



The Antenna Test Report

Y-YB-CR-089

V003

confidentiality

Antenna Version: ANT-2G4-04

Model of the DUT: MT05801

PCB number and version: MS116F6_V2.2

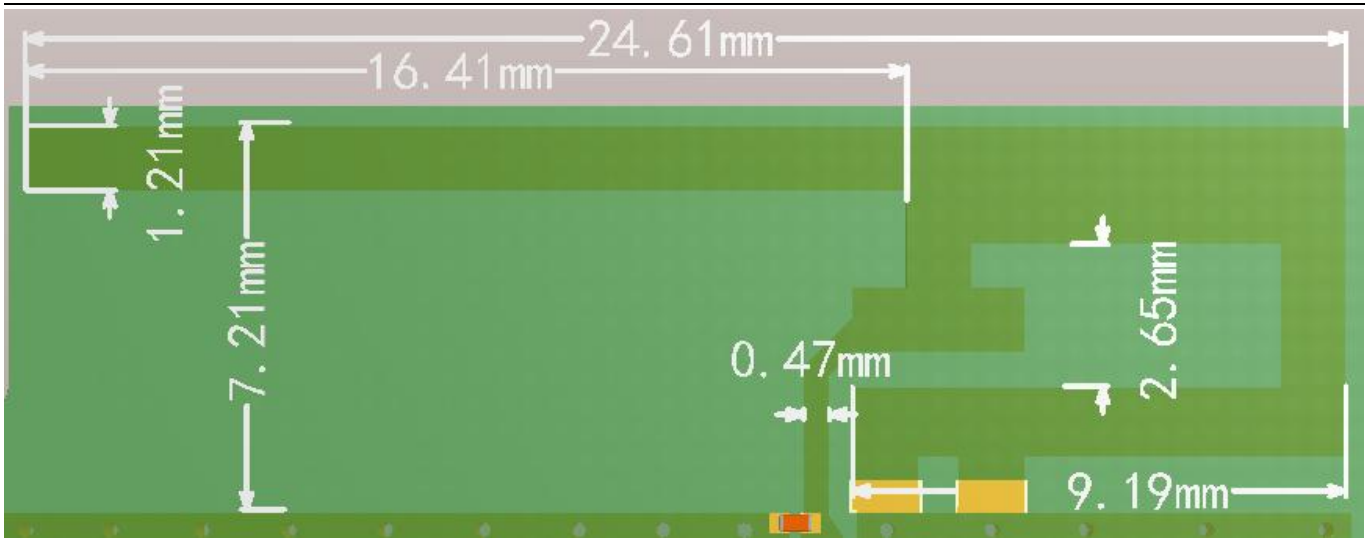
Hardware Engineer: 窦淼全

Test Data: 2019/11/6

1、(Technical Specification)

Electrical Specifications	
Frequency Range (MHz)	2400-2480
Bandwidth (-10dB) (MHz)	≥ 100
Input Impedance (Ω)	50
Return Loss (dB)	< -21
VSWR	< 1.5
Gain (@2.44GHz) (dBi)	0
Peak Gain (dBi)	0.2
Polarization Type	Linear polarization
Lightning Protection	(DC grounding)
Power Capacity (mW)	1000
Mechanical Specifications	
Antenna Size (mm)	25.6*7.2mm
Radiator	Cuprum
Connect Type	无
Working Temperature ($^{\circ}\text{C}$)	-20~50
Storage Temperature ($^{\circ}\text{C}$)	-40~65

2、the shape and size of the antenna



3、The result of the test





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3. 1 Gain and Efficiency

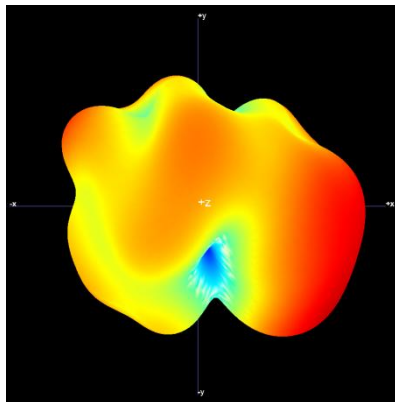
Frequency	Efficiency	Efficiency . dB	Frequency	Gain . dB
2.4E+09	23%	-6.32799	2.4E+09	-0.66006
2.4E+09	23%	-6.30898	2.4E+09	-0.56546
2.4E+09	23%	-6.32589	2.4E+09	-0.54336
2.41E+09	23%	-6.36286	2.41E+09	-0.66073
2.41E+09	23%	-6.35233	2.41E+09	-0.71176
2.41E+09	24%	-6.27077	2.41E+09	-0.63595
2.41E+09	24%	-6.16547	2.41E+09	-0.43647
2.41E+09	24%	-6.11536	2.41E+09	-0.35755
2.42E+09	24%	-6.11725	2.42E+09	-0.4147
2.42E+09	24%	-6.11008	2.42E+09	-0.43095
2.42E+09	25%	-6.07978	2.42E+09	-0.34409
2.42E+09	25%	-6.0391	2.42E+09	-0.22428
2.42E+09	25%	-6.04156	2.42E+09	-0.24951
2.43E+09	25%	-6.05295	2.43E+09	-0.35968
2.43E+09	25%	-6.00616	2.43E+09	-0.33309
2.43E+09	26%	-5.89414	2.43E+09	-0.12825
2.43E+09	26%	-5.84865	2.43E+09	0.053415
2.43E+09	26%	-5.85921	2.43E+09	0.01101
2.44E+09	26%	-5.89675	2.44E+09	-0.22421
2.44E+09	26%	-5.90238	2.44E+09	-0.23389
2.44E+09	26%	-5.88447	2.44E+09	-0.0321
2.44E+09	26%	-5.89213	2.44E+09	0.039532
2.44E+09	25%	-5.94917	2.44E+09	-0.09885
2.45E+09	25%	-5.97808	2.45E+09	-0.30077
2.45E+09	26%	-5.93428	2.45E+09	-0.20493
2.45E+09	26%	-5.86808	2.45E+09	0.043325
2.45E+09	26%	-5.81473	2.45E+09	0.122741
2.45E+09	26%	-5.80969	2.45E+09	-0.05347
2.46E+09	26%	-5.79446	2.46E+09	-0.10647
2.46E+09	27%	-5.73856	2.46E+09	0.015195
2.46E+09	27%	-5.68973	2.46E+09	0.155866
2.46E+09	27%	-5.69068	2.46E+09	0.087145
2.46E+09	27%	-5.71524	2.46E+09	-0.08214
2.47E+09	27%	-5.69377	2.47E+09	-0.10311
2.47E+09	27%	-5.621	2.47E+09	0.040684
2.47E+09	28%	-5.55159	2.47E+09	0.211747
2.47E+09	28%	-5.58712	2.47E+09	0.096428
2.47E+09	27%	-5.64649	2.47E+09	-0.05649
2.48E+09	27%	-5.65986	2.48E+09	-0.01055
2.48E+09	27%	-5.63399	2.48E+09	-0.03047

2.48E+09	27%	-5.63458	2.48E+09	-0.04555
2.48E+09	27%	-5.67343	2.48E+09	-0.16847
2.48E+09	27%	-5.71063	2.48E+09	-0.06164
2.49E+09	27%	-5.69227	2.49E+09	-0.02283
2.49E+09	27%	-5.64553	2.49E+09	-0.02305
2.49E+09	27%	-5.63323	2.49E+09	-0.0209
2.49E+09	27%	-5.63746	2.49E+09	-0.13023
2.49E+09	27%	-5.63554	2.49E+09	0.027534
2.5E+09	28%	-5.5953	2.5E+09	0.067706
2.5E+09	28%	-5.55627	2.5E+09	0.058407
2.5E+09	28%	-5.56593	2.5E+09	-0.03035

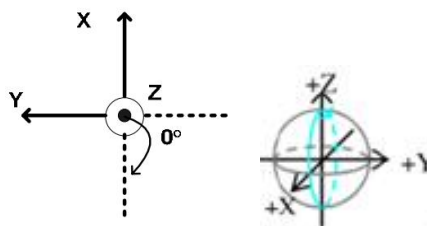
3.2 Radiation Pattern

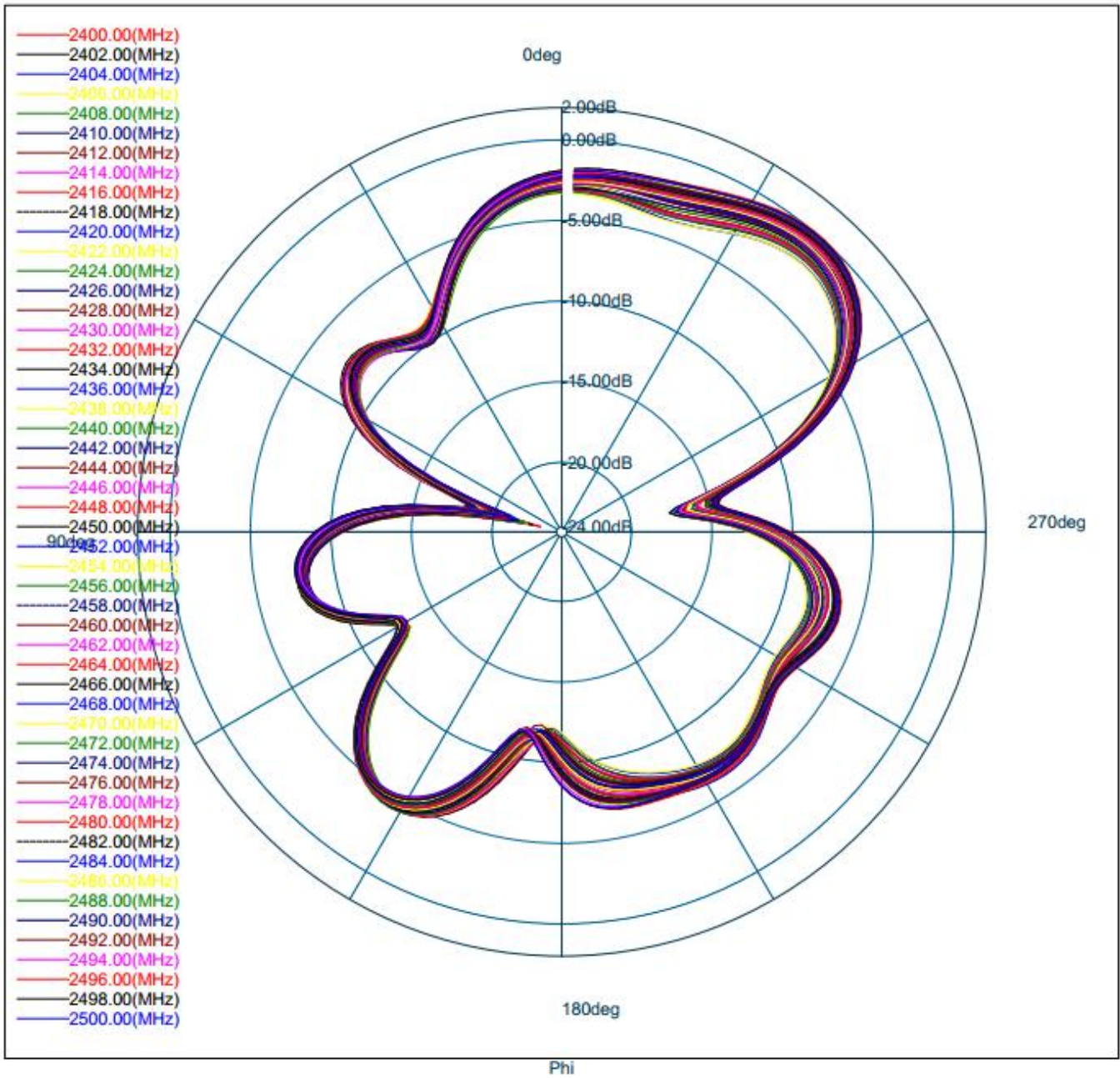
3D 方向图

2440MHz

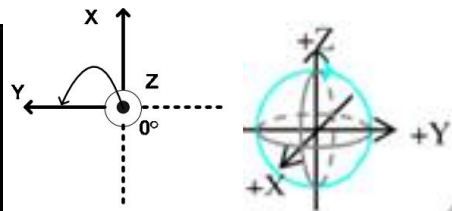


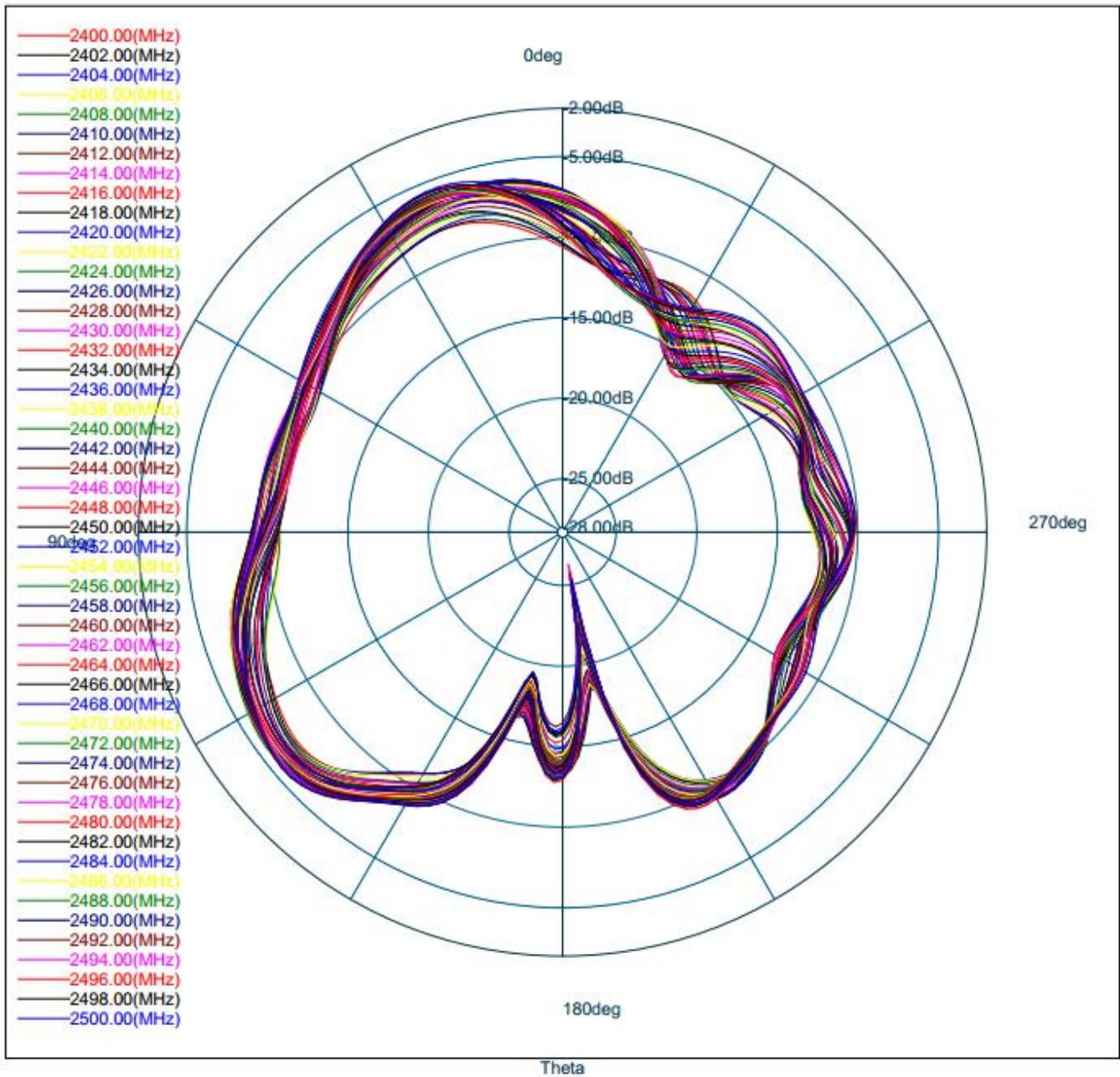
(1) E1, XZ 面, $\phi=0^\circ$; (E1, XZ plane, $\phi=0^\circ$)





(2) E2, YZ 面, $\phi=90^\circ$; (E2, YZ 面, $\phi=90^\circ$)





(3) H, XY 面, $\theta=90^\circ$; (H, XY plane, $\theta=90^\circ$)

