



Antenna Test Report

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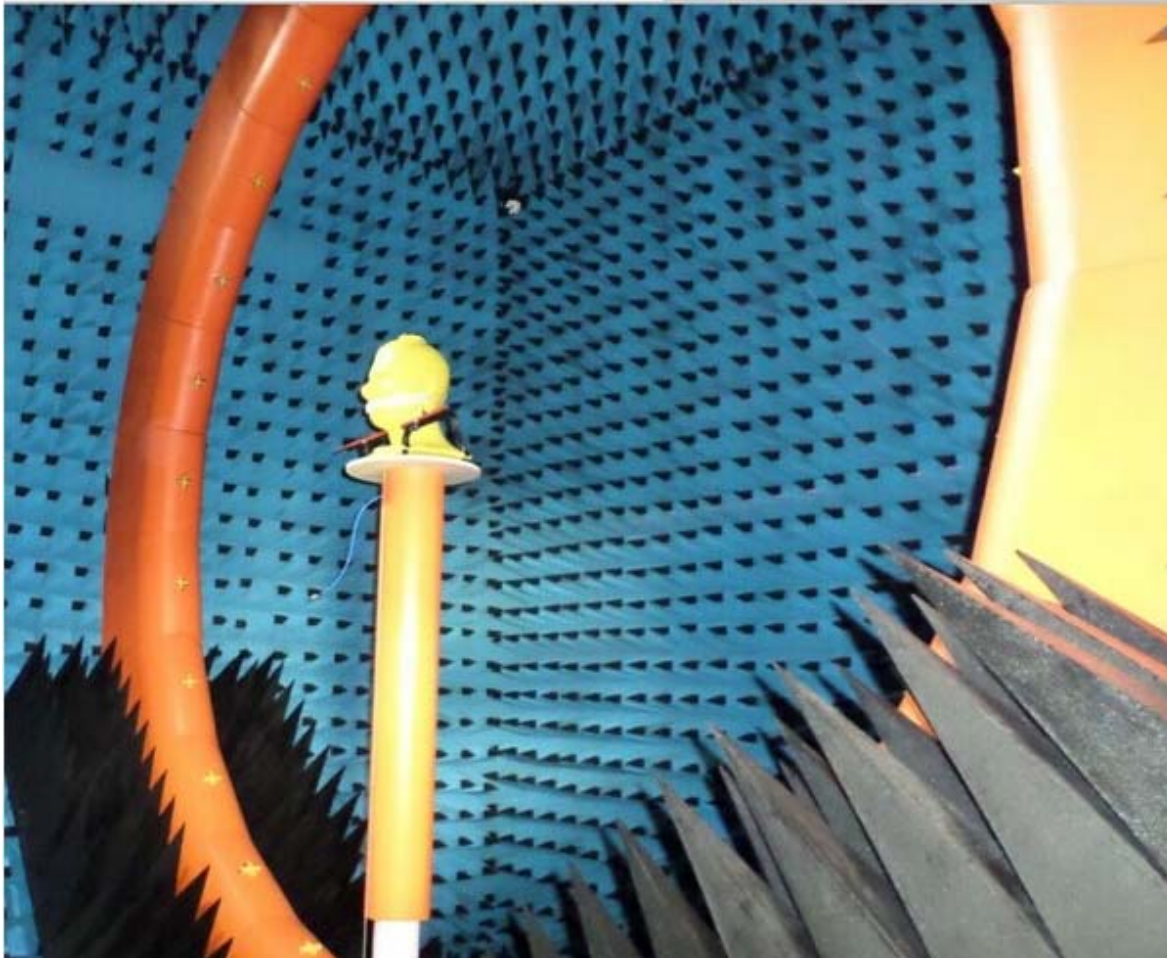
Antenna size diagram

Test equipment

Wireless communications test set: CMW500

Network Analyzer: Agilent 5071B

Anechoic Chamber : SATIMO SG24

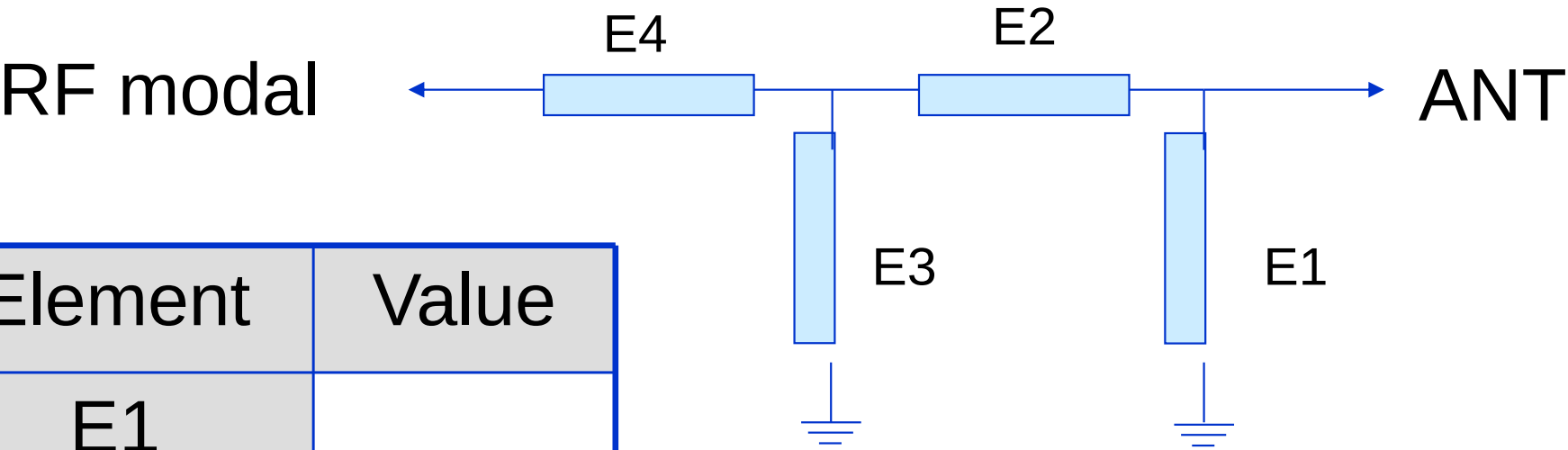


Antenna information

Customer	Boat of wealth
Antenna type	GSM,WCDMA,LTE:FPC BT:Wired
Antenna band	GSM900/1800/850/1900 WCDMA-B2/B5/B8 LTE-B2/4/7/8/28AB BT

frequency range (MHz)	703–960	1710–2170	2500–2690
VSWR	<3.5	<3.5	<3.5

Matching circuit (No modification)



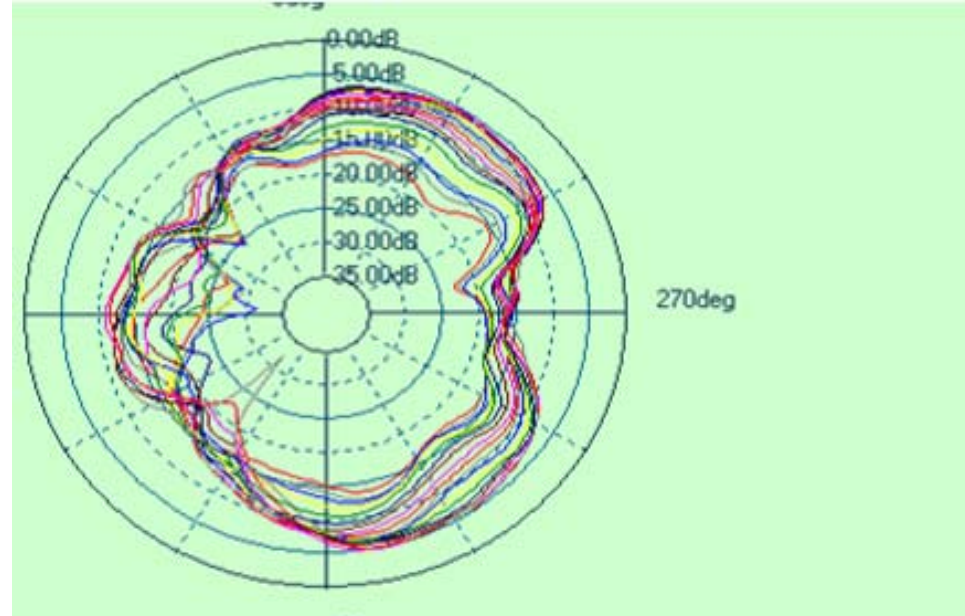
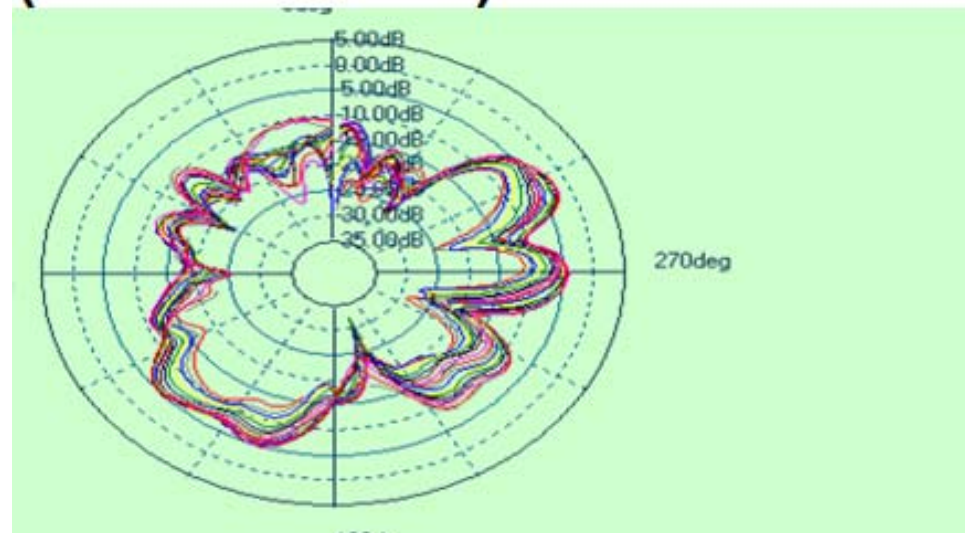
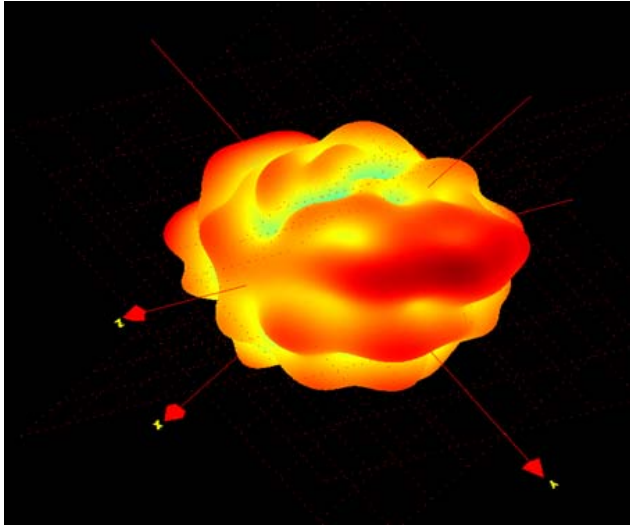
Element	Value
E1	
E2	
E3	
E4	

LTE Antenna gain

Antenna Max. Peak Gain:

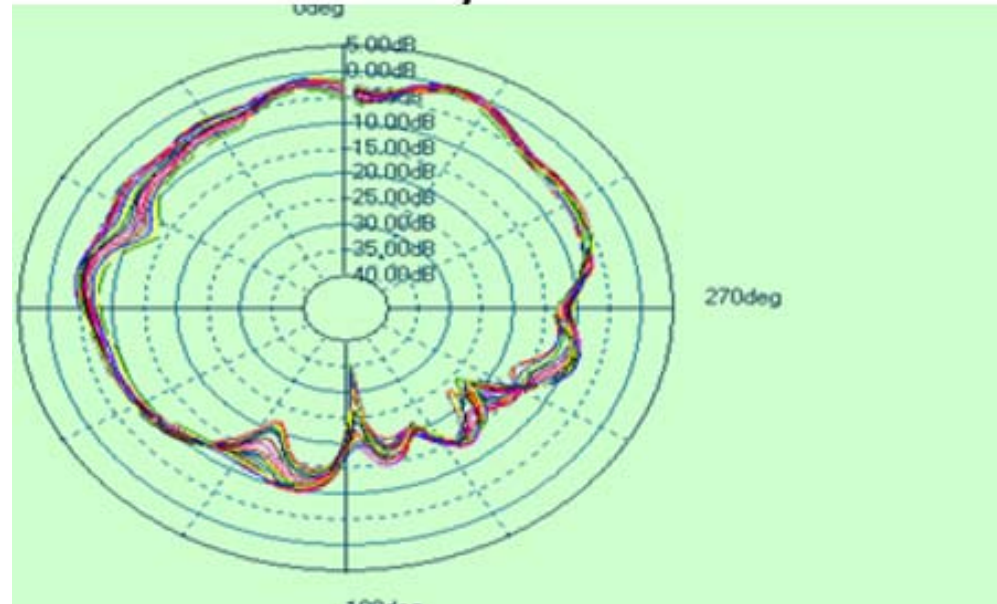
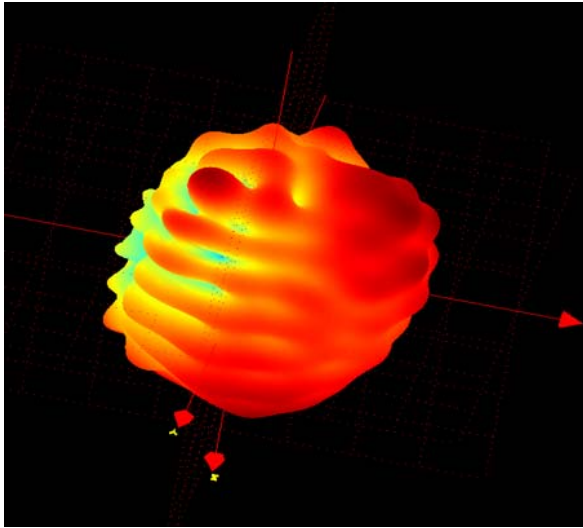
GSM850 (824-894MHz) : -0.93dBi
PCS1900 (1850-1990MHz) : 2.09dBi
WCDMA-B2 (1850-1990MHz) : 2.09dBi
WCDMA-B5 (824-894MHz) : -0.93dBi
LTE-B2 (1850-1990MHz) : 2.09dBi
LTE-B4 (1710-2155MHz) : 2.15dBi
LTE-B7 (2500-2690MHz) : 0.37dBi
BT (2400-2500MHz) : -0.16dBi

Main antenna Peak Gain(703~960M)

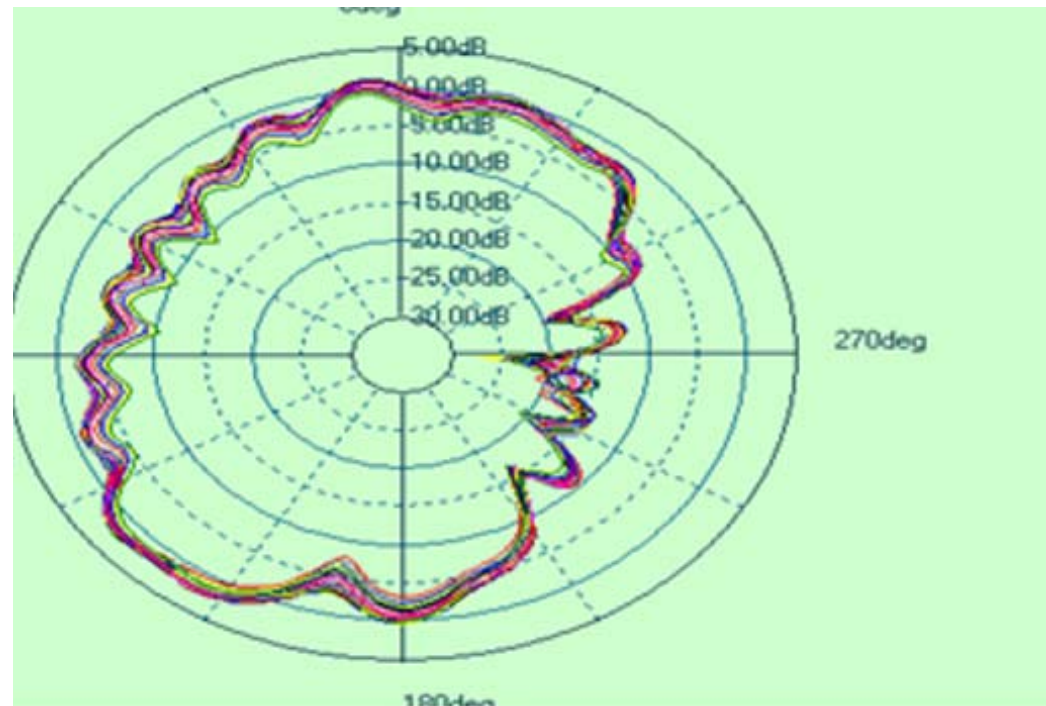


Freq (MHZ)	Effi (%)
703	24.8
824	26.7
960	27.4

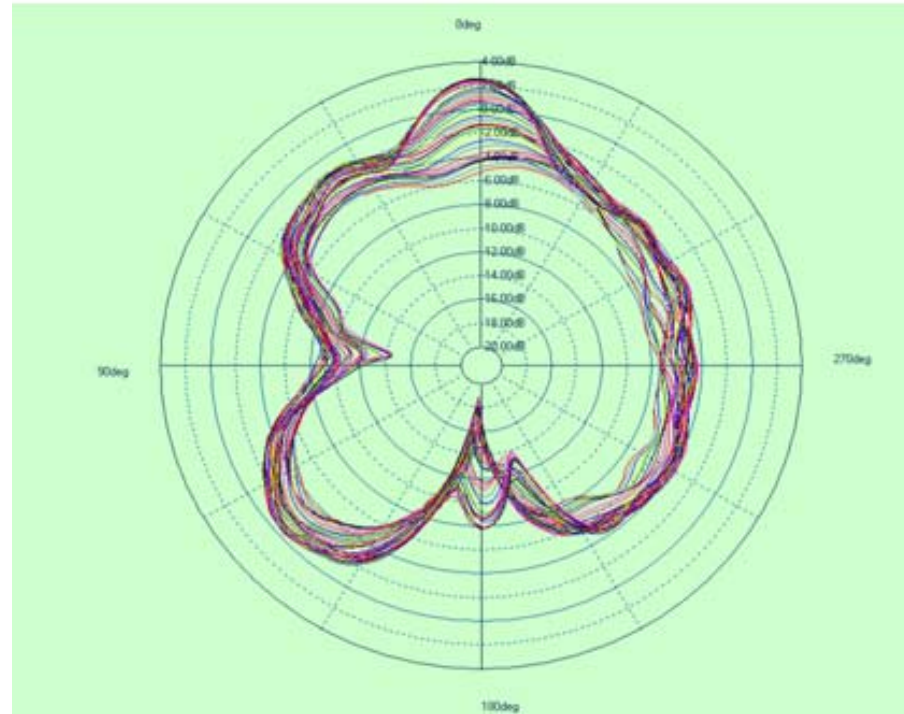
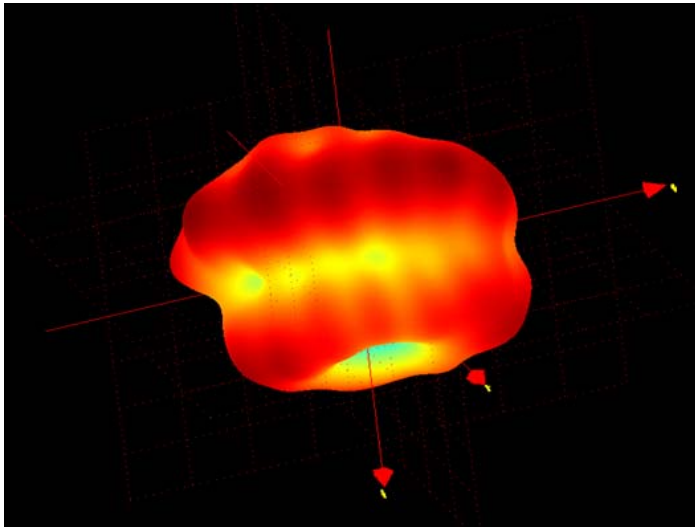
2.3 Main antenna Peak Gain(2490~2690M)



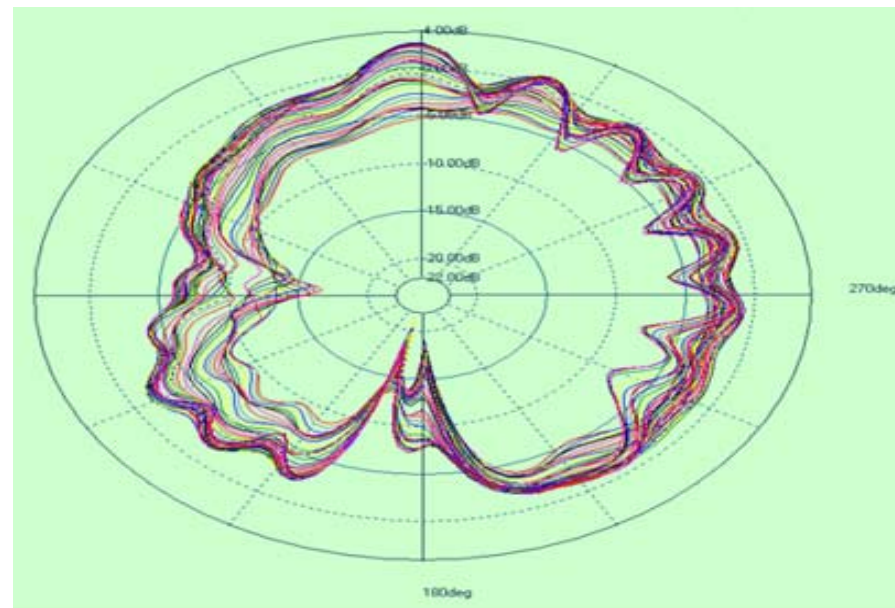
Freq (MHZ)	Effi (%)
2590	38.7



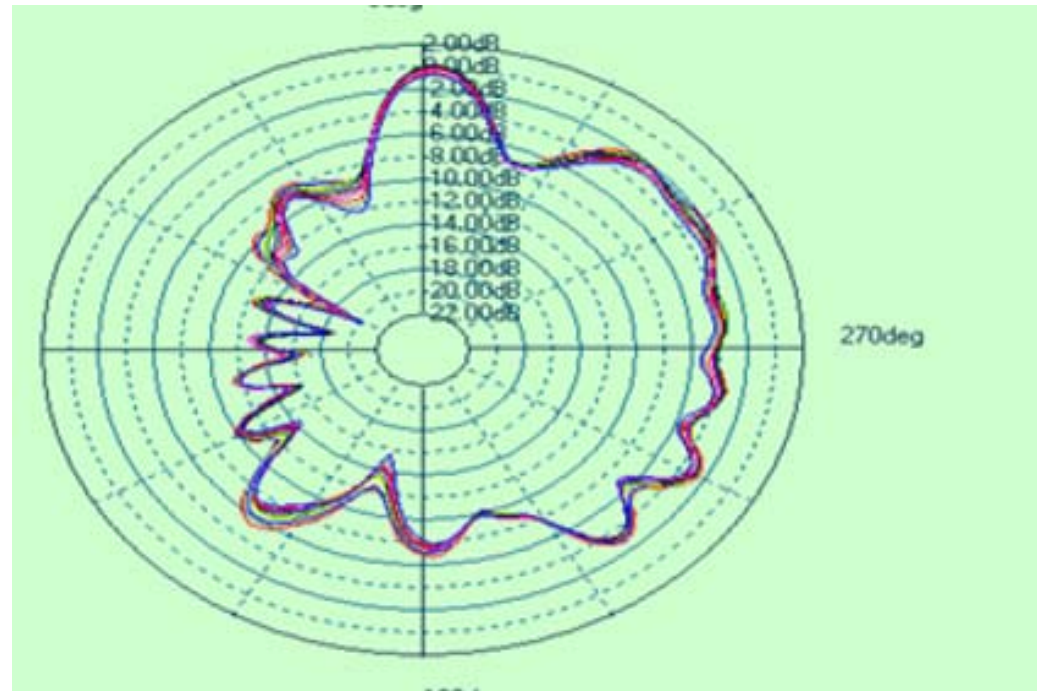
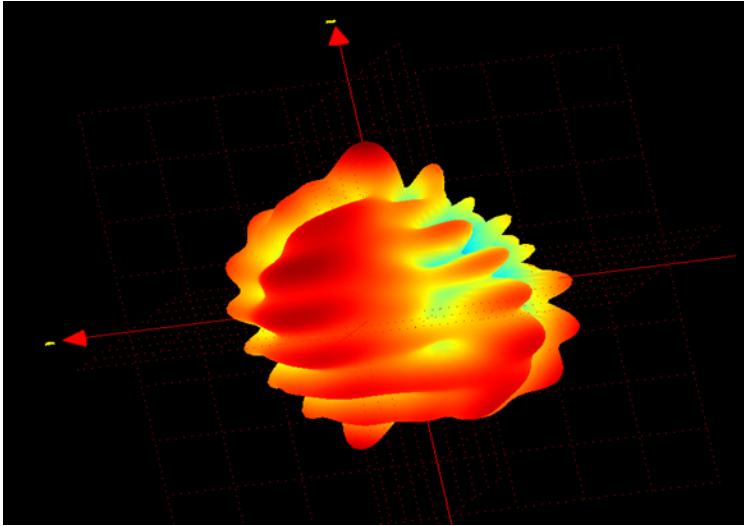
2.3 DIV antenna Peak Gain(1710~2170M)



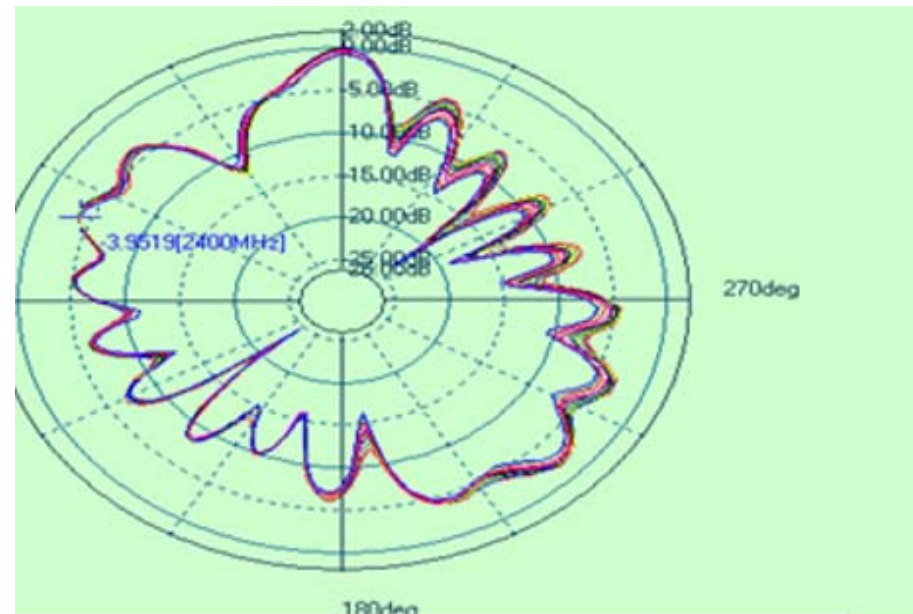
Freq (MHZ)	Effi (%)
1880	34.6
1990	36.8
2110	35.4



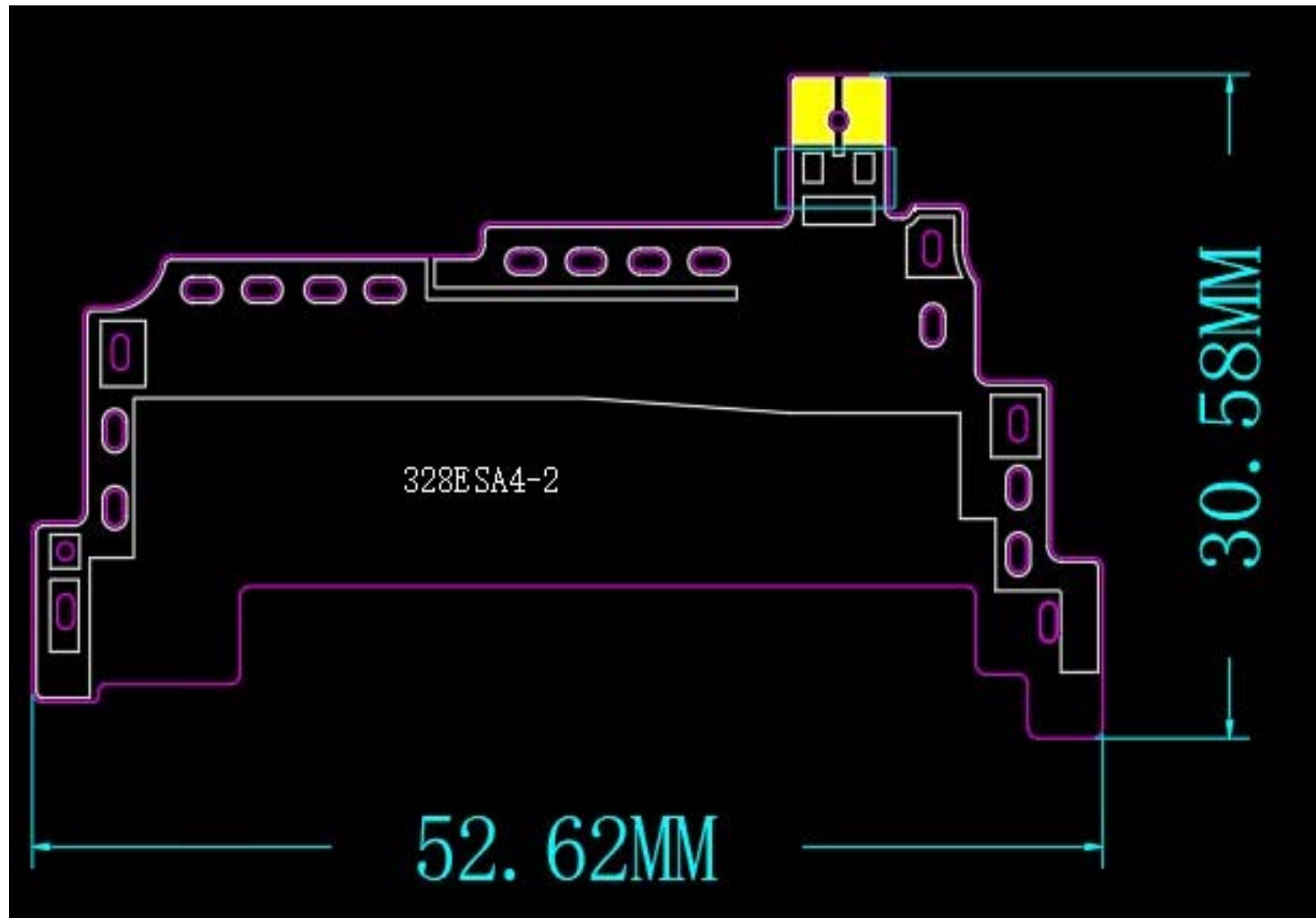
2.3 BT antenna Peak Gain(2400-2500M)



Freq (MHZ)	Effi (%)
2450	34.7



Antenna size diagram



BT Antenna size diagram

