



深圳市凯普深通讯科技有限公司
Shenzhen cape deep communication technology co., LTD

Antenna test report

Model : M2

Date : 2023.04.14

Version: 01

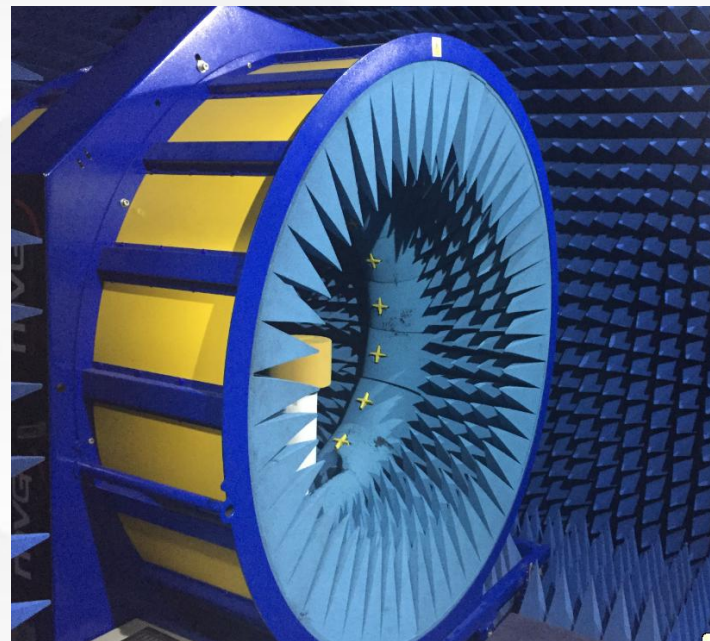
Shenzhen cape deep communication technology co., LTD

**2nd Floor, Building 1, Yulong Building, Longcheng Industrial Zone, No.440, Longguan Avenue,
Longhua District, Shenzhen**



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Laboratory testing environment and equipment



Test items	Test equipment
S11、S12、VSWR、LOSS	network analyzer E5071B、E5062A
Efficiency、Gain 3D Radiation Pattern	Satimo SG16 darkroom、 GP7*4*3 darkroom、E5071B
TRP、TIS	Satimo SG16 darkroom、GP7*4*3 darkroom、8960、 CMW500、MT8820C、E4438C、

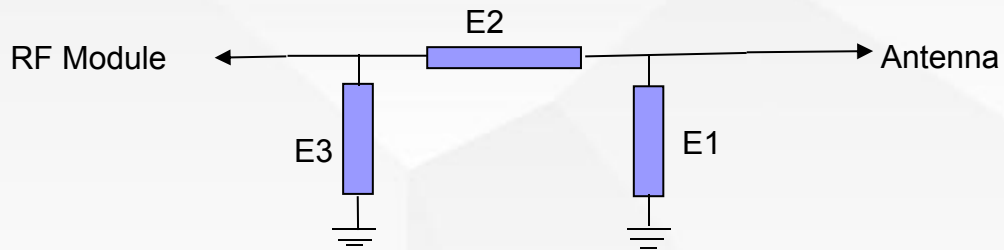


Project Introduction

Antenna material		wireway
Antenna Information Detail	Frequency	2400-2480MHz
	Antenna Type	Monopole
	Gain	-6.21 dBi



BT antenna matching circuit



Element	Value	
E1(0201)		Original matching
E2(0201)		
E3(0201)		



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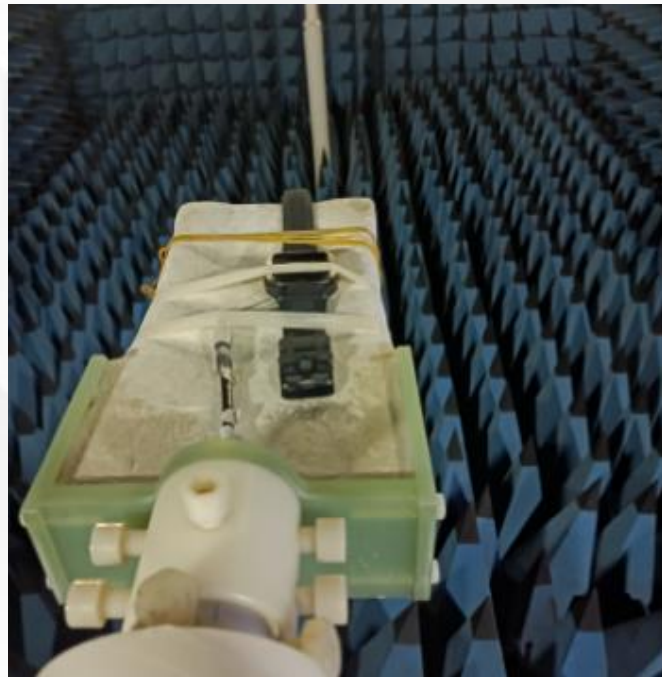


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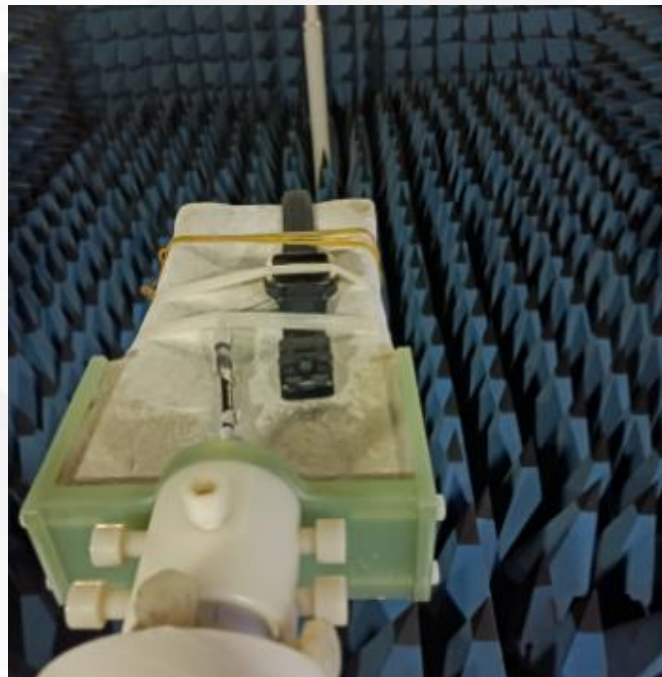
BT efficiency test data (free)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	5.01	-13	-7.93
2410	4.59	-13.38	-8.27
2420	5.09	-12.93	-7.98
2430	5.62	-12.5	-7.37
2440	6.18	-12.09	-6.84
2450	5.91	-12.28	-6.65
2460	5.82	-12.35	-6.62
2470	5.37	-12.7	-6.57
2480	5.81	-12.36	-6.21
2490	5.62	-12.5	-6.08
2500	5.3	-12.76	-6.28



BT efficiency test data (hand model)

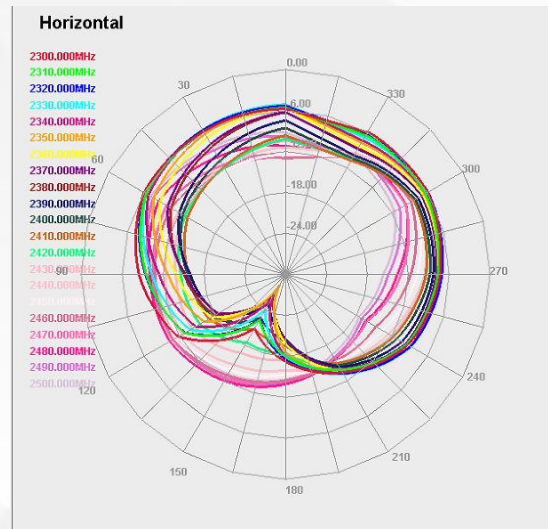
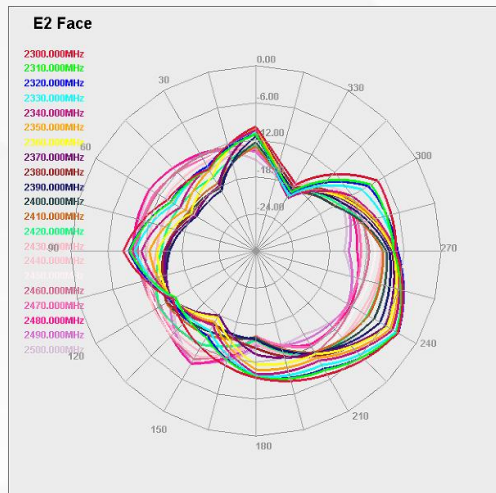
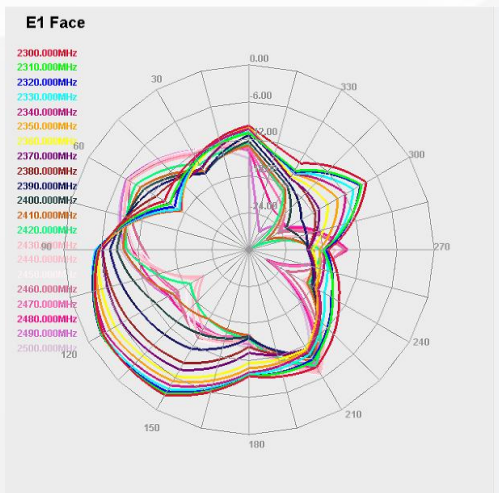
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	2.73	-15.63	-8.5
2410	2.51	-16	-8.7
2420	2.82	-15.49	-8.51
2430	3	-15.24	-8.19
2440	3.34	-14.76	-8.16
2450	3.15	-15.02	-8.58
2460	3.15	-15.02	-9.37
2470	2.94	-15.32	-9.91
2480	3.17	-14.99	-10.39
2490	2.97	-15.27	-10
2500	2.65	-15.76	-9.51





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Antenna passive testing pattern (free)

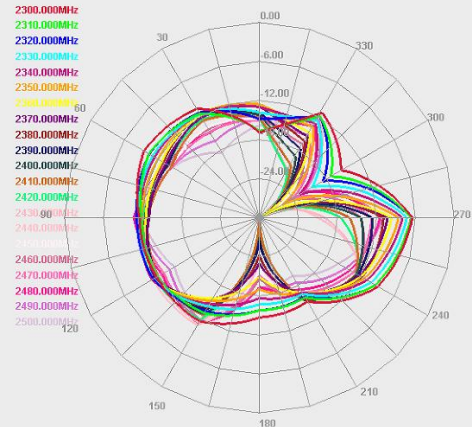




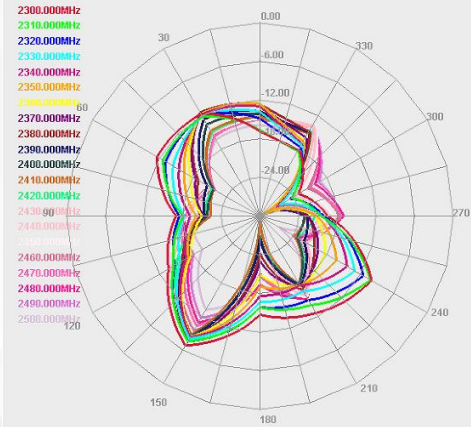
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Antenna passive testing pattern(hand model)

E1 Face



E2 Face



Horizontal

