



深圳市凯普深通讯科技有限公司

Shenzhen cape deep communication technology co., LTD

OSW-801 antenna report



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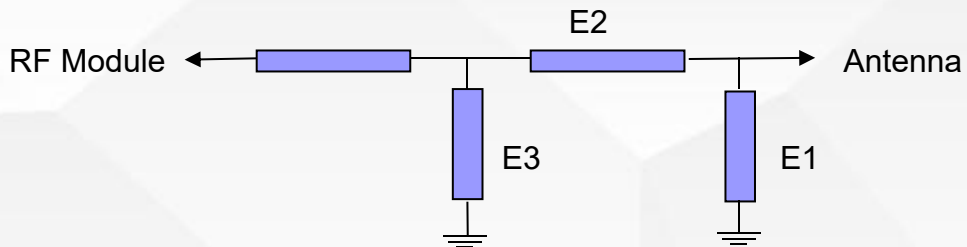
Project profile

Machine type	Smart Watch		
	frequency band	Antenna type	
Antenna type and frequency band	2402MHz-2480MHz	Wire antenna	
Antenna material	FPC		



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匹配电路

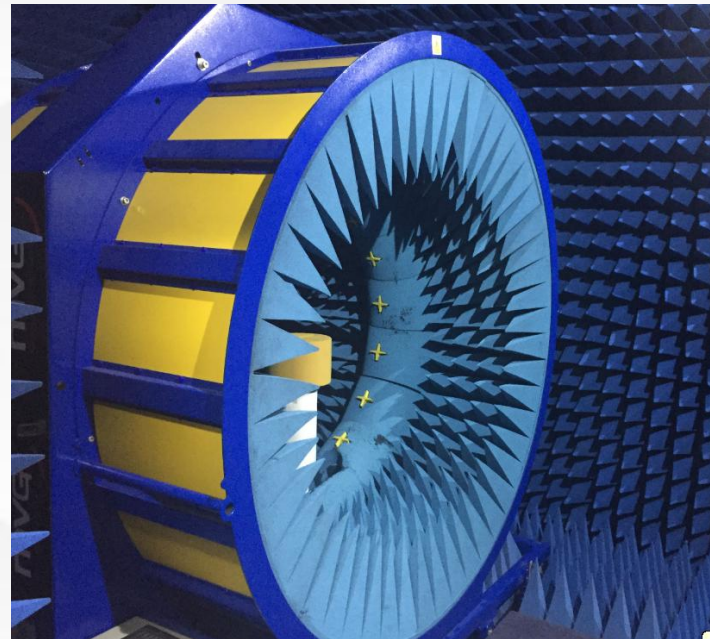


	E1	NC
	E2	0.75PF
	E3	0.75PF



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Laboratory test environment and equipment



Test item	Test equipment
S11、S12、VSWR、LOSS	Network analyzer E5071B、E5062A
Efficiency、Gain 3D Radiation Pattern	Satimo SG16hint、GP7*4*3hint、E5071B
TRP、TIS	Satimo SG16hint、GP7*4*3hint、8960、 CMW500、MT8820C、E4438C、



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Newly optimized hand mold waveform





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New optimization freedom without efficiency

Passive Test For BT2.4			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	28.2	-5.5	-1.49
2410	27.55	-5.6	-1.52
2420	28.74	-5.42	-1.3
2430	30.19	-5.2	-1.04
2440	32.89	-4.83	-0.65
2450	32.53	-4.88	-0.62
2460	31.36	-5.04	-0.81
2470	28.56	-5.44	-1.19
2480	28.12	-5.51	-1.35
2490	28.68	-5.42	-1.29
2500	29.49	-5.3	-1.11



New optimized hand model passive efficiency

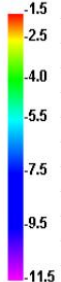
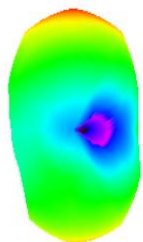
Passive Test For BT2.4

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2390	8.89	-10.51	-3.37
2400	11.06	-9.56	-2.33
2410	10.36	-9.85	-2.71
2420	10.42	-9.82	-2.65
2430	10.13	-9.94	-2.78
2440	10.94	-9.61	-2.43
2450	10.42	-9.82	-2.64
2460	10.13	-9.94	-2.73
2470	8.9	-10.51	-3.25
2480	8.91	-10.5	-3.3
2490	9.15	-10.38	-3.14
2500	9.68	-10.14	-2.97

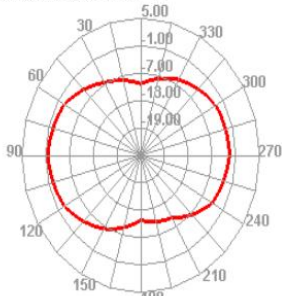


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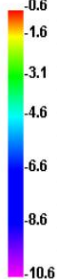
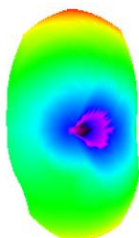
2400.000MHz



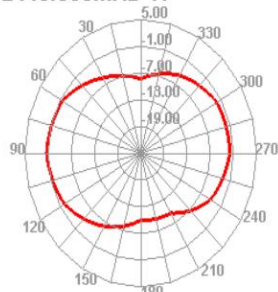
2400.000MHz H



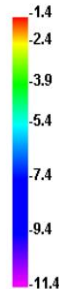
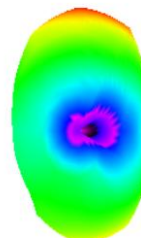
2440.000MHz



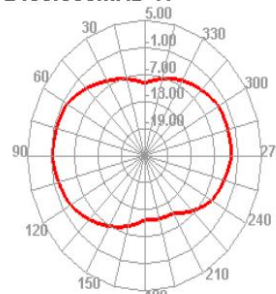
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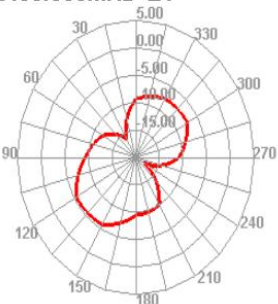
2480.000MHz



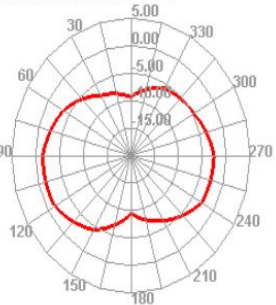
2480.000MHz H



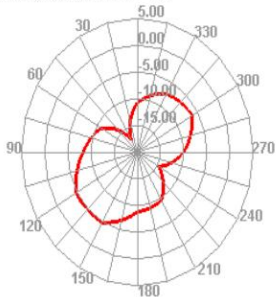
2400.000MHz E1



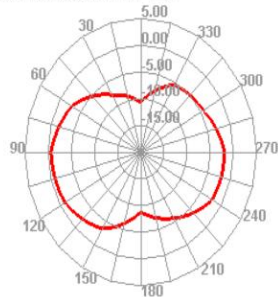
2400.000MHz E2



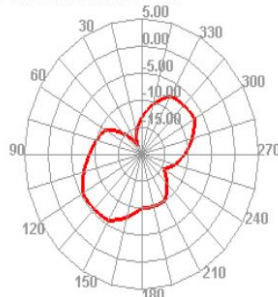
2440.000MHz E1



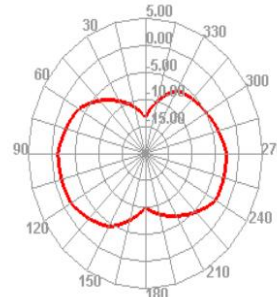
2440.000MHz E2



2480.000MHz E1



2480.000MHz E2



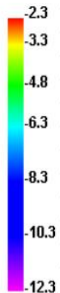
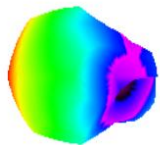
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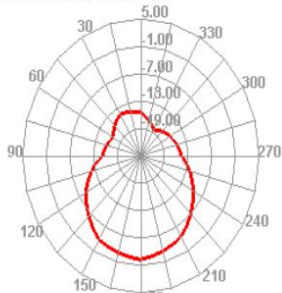


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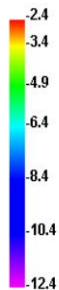
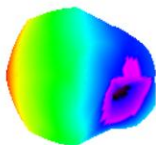
2400.000MHz



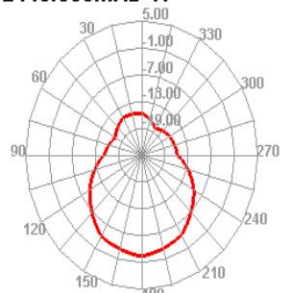
2400.000MHz H



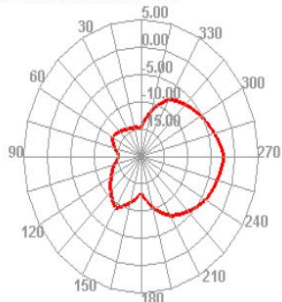
2440.000MHz



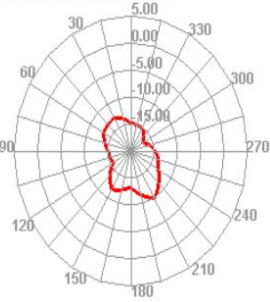
2440.000MHz H



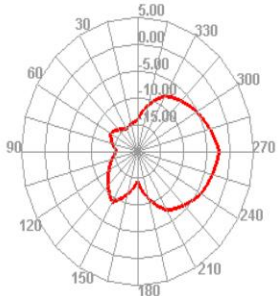
2400.000MHz E1



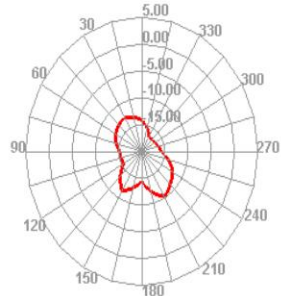
2400.000MHz E2



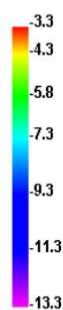
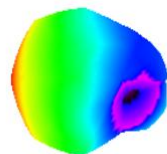
2440.000MHz E1



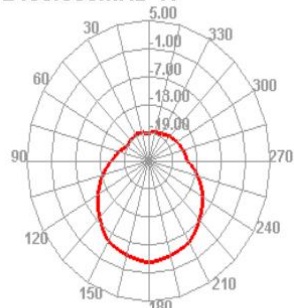
2440.000MHz E2



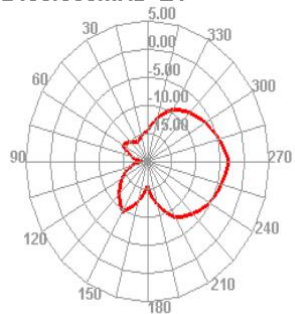
2480.000MHz



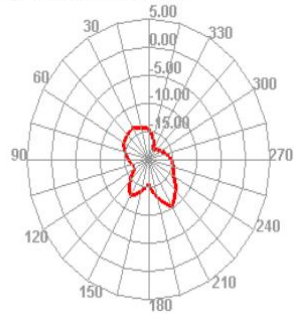
2480.000MHz H



2480.000MHz E1



2480.000MHz E2



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