



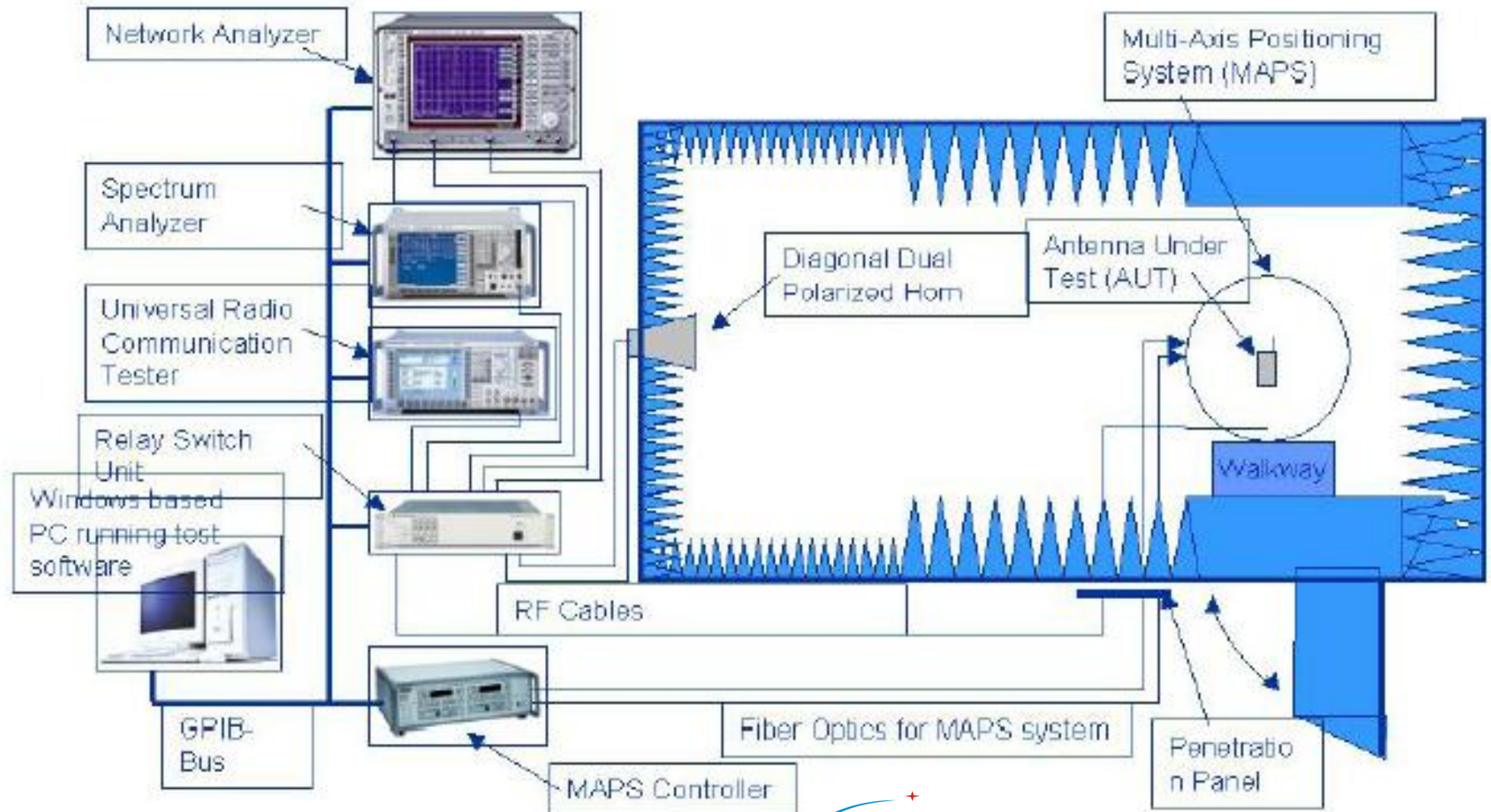
Ant Communication Technology Co., Ltd

Antenna Design & Test Report

Customer Name	Shenzhen Xinkeying Technology Co., Ltd
Project Name	DT3 MATE
Material Code	
R & D Engineer	Huangbo
Debugging Date	2022-08-11

Passive Test :

Testing environment : 7*4*3 darkroom ,
CMW500 Model comprehensive tester ◦



Working Frequency Range	2400 ~2500 MHz
Bandwidth	120 MHz (Min.)
Peak Gain	2.74 dBi (Typ.)
Impedance	50 Ohm
Return loss	10 dB (Min)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Operation Temperature(°C)	-40 ~85°C
Resistance to Soldering Heats	10sec. (@ 280°C)
Termination	Ni / Au (Leadless)

Test equipment

Test Equipment	8820C Agilent 8960 5071C 8753E
Darkroom	ETS-743
Test Temperature	23°C
Ambient Humidity	58%
Test Engineer	Huangbo



Efficiency+Gain

Passive Test For 2.4G						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
2400	35.79	-3.16	2.11	-0.04	21.678	26.58
2410	31.03	-3.26	2.13	-0.02	20.954	26.241
2420	29.14	-3.38	2.16	0.01	20.491	25.404
2430	23.44	-3.53	1.94	-0.21	19.729	24.646
2440	25.99	-3.45	2.23	0.08	19.931	25.22
2450	26.05	-3.15	2.74	0.59	21.336	27.067
2460	24.47	-3.32	2.72	0.57	20.351	26.158
2470	26.15	-3.49	2.52	0.37	19.679	25.041
2480	24.93	-3.78	2.07	-0.08	18.289	23.634
2490	26.23	-3.2	2.63	0.48	21.147	26.761
2500	26.56	-3.35	2.63	0.48	20.42	25.865

Efficiency+Gain

2400.000MHz E2

