

BJTEK NAVIGATION, INC.

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2.4/5.8G Antenna

MODEL: TH-90-RP-SMA(M) 2.4/5.8G



1. GENERAL DESCRIPTION

P/N
P/N : BJHOT160000043B00B-B (研華 P/N: 1750008885-01)

1.1 Electrical Properties

Parameter	Description
Frequency Band	2.4~2.5/5.1~5.8GHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0:1
Gain	2.4~2.5G hz : 2.5dbi 5.1~5.8GHz : 3dbi

1.2 Mechanical Properties

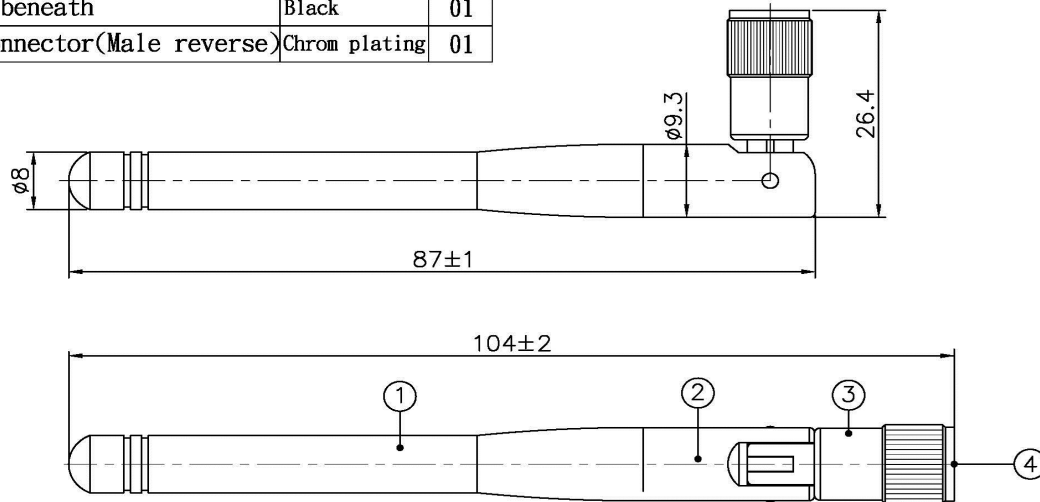
Parameter	Description
Antenna Type	External Antenna
Antenna Cover	TPE
Touch Type	Screw Type
Connector Type	RP-SMA 180°(Male)
Cable Type	RG178 Cable
Antenna Dimensions	104mm±2
Antenna Color	Black
Operating Temperature Range	-20°C~+60°C

Storage Temperature Range

-30°C~+70°C

2. APPEARANCE:

NO.	NAME	FINISH	Q, TY
01	Core tube	Black	01
02	Fixed upper	Black	01
03	Fixed beneath	Black	01
04	SMA-Connector(Male reverse)	Chrom plating	01



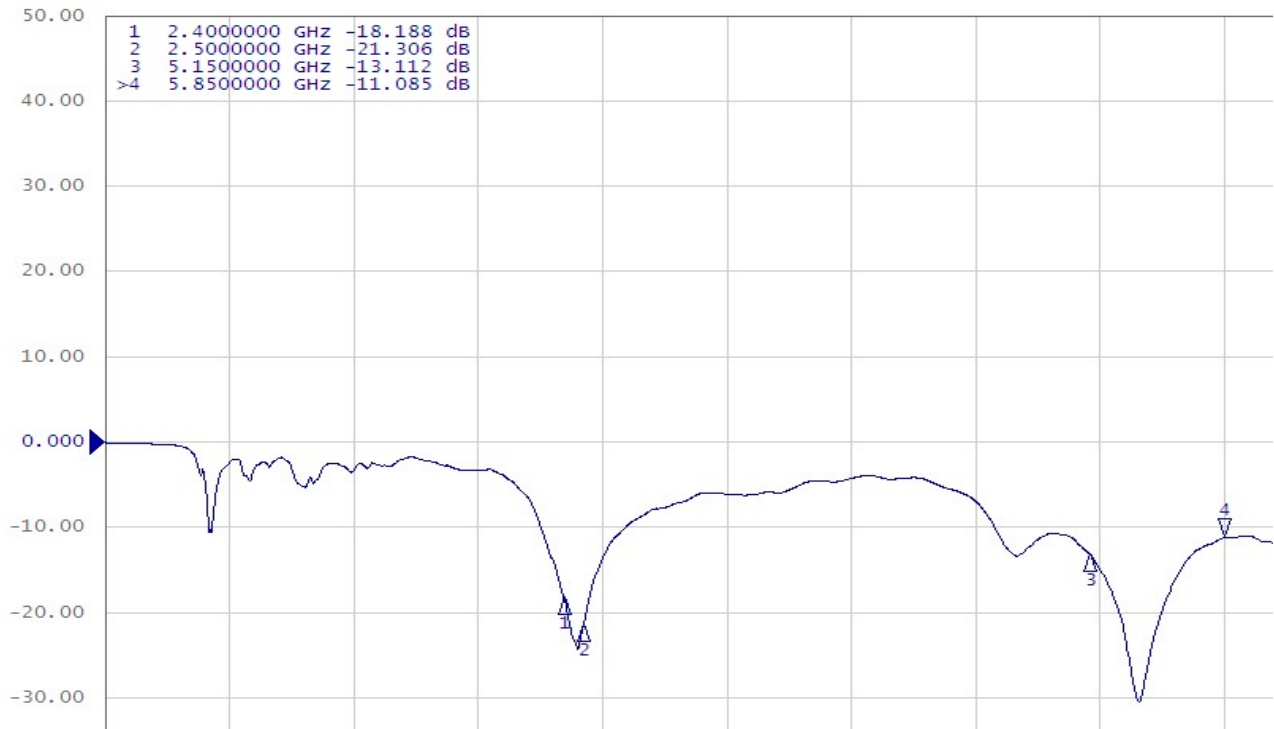
 Third angle projection	CUSTOMER'S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
				2, 4/5, 2/5, 7/5, 8GHz	M/M		20180313	1
	TOLERANCE	X, XX±0, 15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
	SURFACE ROUGHNESS	$\sqrt{\sqrt{}}$	APPEARANCE					

3. Return Loss, V.S.W.R. and Smith Chart

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

▶ Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]

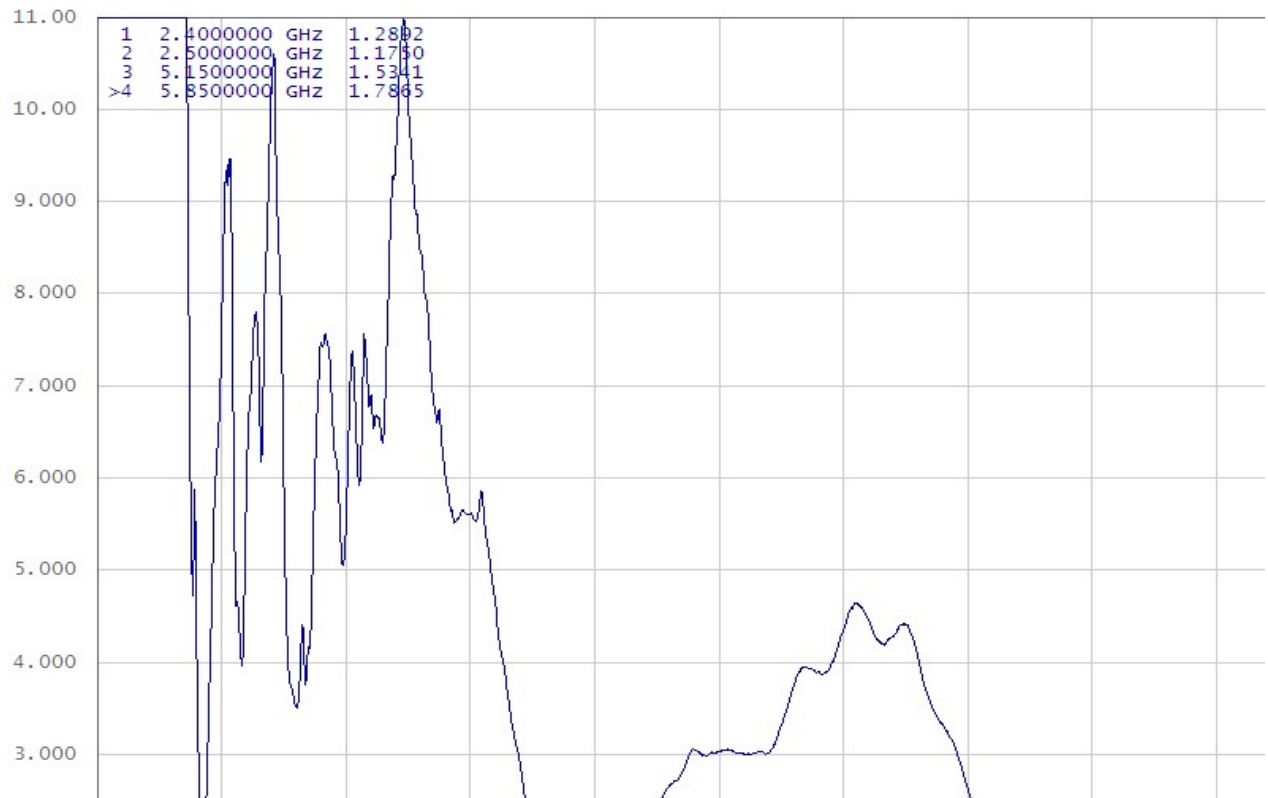


E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

► Tr1 S11 SWR 1.000/ Ref 1.000 [F1]

1	2.400000	GHZ	1.2882
2	2.500000	GHZ	1.1780
3	5.150000	GHZ	1.5341
>4	5.850000	GHZ	1.7885

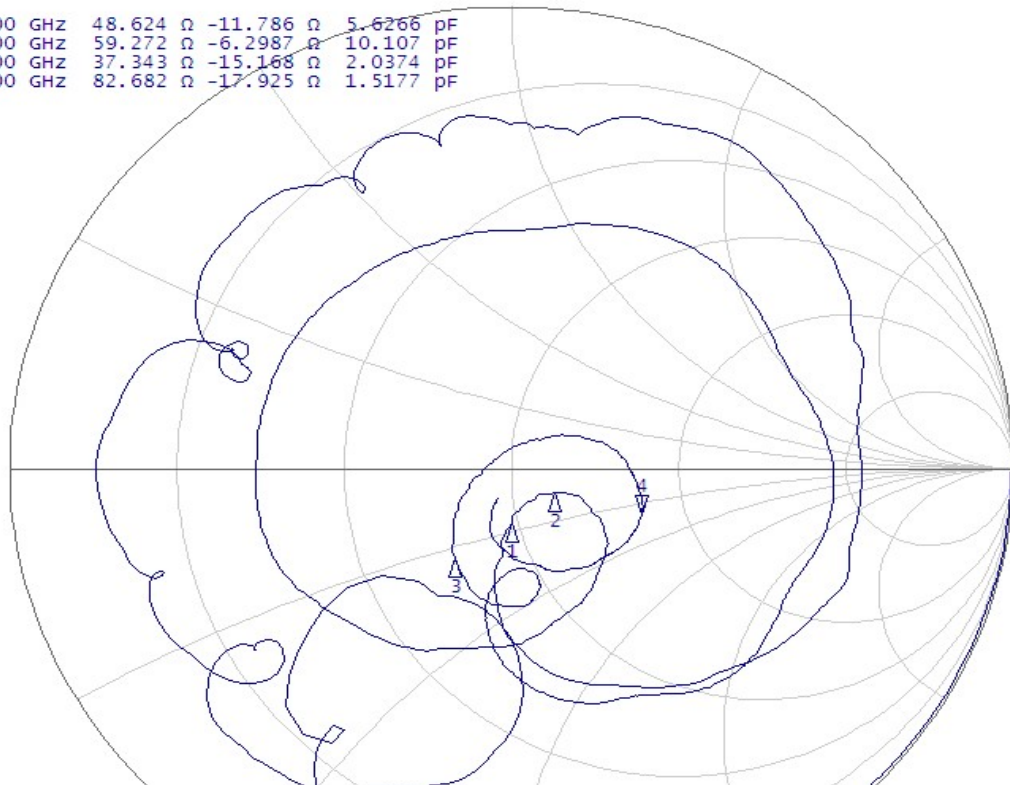


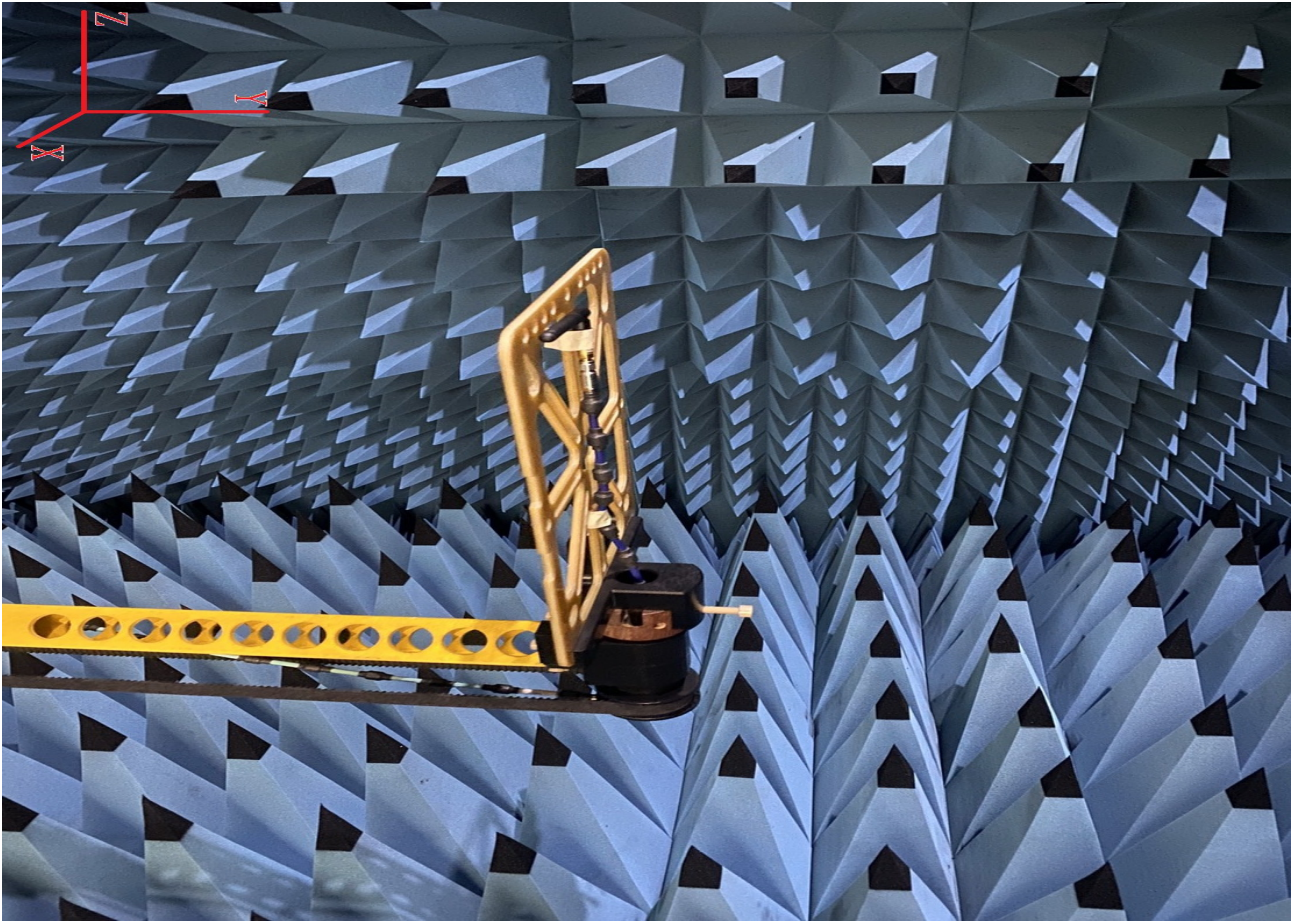
E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

► Tr1 S11 Smith (R+jX) scale 1.000U [F1]

1	2.400000	GHZ	48.624	Ω	-11.786	Ω	5.6266	pF
2	2.500000	GHZ	59.272	Ω	-6.2987	Ω	10.107	pF
3	5.150000	GHZ	37.343	Ω	-15.168	Ω	2.0374	pF
>4	5.850000	GHZ	82.682	Ω	-17.925	Ω	1.5177	pF





Frequency	2.4GHz	2.45GHz	2.5GHz	5.15GHz	5.25GHz	5.35GHz	5.75GHz	5.8GHz	5.85GHz
Horizontal+Vertical									
Efficiency (%)	81.28	76.91	64.57	48.31	56.89	51.05	36.56	33.88	47.1
Gain (dBi)	2.56	2.2	1.51	1.98	2.94	3.68	1.25	0.42	1.69

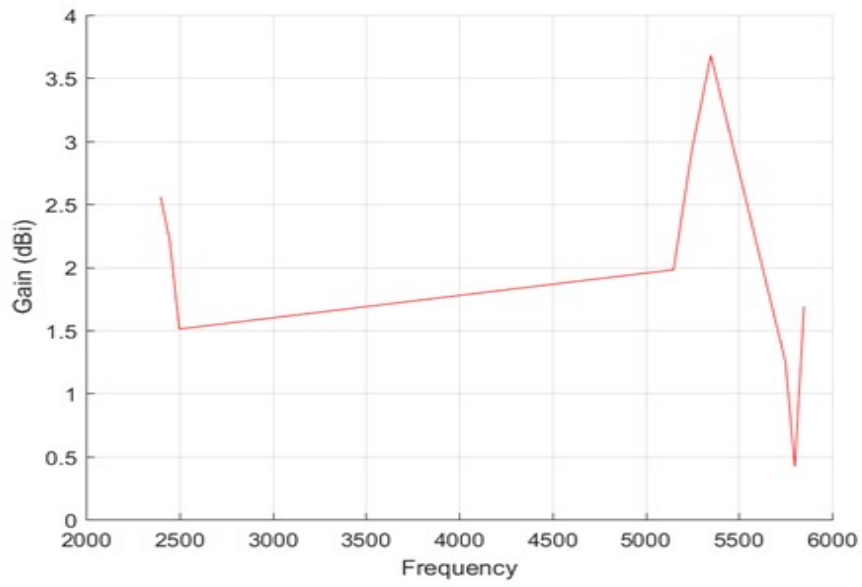
Horizontal

H Efficiency (%)	79.8	75.51	63.39	44.16	51.52	46.03	28.97	25.53	36.73
H Gain (dBi)	2.54	2.16	1.47	1.95	2.92	3.66	0.97	0.16	1.46

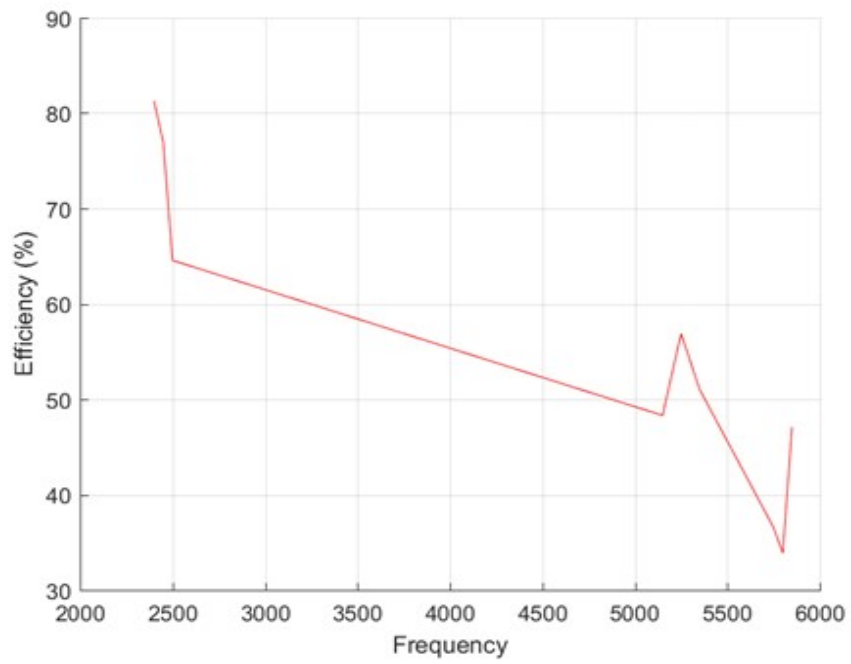
Vertical

V Efficiency (%)	1.42	1.37	1.22	4.1	5.31	5.08	7.62	8.34	10.3
V Gain (dBi)	-9.61	-10.09	-11.21	-1.98	-1.07	-1.25	-0.98	-0.76	0.34

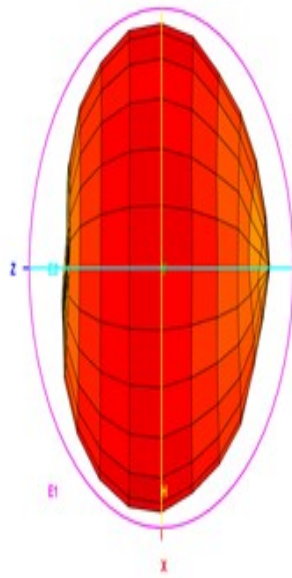
Total_Gain (dBi)



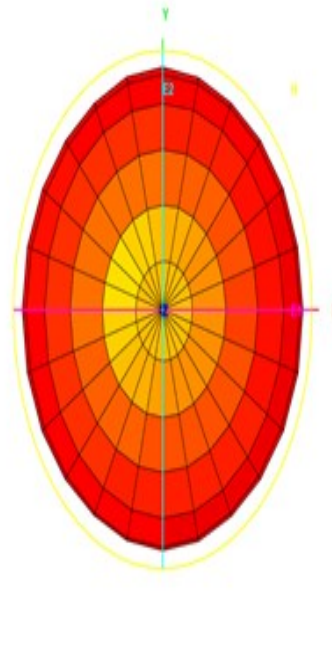
Total_Efficiency (%)



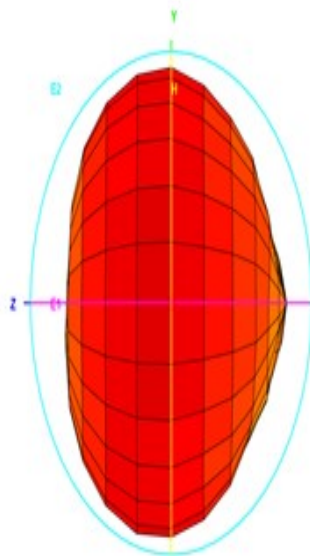
Total_3D_Top View_2.4GHz



Total_3D_Front View_2.4GHz



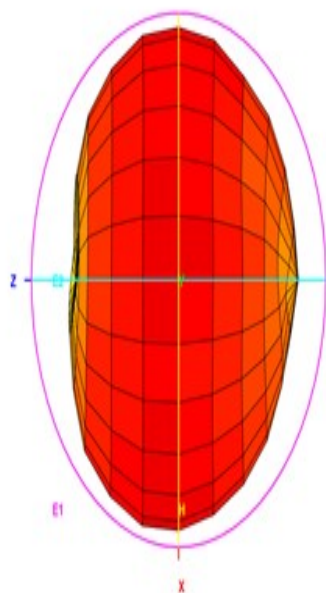
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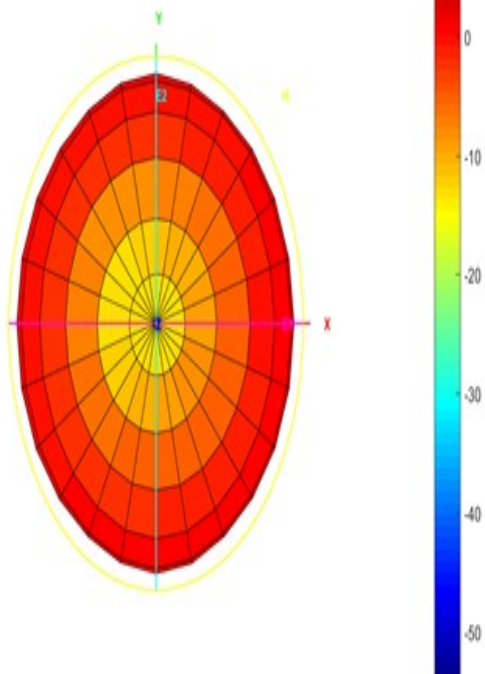
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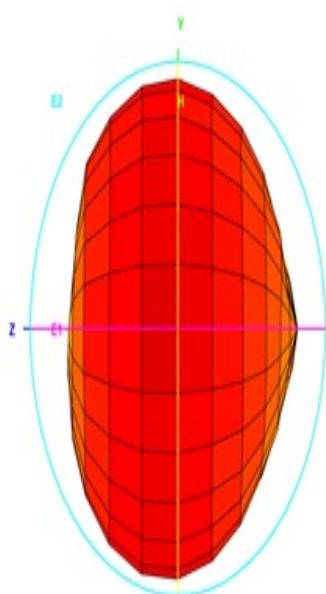
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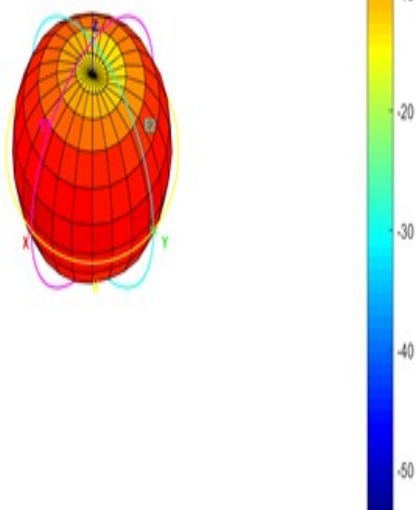
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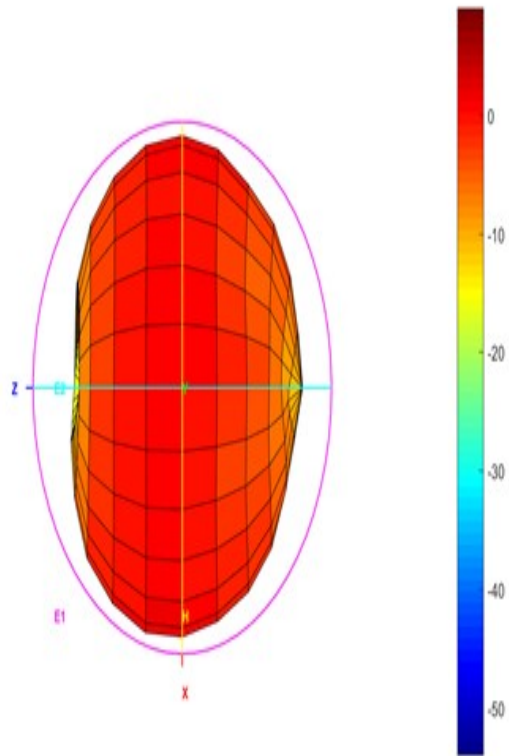
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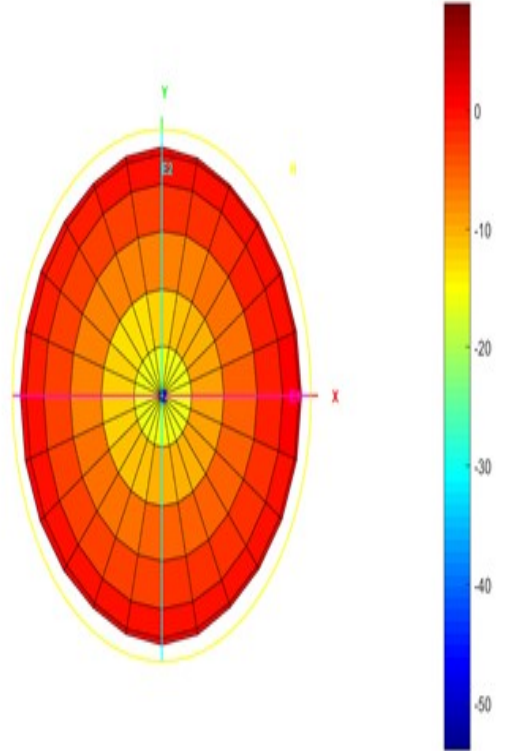
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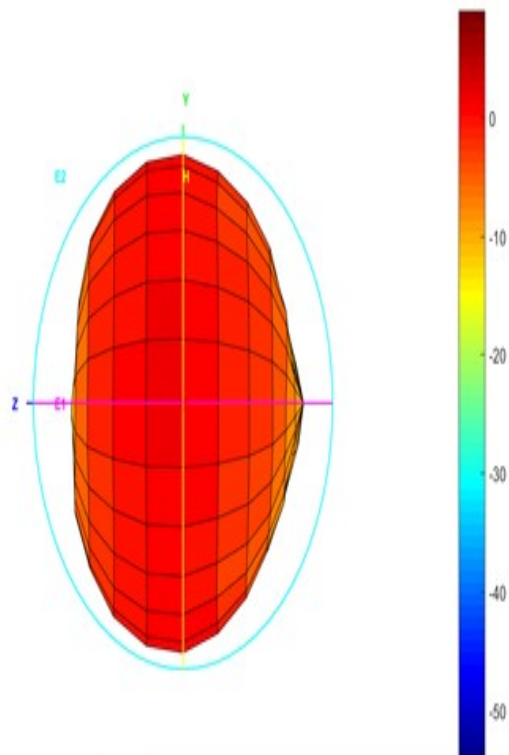
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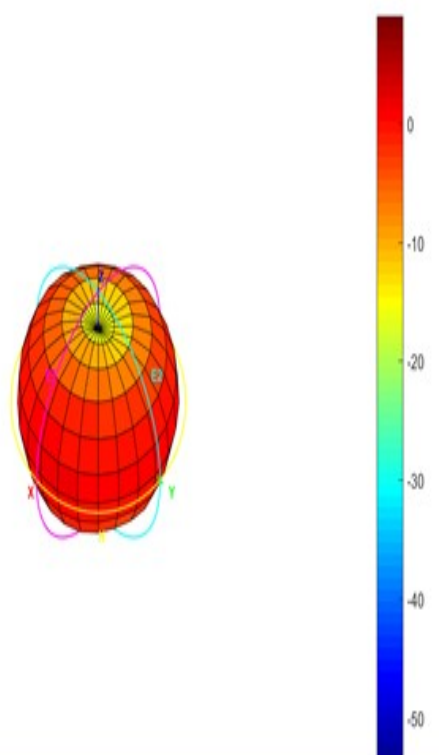
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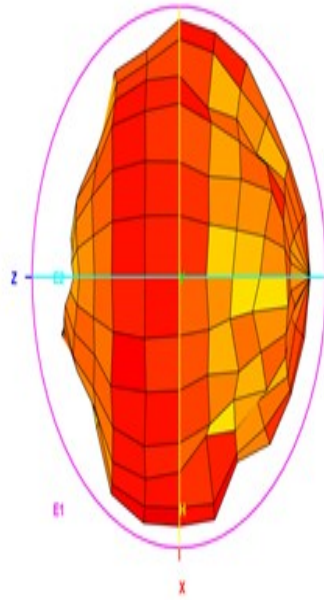
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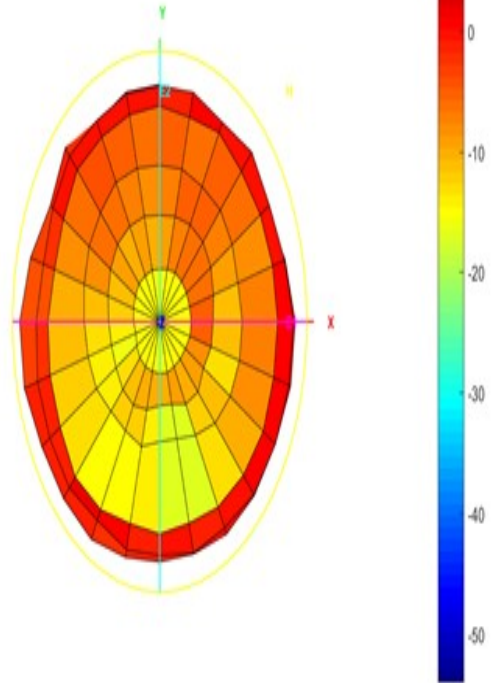
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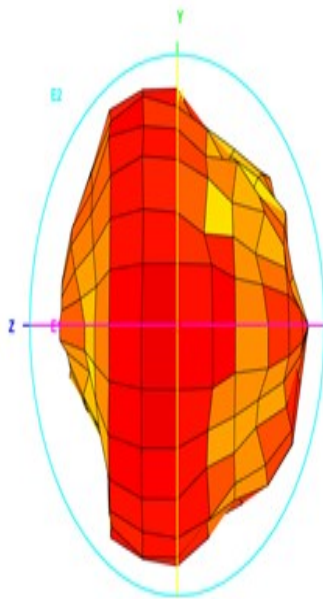
Total_3D_Top View_5.15GHz



Total_3D_Front View_5.15GHz



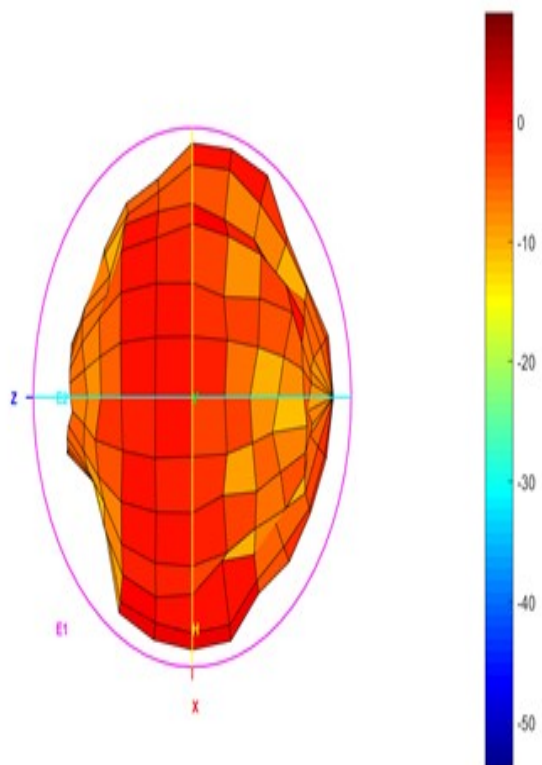
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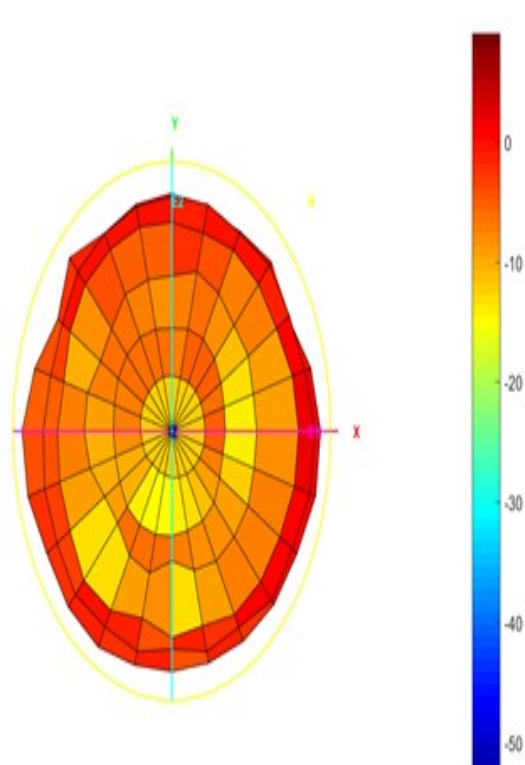
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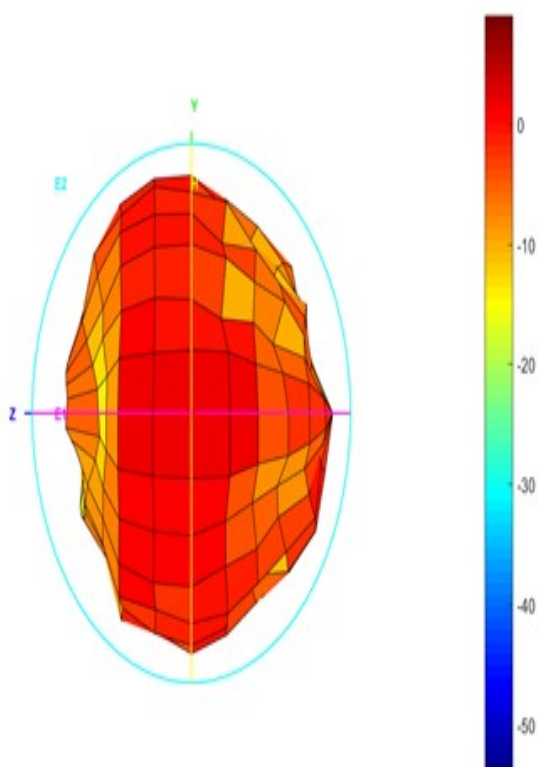
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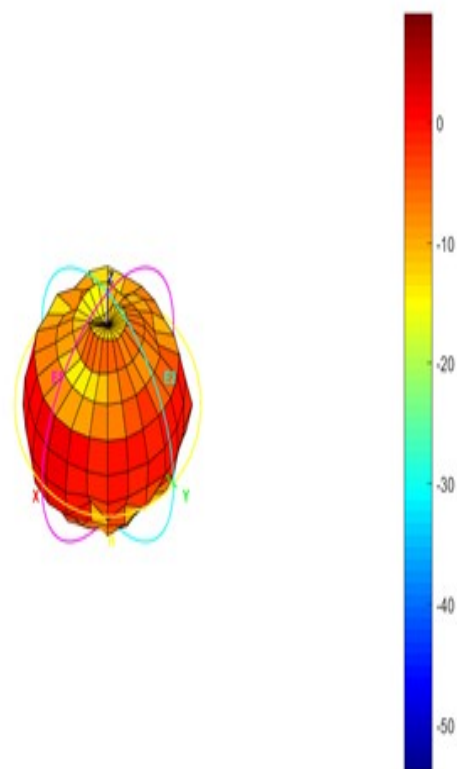
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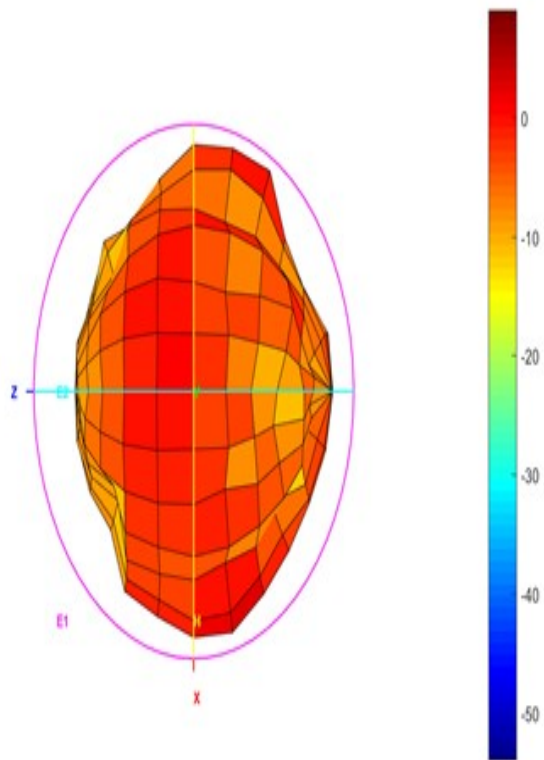
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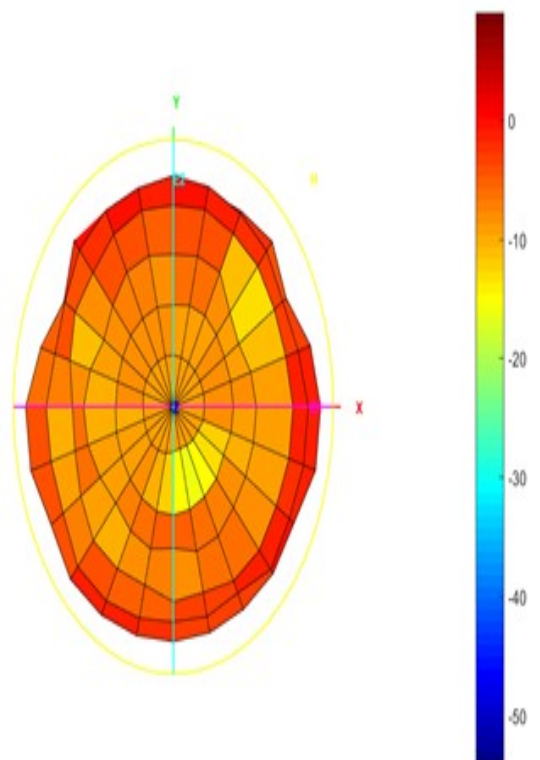
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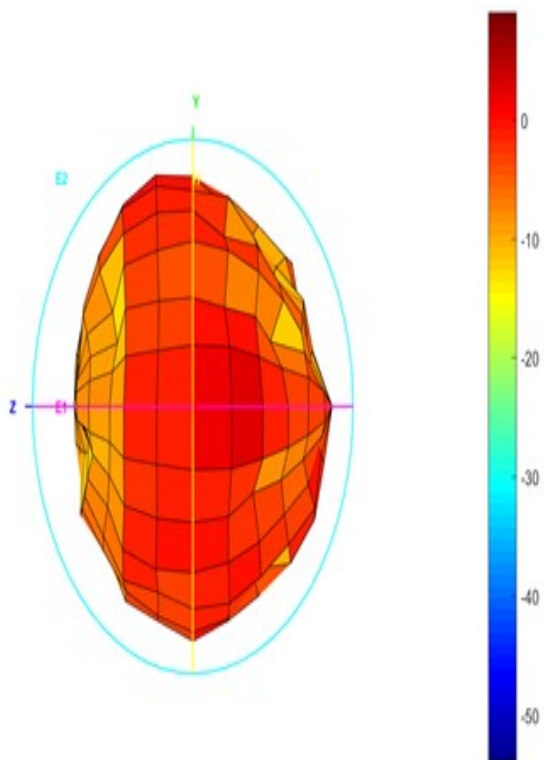
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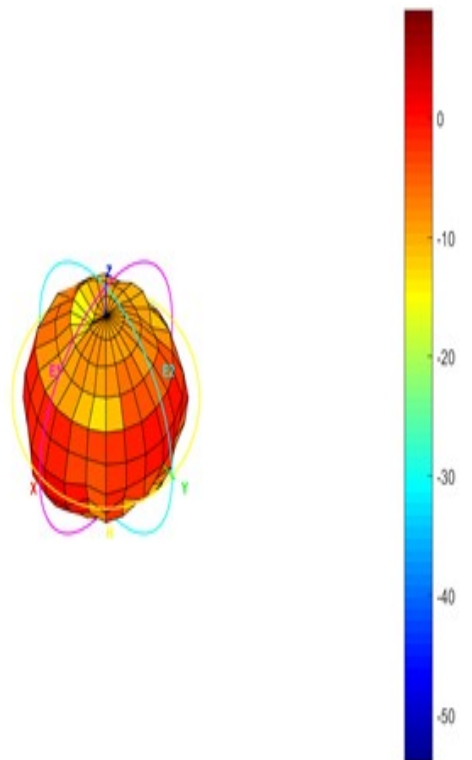
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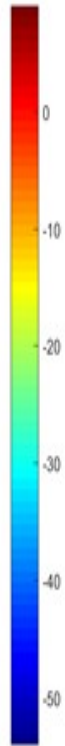
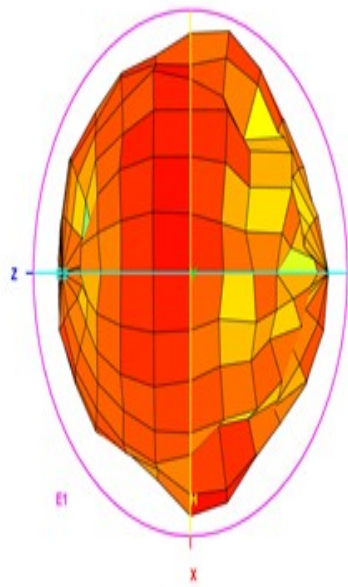
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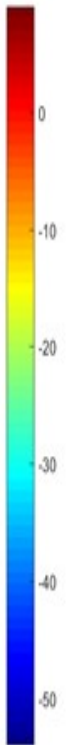
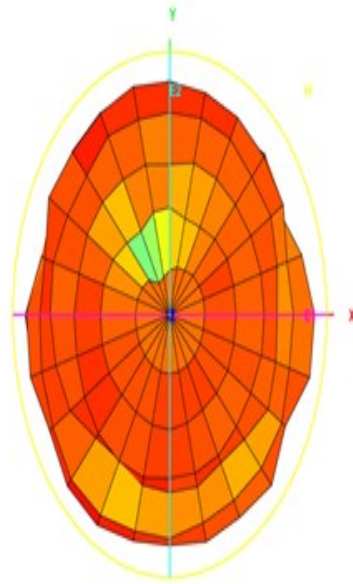
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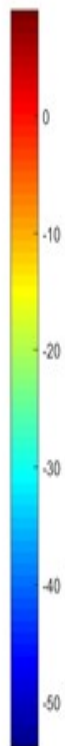
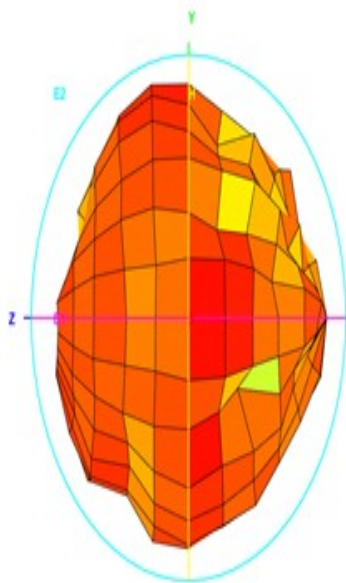
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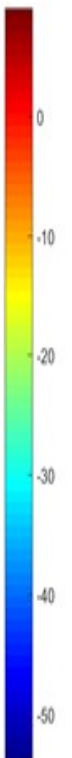
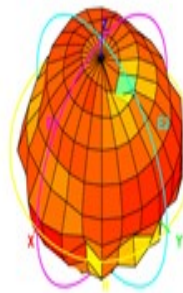
Total_3D_Front View_5.75GHz



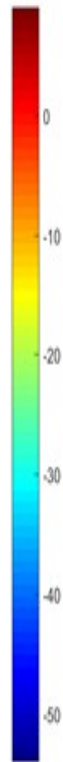
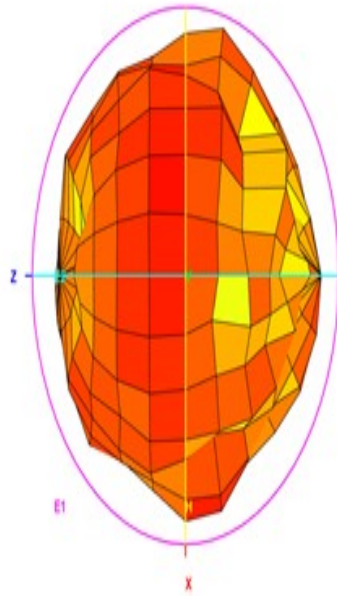
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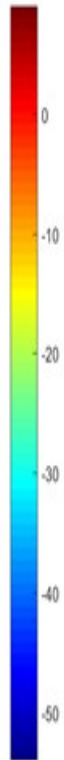
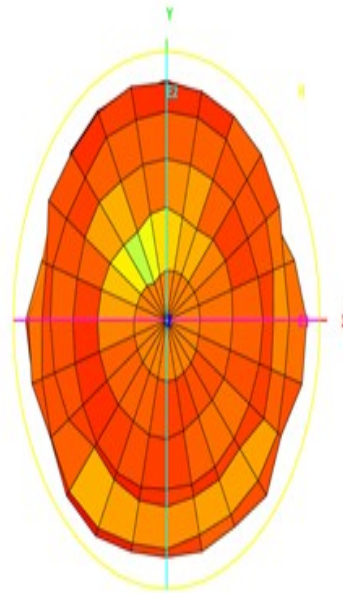
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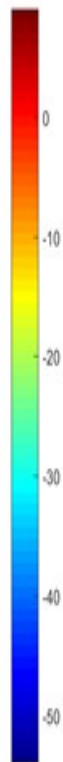
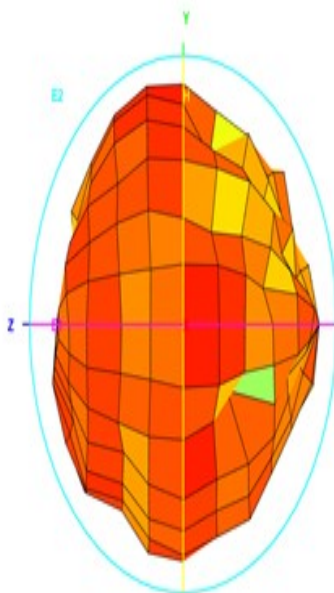
Total_3D_Top View_5.8GHz



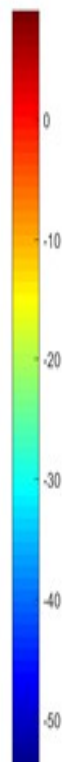
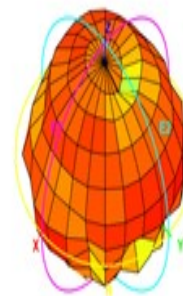
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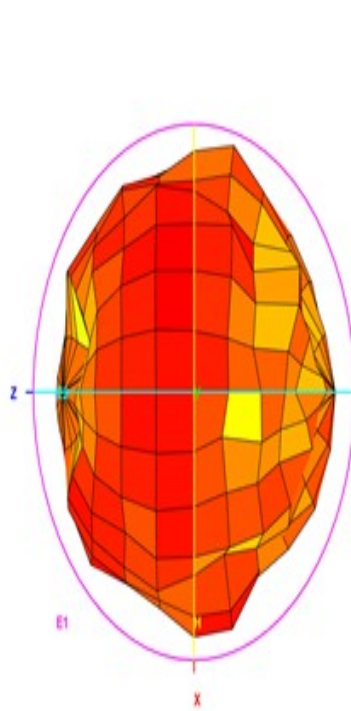
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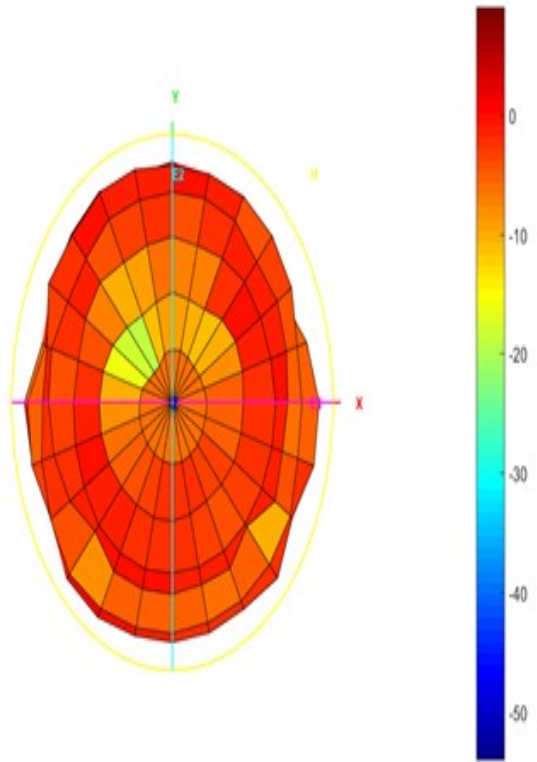
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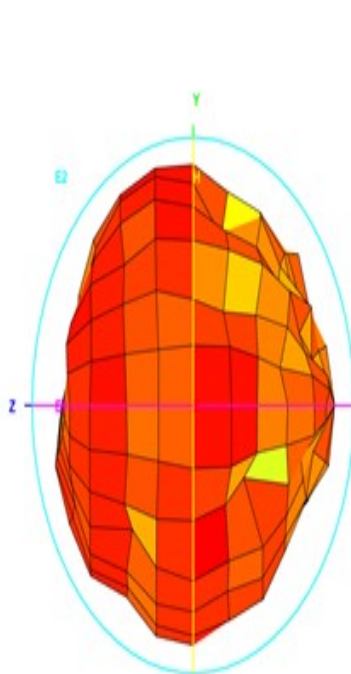
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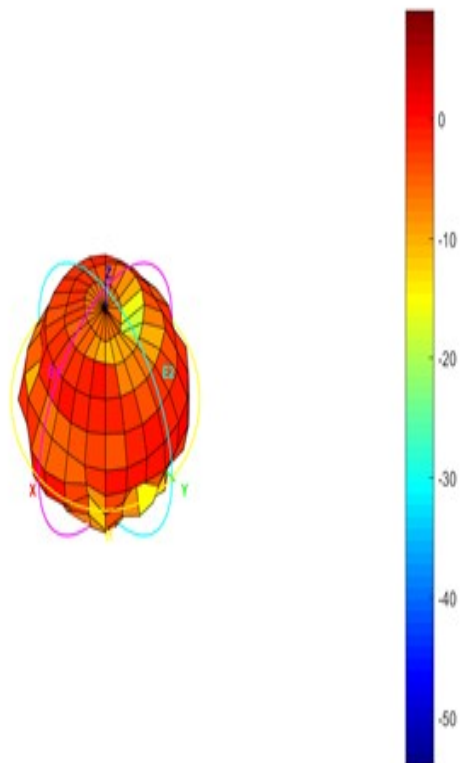
Total_3D_Front View_5.85GHz



Total_3D_Left View_5.85GHz



Total_3D_Side View 1_5.85GHz



包裝方式：

1PCS/PE 袋，

50pcs/夾鍊袋



每包貼此 Label：

供 應 商	百展科技有限公司
品 名	TH-90-RP-SMA(M) 2.4/5.8G
料 號	BJHOT160000043B00B-B
客戶料號	1750008885-01
規 格	2.4G/5.8G Antenna
數 量	50 PCS /包
製表日期	xxxx/xx/xx

外箱側嚟：

MODEL:TH-90-RP-SMA(M)
2.4/5.8G(1750008885-01)

Q'TY: PCS

N.W.: KGS.

G.W.: KGS.

MEAS: × × CM

MODEL:TH-90-RP-SMA(M)
2.4/5.8G(1750008885-01)

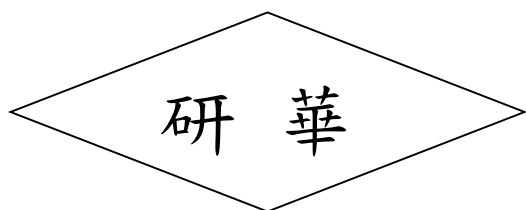
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N.W.: KGS.

G.W.: KGS.

MEAS: × × CM

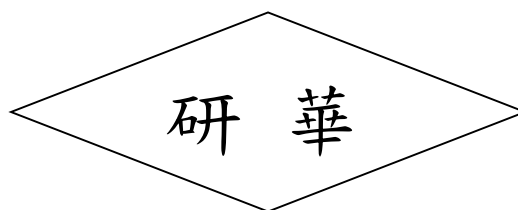
外箱正嚟：



TAIWAN

C/NO.: 1

Made In Taiwan



TAIWAN

C/NO.: 1

Made In Taiwan