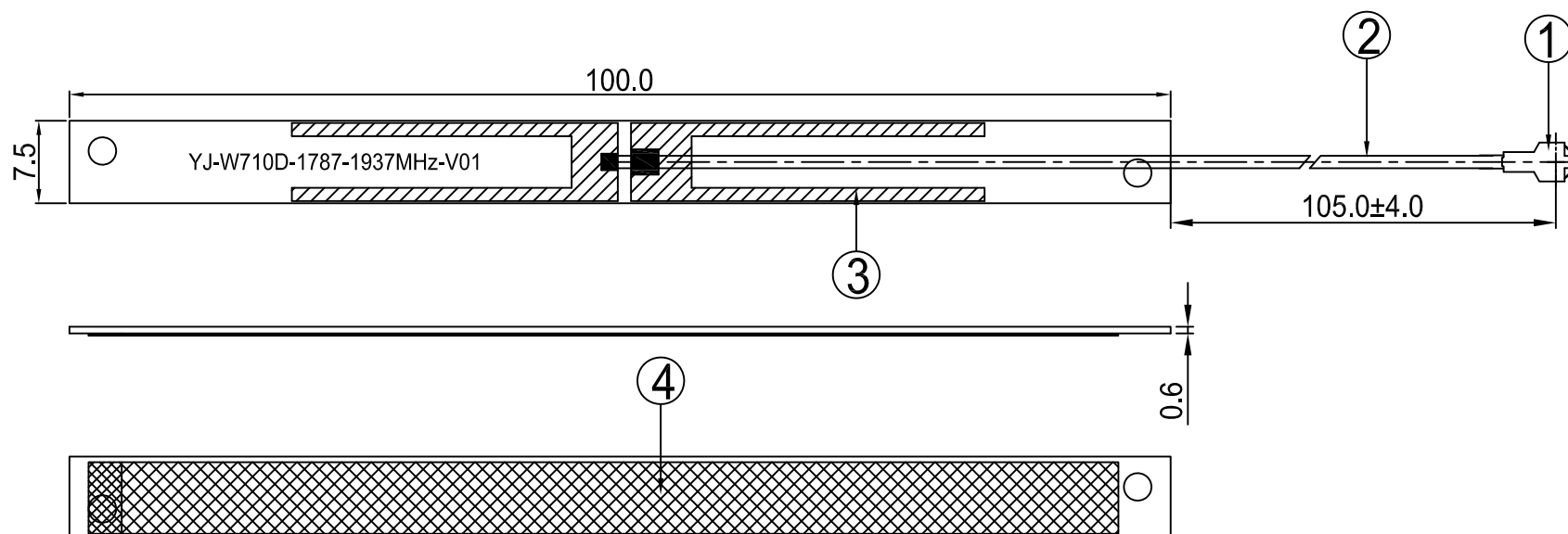
REV.



DESCRIPTION

DATE

2023-03-03



4	Paster	90.5*6.5mm	3M	PAS100XXA.P01	1
3	PCB	100.0*7.5*0.6mm	PCB	FPC11XXA.P01	1
2	Coaxial Cable	O.D.0.81 Black	O.D.0.81	COA100XXA.P01	1
1	Mini Connector		Cu	TER100XXA.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



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PART NAME: 1787-1937MHz Antenna L=105mm MHF

PART NO.: YJL01.106.050.301A

DATE: 2023-03-03

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance

UNITS: mm

SCALE: 1/1

REVISION: A

X.X ±0.50

X.XX±0.15

X° ±3°



天线规格

Antenna Specification

Electrical Properties

Frequency	1787-1937MHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	2.5 dBi
Radiation	Omni-directional
Polarization	Linear

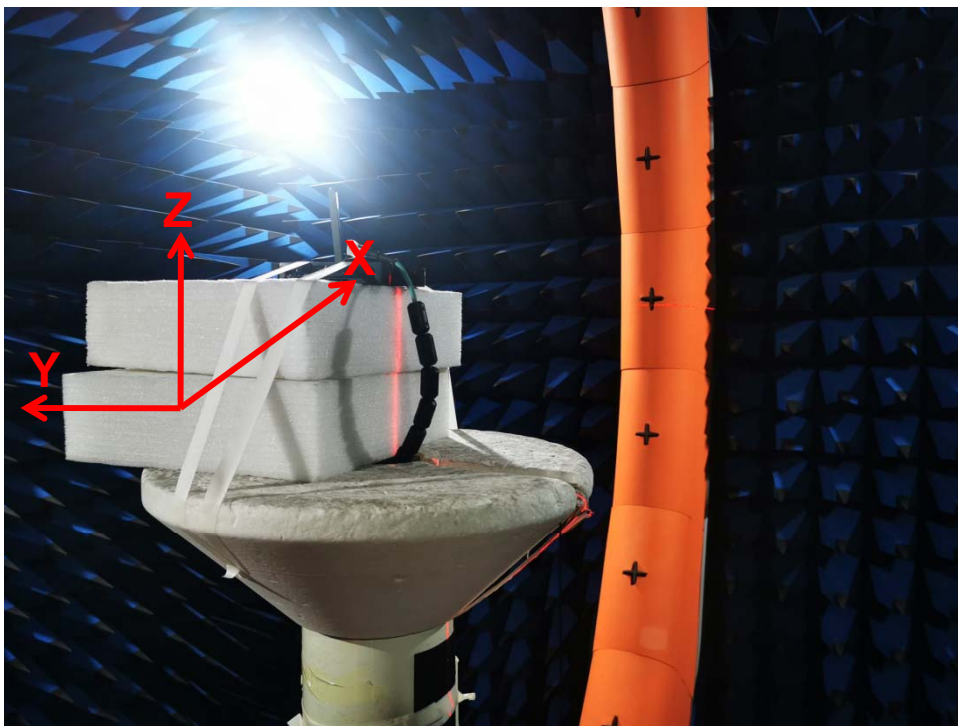
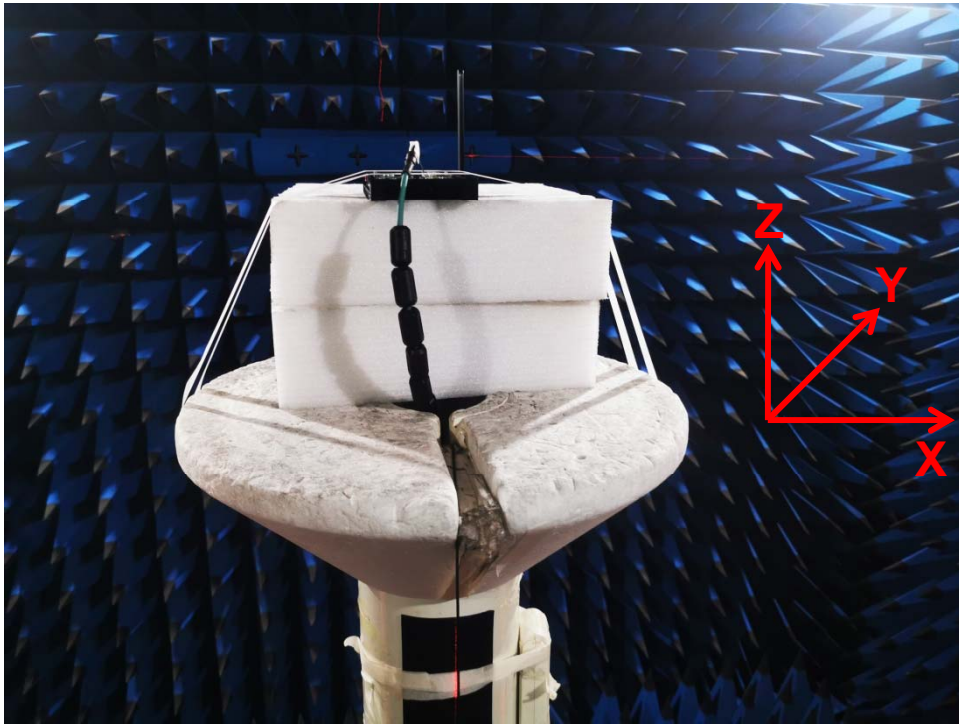
Physical Properties

Connector	3rd generation IPEX
Cable Type	O.D.0.81mm
Cable Length	105mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

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Antenna Passive Test



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Passive Test For 1787~1937MHz Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1780	52.4	-2.8	0.6
1785	51.1	-2.9	0.8
1790	53.3	-2.7	0.7
1795	54.1	-2.7	0.9
1800	53.8	-2.7	0.8
1805	55.9	-2.5	1.0
1810	56.6	-2.5	1.2
1815	57.4	-2.4	1.4
1820	57.4	-2.4	1.5
1825	58.3	-2.3	1.8
1830	58.6	-2.3	1.8
1835	58.9	-2.3	2.0
1840	59.7	-2.2	2.0
1845	59.2	-2.3	2.0
1850	60.3	-2.2	1.9
1855	58.3	-2.3	1.8
1860	58.6	-2.3	1.6

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Passive Test For 1787~1937MHz Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1865	58.5	-2.3	1.6
1870	56.9	-2.5	1.5
1875	57.5	-2.4	1.5
1880	58.5	-2.3	1.6
1885	59.4	-2.3	2.0
1890	60.5	-2.2	2.2
1895	59.8	-2.2	2.4
1900	60.4	-2.2	2.4
1905	62.2	-2.1	2.5
1910	62.5	-2.0	2.5
1915	63.5	-2.0	2.4
1920	63.6	-2.0	2.5
1925	64.4	-1.9	2.0
1930	64.3	-1.9	1.8
1935	61.8	-2.1	1.6
1940	62.2	-2.1	1.4
1945	60.5	-2.2	1.3
1950	62.4	-2.1	1.4

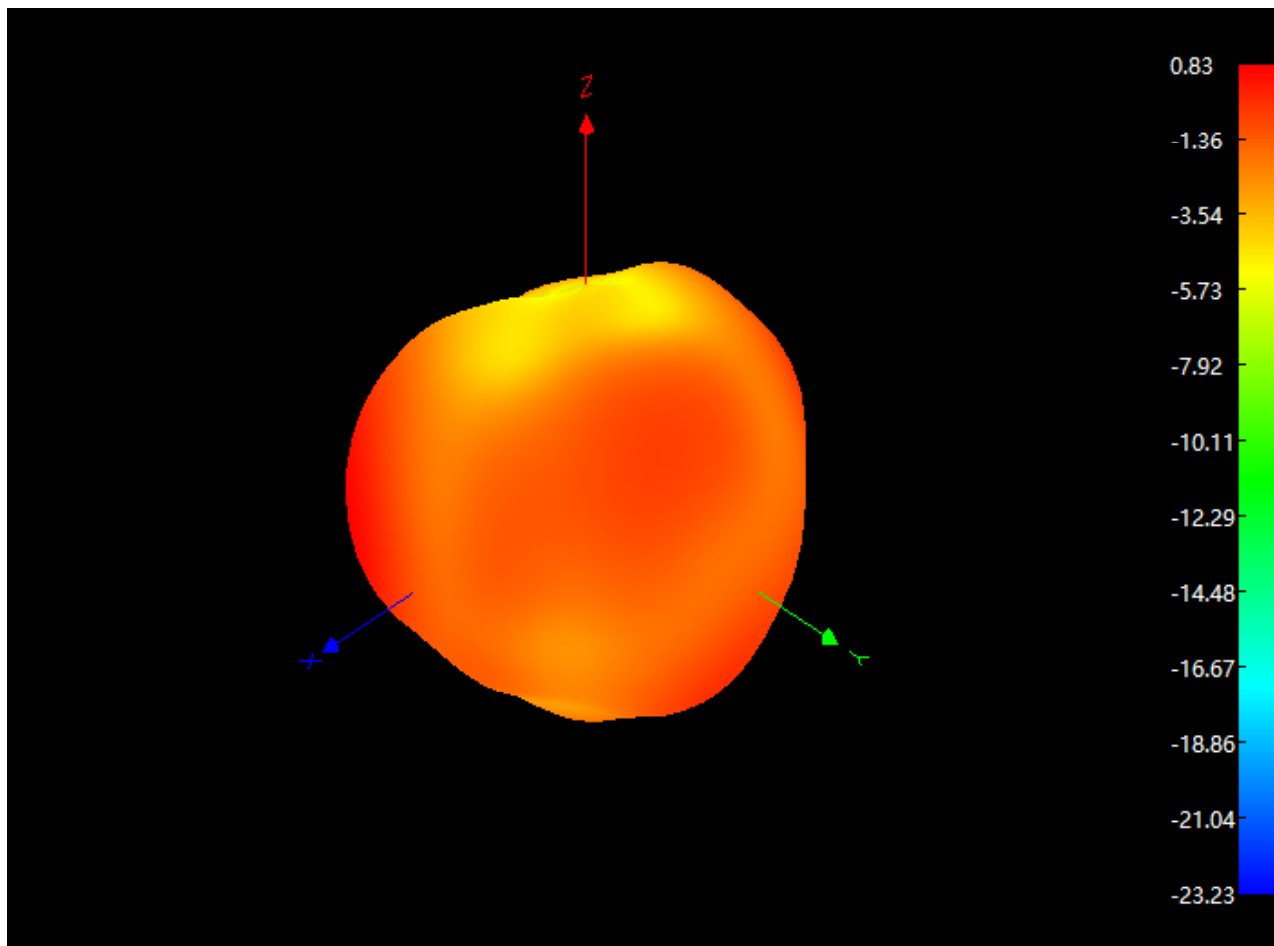
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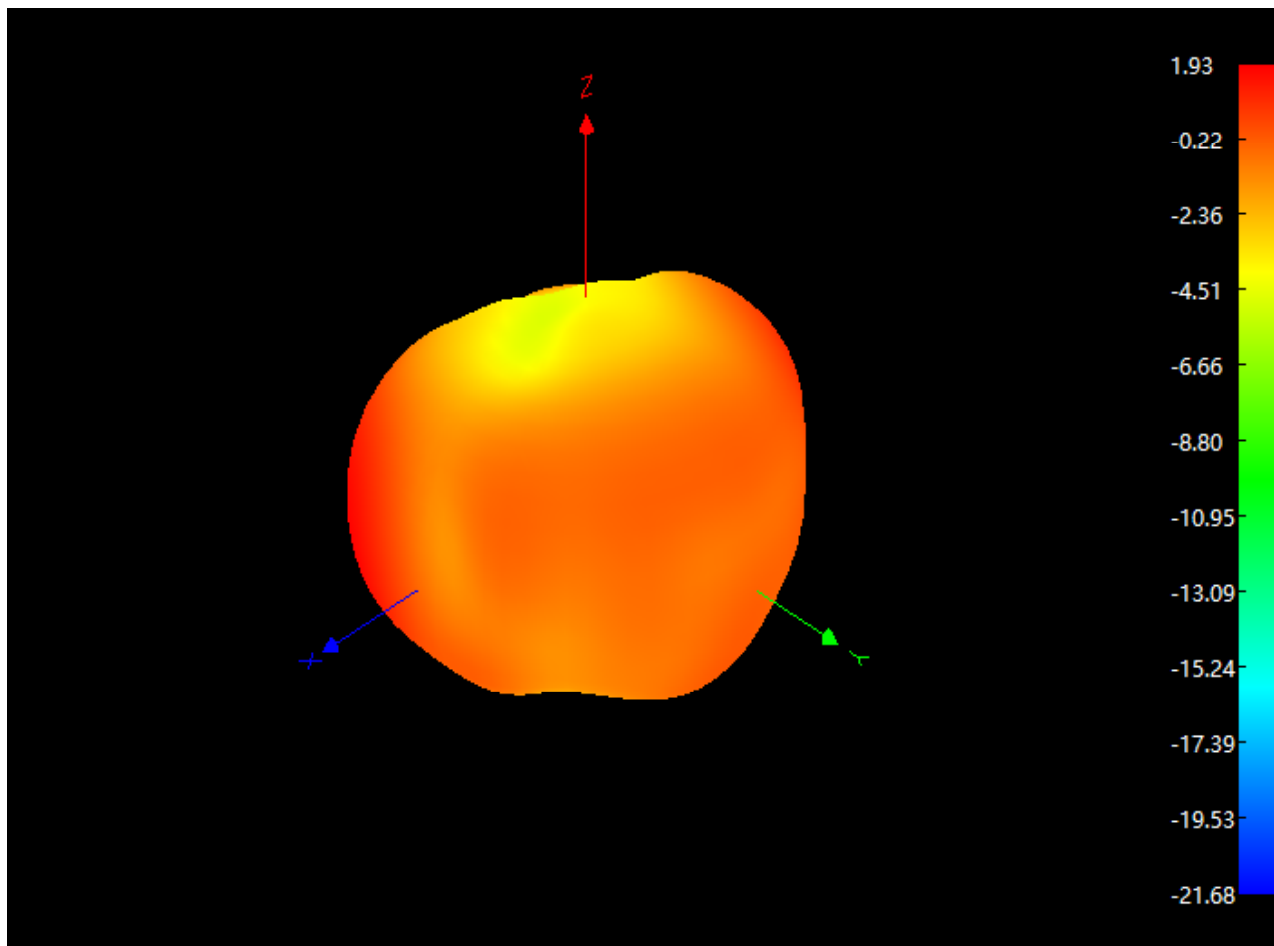
Radiation Pattern For 1787~1937MHz Antenna(1785MHz)



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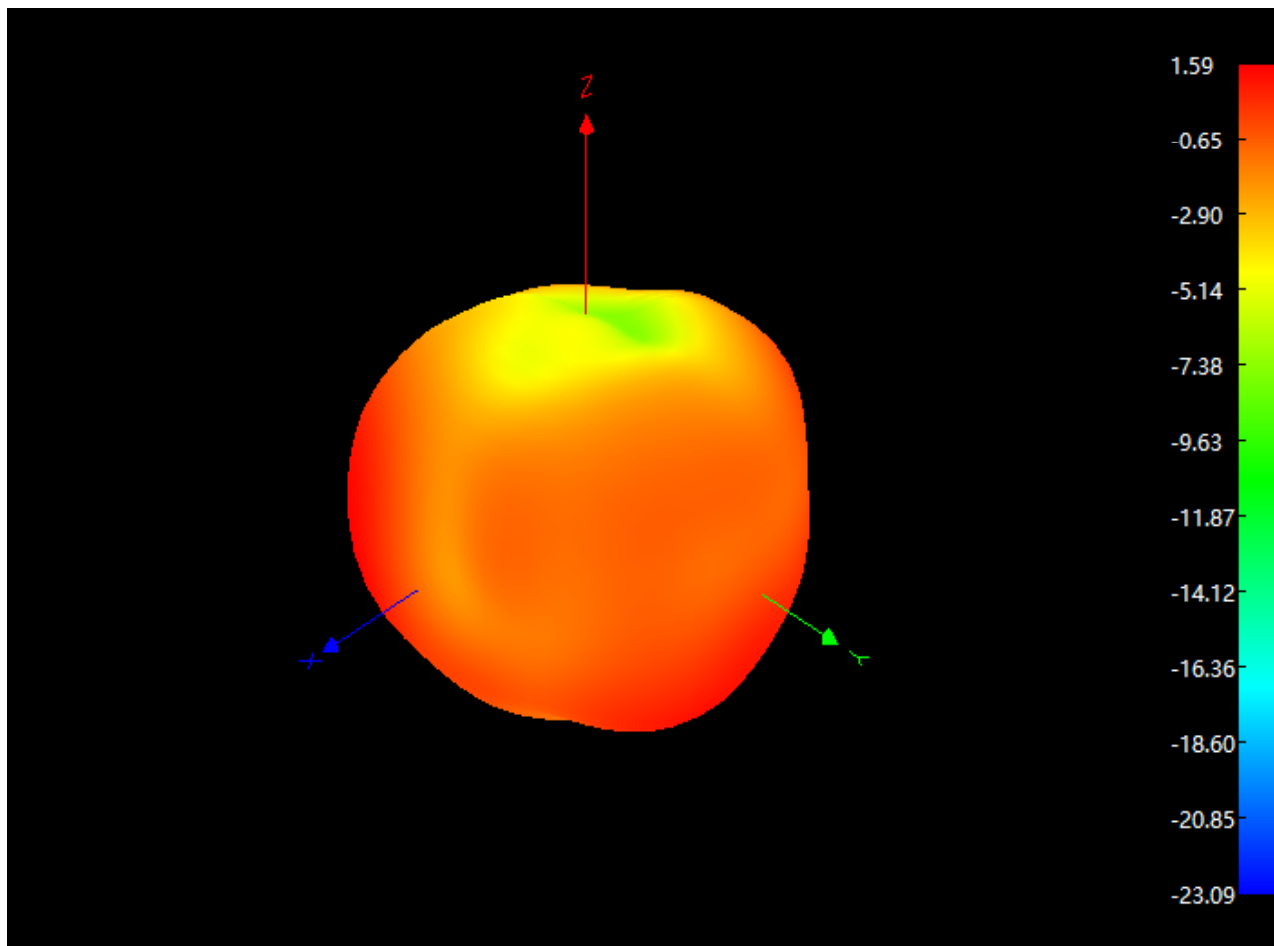
Radiation Pattern For 1787~1937MHz Antenna(1850MHz)



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Radiation Pattern For 1787~1937MHz Antenna(1935MHz)

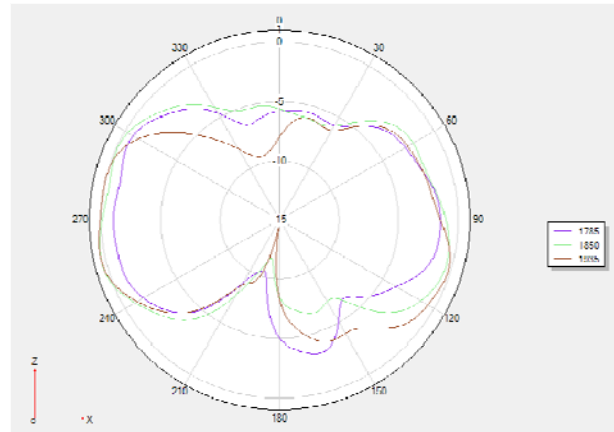


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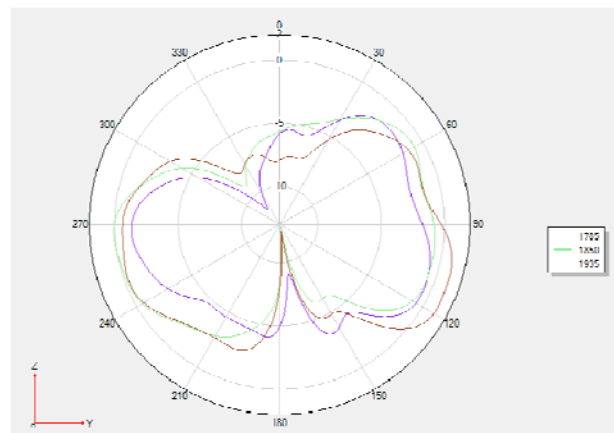


Radiation Pattern For 1787~1937MHz Antenna

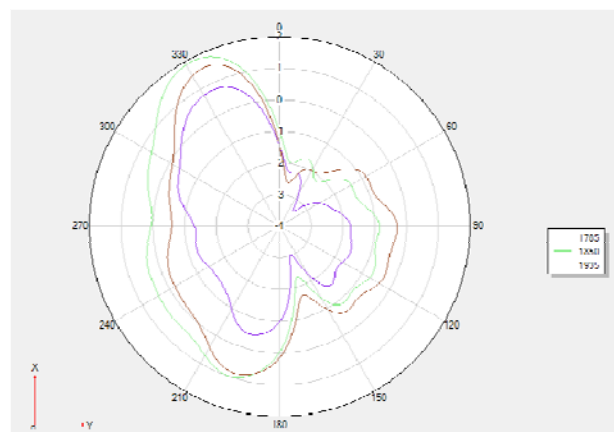
Phi 0°



Phi 90°



Theta 90°



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Device



***1787~1937
MHz
Antenna***



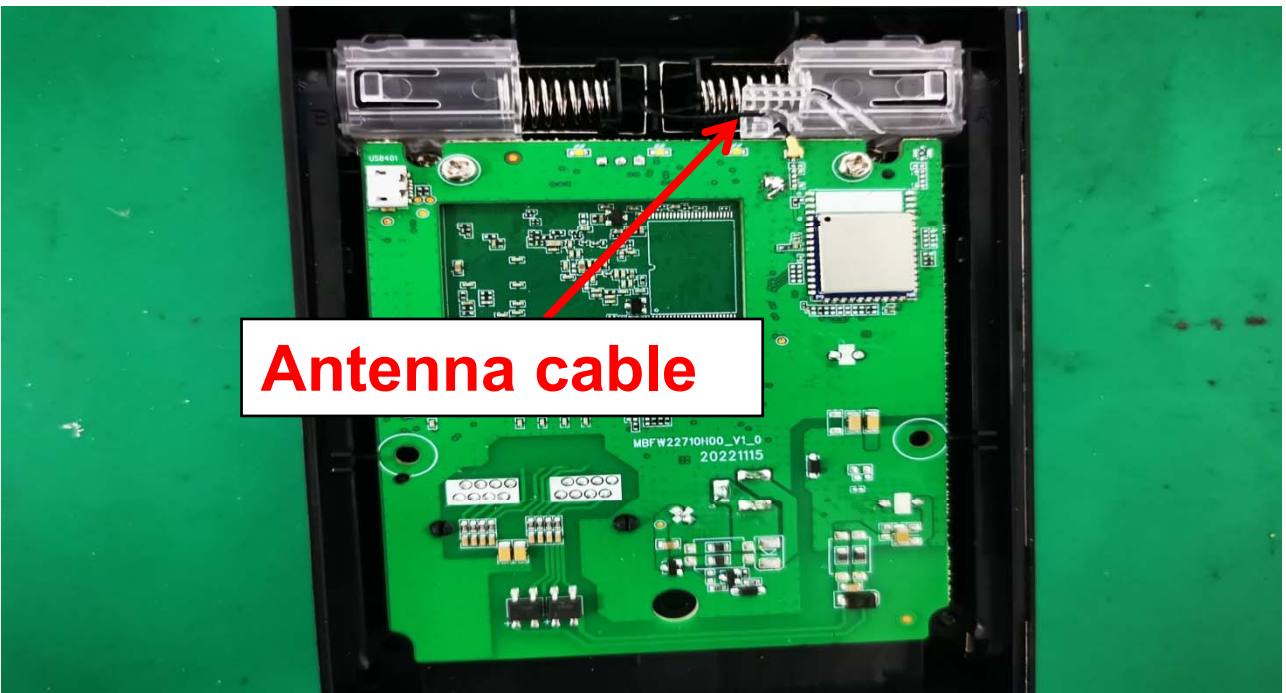
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1787~1937MHz Antenna



Antenna cable



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