



Shenzhen cape deep communication technology co., LTD

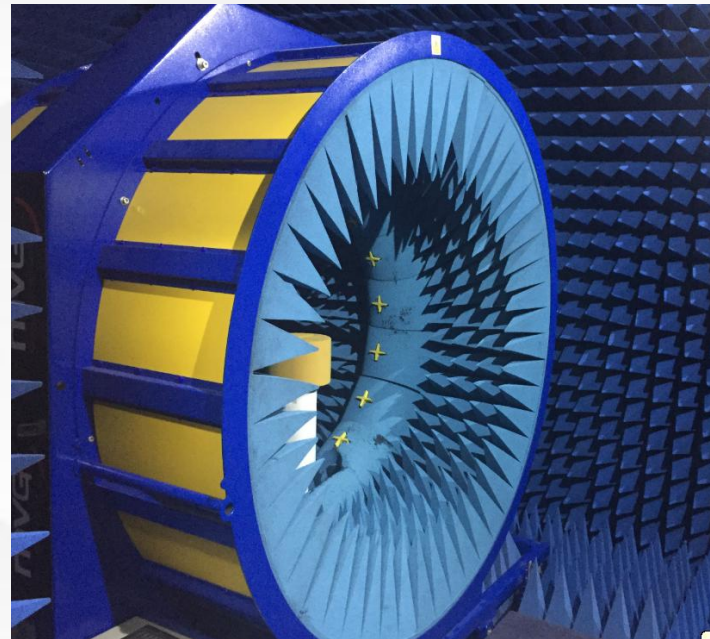
Antenna Test Report

Customer: Haoen
Project Name: CB021
RF: Hu Gong
Date: April 15th, 2025
Version: 04



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Laboratory testing environment and equipment

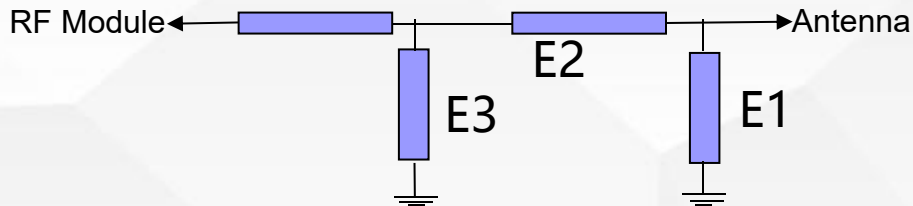


Test project	Testing equipment
S11、S12、VSWR、LOSS	network analyzer E5071B、E5062A
Efficiency、Gain 3D Radiation Pattern	Satimo SG16darkroom、GP7*4*3darkroom、E5071B
TRP、TIS	Satimo SG16darkroom、GP7*4*3darkroom、8960、CMW500、MT8820C、E4438C、



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BT antenna matching circuit



BT antenna	Element	Value	Original motherboard matching
	E1		
	E2		
	E3		



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Antenna OTA test data

Frequency band	Channel	TRP(dBm)	TIS(dBm)	Frequency band	Channel	TRP(dBm)	TIS(dBm)
BT	0	8.4	-88.6	Conduct data	0	10.8	-91.9
	39	9.5	-91.4		39	10.7	-92.6
	78	8.9	-90.3		78	10.6	-92.1



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Antenna passive test data

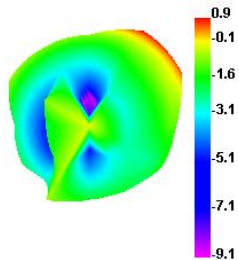
Passive Test For WIFI2.4			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	32.22	-4.92	-0.08
2410	35.15	-4.54	0.32
2420	37.06	-4.31	0.43
2430	37.27	-4.29	0.31
2440	43.21	-3.64	0.81
2450	38.97	-4.09	0.06
2460	43.77	-3.59	0.53
2470	44.55	-3.51	0.64
2480	45.49	-3.42	0.75
2490	35.4	-4.51	0.1
2500	32.23	-4.92	-0.01



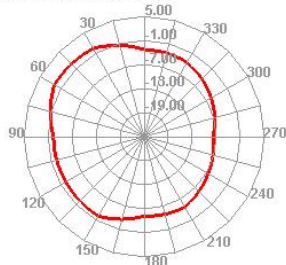
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3-D patterns

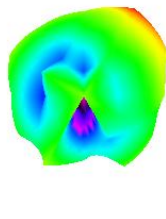
2400.000MHz



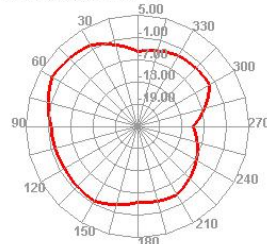
2400.000MHz H



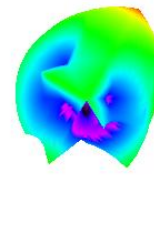
2440.000MHz



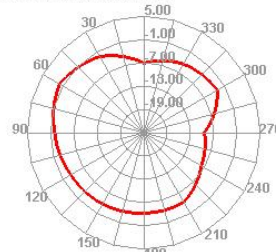
2440.000MHz H



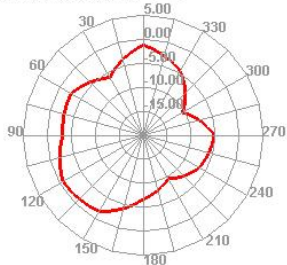
2480.000MHz



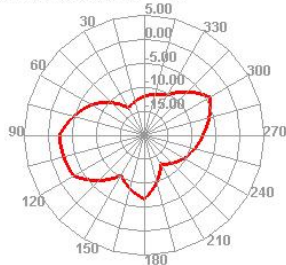
2480.000MHz H



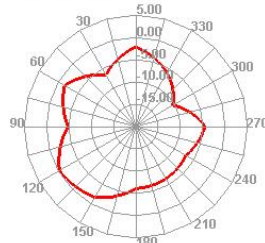
2400.000MHz E1



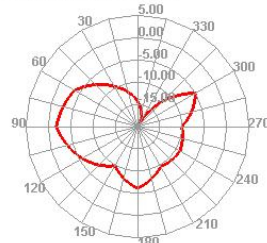
2400.000MHz E2



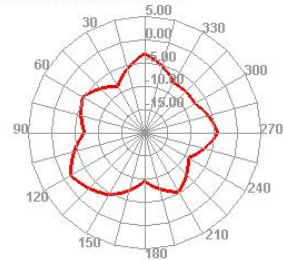
2440.000MHz E1



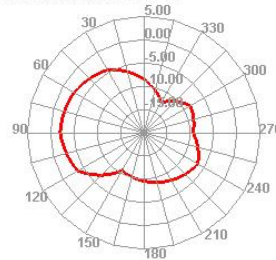
2440.000MHz E2



2480.000MHz E1



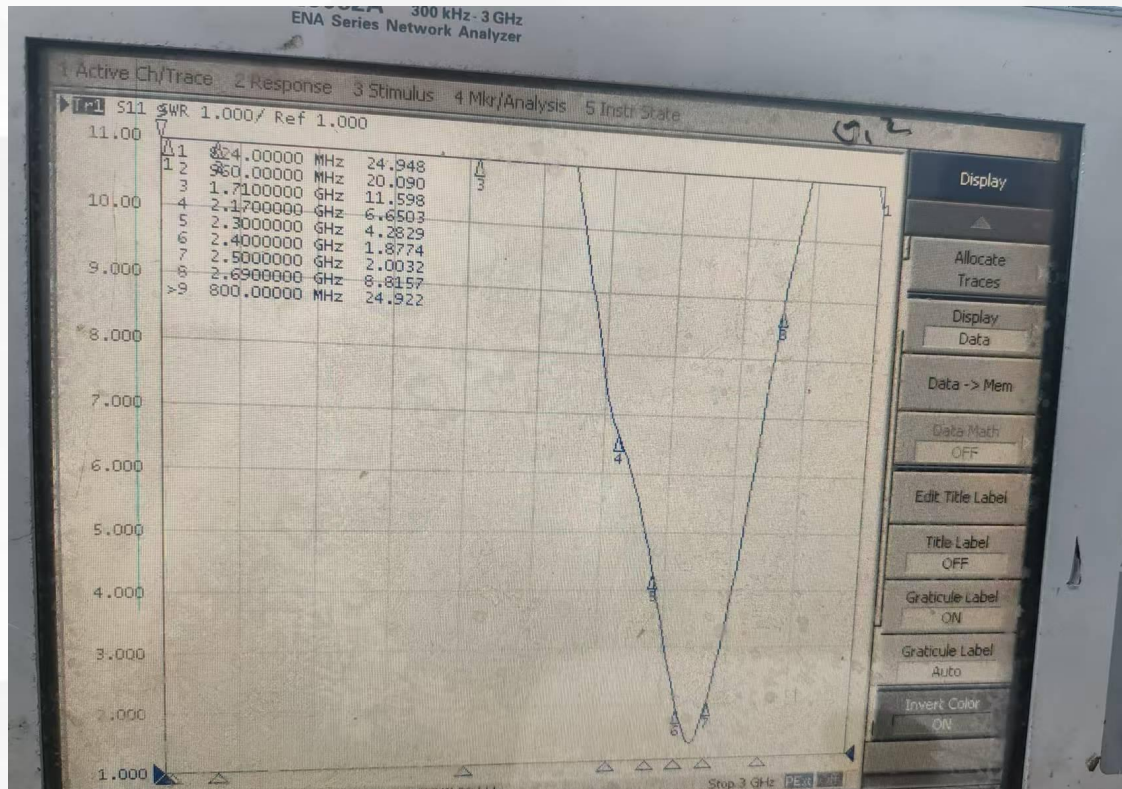
2480.000MHz E2





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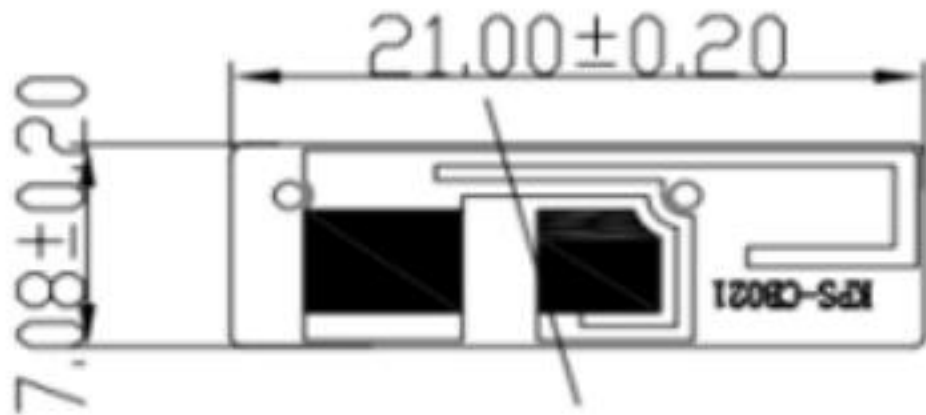
S-11 patterns



深圳市凯普深通讯科技有限公司

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include antenna dimensions



Setup photo





contact information

contact information:

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THE END

**Thank you for your
valuable feedback!**